Copyright © 2010-2022 3phi Solutions Inc. All Rights Reserved.

# **Table of contents**

Introduction	. 4
Getting Started	. 4
System requirements	. 5
Installation / Upgrade	5
Pre-Requisit	
Installation	. 5
AccuTerm 7 and 8	. 6
phiReport Configuration	
Report Configuration	15
Preferences	17
Account Setup	18
PRSETUP	19
PHIACCOUNTSETUP	21
User Access Control	
Activation	24
REST Data Services	25
Email Configuration	26
phiReport Data View Manager	
Data Views	
Column Editor	33
Data Types	35
Multi-Value Data	
Excel Sheet Data Format	39
Sheet Controls	41
Formula	41
Add Comments	45
Clear Data	45
Clear Duplicate Data	46
Repeat Detail/Formula	46
Set as End of Freeze Pane	48
Page Break-On	49
phiReport Builder	51
Report Select	
Report Criteria	54
PRE and POST Operands	58
Report Display Fields	60
Report Parameters	
Report Output	66
Report Pre/Post Query Processes	67
Report Security	69
Report Header/Footer	
Preview Data	70
Advanced Settings	72
Pre-Printed Forms	72
Form Template	75
Value Pair	
JSON	80

OData	. 82
Raw Data	. 88
phiReport Query	. 89
TCL Report	. 91
phiReport API	. 94
ad-hoc Reports	. 96
User Access Control (UAC)	. 97
System User	. 99
Advanced Topics	102
Macro Modules	102
Custom Macro Demo	104
Custom Macro Modules	106
Demo Reports	108
Installation	108
Demo Reports	110
Report Product List	115
Report Customer List	118
Report Invoice List Detail	
Report Invoice List Summary	131
Report Invoice form	132
Form Template	134
Passing Data to the Form	
PHIDEMOBP Demo_Invoice_PreQuery	147
Report Form Query	
Run the Report Form	
Report Form Options	152
Appendix	
Custom Criteria	
phiReport Editions	
Row Header Text Markup	
System Replacement Tokens	159

# Introduction

phiReport is a suite of reporting tools based on the Pick/MultiValue DBMS. The application is built using AccuTerm GUI, allowing any Windows user with a current AccuTerm terminal emulator to define and generate attractive Excel worksheets from a graphical user interface. Aside from AccuTerm and Microsoft Excel and Word, no additional software is required on the user workstation. Once defined, reports can be generated from character-based menus or TCL commands and exported to the user workstation. Reports can be saved in an Excel workbook, printed to any Windows printers, saved as a PDF, or e-mailed.

phiReport can also be used to define <u>JSON</u> document formats and <u>OData</u> data feeds which can be used by any 3rd party JSON REST Service and OData data feed consumers such as Google Sheets or Microsoft PowerBI and many others as listed <u>here</u>.

These options require additional components available from 3phi Solutions Inc.

There are 3 Editions of phiReport: Lite, Pro and Cloud. Click here for Edition details.

Click here for the PDF version of this documentation



Created with the Standard Edition of HelpNDoc: iPhone web sites made easy

# **Getting Started**

Once installed and your data account enabled, log to that account and enter one of the following commands:

- 1. PRCONFIG launches the main configuration program. From here you can set your default values and activate the product.
- 2. PRSETUP launches the Data View Manager which will be used to create and manage your Data Views.
- 3. PRRUN launches the phiReport Builder where you will create and test your reports. This is also where you can set report security if User Access Control is turned on in PRCONFIG.
- 4. PRQUERY launches the phiQuery program will will allow you to run the reports.

Created with the Standard Edition of HelpNDoc: Easily create EPub books

## System requirements

AccuTerm 7 or better MS Office Excel and Office Word 2003 or better

#### Options JSON/OData require the phiRest Server

Created with the Standard Edition of HelpNDoc: Easily create HTML Help documents

# Installation / Upgrade

#### Installing phiReport

Created with the Standard Edition of HelpNDoc: Create iPhone web-based documentation

## **Pre-Requisit**

phiReport is an AccuTerm GUI application and therefore it requires AccuTerm to be setup for GUI and Object Bridge applications.

#### Server Requirements:

- phiReport supports the following multi-value database servers:
  - O D3 7.x or better on Windows and Linux
  - o jBase 5.6 or better on Windows and Linux
  - o QM 3.4 or better on Windows and Linux
  - UniData 8 or better on Windows and Linux
  - UniVerse 10 or better on Windows and Linux
- AccuTerm 7 or 8 with GUI and Object Bridge enabled.
- On Linux, wget or curl must be installed
- On Windows, wget or curl or PowerShell 5.x or better must be installed
  - o wget can be downloaded from <a href="http://3phi.cloud/phiReport/obj/UTILS/wget.exe">http://3phi.cloud/phiReport/obj/UTILS/wget.exe</a>
  - o curl can be downloaded from <a href="http://3phi.cloud/phiReport/obj/UTILS/curl.exe">http://3phi.cloud/phiReport/obj/UTILS/curl.exe</a>

#### **Client Workstation Requirements:**

- AccuTerm 7 or better
- Microsoft Excel and Microsoft Word 2010 or better

Created with the Standard Edition of HelpNDoc: Free HTML Help documentation generator

## Installation

phiReport is an AccuTerm GUI application and therefore requires AccuTerm to be setup for GUI applications.

Please refer to the correct installation instructions matching the version of your AccuTerm.

#### Installation Instructions for AccuTerm 7

Installation Instructions for AccuTerm 8

Created with the Standard Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

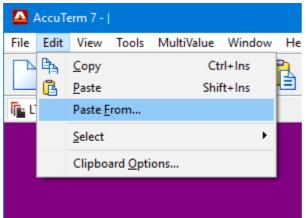
#### AccuTerm 7 and 8

phiReport is an AccuTerm GUI application and therefore requires AccuTerm to be setup for GUI applications.

#### AccuTerm 7 and 8 Installation

Follow these steps to setup AccuTerm for phiReport. For more information about setting up AccuTerm, please refer to the AccuTerm documentation.

- 1. Create an account where to load the AccuTerm programs. The default account name is "ACCUTERM".
- 2. From the AccuTerm Edit menu select "Paste From"



3. Locate the AccuTerm programs for your platform

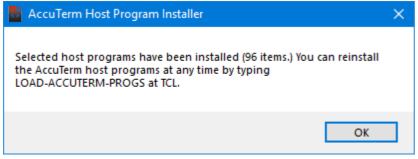
Select File to Paste ×					
← → × ↑ <mark> </mark> « 4	Atwin71 > PICKBP >	√ Č	Search PICKBP	م	
Organize 🔻 New fol	der			- 🔳 🕐	
Atwin71 🖍	Name		Date modified	Туре ^	
- Doc	GUIBP		10/12/2017 12:31	File folde	
GuiLib	Оыјвр		10/12/2017 12:31	File folde	
/ Images	SUIBP		10/12/2017 12:31	File folde	
License	FTPINSADDS.TXT		7/28/2014 17:40	TXT File	
	FTPINSAP.TXT		7/28/2014 17:40	TXT File	
GUIBP	FTPINSAP_AIX.TXT		7/28/2014 17:40	TXT File	
	FTPINSAP_PRO.TXT		7/28/2014 17:40	TXT File	
ОђјВР	FTPINSCACHE.TXT		7/28/2014 17:40	TXT File	
SUIBP			7/20/2014 17 40	× • • • • • • • • • • • • • • • • • • •	
File	name: FTPINSD3.TXT	~	Text Files (*.txt)	~	
			Open	Cancel	

4. At the Options prompt, select "GUI support programs" and "ObjectBridge support". Select "Sample data files" to install the AccuTerm demo files. These files are used by the phiReport demo reports. You can install the sample files at a later stage by running LOAD-ACCUTERM-PROGS from the AccuTerm account.

cuTerm Host Program Installation Options			
Install selected items O Install a	all items	○ Reinstall	FTBP
Install the following items:	Install into he	ost files:	
🗹 File transfer programs	FTBP		Info
🗹 GUI support programs	GUIBP	_	Info
🗌 GUI sample projects	GUIBP	GUIAPPS	Info
🗹 ObjectBridge support	OBJBP		Info
🗌 ObjectBridge samples	OBJBP		Info
Smart User Interface library	SUIBP	_	Info
Sample subroutine library	SAMPLES	_	Info
AccuTerm demos	DEMOBP	_	Info
🗌 GUI tutorial examples	GUIBP	GUIAPPS	Info
□ "Modernizing the user interface"	UIEX		Info
🗹 Sample data files: CUST.SAMPLE, I	NV.SAMPLE, PP	ROD.SAMPLE	
		ОК	Cancel

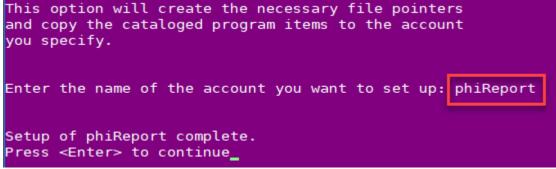
5.	Answe	er Yes to the following dialogs				
đ	AccuT	erm Host Program Installer 🛛 🛛 🗙	6	Accu	Ferm Host Program Installer	$\times$
	?	File GUIBP does not exist. Create this file?		?	File OBJBP does not exist. Create this file?	
		Yes No			Yes No	
	Accu	Term Host Program Installer	×			
	?	You are about to: Load GUI support programs into GUIBP Load ObjectBridge subroutines into OBJBP Load ObjectBridge sample programs into OBJB Are you sure?	P			
		Yes No				
-	<b>.</b>					

6. Click Ok when done.



- From TCL logto your new AccuTerm account
   Enter FTSETUP

:ftsetup	
AccuTerm Account, File Transfer & Server Configuration	
(1) Account Setup	
(2) Kermit Configuration	
(3) FT File Transfer Configuration	
(4) FTD Data Transfer Configuration	
(5) Pick-to-Pick File Transfer Configuration	
(6) Server Configuration	
(7) Miscellaneous Settings	
Enter option (1-7) or X to exit: _	
9. Select option (1) Account Setup	
10. Enter your phiReport account name	
This option will create the necessary file pointers	



11. AccuTerm setup is complete, exit the setup menu and logto to your phiReport account.

#### Installing and upgrading phiReport

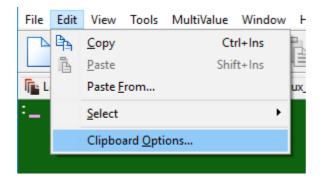
- 1. Open AccuTerm and connect to your database server
- 2. Create a new account where phiReport will be installed. For instructions on how to create an account please refer to your database platform manual.

Note for **D3** : On D3 NT, we recommend you create an FSI account. Note for **UV**: On UniVerse, you must create an account in **PICK Flavor**. Note for **UD**: On UniData, make sure your new account is running in **ECLTYPE 'P'** and **BASICTYPE 'P'**.

The name of the account is not important but we recommend it be called **PHIREPORT**. Once phiReport is installed you will be able to run phiReport from your data accounts by enabling them from the <u>PRCONFIG</u> program.

- 3. Log to the new account
- 4. Make sure the AccuTerm Paste Options is set to "CR"

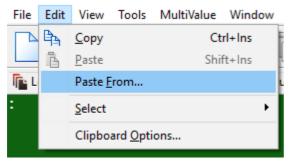
Open the clipboard Options



#### Select "CR"

AccuTerm Settings		$\times$
<u>Category:</u> Clipboard	Clipboard  Paste Options  Paste end-of-line: CR User defined: Do not send line-end after last (or only) line pasted  Paste end-of-text: none User defined: User defined: User defined: Do to ms Copy Options Copy Options Copy/Paste shortcut: Ctrl+Insert / Shift+Insert V	
	OK Cancel Apply	

5. From AccuTerm's Edit menu, select Paste From



- Select File to Paste  $\times$ ተ 🗄 > This PC > Documents ~ ē Search Documents Q New folder HEE 🔻 Organize • 2 Name Date modified Size Type 💻 This PC 🗊 3D Objects BusinessStuff 7/5/2018 12:21 AM File folder Custom Office Templates 7/4/2018 11:35 PM File folder 🔜 Desktop HelpNDoc 6/9/2018 2:21 PM File folder 😫 Documents IISExpress 12/29/2015 12:29 File folder 🖶 Downloads League of Legends 2/22/2016 7:41 PM File folder 💧 Music My Shapes 3/21/2018 9:34 PM File folder Pictures My Web Sites 12/22/2017 7-23 PM File folder I VIII ile name: http://3phi.cloud/phiReport/obj/XX/phiBOOTSTRAP Text Files (\*.txt) Open Cancel
- 6. At the Select File to Paste dialog-box, enter the URL to the installation bootstrap file.

The installation bootstrap file is located at http://3phi.cloud/phiReport/obj/ XX/phiBOOTSTRAP (URL is case sensitive)

Replace "XX" with a supported platform name: D3, QM, UV

- o To install on D3, enter http://3phi.cloud/phiReport/obj/D3/phiBOOTSTRAP
- o To install on jBase, enter http://3phi.cloud/phiReport/obj/JB/phiBOOTSTRAP
- o To install on QM, enter http://3phi.cloud/phiReport/obj/QM/phiBOOTSTRAP
- o To install on UniData, enter http://3phi.cloud/phiReport/obj/UD/phiBOOTSTRAP
- o To install on UniVerse, enter http://3phi.cloud/phiReport/obj/UV/phiBOOTSTRAP

Note: The installation URL will always have the latest available release.

7. click "Open" to start the installation

If you receive the error message below you will need to download and save the installation program to your local computer before you can install phiReport

Select Fi	le to Paste	$\times$
	http://3phi.cloud/phiReport/obj/D3/phiBOOTSTRAP Path does not exist. Check the path and try again.	
	ОК	

To download the installation program, go to the installation URL from your browser and save the source to a text file. Repeat step 6 above but instead of entering the URL, select the text file you just downloaded then click "Open".

8. Once downloaded, the install program will automatically start. It will attempt to detect the account where AccuTerm is installed.

phiB00TSTRAP
[241] Successful compile! 4 frame(s) used.
Download method : wget
<pre>Please enter the account name where AccuTerm is installed.   (default=ACCUTERM), (Q)uit&gt; ?_</pre>

If AccuTerm is not installed in account ACCUTERM, enter the account name here

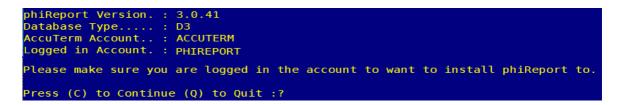
Press Q to quit the installation. To resume installation, enter **PHINST** from TCL.

Press Enter to continue the installation

9. Accept the EULA to continue the installation

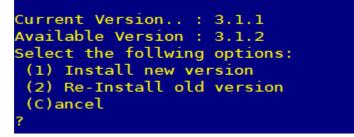
phiReport End User License Agreement	$\times$
3.1.12	
License Agreement	
END USER LICENSE AGREEMENT	^
This Agreement is valid for the BASIC, TRIAL and PRO Licenses of phiReport.	
IMPORTANT, PLEASE READ CAREFULLY: THIS END USER LICENSE AGREEMENT "EULA" IS A LEGAL AGREEMENT BETWEEN YOU (AS AN INDIVIDUAL OR ENTITY, "YOU" THE "CUSTOMER") AND 3PHI SOLUTIONS INC. ("3phi") OR ONE OF ITS AUTHORIZED RESELLER OR DISTRIBUTOR ("RESELLER"), FOR PRODUCTS AND SERVICES, WHICH MAY INCLUDE COMPUTER SOFTWARE AND ASSOCIATED DOCUMENTATION ("SOFTWARE"). BY INSTALLING OR OTHERWISE USING THE SOFTWARE OR RECEIVING THE SERVICES, YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA. IF YOU DO NOT AGREE WITH THE TERMS OF THIS EULA, DO NOT USE THE SOFTWARE OR SERVICES.	
1.0License Grant. This EULA grants you, the user, a non-exclusive, non-transferable license to install and use the Software, in object code for your internal business purposes under the terms and conditions stated herein. The Software is to be installed, used, and deployed in accordance with the specific license you purchased. This EULA can be updated from time to time, in 3phi's sole discretion and will be made available at https://www.3phi.solutions/phiReport/phiReportEULA.txt	
2.0Permissible Use. You may use the Software for the number of licenses or capacity that you have purchased. You are permitted to make copies of the Software and documentation for your own use in accordance to EULA. Any copies or partial copies of Software and documentation that you make must incorporate all patent, copyright and	~
If you accept the terms of this agreement, select the first option below. You must accept the agreement to install phiReport. Click Accept to continue the installation.	
<ul> <li>I accept the terms in the License Agreement</li> <li>I do not accept the terms in the License Agreement</li> </ul>	
View EULA in Browser Decline Accept	

10. A quick summary of the installation is displayed.



When upgrading or reinstalling phiReport the installer will look for the most recent release and when available will offer to reinstall the old version or install the new version.

Note: If your current version is very old it may no longer be available for re-installation.



If the account you are installing phiReport to is not called "PHIREPORT" a warning is displayed.

(\*\*\* it is recommanded to install the product in account PHIREPORT \*\*\*)

It is not required to install phiReport in account PHITREPORT. The warning message is just a confirmation notice.

Press C to Continue the installation

11. Installation is completed.

The installer creates all necessary files, downloads the programs and catalogs them. If the AccuTerm sample files are installed the phiReport demo reports will also be installed. Once the installation is complete the installer will attempt to activate your system. If you are upgrading from a previous PRO version you will automatically get a PRO activation. Click <u>here</u> for more information on activating your product.

If you would like to install the phiReport demo reports at later time you can do so by entering RPTDEMOSETUP from your PHIREPORT account. Click <u>here</u> for more detail on the demo reports.

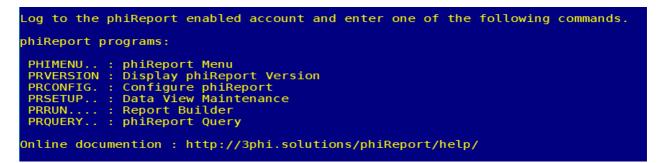
To run the demo enter XL.DEMO from TCL in your PHIREPORT account.

**** Installation Compl	eted *****
hiReport version	: 3.1.4 Pro
atabase System	
ccount name	
Inique ID	
erial Number	
icensed Database Users	
ctivation Status	: Permanent
reate Excel Workbooks son Rest Services	: Enabled
son Rest Services	: Enabled
Data Data Feed	: Enabled
	from your data accounts you must enable them from the r accounts are enabled you will be able to launch the tly from them.

In order to use phiReport in your own accounts, you need to enable them by setting them up for phiReport programs. This process creates program pointers in your account. Click <u>here</u> for instructions on how to enable your accounts.

12. Press Y to launch PRCONFIG to enable your accounts and configure phiReport. To launch the PRCONFIG program enter PRCONFIG at TCL.

At the end of the installation the following is displayed:



Upgrading phiReport

To upgrade an existing installation of phiReport, repeat from step 5 above.

Created with the Standard Edition of HelpNDoc: Produce Kindle eBooks easily

## phiReport Configuration

The Configuration program is run in the phiREPORT account. It is used to set system-wide parameters and to setup application accounts for use with this software. Each tab on the PRCONFIG screen is described here.

Created with the Standard Edition of HelpNDoc: Free CHM Help documentation generator

## **Report Configuration**

phiReport Configuration and Pr	eferences				—		×
File Edit Tools Help							
C 🗖 🗈 🗊 🧊	þ <b>-</b>						
Account Setup	User Access Cont	trol	REST Da	ata Services	Ac	tivation	
Report Configuration	F	Preferences		Email C	Configurati	on	
Master Template Location						~	
Backup Template Location						~	
Local Template Folder						$\sim$	
Template Name							
Overwrite Template							
Force Template Download							
phiForm Template Name							
Toolbar Size	◯ Small	ge Cache	elcons				
Log Usage	Store Report lo	g information	in RptLog	file			
System Function Args	256 32bit Da 64bit Se	tabase Serve	ers only su ted by the	pport a maximur system memory			
phiReport 3.1.0 Pro (D3)				04 Feb 2019 - pt	demo_db	(PTI7) - P	ort 2

#### Master Template Location

This is a file path or URL to the Excel template. When creating an excel report, phiReport will check the local workstation for the latest version of the template. If the local workstation does not have the latest version of the template it will download it from the provided path/URL.

#### **Backup Template Location**

Sets the secondary path/URL of the template. If phiReport is unable to download the Excel template from the Master Template Location, it will attempt to download it from this Backup Template Location.

#### Local Template Folder

Folder for local templates. Can be an environment variable like \$TEMP or \$HOME \$TEMP is the user's temp folder. \$HOME is the user's home folder

#### Template Name

The name of the Excel template used to create the resulting Excel workbook.

#### **Overwrite Template**

When checked the local workstation template is overwritten regardless of its version.

#### Force Template Download

When checked download the template for every report.

#### phiForm Template Name

phiForm is a feature of phiReport that allows you to created pre-printed type reports instead of tabular type reports. A pre-printed report is a report that comprises a complex header, a complex footer, a tabular or complex body and complex paging mechanism. Think of pre-printed reports as invoices, quotes, purchase orders,... where the header defines a "from" and a "to" box (ship from, bill to,...), an invoice or purchase order number and any non-repeated data printed on top of each page. The complex footer could include a page total, grand total, tax amounts,... The body of the report could be the invoice's line items.

## Toolbar Size

Sets the toolbar icon size.



#### Cache Icons

By default icons are stored on the internet and downloaded everytime they are required by the application. Click on this button to download the application icons to the local workstation.

#### Log Usage

When checked a report log is maintained with execution with date, time, user, report run, parameters, tcl statement, options... The log is stored in file RptLog in the data account.

t:
Description
ItemID: Unique Id in Pick internal DATE and TIME format.
Date in Pick internal format
Time in Pick internal format
Username
Account
Report Name
Query/TCL statement run
Report Header
Report Footer
Report options (multiValue/subValue list of option flags)
Workstation name
Report result

\*\*\* Warning \*\*\* : Note that there is no automatic cleanup on this file which means that it could get very large. If this feature is turned on we recommand you create your own housekeeping process to maintain the size of this file.

Created with the Standard Edition of HelpNDoc: Easily create CHM Help documents

## **Preferences**

The Preferences tab allows you to set default phiReport settings

phiReport Configuration and Pr	eferences			- 0	×
File Edit Tools Help					
C 🛛 🗉 🗶 🕽	þ <b>- 2</b>				
Account Setup	User Access Contro	REST	Data Services	Activation	
Report Configuration	Pr	eferences	Email Co	onfiguration	
Auto Update Column V Treat missing End Rang Default Alternate Row Allow global Category upda for Data Sec Allow global Category upda for Custom List Cri	ge as    Greater T Color	han (and Equals To 	) 〇 Equals To		
phiReport 3.0.59 Lite (D3)			23 Oct 2018 - pt	phireport (PTI7) - I	Port 2

#### Auto Update Column Width

When checked, resizing the data columns from the preview grid on the phiReport application automatically updates the column width definition of the active Data View.

#### Treat missing End Range

When using the "is Between (Inclusive)" or "is Between (Exclusive)" operators and the End Range value is not provided, phiReport will either use "is Greater Than" / "is Greater or Equals" or "Equals To" operator.

#### Default Alternate Color

Sets the color of alternating rows in phiReport preview, Excel, and final printing. Can be overridden at the report level.

#### Allow global Category updating for Data Section

When checked, phiReport will prompt the user to apply Data Section changes to all reports within the Active category.

#### Allow global Category updating for Custom List Criteria

When checked, phiReport will prompt the user to apply Custom List Criteria changes to all reports within the Active category. If the Custom List Criteria is not defined it will be appened to the end of the report's criteria.

Created with the Standard Edition of HelpNDoc: Easily create Help documents

## Account Setup

This option is only available when **PRCONFIG** is run from the **phiReport** account. It copies a set of q-pointers, create local files and BASIC program catalog items to the MD/VOC of application accounts.

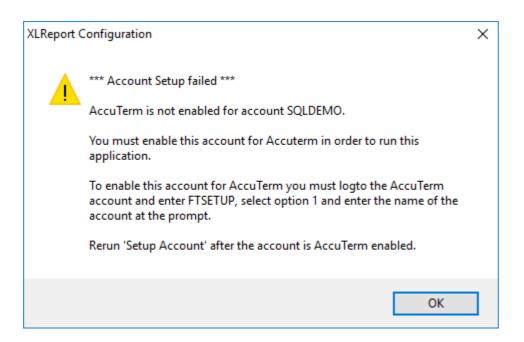
You can also run **PHIACCOUNSETUP** from TCL to enable accounts directly from TCL. Unlike **PRCONFIG**, **PHIACCOUNSETUP** is be run directly from your AccuTerm enabled application/data accounts.

Accounts must be AccuTerm enabled before you can enable them for phiReport. Log to the AccuTerm account, enter FTSETUP, and choose option (1) Account Setup.

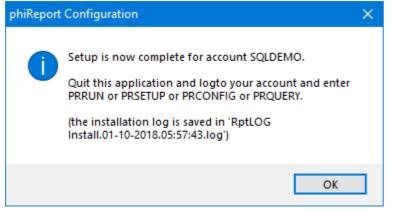
On the Account Setup tab, select an application account from the dropdown list which has been built from the DBMS, and click "Setup Account". System security must allow this operation whenever it is used.

File Edit Tools Help
User Access Control REST Data Services Activation
Report Configuration Email Configuration Account Setup
Account SQLDEMO Setup Account
Installation date : 01/10/2018 time : 05:57:42 Logged on user : PT phiReport main account : Target data account : SQLDEMO 
phiReport Builder 3.0.0 10 Jan 2018 - PT xlreport.dev (PTI7) - Port

Before you can enable your account for phiReport, it needs to be AccuTerm enabled.



If the account is successfully enabled the following dialog displays:



To review the installation log edit file RptLog in your account.

Created with the Standard Edition of HelpNDoc: Produce Kindle eBooks easily

#### PRSETUP

This option is only available when **PRCONFIG** is run from the **phiReport** account. It copies a set of q-pointers, create local files and BASIC program catalog items to the MD/VOC of application accounts.

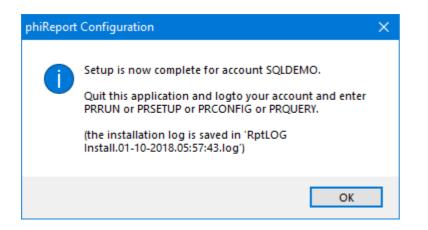
Accounts must be AccuTerm enabled before you can enable them for phiReport. Log to the AccuTerm account, enter FTSETUP, and choose option (1) Account Setup.

On the Account Setup tab, select an application account from the dropdown list which has been built from the DBMS, and click "Setup Account". System security must allow this operation whenever it is used.

phiReport Configurat	ion and Preferences		- 🗆	×
File Edit Tools Hel	2			
C 🔒 📴 🛛	II 📑 🗾			
User Access Con Report Configuration		T Data Services	Activation Account Setur	
Account SQLDE	MO	✓ Setup Accou	nt	
				^
Created XLTemp Q Created AppWF Q Created RPTAPPS Created RPTBP Q Created XLBP Q Created DEMOBP Q Created DEMOAPF Created RPTWORK Created PRSETUP Created PRSETUP Created PRRUN ver Created PRQUERY Created TABLIST ver Created TABSORT	Pointer. Q Pointer. Pointer. Q Pointer. S Q Pointer. STATIONS Q Poin verb b verb verb rb	ıter.		
phiReport Builder 3.0.0	1	0 Jan 2018 - PT xire	port dev (PTI7) - F	Port 19
Before you can enable XLReport Configuration	I	· · · · · · · · · · · · · · · · · · ·		
AccuTerm is	etup failed *** not enabled for acco	ount SQLDEMO. Accuterm in order to	o run this	
application. To enable thi account and	s account for AccuT enter FTSETUP, selec	erm you must logto t ct option 1 and enter	he AccuTerm	
account at th Rerun 'Setup		ccount is AccuTerm e	enabled.	

If the account is successfully enabled the following dialog displays:

OK



To review the installation log edit file RptLog in your account.

Created with the Standard Edition of HelpNDoc: Easily create EBooks

#### **PHIACCOUNTSETUP**

You can also run **PHIACCOUNSETUP** from TCL to enable accounts directly from TCL. Unlike **PRCONFIG**, **PHIACCOUNSETUP** is be run directly from your AccuTerm enabled application/data accounts.

At the prompt enter "YES"

This will enable this account to use phiReport Would you like to continue (Yes/No) -> ?YES

Once completed a similar screen is displayed:

Account Setup Completed	
phiReport version Database System Account name Unique ID Serial Number	: 3.1.12 Pro : : :
Licensed Database Users	
Activation Status Create Excel Workbooks Json Rest Services OData Data Feed	: Permanent : Enabled : Enabled : Enabled

Note: Your account must be AccuTerm enabled In order to run this command.

Created with the Standard Edition of HelpNDoc: What is a Help Authoring tool?

## **User Access Control**

This tab is used to configure individual user access to reports and features.

For access to phiReport functions, the settings are system-wide, and PRSETUP can be run from any

account for these access types.

In user accounts, the Access Detail section only lists local Data Views, Reports, and Categories. So depending on how files are shared between accounts, this PRSETUP may need to be run in individual accounts in order to secure access to these specific access types.

💮 phiReport Configu	uration and F	Preferences		– 🗆 🗙
File Edit Tools H	Help			
C 📘 🗉		2		
Report Configura	ation	Email Configuration	n	Account Setup
User Access C	Control	REST Data Se	rvices	Activation
Turn UAC (	On O	ff		
	ccess Deta low Access	il s to Program	< Chec	c nry :k thy ry
phiReport Builder 3.0.0		10 Jan 20	18 - PT (	demo_db (PTI7) - Port 19

🙀 phiReport Configu	uration and Preferences	– 🗆 X
File Edit Tools H	Help	
C 🔒 🗉	) 🔟 📑 🛃	
Report Configur	ation Email Configuration	Account Setup
User Access (	Control REST Data Servi	ices Activation
Turn UAC	) On 🔾 Off	
PRCONFIG PRSETUP PRRUN O	ustomer View elivery Type View rder View roduct View	< <p>Check All</p>
		Allow all Users
phiReport Builder 3.0.0	10 Jan 2018	3 - PT demo_db (PTI7) - Port 19

## Turn UAC On/Off

This allows phiREPORT security to be toggled for all accounts. When Off, all users can use all functions and see all reports and data.

#### Access Type

There are two basic Access Types, one for phiReport itself and one for data and reports. Select a specific Access Type to change user access to each type.

#### Access Detail

For phiReport programs, this shows "Allow Access to Program" as the only option. With this selected, select User Names that will have access to the selected program. For Data Views, Reports, and Categories, the Access Detail shows a list of the created access types. For example, to give access to all reports in category Accounting, select the Access Type Categories, Access Detail is the Accounting category, and then select the Users that have access to those reports.

#### **User Name**

When UAC is On, checked users have access to the specific Access Type/Detail options selected. Unchecked users are not able to execute the phiReport programs, to access reports that are in specific categories, or to make use of specific data views.

#### Check All / Uncheck All

These buttons provide a quick on/off for all items. Individuals can then be toggled.

#### Allow all Users

This check is equivalent to clicking Check All. This might be preferable as a fast way to recognize that all users have access to a function. When this is checked, individual user selection is disabled.

TIP: User Access Control can be accessed directly from TCL using the PRUAC verb.

See "User Access Control" Topic for more detail.

Created with the Standard Edition of HelpNDoc: Free EPub and documentation generator

## Activation

phiReport must be acticated in order to generate Excel sheets and JSON/OData documents.

Each system will generate a unique phiReportID required to activate your license of phiReport. Before activating, you must either be granted a temporary license or purchase a permanent license. Your system information will be stored on our activation server to which you can connect to activate your copy of the product.

An internet connection is required to activate online. Click on the "Activate Online" button. This should not take more than a few seconds.

If no internet connection is available you can request an activation code from our customer support or from our activation web page.

To request a free 30 day temporary activation code, enter the word "TRIAL" in the license number field.

If you have purchased a Pro or Cloud license, enter the license number in the license number field.

phiReport Configuration and P	references				- 0	×
File Edit Tools Help						
C 🗉 💷 🗍	🏂 🗾					
Report Configuration	F	Preferences		Email	Configuration	
Account Setup	User Access Con	trol	REST Data	Services	Activation	
License Type Activation Code phiReport ID	⊖ BASIC    TRIA		TRIAL			
	Activate Onlin	ne A	ctivate Manua	lly		
Activation Status						
License Type						
Features	☑ Create Excel W □ Json Rest Servie □ OData Data Fee	ces				
Accuterm						
Database System						
Unique ID						
Serial Number						
Licensed Database Users						
phiReport 3.0.0 Pro (UV)			16 MAY 2019	- root XLREP	ORT.DEV (PTI7) - P	ort 59

A successful activation will display the type of activation and the enabled features. The version number and activation type is also displayed in the bottom left of every form.

Activation Status	Activated				
License Type	Permanent				
Features	☑ Create I ☑ Json Re ☑ OData I				
	phiReport	Configuration	×		
Database Syste					
Unique		Activation Validated			
Serial Numb	e				
Licensed Database Use	r	ОК			

Created with the Standard Edition of HelpNDoc: Create cross-platform Qt Help files

# **REST Data Services**

phiReport can be used to create JSON and OData documents. These are optional features that require access to our phiREST RESTful service server. This phiREST server can be installed on your local IIS web server or you can use our cloud enabled phiREST server. The later option requires minimal installation and maintenance on your part.

phiReport Configuration and Pre	eferences						×
File Edit Tools Help							
C 🗖 🗈 🗊 🏹	🛃						
Report Configuration	F	references		Ema	il Configu	iration	
Account Setup	User Access Cont	rol	REST	)ata Services		Activation	
JSON Services Service End-Point							
							^
OData Services Service End-Point							^
							×
Services Security							
Anonymous (Not recomma	anded - should onl	y be used for	testing)				
Enable Token Based Auth		•					
Enable Basic Authenticati							
phiReport 3.1.0 Pro (D3)				04 Feb 2019 -	pt demo_	_db (PTI7) -	Port 2

In the "Services End-Point" enter the URL where your JSON/OData service provider is installed.

Is the Service Security frame, select the security Check "Enable Service Authentication" to secure access to the services. When unchecked, all services will run annonymously.

Created with the Standard Edition of HelpNDoc: Produce online help for Qt applications

## **Email Configuration**

This tab provides email settings to email reports. Email settings can be setup system wide (one email account for all users) or per user.

#### **Outlook Client**

When selected, reports will be emailed using the local workstation Outlook accounts.

	and Preferences			- 🗆
Edit Tools Help				
; 🔒 🗊 💵	D			
Account Setup	User Access Cor	ntrol REST	Data Services	Activation
Report Configurat	ion	Preferences	Email Co	nfiguration
Email Server Type	Outlook Client	O SMTP Server	◯ Microsoft E	xchange
Outlook				
Default Outlook A	ccount		×	
Test Email Address	5			
Test Email Address	s Test Email Conf	iguration		
Test Email Address		iguration	20 101 2010	PHITEST (PTI7) - PO

#### o Default Outlook Account

Select the Outlook account that will be used to send emails. Emails sent will appear in the Sent box of this Outlook account.

#### **SMTP Server**

When selected, emails will be sent using the provided SMTP parameters. *Note: Email sent will not appear in the SMTP's account sent box.* 

🌸 phiReport Configuration and Preferences —	
File Edit Tools Help	
Account Setup User Access Control REST Data Services Access Control Report Configuration Preferences Email Configur	Activation ation
Email Server Type O Outlook Client   SMTP Server O Microsoft Exchar	nge
SMTP Type O Local SMTP   Networked SMTP	
SMTP Server Name / IP	
SMTP Port 25	
SMTP Timeout 30	
Requires SSL	
Authentication Type O Anonymous      Basic O NTLM	
SMTP User Name	
SMTP Password	
System Wide User 🗌 Check this option if all users use the same Email login.	
Test Email Address	
Test Email Configuration	
phiReport 3.1.8 Pro (D3) 30 Jul 2019 - pt PHITE	ST (PTI7) - Port 3

#### • Local or Networked SMTP

Set to local SMTP if you are hosting your own SMTP server. Set to Networked SMTP if you use any external SMTP servers.

• **SMTP Server Name, Port, SSL, Authentication Type, User, and Password** Enter the SMTP settings for the email server used.

#### o System Wide User

While most users have individual email accounts for retrieving email, many users can use a single account to send e-mail. Other examples of this would be accounts for Sales@ or Support@. This option is only available with external SMTP servers.

#### Microsoft Exchange

When selected, emails will be sent using the provided Exchange server and credentials

phiReport Configuration and Pr File Edit Tools Help	references			– 🗆 X
C . Dis nep	è 🚽			
Account Setup	User Access Con		ST Data Services	Activation
Report Configuration		Preferences	Ema	il Configuration
Email Server Type O Exchange	Outlook Client	⊖ SMTP Serve	er <ul> <li>Microset</li> </ul>	oft Exchange
Exchange WebService E	EndPoint			
Exchange Us	er Name			
Exchange P	assword			
Exchange	Domain			
Exchange	Version			
	Test Ex	change Configura	tion	1
System W	ide User 🗌 Chec	k this option if all (	users use the same	e Email login.
Test Email Address				
	Test Email Config	guration		
phiReport 3.1.8 Pro (D3)			30 Jul 2019	- pt PHITEST (PTI7) - Port 3

• Exchange WebService EndPoint

phiReport uses the Microsoft Exchange WebService (EWS) API to connect to your Exchange server. This feature is only available if EWS is enabled on your Exchange server.

 Exchange Credentials (User Name, Password and optional Domain Enter your Microsoft Exchange credentials

#### o System Wide User

While most users have individual email accounts for retrieving email, many users can use a single account to send e-mail. Other examples of this would be accounts for Sales@ or Support@.

#### **Test Email Address**

To test the email settings, enter an email address in this textbox and click on "Test Email Configuration". A test email is sent to the provided email address within a few seconds. If no email is received, check your spam box and/or email settings.

Created with the Standard Edition of HelpNDoc: Easy CHM and documentation editor

## phiReport Data View Manager

Available with Edition: PRO and CLOUD

The Data View Manager is where Data Views are created and managed. A Data View is a virtual view of

your Data File structure. Queries use these Data Views as field reference to your Data Files. Your application dictionary items are not affected by these Data Views. You can create as many Data Views as needed against a Data File.

🤨 phiReport Data View Manager		– 🗆 X
File Edit Tools Help		
🕞 📈 🗡 💷 🗇 🚳		
Data View Account DEMO_DB Data Account DEMO_DB Data File	Column Editor         Field ID         Field Name         Type         A         Altribute         Header         Conversion         Correlative         Data Type         Alpha         Column Width         10         Field Type         Ise as Display Field         Use as Display Field         Use as Criteria Field         Hidden Column         Wrap Column	Merged Header Enable Merged Header Text Eant Color Text Cell Data Cell Style Bold Superscript Halic Subscript Justification Ceft Right Center Header Font Color Text Cell Header Cell Style Bold Superscript Header Color Text Cell Header Cell Style Bold Superscript Justification Ceft Right Center Data Eont Color Text Cell Guberscript Style Bold Superscript Justification Ceft Right Center Data Eont Color Text Cell Beld Superscript Style Bold Superscript Style Bold Superscript Justification Ceft Right Center Data Eont Color Text Cell Data Cell Style Bold Superscript Justification Ceft Right Center Data Eont Color Text Cell Beld Superscript Justification Ceft Right Center Data Eont Color Text Cell Bold Conter Data Cell Superscript Justification Ceft Right Center Data Cell Superscript Justification Center Right Center Right Center
phReport 3.1.0 Pro (D3)	Set as End of Freeze Pane Page Break-On	04 Feb 2019 - pt demo_db (PTI7) - Port 2

In this chapter:

- 1. Create Data Views
- 2. Report Fields
- 3. Sheet Control

Created with the Standard Edition of HelpNDoc: Easy CHM and documentation editor

## **Data Views**

- 1. Select a Data File from the dropdown list. A list of dictionary items is displayed in the "Data File's Dict Items" list.
- 2. Select 1 or more dictionary item from the list and click on the button to add them to the "Data

View's Columns" or click on by to add all dictionary items. Dictionary items added to the "Data View's Columns" are removed from the "Data File's Dict Items" list. You can move them back by

selecting them on the "Data View's Columns" list and clicking on  $\boxed{10}$  or

NOTE: Dictionary items moved from the "Data File's Dict Items" list are NOT deleted from the actual Dict file, they are only removed from the display to avoid adding the same item multiple times.

NOTE: When dictionary items are moved to the "Data View's Columns", phiReport uses the dictionary content to "guess" it's data type. Other parameters such as Field Name and Column Width are extracted directly from the dictionay item.

Data View Accou	nt DEMO_DB	~	(Ac	count name where	e to store the Views)	
Data Accou	nt DEMO_DB	~	*			
Data F	le SALESORDER	~	C	Show all file ty	ypes from Data Accou	int.
Data Vie	w	~	C		List View O Grid Vi	ew 🔿 Tree View
	Data File's Dict Item	s			Data View's Columns	
Field ID	Field Name	Att		Field ID	Field Name	Att
	Buy Line Cost	0			Buy Unit Cost	7
BUYTOTALCOST		0	$\triangleright$	CUSTOMER	Customer	1
	Delivery Type	10	1 PV	CUSTOMERNAN		1
NUMBER	Order Number	0		DATEPLACED	Date Placed	2
	Product	4		DELIVERED	Delivered	9
PRODUCTDESC		4	$\triangleleft$	DELIVERYDATE		11
QTY	Qty	6	$\triangleleft$	DELIVERYDESC		10
SALESLINEPRICE		0	NU		Delivery Qty	12
SALESTOTALPRI		0		SALESUNITPRIC	Sales Unit Price	8
SUPPLIER	Supplier	5				
SUPPLIERNAME		5				
	Time Placed	13 3				
	Urgent Item ID	0				
_ITEM.ID_	item iD	J				
<		>	45	<		>
		>				>

Data View Account

This is the account where to store the Data Views.

Data Account

This is the account where Data Files are listed from. Data Files can be local files or remote files via Q-Pointers. By default only local files are displayed. To display remote Q files, check the "Show all file types from Data Account" checkbox.

• Data File

The Data File to extract dictionary items from.

NOTE: By default, only D or F type files are displayed in the Data File list. Check "Show all file types from Data Account" to add Q type files to the list

NOTE: You can create a custom list of files by creating a "Saved List" of files where the list name is XLDataFiles\_{AccountName}. If a GET-LIST XLDataFiles\_{AccountName} returns an active list, it will be used to produce the list of files.

Data View

The name of the Data View.

Data View's Columns can be viewed in three different ways; list, grid or tree.

1. The list is a quick way to look at what's been added to the list. It can be used to quickly remove items

from the list by clicking and dragging the mouse.

- 2. The grid view provides a more complete view of the data columns and its parameters. It also allows you to make cerchanges without going to the column editor.
- 3. The tree view provides a comprehensive way to look at multi-values structures where nested mvulti-valued fields are showned as nested tree branches.

You can switch between the three view using the select buttons above the list.

● List View ○ Grid View ○ Tree View

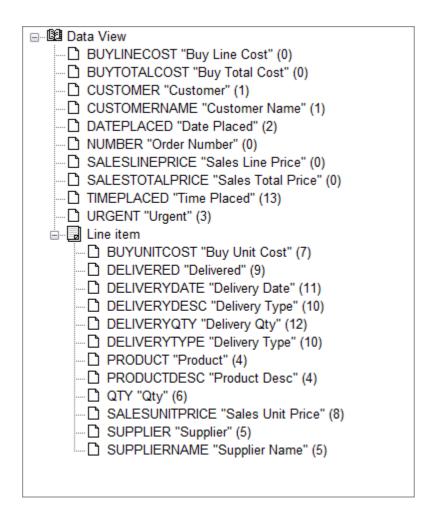
List view:

BUYLINECOSTBuy Line Cost0NumericYYNNBUYTOTALCOSTBuy Total Cost0NumericLine itemYYNNBUYUNITCOSTBuy Unit Cost7NumericLine itemYYNNCUSTOMERCustomer1AlphaYYNNCUSTOMERNAMCustomer Name1AlphaYYNNDATEPLACEDDate Placed2DateYYNNDELIVEREDDelivered9AlphaLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Qty12NumericLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESTOTALPR Sales Total Price0AlphaLine itemYYNNSUPPLIER NAME	Field ID	Field Name	Att	Data Type	MV Group	Display	Criteria	Hidden	Wrap
BUYUNITCOST CUSTOMERBuy Unit Cost7Numeric AlphaLine itemYYNNCUSTOMER CUSTOMERNAMCustomer Name1AlphaYYNNDATEPLACED DELIVEREDDate Placed2DateYYNNDELIVERED DELIVERYDATEDelivered9AlphaLine itemYYNNDELIVERYDATE DELIVERYDESC Delivery Date11DateLine itemYYNNDELIVERYDATE DELIVERYDYDE DELIVERYQTYPE10AlphaLine itemYYNNDELIVERYQTYPE DElivery Qty12NumericLine itemYYNNDELIVERYTYPE DElivery Type10AlphaLine itemYYNNDELIVERYTYPE DElivery Type10AlphaLine itemYYNNNUMBER Order Number0AlphaLine itemYYNNPRODUCT ProductProduct4AlphaLine itemYYNNQTY QtyQty6NumericLine itemYYNNSALESUNITPRIC Sales Intel Price0AlphaLine itemYYNNSUPPLIER SUPPLIER SUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAME SUPPLIERNAMESAlphaLine itemYYNN			0	Numeric		Y	Y	N	N
CUSTOMERCustomer1AlphaYYNNCUSTOMERCustomer1AlphaYYNNDATEPLACEDDate Placed2DateYYNNDELIVEREDDelivered9AlphaLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDESCDelivery Type10AlphaLine itemYYNNDELIVERYDESCDelivery Qty12NumericLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESUNITPRIC Sales Line Price0AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERSu	BUYTOTALCO	STBuy Total Cost	0	Numeric		Y		N	N
CUSTOMERNAM Customer Name1AlphaYYNDATEPLACEDDate Placed2DateYYNNDELIVEREDDelivered9AlphaLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Type10AlphaLine itemYYNNDELIVERYQTYDelivery Type10AlphaLine itemYYNNDELIVERYDTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYDTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESUNITPRIC Sales Line Price0AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNTIME	BUYUNITCOST	Buy Unit Cost	7	Numeric	Line item	Y	Y	N	N
DATEPLACEDDate Placed2DateDATEPLACEDDate Placed2DateYYNDELIVEREDDelivered9AlphaLine itemYYNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Type10AlphaLine itemYYNNDELIVERYDTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESUNEPRIC Sales Line Price0AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERSupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	CUSTOMER	Customer	1	Alpha		Y	Y	N	N
DELIVEREDDelivered9AlphaLine itemYYNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDATEDelivery Date11DateLine itemYYNNDELIVERYDESCDelivery Type10AlphaLine itemYYNNDELIVERYDPSCDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNPRODUCTDESCProduct Desc4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESUNEPRIC Sales Line Price0AlphaLine itemYYNNSALESUNITPRIC Sales Unit Price8NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAMESupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYY	<b>CUSTOMERNA</b>	MCustomer Name	1	Alpha		Y	Y	N	N
DELIVERYDATE DELIVERYDESC DELIVERYDESC DELIVERYQTY DELIVERYQTY Delivery Qty11Date AlphaLine itemYYNNDELIVERYQTY DELIVERYQTY DELIVERYTYPE DELIVERYTYPE DELIVERYTYPE DELIVERYTYPE Delivery Type10AlphaLine itemYYNNDELIVERYTYPE DELIVERYTYPE Delivery Type10AlphaLine itemYYNNDELIVERYTYPE Delivery Type10AlphaLine itemYYNNNUMBER PRODUCT Product QTYOrder Number Product Desc0AlphaLine itemYYNNPRODUCT QTY Qty6Numeric 0AlphaLine itemYYNNQTY QtyQty6Numeric 0AlphaLine itemYYNNSALESUNITPRIC Sales Total Price Supplier0Alpha 0Line itemYYNNSUPPLIER SUPPLIER SUPPLIER SUPPLIERNAME Supplier Name5Alpha 0Line itemYYNNTIMEPLACED Time Placed13NumericYYNN	DATEPLACED	Date Placed	2	Date		Y	Y	N	N
DELIVERYDESC Delivery Type10AlphaLine itemYYNDELIVERYQTYDelivery Qty12NumericLine itemYYNNDELIVERYTYPEDelivery Qty12NumericLine itemYYNNDELIVERYTYPEDelivery Type10AlphaLine itemYYNNNUMBEROrder Number0AlphaLine itemYYNNPRODUCTProduct4AlphaLine itemYYNNPRODUCTDESCProduct Desc4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESUNEPRIC Sales Line Price0AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	DELIVERED	Delivered	9	Alpha	Line item	Y	Y	N	N
DELIVERYQTY DELIVERYTYPE DELIVERYTYPE DELIVERYTYPE Delivery Type12Numeric AlphaLine itemYYNNNUMBER NUMBER Order NumberOrder Number0AlphaLine itemYYNNNUMBER PRODUCT ProductOrder Number0AlphaLine itemYYNNPRODUCT Product QTY QTY QtyC4AlphaLine itemYYNNPRODUCTDESC Product Desc4AlphaLine itemYYNNQTY QtyQty6Numeric OLine itemYYNNSALESUNEPRIC Sales Unit Price0AlphaLine itemYYNNSUPPLIER SUPPLIER SUPPLIER NENDER5AlphaLine itemYYNNSUPPLIERNAME SUPPLIERNAME Supplier Name5AlphaLine itemYYNNTIMEPLACED Time Placed13NumericYYNN	DELIVERYDAT	E Delivery Date	11	Date	Line item	Y	Y	N	N
DELIVERYQTY DELIVERYTYPEDelivery Qty12Numeric AlphaLine itemYYNNDELIVERYTYPE Delivery Type10AlphaLine itemYYNNNUMBER PRODUCTOrder Number0AlphaLine itemYYNNPRODUCT QTY QTYProduct Desc4AlphaLine itemYYNNPRODUCTDESC Product Desc4AlphaLine itemYYNNQTY QTY Qty6Numeric OLine itemYYNNSALESLINEPRIC Sales Unit Price0AlphaLine itemYYNNSALESUNITPRIC Supplier5AlphaLine itemYYNNSUPPLIER SUPPLIERNAME Supplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	DELIVERYDES	SC Delivery Type	10	Alpha	Line item	Y	Y	N	N
NUMBEROrder Number0AlphaYYNPRODUCTProduct4AlphaLine itemYYNNPRODUCTDESCProduct Desc4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESLINEPRICSales Line Price0AlphaYYNNSALESUNITPRICSales Unit Price0NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN			12	Numeric	Line item	Y	Y	N	N
NUMBEROrder Number0AlphaYYNNPRODUCTProduct4AlphaLine itemYYNNPRODUCTDESCProduct Desc4AlphaLine itemYYNNQTYQty6NumericLine itemYYNNSALESLINEPRIC Sales Line Price0AlphaYYNNSALESTOTALPR Sales Total Price0NumericLine itemYYNNSALESUNITPRIC Sales Unit Price8NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAMESupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	DELIVERYTYF	E Delivery Type	10	Alpha	Line item	Y	Y	N	N
PRODUCTDESCProduct Desc4AlphaLine itemYYNQTYQty6NumericLine itemYYNNSALESLINEPRIC Sales Line Price0AlphaYYNNSALESTOTALPR Sales Total Price0NumericYYNNSALESUNITPRIC Sales Unit Price8NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAMESupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN			0	Alpha		Y	Y	N	N
QTYQty6NumericLine itemYYNNSALESLINEPRIC Sales Line Price0AlphaYYNNSALESTOTALPR Sales Total Price0NumericYYNNSALESUNITPRIC Sales Unit Price8NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAMESupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	PRODUCT	Product	4	Alpha	Line item	Y	Y	N	N
SALESLINEPRIC SALESTOTALPR SALESTOTALPR SALESTOTALPR Sales Total Price0AlphaYYNNSALESTOTALPR SALESUNITPRIC SUPPLIERSupplier0NumericLine itemYYNNSUPPLIER SUPPLIERNAME SUPPLIERNAME SUPPLIERNAME SUPPLIERNAME TIMEPLACED5AlphaLine itemYYNNSUPPLIERNAME SUPPLIERNAME TIMEPLACED5AlphaLine itemYYNN	PRODUCTDES	C Product Desc	4	Alpha	Line item	Y	Y	N	N
SALESTOTALPR Sales Total Price0NumericYYNNSALESUNITPRIC Sales Unit Price8NumericLine itemYYNNSUPPLIERSupplier5AlphaLine itemYYNNSUPPLIERNAMESupplier Name5AlphaLine itemYYNNTIMEPLACEDTime Placed13NumericYYNN	QTY	Qty	6	Numeric	Line item	Y	Y	N	N
SALESUNITPRICSales Unit Price     8     Numeric     Line item     Y     Y     N       SUPPLIER     Supplier     5     Alpha     Line item     Y     Y     N     N       SUPPLIERNAME     Supplier Name     5     Alpha     Line item     Y     Y     N     N       SUPPLIERNAME     Supplier Name     5     Alpha     Line item     Y     Y     N     N       TIMEPLACED     Time Placed     13     Numeric     Y     Y     N     N	SALESLINEPF	ICSales Line Price	0	Alpha		Y	Y	N	N
SUPPLIER         Supplier         5         Alpha         Line item         Y         Y         N           SUPPLIERNAME         Supplier Name         5         Alpha         Line item         Y         Y         N         N           SUPPLIERNAME         Supplier Name         5         Alpha         Line item         Y         Y         N         N           TIMEPLACED         Time Placed         13         Numeric         Y         Y         N         N	SALESTOTAL	RSales Total Price	0	Numeric		Y	Y	N	N
SUPPLIERNAME         Supplier Name         5         Alpha         Line item         Y         Y         N         N           TIMEPLACED         Time Placed         13         Numeric         Y         Y         N         N	SALESUNITPR	ICSales Unit Price	8	Numeric	Line item	Y	Y	N	N
TIMEPLACED Time Placed 13 Numeric Y Y N N	SUPPLIER	Supplier	5	Alpha	Line item	Y	Y	N	N
TIMEPLACED Time Placed 13 Numeric Y Y N N	SUPPLIERNAM	/ESupplier Name	5	Alpha	Line item	Y	Y	N	N
URGENT Urgent 3 Alpha Y Y N N			13	Numeric		Y	Y	N	N
		Lissant	3	Alpha		Y	Y	N	N

#### Grid view:

#	Sel	Field Id	Header Name	Att	Data Type	Header Just	Data Just	Display	Criteria	Hidden	Wrap	MV Group	Form. Con	. CD	CDD	RD	RF	FP	PB
1		BUYLINECOST	Buy Line Cost	0	Numeric	Center	Right		$\checkmark$										
2		BUYTOTALCOST	Buy Total Cost	0	Numeric	Center	Right												
3		BUYUNITCOST	Buy Unit Cost	7	Numeric	Center	Right		$\checkmark$			Line item							
4		CUSTOMER	Customer	1	Alpha	Center	Right												
5		CUSTOMERNAME	Customer Name	1	Alpha	Center	Left		$\checkmark$										
6		DATEPLACED	Date Placed	2	Date	Center	Left		$\checkmark$										
7		DELIVERED	Delivered	9	Alpha	Center	Left		$\checkmark$			Line item							
8		DELIVERYDATE	Delivery Date	11	Date	Center	Right					Line item							
9		DELIVERYDESC	Delivery Type	10	Alpha	Center	Left		$\checkmark$			Line item							
10		DELIVERYQTY	Delivery Qty	12	Numeric	Center	Right					Line item							
11		DELIVERYTYPE	Delivery Type	10	Alpha	Center	Right		$\checkmark$			Line item							
12		NUMBER	Order Number	0	Alpha	Center	Right		$\checkmark$										
13		PRODUCT	Product	4	Alpha	Center	Left		$\checkmark$			Line item							
14		PRODUCTDESC	Product Desc	4	Alpha	Center	Left					Line item							
15		QTY	Qty	6	Numeric	Center	Right		$\checkmark$			Line item							
16		SALESLINEPRICE		0	Alpha	Center	Left		$\checkmark$										
17		SALESTOTALPRICI	Sales Total Price	0	Numeric	Center	Right		$\checkmark$										
18		SALESUNITPRICE	Sales Unit Price	8	Numeric	Center	Right					Line item							
19		SUPPLIER	Supplier	5	Alpha	Center	Left		$\checkmark$			Line item							
20		SUPPLIERNAME	Supplier Name	5	Alpha	Center	Left		$\checkmark$			Line item							
21		TIMEPLACED	Time Placed	13	Numeric	Center	Right		$\checkmark$										
22		URGENT	Urgent	3	Alpha	Center	Left		$\checkmark$										

Tree view:



Created with the Standard Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

## **Column Editor**

The Column Editor allows you to customize the output of your data on the Excel sheet. Use this editor to set the data type, column width, certain data display rules, Excel formula and many other features described below.

	Column Editor					
Field ID	SUPPLIER					
Field Name	Supplier					
Туре	A V Attribute 5					
Header	Supplier					
Conversion						
Correlative						
Data Type	Alpha 💛 Column Width 10					
Field Type 🔘 Single Value 🖲 Multi-Value 🛛 🛒						
MV Group	Line item 🗸					
<ul> <li>✓ Use as Display Field</li> <li>✓ Use as Criteria Field</li> <li>✓ Hidden Column</li> <li>✓ Wrap Column</li> </ul>						

Basic settings

Bable cetalige	
Field	Description
Field ID	The item ID of the field
Field Name	Field name copy from the dictionary item
Туре	Dictionary type
Attribute	Attribute number of the data
Header	Text used as Excel header. This defaults to the Field Name
Conversion	Standard Pick conversion. Use any valid conversion code.
Correlative	Standard Pick correlative. Use any valid correlative.
Data Type	By default the data type is "assumed" based on the content of the dictionary iter be a Date. Change the data type as required. Valid data types are: Alpha, Date " <u>Data Type</u> " section for more detail.
Column Width	The width of the column. By default this value is copied from the dictionary item
Field Type	Single Value or Multi-Value. This flag instructs the query engine if a BY-EXP is
MV Group	This field allows you to create Multi-Value grouping for controlling-dependent stu
Use as Display Field	Set as Display field.
Use as Criteria Fields	Set as Criteria field.
Hidden Column	Set as hidden column.
Wrap Column	If the length of the data is longer than the cell width, the data will be wrapped. It

Sheet Control						
Formula =	0					
Add Comments						
Clear Data						
🗌 Clear Dup. Data						
Repeat Detail						
Repeat Formula						
Set as End of Freeze Pane						
Page Break-On	~					

Sheet Control allows you to control how certain data is displayed (or hidden) on the Excel sheet. See <u>Sheet Controls</u> for more detail.

Created with the Standard Edition of HelpNDoc: Easy CHM and documentation editor

## **Data Types**

<u>Alpha</u>

optional settings for Alpha:

Padding	None	O Left	OF	light
Pad Length		Charac	ter	

Padding allows you to add characters before or after the alpha string.

Padding (	○ None	● Left O F	Right	
Pad Length	10	Character	x	

If the alpha string returned is "ABC", the above settings would display "xxxxxxABC"; Pad left 10 characters with 'x'.

<u>Date</u>

Sets the Excel cells data type to "Custom" type "m/d/yyyy"

Formula

Sets the Excel cells data type to "Text". This is usefull if the data returned starts with a "=" equal sign. Equal signs are considered formula in Excel, using the format data type ignores the "=" and displays the full data as intended.

<u>General</u>

Sets the Excel cells data type to "General".

<u>Image</u>

This data type requires the images be accessible from the workstation generating the report. The data sent to these cells is the full path and file name to the image.

optional settings for Image:

Fit Cell (Stretch image to fit cell) Row Height

Fit Cell: This option resizes the image to fit the cell.

Row Height: Set the height of the row containing the image.

#### Numeric

Data with MR2 conversion is automatically detected as Numeric. The number of decimal places is defined by the database and the sent to Excel as instructed.

optional	settings	for	Numeric:
optional	Journage	101	Numberio.

Display Decimal Places	
------------------------	--

This option overwrites the number of decimals set by the database for display only. If the data returned is 1.23 and the "Display Decimal Places" is set to 1, the data displayed on the sheet is "1.2" but the actual data stored on the sheet is still 1.23.

Percentage

Sets the Excel cells data type to "Percentage" applying the automatic conversion and the "%" sign.

Format Cells							?	×
Number	lignment	Font	Border	Fill	Protection			
Number A Category: General Number Currency Accounting Date Time Percentage Fraction Scientific Text Special Custom	^	Font Sample 19431 Decimal			Protection			
Percentage f	ormats mul	tiply the co	ell value by	100 and d	isplays the re	sult with a p	ercent syn	nbol.
					l	ОК	Ca	incel

Zip Code, Zip Code+4, Phone and SSN

These data types are set in Excel as "Special" types.

ormat Cell	s						?	×
Number	Alignment	Font	Border	Fill	Protection			
<u>Category:</u> General Number Currency Accountine Date Time Percentage Fraction Scientific Text <u>Special</u> Custom		Sample 19917 Type: Zip Cod Zip Cod Phone I Social S	e e + 4	nber				
		Locale (le						>
Special for	mats are usef	ul for tracl	king list an	d databas	e values.			
						OK	Ca	ncel

Created with the Standard Edition of HelpNDoc: Produce Kindle eBooks easily

## **Multi-Value Data**

Field Type	● Single Value ○ Multi-Value	Ĩ
MV Group		$\sim$

Select the Multi-Vlue option ilf a field is multi-valued. This will ensure that the query engine will generate the correct extraction statement against that data. If more than 1 field is multi-valued in a controlling-dependent structure, make sure they are all set as multi-valued and that they all have the same "MV Group" name. MV Groups are groups of multi-valued data in a controlling-dependent structure. To create a new group just enter a name in the MV Group field. This automatically creates a new group. To add fields to the group just select the field from the Data View's Column list and select the MV Group name from the dropdown list. An MV Group with a single field is equivalent to a "stand-alone" multi-value field.

If you are unsure a field is multi-valued, you can click on the	button which will scan a sample of your
data and determine if there are multi-valued data in the select	ted sample of 50,000 items. Note that this
method relies on the selected sample and therefore does not	garantee 100% accuracy.

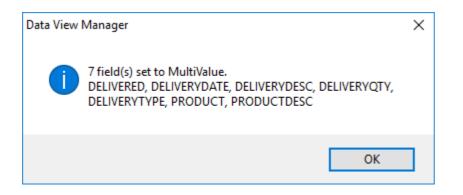
Data View I	Manager	×				
Multi-Value data found in the data sample.						
	ОК		or			
Data View	Manager	×				
No Multi-Value data found in data sample.						
	ОК					

To detect multiple fields, select the desired fields from the Data View's Column list and right click to display the context menu. Select "Detect MultiValue Data" to start the detection. Again, this method scans a sample of 50,000 items and may not be 100% accurate.

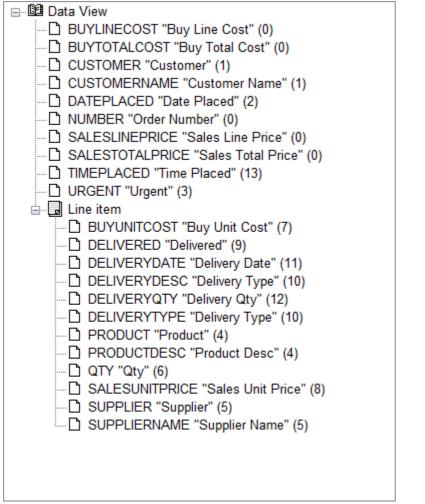
The advantage of using the method vs the single field method described above is in the case we only scan the 50,000 items once for all selected fields and fields that are detected as Multi-Valued are automatically marked as "Multi-Value". MV Group is however not automated.

BUYTOTALCOSTBuy		0 0	Numeric Numeric
	/ Unit Cost	7	Numeric
CUSTOMER Cus	stomer	1	Alpha
CUSTOMERNAM Cus	stomer Name	1	Alpha
DATE DATE Date	o Diacod	2	Date
	ultiValue Data	9	Alpha
DELIVERYDATE Del	ivery Date	11	Date
DELIVERYDESC Del	ivery Type	10	Alpha
DELIVERYQTY Del	ivery Qty	12	Numeric
DELIVERYTYPE Del	ivery Type	10	Alpha
NUMBER Ord	ler Number	0	Alpha
PRODUCT Pro	duct	4	Alpha
PRODUCTDESC Pro	duct Desc	4	Alpha
QTY Qty	1	6	Numeric
SALESLINEPRICSal	es Line Price	0	Alpha
SALESTOTALPRSal	es Total Price	0	Numeric
SALESUNITPRICSal	es Unit Price	8	Numeric
SUPPLIER Sup	oplier	5	Alpha
SUPPLIERNAMESup		5	Alpha
	e Placed	13	Numeric
URGENT Urg		3	Alpha
onozini polg			h also a

>



Switch to "Tree View" to see the Multi-Value structure of your Data View.



This Data View shows an MV Group called "Line item" with several fields belonging to that group.

Created with the Standard Edition of HelpNDoc: Easily create EBooks

## **Excel Sheet Data Format**

This section allows you to control how headers and data are displayed on the Excel sheet. Three group of settings are customizable.

В	С	D	E	F	G	Н	1	J
	This is the Merged Head	der 🗕 🗕	Merged	Header				
Org ID	Name	Org. Type	Zip Code	-	Header Ro	w		
104	Footwear Management Dealers Corp.	Customer	18693					
105	Zinc Concept Retailers Corp.	Customer	19917					
106	Painting Leasing Dealers Inc.	Customer	19459		Data Da			
107	Milking Cooperative Solutions Corp.	Customer	7581		Data Roy	NS		
108	Conservatory Logistics Outlet Inc.	Customer	15257					
109	Concrete Helpline Wholesalers Corp.	Customer	10093					
		- ·	0.454					

Merged Header Row is the row displayed above the Header row. Use Merged Header row to group mulitple rows under a single main header. Regular row headers are not affected by this setting.

- Mer	ged He	ader –			_			
⊡ E	nable	Merged	Heade	r	Columns	2		
	Text	This is	s the M	erged Hea	der			
	Font				~ 16	$\sim$		
	Color	Text	Cell	Da	ata Cell			
	Style	✓ Bolo ✓ Italio		Super	ript			
		Und Und	erline	Strike	through			
Border Dop Left				Bottom				
Ju	ustificat	tion 🔘	Left	○ Right	Center	r		

"This is the Merger Header" spans 2 columns from column C to column D to create a merged cell as shown below.

### Header Row

Header				
Font			$\sim$	$\sim$
Color	Text	Cell	Header Cell	
Style	✓ Bole Itali Und	d c lerline	Superscript Subscript Strikethrough	
Border	Left		Bottom Right	
Justificatio	n Ol	Left (	🔾 Right 💿 Center	

The header row displays the data set in the Header field of the Column Editor.

Data Rows

Data					
Font				$\sim$	$\sim$
Color	Text	Cell	Da	ata Cell	
Style	Bolo Itali	d c lerline	Supers	ript	
Border	🗌 Top 🗌 Left		Botton	n	
Justificat	ion 🖲	) Left	○ Right	○ Cente	r

The Data Rows are rows of data returned by the query.

Created with the Standard Edition of HelpNDoc: Free Web Help generator

## **Sheet Controls**

Sheet Control allows you to control how certain data is displayed (or hidden) on the Excel sheet.

Sheet Control	
Formula =	$\sim$
Add Comments	
Clear Data	
Clear Dup. Data	
Repeat Detail	
Repeat Formula	
Set as End of Fre	eze Pane
Page Break-On	$\sim$

Created with the Standard Edition of HelpNDoc: Produce Kindle eBooks easily

## Formula

### **Formula**

Enter any supported Excel formula or function in the textbox. Though Excel formulas start with an "=" equal sign, you do not need to add one in the provided textbox, it will be added automatically if not present.

A simple Excel formula would look something like "=F10\*G10" where F and G are column positions and 10 the row number. Since we do not know the column position until the data is imported to Excel, we would write that formula by using Dictionoary names instead.

={QTY}\*{SALESUNITPRICE} where QTY and SalesUnitPrice are columns defined in the Data View Manager. The curly braces '{' and '}' indicate a dictionary name and the report engine will find it's Excel column equivalent at runtime.

-		
🕫 phiReport Data View Manager		- 🗆 X
File Edit Tools Help		
🚽 🛛 🗙 🔟 🧊 🚳 🚽		
Data View Account DEMO_DB		Merged Header Columns
Data Account DEMO_DB	Field ID TotalWithFormula	Text
Data File SALESORDER	C Show all file types from Data Account. Field Name Total with Formula	Font
Data View Order_View	C List View  Grid View  Tree View Type  S  Attribute  0	Color Text Cell Data Cell
Data File's Dict Items	Data View's Columns 🗳 Header Total with Formula	Style Bold Superscript
Field ID Field Name Att	# Sel Field Id Header Name  Conversion	Italic Subscript
_ITEM.ID_ Item ID 0	1 DUYLINECOST Buy Line Cost Correlative	Underline Strikethrough
	2 Data Type Numeric V Column Width 16	Border Top Bottom Left Right
	3 BUYUNITCOST Buy Unit Cost	Justification   Left   Right   Center
	4 CUSTOMER Id Field Type  Single Value Multi-Value	Header
	5 CUSTOMERNAME Name MV Group	Font
	Image: bold balance	
	B DELIVERYDATE Deliver Deta	
	9 DELIVERYDESC Delivery Type Wrap Column	Style Bold Superscript
	10 DELIVERYQTY Delivery Qty	Underline Strikethrough
	11 DELIVERYTYPE Delivery Type Display Decimal Places 4	Border Top Bottom
	12 UNMBER Order Number	Justification O Left O Right  Center
	13 PRODUCT Product 14 PRODUCTDESC Product Desc Sheet Control	Data
	14         PRODUCTDESC         Product Desc         Sheet Control           15         QTY         Qty         Formula = {QTY}*(SALESUNITPRICE)	Font V
	17 Add Comments	
	18 SALESUNITPRICE Sales Unit Price	Style Bold Superscript
	19 SUPPLIER Supplier Clear Dup. Data	Underline Strikethrough
	20 SUPPLIERNAME Supplier Name Repeat Detail	Border Top Bottom
	21 IMEPLACED Time Placed	Justification O Left   Right O Center
	22     TotalWithFormula     Total with Formula       23     URGENT     Urgent	
< > <>	A Page Break-On	
phiReport 3.0.0		18 Jan 2018 - PT demo_db (PTI7) - Port 7

Column QTY and SALESUNITPRICE are automatically converted to H2 and I2 respectively and the formula =I2\*H2 is added to column K.

SL	JM			• :	×	✓ f <sub>×</sub>	=I2*H2					Ý
1	2	3		А		В	н	I.	J	К	L	
				Order		Customer	Sales Unit	Qty	Sales Line	Total with		٦L
			1	Number			Price		Price	Formula		
Γ	Г	•	2		125	46	47.20	6	283.20	=I2*H2		
		·	3		125	46	39.90	1	39.90	39.9		
		·	4		125	46	120.20	2	240.40	240.4		
		•	5		125	46	72.48	9	652.32	652.32		
	-		6	125 To	otal			18	1,215.82			
	Γ	·	7		505	149	29.28	1	29.28	29.28		
		•	8		505	149	5.84	6	35.04	35.04		
	•	•		Order	s by	Customer	+		: •			•

Any Excel formula and functions can be used, ex: AVERAGE, MAX, ABS...

The following example uses the **IF** function to convert data on the sheet. The data returned by the database in column URGENT is a number 0 or 1. To the report reader a 0 or 1 is not as meaningful as a Yes or No. To convert 0 and 1 to No and Yes we create a new field and assign it the Excel **IF** function.

😕 phiReport Data View Manager		– 🗆 ×					
File Edit Tools Help							
🚽 🛛 🗙 🔟 🧊 🚱 🚽							
Data View Account DEMO_DB	(Account name where to store the Views) Column Editor	Merged Header					
Data Account DEMO_DB	Field ID UrgentYesNo						
Data File SALESORDER	C Show all file types from Data Account. Field Name Urgent	Text					
Data View Order_View	C List View  Grid View  Tree View Type S  Attribute 0	Font V V					
Data File's Dict Items	Data View's Columns 😆 Header Urgent	Style Bold Superscript					
Field ID Field Name Att	# Sel Field Id Header Name A Conversion	Italic Subscript					
_ITEM.ID_ Item ID 0	3 BUYUNITCOST Buy Unit Cost Correlative	Underline Strikethrough					
	4 CUSTOMER Id Data Type Formula V Column Width 10	Border Top Bottom Left Right					
	5 CUSTOMERNAME Name	Justification  Left  Right  Center					
	6 DATEPLACED Date Placed Field Type  Single Value Multi-Value						
A A	7 DELIVERED Delivered MV Group	Header					
	8 DELIVERYDATE Delivery Date	Font					
	9 DELIVERTDESC Delivery Type	Color Text Cell Header Cell					
	10 DELIVERYQTY Delivery Qty Hidden Column	Style Bold Superscript					
		Italic Subscript					
	13 PRODUCT Product Padding None Cleft Right	Border D Top D Bottom					
	14 PRODUCTDESC Product Desc Pad Length Character	Left Right					
	15 QTY Qty	Justification O Left O Right   Center					
	16 SALESLINEPRICE Sales Line Price Sheet Control	Data					
	17 SALESTOTALPRICI Sales Total Price Formula = IF({URGENT}="0", "No", "Yes")	Font					
	18 SALESUNITPRICE Sales Unit Price	Color Text Cell Data Cell					
	19 SUPPLIER Supplier	Style Bold Superscript					
	20 SUPPLIERNAME Supplier Name Clear Data	Italic Subscript					
	21 I TIMEPLACED Time Placed Clear Dup. Data	Underline Strikethrough					
	22 D TotalWithFormula Total with Formu Repeat Detail	Border Top Bottom					
	23 URGENT Urgent Repeat Formula	Justification O Left O Right   Center					
	24 UrgentYesNo Urgent						
< >> <							
phiReport 3.0.0		18 Jan 2018 - PT demo_db (PTI7) - Port 7					

### The formula reads: IF({URGENT}="0","No","Yes")

1 2	3		Α	В	J	К	L		1 2 3		А	В	К	L	М
			Order	Customer	Sales Line	Total with	Urgent				Order	Customer	Total with	Urgent	Urgent
		1	Number		Price	Formula				1	Number		Formula		
		8	505	149	35.04	35.04	0			8	505	149	35.04	0	No
		9	505	149	26.63	26.63	0			9	505	149	26.63	0	No
		10	505	149	44.16	44.16	0			10	505	149	44.16	0	No
		11	505	149	1,038.42	1038.42	0			11	505	149	1038.42	0	No
-		12	505 Total		1,173.53	1173.53			-	12	505 Total		1173.53		
ΙΓ		13	240	34	113.45	113.45	0			13	240	34	113.45	0	No
		14	240	34	141.44	141.44	0			14	240	34	141.44	0	No
		15	240	34	163.96	163.96	0			15	240	34	163.96	0	No
		16	240	34	228.05	228.05	0			16	240	34	228.05	0	No
-		17	240 Total		646.90	646.9			-	17	240 Total		646.9		
Ī		18	127	112	684.45	684.45	1			18	127	112	684.45	1	Yes
		19	127	112	265.77	265.77	1			19	127	112	265.77	1	Yes
		20	127	112	142.20	142.2	1			20	127	112	142.2	1	Yes
		21	127	112	96.60	96.6	1			21	127	112	96.6	1	Yes
		22	127	112	560.25	560.25	1			22	127	112	560.25	1	Yes
	•	23	127	112	1,120.50	1120.5	1			22 23	127	112	1120.5	1	Yes
		24	127	112	352.14	352.14	1			24	127	112	352.14	1	Yes
		25	127	112	356.70	356.7	1			25	127	112	356.7	1	Yes
	•	26	127	112	129.16	129.16	1			26	127	112	129.16	1	Yes
-	]	27	127 Total		3,707.77	3707.77			-	27	127 Total		3707.77		
		28	158	58	333.54	333.54	0			28	158	58	333.54	0	No
	1	20	4F0 Total		111 FA	222 64		-			Orders In	C		_	
1	÷		Orders by	/ Customer	+	•	•				Orders by	/ Customer	÷ : •		•

The sheet on the right shows the original URGENT column and the new UrgentYesNo column. At this point the original URGENT colum is only required by the **IF** function and can be "hidden" from the user.

Check "Hidden Column" to hide the column from the user. The data is still exported to Excel because it is required by the **IF** function.

Column Editor										
Field ID	URGENT									
Field Name	UrgentFlag									
Туре	A 🗸 Attribute 3									
Header	Urgent									
Conversion										
Correlative										
Data Type	Alpha V Column Width 10									
Field Type	● Single Value ◯ Multi-Value									
MV Group	~									
	☑ Use as Display Field ☑ Use as Criteria Field ☑ Hidden Column									

Wrap Column

SUM

▼ : × ✓ f<sub>x</sub> =IF(M18="0","No","Yes")

1 2	3		А	В	Н	I.	J	К	L	N
			Order	Customer	Sales Unit	Qty	Sales Line	Total with	Urgent	
		1	Number		Price		Price	Formula		
		14	240	34	70.72	2	141.44	141.44	No	
		15	240	34	81.98	2	163.96	163.96	No	
	•	16	240	34	45.61	5	228.05	228.05	No	
-		17	240 Total			10	646.90	646.9		
Γ	•	18	127	112	76.05	9	684.45	684.45	=IF(M18="0'	
	•	19	127	112	29.53	9	265.77	265.77	Yes	
	•	20	127	112	15.80	9	142.20	142.2	Yes	
	•	21	127	112	96.60	1	96.60	96.6	Yes	
	•	22	127	112	62.25	9	560.25	560.25	Yes	
	•	23	127	112	124.50	9	1,120.50	1120.5	Yes	
	•	24	127	112	58.69	6	352.14	352.14	Yes	
	•	25	127	112	59.45	6	356.70	356.7	Yes	
		26	127	112	129 16	1	129 16	129.16	Vec	
-	- Þ-		Orders by	Customer	+			E 🔳		

Column M is used in the IF function but hidden from the user.

Order Number	Custome	r Customer Name	Date Placed Tir	me Placed Product	Product Desc	Sales Unit Price	Qty	Sales Line Price	Total with Formula	Urgent
	125	46 Baking Development Services Inc.	19 Jan 2017	16:48:24 CLC51	Coral Light-weight Connector	47.20	1	5 283.20	283.2	No
	125	46 Baking Development Services Inc.	19 Jan 2017	16:48:24 TFD156	Teal Fixed Drum	39.90		L 39.90	39.9	No
	125	46 Baking Development Services Inc.	19 Jan 2017	16:48:24 TRB213	Teal Regular Binding	120.20	:	2 240.40	240.4	No
	125	46 Baking Development Services Inc.	19 Jan 2017	16:48:24 YVB247	Yellow Vitreous Brace	72.48		9 652.32	652.32	No
125 T	otal						18	3 1,215.82	1215.82	
	505	149 Boating Logistics Agency Corp.	18 Jan 2017	13:41:15 CAC140	Crimson Amalgamated Cylinder	29.28		L 29.28	29.28	No
	505	149 Boating Logistics Agency Corp.	18 Jan 2017	13:41:15 MRS242	Mauve Rigid Socket	5.84	. 1	5 35.04	35.04	No
	505	149 Boating Logistics Agency Corp.	18 Jan 2017	13:41:15 SPC271	Salmon Pressurized Conduit	26.63		L 26.63	26.63	No
	505	149 Boating Logistics Agency Corp.	18 Jan 2017	13:41:15 TMB231	Turquoise Medium Barrel	22.08	:	2 44.16	44.16	No
	505	149 Boating Logistics Agency Corp.	18 Jan 2017	13:41:15 WOC220	White Over-sized Crank	115.38	1	9 1,038.42	1038.42	No
505 T	otal						19	1,173.53	1173.53	
	240	34 Chimney Handling Services Inc.	24 Jan 2017	16:20:18 AAS198	Amber Adjustable Sleeve	113.45		l 113.45	113.45	No
	240	34 Chimney Handling Services Inc.	24 Jan 2017	16:20:18 BSB141	Black Semi-rigid Barrel	70.72		2 141.44	141.44	No
	240	34 Chimney Handling Services Inc.	24 Jan 2017	16:20:18 CLB46	Crimson Large Barrel	81.98	:	2 163.96	163.96	No
	240	34 Chimney Handling Services Inc.	24 Jan 2017	16:20:18 SEC160	Silver Elastic Conduit	45.61	;	5 228.05	228.05	No
240 T	otal						10	) 646.90	646.9	
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 AMH229	Aqua Medium Hose	76.05	1	684.45	684.45	Yes
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 GAL136	Gold Adjustable Lining	29.53	1	9 265.77	265.77	Yes
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 MEM93	Mauve Elastic Mounting	15.80	1	9 142.20	142.2	Yes
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 MOF193	Maroon Over-sized Fixing	96.60	:	L 96.60	96.6	Yes
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 PPP239	Peach Pressurized Pump	62.25	1	9 560.25	560.25	Yes
	127	112 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32 SAS175	Salmon Adjustable Socket	124.50	1	9 1,120.50	1120.5	Yes

Created with the Standard Edition of HelpNDoc: Create help files for the Qt Help Framework

### **Add Comments**

### Add Comments

This option allows you to add comments to each row of a column. The comments must come from a column defined on the report. The comment column is automatically deleted from the sheet onces it's been rendered.

	] A	dd	Comm	ents	SUPP	LIERN	AME									
1	2 3		А	В	D	E	F	G		Н	1.1	J	K	L	М	Ν 🔺
			Order	Customer	Date	Time	Product	Product Desc		Sales Unit	Qty	Sales Line	Urgent			
		1	Number		Placed	Placed				Price		Price				
Γ		2	125	46	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector		47.20	6	283.20	0			
		3					TFD156	Teal Fixed Drum		39.90	Pian	- Handling	Specialists	Inc		
		4					TRB213	Teal Regular Binding		120.20	- 110m	240.40		inc.		
		5					YVB247	Yellow Vitreous Brace		72.48	9	652.32	0			
	-	6	125 Total								18	1,215.82				-
	Þ		Orders by	Customer	+				: [	4						Þ
			-		-											
				Create	ed with	the Sta	andard	Edition of HelpNDo	c: Easi	ly crea	te H	elp doo	ument	s		

### **Clear Data**

### Clear Data

Clear cell data based on repeated data.

The example below shows	3 groups of data with the save	data in columns A, B, C, D and E.

	A	B	C	D	E	F	G	н	1 I I	J
	Order	Customer	Customer Name	Date	Time	Product	Product Desc	Sales Unit	Qty	Sales Line
1	Number			Placed	Placed			Price		Price
2	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector	47.20	6	283.20
3	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	TFD156	Teal Fixed Drum	39.90	1	. 39.90
4	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	TRB213	Teal Regular Binding	120.20	2	240.40
5	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	YVB247	Yellow Vitreous Brace	72.48	9	652.32
6	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	CAC140	Crimson Amalgamated Cylinder	29.28	1	. 29.28
7	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	MRS242	Mauve Rigid Socket	5.84	6	35.04
8	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	SPC271	Salmon Pressurized Conduit	26.63	1	26.63
9	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	TMB231	Turquoise Medium Barrel	22.08	2	44.16
10	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	WOC220	White Over-sized Crank	115.38	9	1,038.42
11	240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	AAS198	Amber Adjustable Sleeve	113.45	1	. 113.45
12	240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	BSB141	Black Semi-rigid Barrel	70.72	2	141.44
13	240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	CLB46	Crimson Large Barrel	81.98	2	163.96
14	240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	SEC160	Silver Elastic Conduit	45.61	. 5	228.05
	< >	Orders by O	Customer (+)							•

### Check the "Clear Data" checkbox and enter the list of columns to clear data.

			Dedding (B) Nono (1) off (1) Pight
11	DELIVERYTYPE	Delivery Type	Padding  None  Right
12	NUMBER	Order Number	Pad Length Character
13	PRODUCT	Product	
14	PRODUCTDESC	Product Desc	Sheet Control
15	QTY	Qty	Formula =
16	SALESLINEPRICE	Sales Line Price	Add Comments
17	SALESTOTALPRICE	Sales Total Price	
18	SALESUNITPRICE	Sales Unit Price	Clear Data NUMBER,CUSTOMER,CUST

The "Clear Data" option removes the repeated data and creates groups by inserting an empty row between groups.

	A	В	C	D	E	F	G	Н	1 I -	J
	Order	Customer	Customer Name	Date	Time	Product	Product Desc	Sales Unit	Qty	Sales Line
	Number			Placed	Placed			Price		Price
	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector	47.20	6	283.20
						TFD156	Teal Fixed Drum	39.90	1	39.90
						TRB213	Teal Regular Binding	120.20	2	240.40
						YVB247	Yellow Vitreous Brace	72.48	9	652.32
	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	CAC140	Crimson Amalgamated Cylinder	29.28	1	29.28
1						MRS242	Mauve Rigid Socket	5.84	6	35.04
D						SPC271	Salmon Pressurized Conduit	26.63	1	26.63
1						TMB231	Turquoise Medium Barrel	22.08	2	44.16
2						WOC220	White Over-sized Crank	115.38	9	1,038.42
3										
1	240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	AAS198	Amber Adjustable Sleeve	113.45	1	113.45
5						BSB141	Black Semi-rigid Barrel	70.72	2	141.44
6						CLB46	Crimson Large Barrel	81.98	2	163.96
7						SEC160	Silver Elastic Conduit	45.61	5	228.05
8										
	4	Orders by O	Customer (+)		,		: •			
							· [1]			P

Created with the Standard Edition of HelpNDoc: Easily create PDF Help documents

### **Clear Duplicate Data**

### **Clear Duplication Data**

When data grouping (GROUP-BY/BREAK-ON) is used, this option allows you to turn on or off repeated data within the group.

1	2 3		Α	В	С	D	E	F	G	н	1	J
			Order	Customer	Customer Name	Date	Time	Product	Product Desc	Sales Unit	Qty	Sales Line
		1	Number			Placed	Placed			Price		Price
Γ	[ · ]	2	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector	47.20	6	283.20
		3	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	TFD156	Teal Fixed Drum	39.90	1	39.90
	•	4	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	TRB213	Teal Regular Binding	120.20	2	240.40
		5	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	YVB247	Yellow Vitreous Brace	72.48	9	652.32
	-	6	125 Total								18	1,215.82
	•		Orders by	Customer	( <del>+</del> )				E 4			Þ

### Check "Clear Dup. Data" and enter the list of field names to clear duplicates data.

11	DELIVERYTYPE	Delivery Type	Padding Vivine O Leit O Right
12	NUMBER	Order Number	Pad Length Character
13	PRODUCT	Product	
14	PRODUCTDESC	Product Desc	Sheet Control
15	QTY	Qty	Formula =
16	SALESLINEPRICE	Sales Line Price	Add Comments
17	SALESTOTALPRICE	Sales Total Price	
18	SALESUNITPRICE	Sales Unit Price	Clear Data
19	SUPPLIER	Supplier	Clear Dup. Data CUSTOMER, CUSTOMERNAI
20	SUPPLIERNAME	Supplier Name	Repeat Detail
	THAT DI A OF D	T DI I	

### The resulting sheet without the repeated data:

1	2 3		A	В	C	D	E	F	G	н	1.1	J
			Order	Customer	Customer Name	Date	Time	Product	Product Desc	Sales Unit	Qty	Sales Line
		1	Number			Placed	Placed			Price		Price
Γ	ſ.	2	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector	47.20	6	283.20
	· ·	3						TFD156	Teal Fixed Drum	39.90	1	39.90
	· ·	4						TRB213	Teal Regular Binding	120.20	2	240.40
	· ·	5						YVB247	Yellow Vitreous Brace	72.48	9	652.32
	-	6	125 Total								18	1,215.82
			Orders by	y Customer	÷				: 4			•
					-							

Created with the Standard Edition of HelpNDoc: Easily create PDF Help documents

### **Repeat Detail/Formula**

### Repeat Detail/Repeat Formula

This option allows you to repeat the group data on the total line.

Select the column to repeat the data and click on "Repeat Detail". In the textbox to the right, enter the name of the column that controls the group defined by the report

	2		BUYIOIALCOSI	Buy lot	tal Cos	t		Data Type	Alpha	$\sim$	Colum	n Wid	th 34	
1	3		BUYUNITCOST	Buy Un	it Cost									
	4		CUSTOMER	Custor	ner			Field Type	Sir	ngle Value 🤇	) Multi-	Value		8
	5		CUSTOMERNAME	Custor	ner Nar	ne		MV Group					$\sim$	•
iL	6		DATEPLACED	Date P	aced					D: 1				
1L	7		DELIVERED	Delivere	ed					e as Display e as Criteria				
	8		DELIVERYDATE	Delivery	/ Date					den Column				
	9		DELIVERYDESC	Delivery	/ Туре					ap Column				
	10		DELIVERYQTY	Delivery	/ Qty			Padding		ne ◯Left	0	Right		
	11		DELIVERYTYPE	Delivery	/ Туре							light		
	12		NUMBER	Order N	lumber	·		Pad Length		Chara	acter			
	13		PRODUCT	Produc	t									
	14		PRODUCTDESC	Produc	t Desc			Sheet Contro	DI					
	15		QTY	Qty			_ F	ormula =					0	
	16		SALESLINEPRICE	Sales L	ine Pri	се		Add Com	ments					
	17		SALESTOTALPRICE	Sales T	otal Pr	ice								-11
	18		SALESUNITPRICE	Sales U	Jnit Pri	ce		Clear Data						
	19		SUPPLIER	Supplie	r			Clear Dup	. Data					4
	20		SUPPLIERNAME	Supplie	r Name	9	E	🛛 Repeat De	etail	NUMBER				1
	21		TIMEPLACED	Time P	laced			Repeat Fo	ormula					4
	22		URGENT	Urgent										
							Ľ	☑ Set as En	id of Fre	eze Pane				
		Die	alas Eista	0	Diese	Tetel	0							
			play Fields	Sort	Disp	Total	Grp	1						
	님		/ Line Cost											
			/ Total Cost				닏							
			y Unit Cost											
		Cus	stomer		11			_						
		Cus	stomer Name	1	12									
		Dat	e Placed	2	13									
		Del	ivered											
		Del	ivery Date											
		Del	ivery Qty											
1			ivery Type											
		Ord	ler Number		10									
			duct		20									
			duct Desc		21			-						
		0.												
_			<b>0</b>											
	ata in	cell	C2 is repeated in C6.											
	2 3	4	A B C		0		E	F	G		н	1	J	

			Order	Customer	Customer Name	Date	Time	Product	Product Desc	Sales Unit	Qty	Sales Line
		1	Number			Placed	Placed			Price		Price
Γ	[ · ]	2	125	46	Baking Development Services Inc.	19 Jan 2017	16:48:24	CLC51	Coral Light-weight Connector	47.20	6	283.20
	·	3						TFD156	Teal Fixed Drum	39.90	1	39.90
	·	4						TRB213	Teal Regular Binding	120.20	2	240.40
	·	5						YVB247	Yellow Vitreous Brace	72.48	9	652.32
	-	6	125 Total	[	Baking Development Services Inc.						18	1,215.82
			Orders b	y Customer	÷				: •			

### Repeat Formula

Same functionality as Repeat Detail but instead of repeating the data this repeats the formula.

### Created with the Standard Edition of HelpNDoc: Free EPub and documentation generator

### **Set as End of Freeze Pane**

### Set as End of Freeze Pane

Define the freeze pane column. Freeze panes in an Excel sheet are left most columns that do not scroll when scrolling the sheet left and right. By default, column A is set as freeze pane.

To set a freeze pane, check "Set as End of Freeze Pane" to indicate the column that ends the freeze pane. In the example below column CUSTOMERNAME is marked as End of Freeze Pane which means this column will be the first to scroll left and right and all columns to its left are "frozen" and do not scroll off the screen.

L is		Header Name				
1   [	BUYLINECOST	Buy Line Cost		Correlative TORG	ANIZATION;C;;1	
2 [	BUYTOTALCOST	Buy Total Cost		Data Type Alpha	<ul> <li>Column Width</li> </ul>	34
3 [	BUYUNITCOST	Buy Unit Cost		-		
4 [	CUSTOMER	Customer		Field Type 💿 Sing	gle Value 🔿 Multi-Value	Ë
5	CUSTOMERNAME	Customer Name		MV Group		$\sim$
6 [	DATEPLACED	Date Placed			B: 1 E: 11	
7 [	DELIVERED	Delivered			as Display Field as Criteria Field	
8 [	DELIVERYDATE	Delivery Date			en Column	
9 [	DELIVERYDESC	Delivery Type			p Column	
10 [	DELIVERYQTY	Delivery Qty		Padding   Non		
11 [	DELIVERYTYPE	Delivery Type				1
12 [	NUMBER	Order Number		Pad Length	Character	
13 [	PRODUCT	Product				
14 [	PRODUCTDESC	Product Desc		Sheet Control		
15 [	QTY	Qty		Formula =		01
16 [	SALESLINEPRICE	Sales Line Price		Add Comments		_
17 [	SALESTOTALPRICE	Sales Total Price				-
18 [	SALESUNITPRICE	Sales Unit Price		Clear Data		_
19 [	SUPPLIER	Supplier		Clear Dup. Data		
20 [	SUPPLIERNAME	Supplier Name		Repeat Detail	NUMBER	
21 [	TIMEPLACED	Time Placed		Repeat Formula		
22 [	URGENT	Urgent			Dens	
				Set as End of Free	eze Panej	
<			>	Page Break-On		$\sim$

Columns A and B are "frozen" and do not scroll off the screen when the sheet is scrolled left and right. Notice that columns C, D and E are "off" the screen.

A		В	F	G	Н		J	K	L
Order	Cus	tomer	Product	Product Desc	Sales Unit	Qty	Sales Line	Urgent	Supplier Name
Number					Price		Price		
1	25	46	CLC51	Coral Light-weight Connector	47.20	(	5 283.20	0	Leather Helpline Center Inc.
1	25	46	TFD156	Teal Fixed Drum	39.90		L 39.90	0	Woodcraft Formation Associates
1	25	46	TRB213	Teal Regular Binding	120.20		2 240.40	0	Piano Handling Specialists Inc.
1	25	46	YVB247	Yellow Vitreous Brace	72.48		652.32	0	Display Servicing Services Inc.
5	05	149	CAC140	Crimson Amalgamated Cylinder	29.28	:	L 29.28	0	Mouldings Design Dealers Inc.
5	05	149	MRS242	Mauve Rigid Socket	5.84	(	5 35.04	0	Solarium Formation Services Inc.
5	05	149	SPC271	Salmon Pressurized Conduit	26.63	:	L 26.63	0	Milking Renovation Services Inc.
5	05	149	TMB231	Turquoise Medium Barrel	22.08	:	44.16	0	Environmental Concept Partners
5	05	149	WOC220	White Over-sized Crank	115.38	9	9 1,038.42	0	Paving Finance Wholesalers Inc.
2	40	34	AAS198	Amber Adjustable Sleeve	113.45	:	L 113.45	0	Irrigation Repair Solutions Inc.
2	40	34	BSB141	Black Semi-rigid Barrel	70.72	:	2 141.44	0	Fastener Concept Specialists Cor
2	40	34	CLB46	Crimson Large Barrel	81.98		2 163.96	0	Grain Repair Professionals Inc.
2	40	34	SEC160	Silver Elastic Conduit	45.61	3	5 228.05	0	Display Servicing Services Inc.
1	27	112	AMH229	Aqua Medium Hose	76.05		684.45	1	Needlework Cooperative Retaile
1	27	112	GAL136	Gold Adjustable Lining	29.53	9	265.77	1	Tobacco Care Contractors Inc.
1	27	112	MEM93	Mauve Elastic Mounting	15.80		9 142.20	1	Pallet Servicing Contractors Inc.
1	27	112	MOF193	Maroon Over-sized Fixing	96.60	:	L 96.60	1	Grain Repair Professionals Inc.
1	27	112	PPP239	Peach Pressurized Pump	62.25		560.25	1	Guttering Concept Wholesalers C
1	27	112	SAS175	Salmon Adjustable Socket	124.50	9	9 1,120.50	1	Irrigation Repair Solutions Inc.
1	27	112	CTCDDD	Silver Translucent Chute	50.60		5 252.14	1	Fan Concont Solutions Corn

Created with the Standard Edition of HelpNDoc: Create cross-platform Qt Help files

## Page Break-On

### Page Break-On

By default, Excel will add an automatic page break at the bottom of each page. The bottom of the page is defined by the default paper size set by the default or selected printer. This option allows you to force a page break after each Sub-Total or after each Sub-Total and Grand-Total.

Check "Page Break-On" and select one of the two options.

✓ Page Break-On		~
	Sub Tatal Only	
	Sub-Total Only Sub-Total and Grand-Total	

In Excel click on "Page Break Preview" to see the result.

File	Home	Ins	ert Pa	age Layout	Formulas D	)ata R	eview	View	♀ Tell	me what	t you want to do			
Normal	Page Break Preview	Page Layout	Custom Views		<ul> <li>✓ Formula Bar</li> <li>✓ Headings</li> </ul>	Zoom	100%	Zoom to Selection	New Window	Arrange All	Freeze Panes + Unhide	C View Side by Side C Synchronous Scrolling	Switch Windows •	Macros
	Workbook	Views		9	how		Zoom				Wi	indow		Macros

The left view shows the regular page break based on page size and default printer. The right view shows page breaks between every data group defined by "total"

			K 🗸 fx			✓ A2		<b>•</b>	× 🗸 J	£ 125		
			Raffer Franker Franker Barr	12.31 b 303.31 f	India Roma Canto Inc.		· Internet or	4b Balley Bassymmet Bassas ber	Falle Faller Falle Faller 1974-28 North24 CIGH	E Factori Barr	(2.3) b 313.31	
		<ol> <li>Belay Resigned Learning Int.</li> <li>Belay Resigned Learning Int.</li> <li>Belay Resigned Learning Int.</li> </ol>	M2a 30 Brellijk Tillik Torbol Box M2a 31 Brellijk TH333 Torbon Bolg M2a 31 Brellijk 193247 Ann Bonn Bon	10.00 1 04.40 0 10.00 2 040.40 0 20.40 4 602.20 0	Frankrik hander frankrike Frankrike frankrike Frankrike frankrike			A Ling Compared Rooms in A Ling Compared Rooms in A Ling Compared Rooms in			24.40 1 24.40 120.20 2 240.40 22.40 4 602.22	Fran Bankay Byrands Ban Byra Bankay Byrands Ban Byra Bannay Bannas Ba
		144 Taday layon Tyran Cay. 144 Taday layon Tyran Cay. 144 Taday layon Tyran Cay. 144 Taday layon Tyran Cay.	10/20 20 12-01-01 COLO40 Concentration for 10/20 20 12-01-01 MD2-02 More by Bold 10/20 20 12-01-01 DF221 Nore by Bold 10/20 20 12-01-01 PF221 Tayon Male Inco	4 24.38 1 24.38 4 8.84 6 28.84 8 4 26.63 1 26.63 8 22.88 2 44.16 8				144 Barley Laydon Byrnon Corp. 144 Barley Laydon Byrnon Corp. 144 Barley Laydon Byrnon Corp. 144 Barley Laydon Byrnon Corp.	1024 30 1244610 000343 1024 30 1244610 000343 1024 30 1244610 000343 1024 30 1244610 00033	han ti bala h Donard Cala 1 Julia - Cala	24.38 1 24.38 8.84 6 28.84 26.62 1 26.63 22.88 2 44.85	Mariaga Barga Barana Ia Marga Barana Barana Marga Barana Barana Barana Barana Barana Farag Barana Mitanana I
	340 340 340	34 Floor Index Summers	24/or 21 Bolton BDD1 Below Bolto Boo 24/or 21 Bolton BD14 Bolton Bolton 24/or 21 Bolton BD14 Bolton Bolton	02.40 1 02.40 98.75 2 140.44 98.75 2 140.44	lagelas Depa Balancias. Indena Compi Operato Co Con Depa Patronas Jac.	1 I I Ē Ē	13 <b>3 7 1</b> 13 341 14 341 14 341	14 Flags Index Summers	1440 H Dollow H 1993	Tales Houlds Inco	10.41 1 10.41	lagelan laga Balan la ladam Kangi Igani
D       D	122	14 Chann Barlay Brown Inc. 113 Contemport Mandach Corp. 113 Contemport Mandach Corp.	24/or 28 Bolton BECKE For Fold Code Bolton 2803(24)/22 BM8224 April Meles For Bolton 2803(24)/22 BM8224 April Meles For	40.41 0 220.41 0 26.00 4 604.40 0 24.02 4 260.27 0	Factored Cognitive Britery Talance Cognitive Britery Talance Con Control on Law		12 127 13 127 14 127	112 Conference Mondaels Con 113 Conference Mondaels Con			40.40 0 220.00 0 26.00 4 604.40 0 26.02 4 260.22	Roburd Coperto Rela
Image: Problem       Imag	127 127 127	113 Contractional Westback Con- 113 Contraction Westback Con- 113 Contraction Westback Con- 113 Contraction Westback Con- 113 Contraction Westback Con-	16/16 2019(224)22 Mill 92 Minut Encoded by 16/16 2019(224)22 Mill 92	BL.54 5 202.14 1	Con Byn Polonan Iac. Collon Congl Minner C Ingela Byn Balan Iac. Ia Cangl Balan Cag.		11 127 12 127 12 127 13 127 14 127	112 En Innenet Manhain En 112 En Innenet Manhain En 112 En Innenet Manhain En 112 En Innenet Manhain En	16/00 2019/02/022 001192 16/00 2019/02/022 001923 16/00 2019/02/022 001923 16/00 2019/02/022 001923	10001	46.60 1 46.60 62.30 4 060.30 124.00 4 1,00.00 104.00 4 1,00.00	Pari Barray Castanian Case Baya Parlament In Calling Casayi Minan Ingdan Baya Bahan In Ing Casayi Bahan Cay
	132 132 Felt	113 En Inenent Worlieh Eng. 18 En Inek Ionn Eng.	Balan 2004/24/22 400/62 Anna faile Bal 22/in 2010/2012 07/2362 Anna faile Bala	19.41 k 206.21 i 129.4k i 129.4k i 111.11 2 222.44 i				113 Conference Monthelis Con	. B./o. 3004.34.33 400.63	Youn hads Bed	11.41 b 316.71	Engr Energy Parlam E Ine Energy Parlam Eng Engr Rome Montaet In
	30	III Con Back Boom Corp. III Con Back Boom Corp. III Con Back Boom Corp.	24/or 28 17:22:24 01211 Ind Ind Indian 24/or 28 17:22:24 08:08 Ind Ind Indian 24/or 28 17:22:24 08:08 Ind Indian 24/or 28 17:22:24 08:294 Indian Indian	101.31 3 300.41 0 102.31 4 000.31 0 2.31 4 000.31 0 2.31 4 000.31 0	Corp Brown Mandada Jaco Harra Jackson Rymola Cor Historic Core Balai Corp. Pallan Barlan Barnah Corp.			III Con Facile Doorse Corp. III Con Facile Doorse Corp. III Con Facile Doorse Corp.	347/0 2017/23/24 011211 347/0 2017/23/24 01201 347/0 2017/23/24 00004 247/0 2017/23/24 00004	hal hal halaan ha haan Gamada hap hap halat Galen Hammali Ganta	100.30 3 300.40 103.30 6 000.30 3.30 6 103.30 3.40 10.30	Corp. Doors Mondaels () Here Sectors Corp. Dool Corp. Follow Corp. Dol Corp. Follow Corp. Dol to Corp.
		III Con Bank Barrow Carp. III Con Bank Barrow Carp. III Con Bank Barrow Carp.	347/ar 2017/22/24 100224 July Bolt-cold Box 247/ar 2017/22/24 17/07 Data Transmit July 247/ar 2017/22/24 101264 Bolt Repeated Box		Recer legeles Spears Inc.		14 214 18 214 18 214 18 214	BE Con Bandin Barran Cong. BE Con Bandin Barran Cong. BE Con Bandin Barran Cong.			101.75 1 105.00 22.39 4 129.15 120.20 2 202.40	
				66.96 6 40.26 1 29.00 1 200.40 1 44.90 2 124.21 1 10.24 1 164.21 1	Tas Isania Candah Ca Palya Isanya Isala Isalah Isala Candah Isalah Isala Candah					the present to be the second sec	64.46 h 401.24 24.00 h 340.40 44.40 h 124.20 101.24 h 124.20	Tan kanadan Canadan Padajeg Kanaganat Kad Kadalan Kashag Canada Kagan Kanaganat Canada
	211 211 211 211	100 Commission Lights Bold Las. 100 Commission Lights Bold Las. 100 Commission Lights Bold Las.	24/20 20 12/20/02 200700 Tool Tool Tool Tool 24/20 20 12/20/02 200720 Tool Tool Tool 24/20 20 12/20/02 200144 Tool Tool Tool Tool 24/20 20 12/20/02 200144 Tool Tool Tool	27.48 1 27.48 44.13 4 145.83 24.74 173.75 8.23 2 243.45	Manhard I have also Researched		12 700 14 700 00 700 04 700	IIII Committee legales Belai le IIII Committee legales Belai le IIII Committee legales Belai le	<ul> <li>347.028 (2012) 24.0442</li> <li>347.028 (2012) 24.042</li> <li>347.028 (2012) 24.042</li> <li>347.028 (2012) 24.044</li> <li>347.028 (2012) 24.044</li> </ul>		27.48 1 27.48 44.13 4 146.83 24.74 8 173.78 81.33 3 243.46	Caland I dan ba Ban Caland India Apan In Cap Cangi Palan C Calang Tangan In Pilla Baha Pana
	121	112 Codeg Boon Cashadan Ian. 113 Cadeg Boon Cashadan Ian. 113 Cadeg Boon Cashadan Ian.	24/or 2012-33-43 MIPH2 Mile Rep Proj 12/or 2012-43-43 MIPH2 Mile Rep Proj 12/or 2012-43-43 MIPH2 Rep Transmitter				1 17	112 Codey Boos Codemics in 112 Codey Boos Codemics in 112 Codey Boos Codemics in	. 12/10/2012/2012 00/2012 . 12/10/2012/12/12/12/12/12/12/12/12/12/12/12/12/1	Long Law Paul	45.12 2 242.51	Interferent from
	928 928 928	112 Europe Room Evelophere Inc.	12/10 20 12:12:13 FT 5222 Boo Tonescol Cide					112 Code Constantino la 112 Code Constantino la 112 Code Constantino la 112 Code Constantino la	. 12720 12.43.13 20047 . 12720 12.43.13 2020 . 12720 12.43.13 2020 . 12720 12.43.13 24733 . 12730 12.43.13 27733			Roman Lagalan Agama Law Ratawan Lawang Radaw Ratawan Romang Radaw Ratawan Romang Radaw
	1	183 Bandas Canadi Kang Kag. 2 Bajar Kapantas Kasta Kag. 2 Bajar Kapantas Kasta Kag.	38/11 28 (48242) 77932 (adju Turunu Fund 12/11 28 (48242) 17932 (adju Turunu Fund								2.74 b 23.44 i	Hanning From Minor Indone Rock Protocol Talaan Can Castanian
	23 23	<ol> <li>Beper Corporter Conter Corp.</li> <li>Beper Corporter Conter Corp.</li> </ol>	12/10 2000-44-04 PT1241 Dorep Tenterpool Inc	36.43 2 384.44	Calana Corporter Costante		11 33 12 33 13 <b>13 7-1</b> 1	2 Equi Cogordo Codo Cog 2 Equi Cogordo Codo Cog 112 Equi Cogordo Codo Cog			44.00 0 240.00 0 26.42 2 204.44 0 120.62 2 202.24 0	Colore Corporte Col
31         31         4         1.0         4.0        4.0        4.0        4.0        4.0		112 August Annual Parlam Con- 112 August Annual Parlam Con- 112 August Annual Parlam Con- 112 August Annual Parlam Con-	1076-30 10-07-24 WBC34 Wood Expended Clob 1076-30 10-07-24 PTP230 Pent Terrand Pent 1076-30 10-07-24 PTP230 Pent Ford 1076-30 10-07-24 PTE81 Pent Pent Ford 1076-30 10-07-24 PTE81 Pent Pent Pent	38.34 4 323.61	Minanda, Boos Minand Julio Rose Polese Con-			182 Report Follows Co 182 Report Follows Co 182 Report Follows Co 182 Report Follows Co	<ul> <li>10/0 20 10.07.24 00023</li> <li>10/0 20 10.07.24 00023</li> <li>10/0 20 10.07.24 0023</li> <li>10/0 20 10.07.24 0023</li> <li>10/0 20 10.07.24 0023</li> </ul>	Hand Tage and Chin Hand Tage and Chin Hand Gall Land Tageon Lylin and Cantonia	38.34 4 273.81 38.14 4 242.71 18.87 6 18.23 48.24 4 184.81	Hanning Tains Minne Inter Erger Parlam Co International Research By Class Research Parlam Control Construction
No. Port Port Port Port Port Port Port Port	228 228	20 Borry Byn Born In. 20 Borry Byn Born In.	1824 28 12-14-88 IT-P122 Selp-Townsel Pool 1824 28 12-14-88 IT-P124 SecTrosport Inco	3.54 3 0.33 1	Manage Completion I		Image: Number of the second	28 Barnap Barn Barna Inc. 28 Barnap Barn Barna Inc.			3.24 3 0.33 0	Waaraa Caanad Baara
N         N	24	28 Bangi Bga Baan Inc.	227 a 28 17 (28 (28 CH1287 Core Book Inform	131.14 1,343.01 1 30 11.11 2 151.11 1 2 151.11 1 2 151.11 1	Callong Completions C	6 -	24	21 Inter by them in.	33/or 38 12/38/38 CB1382	Error Roydy, Inchess	128.04 4 1,242.01 1	Colline Council Allows
B         P				22.68 1 22.68 22.68 1 22.68 22.68 4 248.42 1 22.68 4 248.42 1 84.84 2 162.12 1	Carlo Janan Mundrah Jan. Kasa Jupita Span Jan. Maka Karn Carlonia Ja						22.60 1 22.60 23.00 4 240.43 04.04 2 162.13	Carlo Ianan Montrato Boun Ingelo Agente Ian Mater Janua Carlonia
No.         No. <td>163 7-8-</td> <td>la penne la ser la ser</td> <td>14/0 21 12:22:42 01:231 Inc inp Count 11/0 21 11:21:14 12:15 Inc 2:40 Inc 11/0 21 11:21:14 12:15 Inc 2:40 End</td> <td>118.16 6 668.96 1</td> <td>Talaan Con Costantan Isa.</td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td><ul> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> </ul></td> <td>Roo Logi Connol Nya 2-No Bad Dana 4-Na Gadal</td> <td>110.05 5 550.95 1</td> <td>Talana Kan Kaslanlar</td>	163 7-8-	la penne la ser	14/0 21 12:22:42 01:231 Inc inp Count 11/0 21 11:21:14 12:15 Inc 2:40 Inc 11/0 21 11:21:14 12:15 Inc 2:40 End	118.16 6 668.96 1	Talaan Con Costantan Isa.			· · · · · · · · · · · · · · · · · · ·	<ul> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> <li>NACTORIZADAS NEST</li> </ul>	Roo Logi Connol Nya 2-No Bad Dana 4-Na Gadal	110.05 5 550.95 1	Talana Kan Kaslanlar
Matrix         Matrix<			III./w 20 10.20.04 C0020 Col Dischols Bailey III./w 20 10.20.04 125335 Taily 2-Wo Controls III./w 20 10.20.04 125132 Taily Control Controls III./w 20 10.20.04 102244 March Days Controls	0.01 0 034.01 04.40 0 624.01 0.34 1 0.34 0 00.05 1 00.44 0	Talaan Can Cashadan Inc. Pad Dame Cashadan Inc. Dam January Cashadan Inc. Data Data Padaman Cashadan				. 10/00 30 10:30:04 00030 . 10/00 30 10:30:04 130:33 . 10/00 30 10:30:04 10:033 . 10/00 30 10:30:04 00034	age 17		
No. 0         Non- 0<		<ul> <li>Reprint Joseph Lines Belancias</li> <li>Reprint Joseph Lines Belancias</li> <li>Reprint Belancias</li> </ul>	12/0/20 16/20/04 P00214 Pop Inf Book 12/0/20 16/20/04 107173 Non Record Table 14/0/20 16/20/04 10200 Red to bolion	11.32 3 113.34 1 11.32 3 113.34 1 40 0000 111.31 3 201.41 1	Manlage lange Speech land			14 Interferent Control Berry	de Ex 147es 20 10:00:26 00:20	Real load hadronse	10.31 3 30.41	Madep Inner Spania
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12	<ol> <li>Reference Council Council</li></ol>	11/10/2011 10:20:01 10:027 Bps 1pt - expt Boos	11.11 \$ 212.21 \$	Forley Branche Monthale Course Monsported Monthale			142 January Lanaus Agrounds Jan.	11/10/201106/20141 01027	Aper Aphil - ang ti Anno	10.00 b 202.20 90.62 4 202.02	Correct Memory and Mer
M         M         Model         Model </td <td>171</td> <td>10 hang been lpools in. 10 hang been lpools in. 10 hang been lpools in. 10 hang been lpools in.</td> <td>11/a 201 10/20-01 COV2 Col Esperatol Room 11/a 201 10/20-01 PPCIAL Performant Color 11/a 201 10/20-01 PPCIAL Performant Color 11/a 201 10/20-01 POUS To Esperator</td> <td></td> <td>Calana Capata Castada Dana Japita Upana Jan. Papela Dangand Mitana Ina Canayi Kalan Cap.</td> <td>1 top</td> <td></td> <td>142 Lang Lang Lynnh lan 142 Lang Lang Lynnh lan 142 Lang Lang Lynnh Lyn 142 Lang Lang Lynch Lyn 142 Lang Lang Lynch Lyn</td> <td>11242 301 10530541 20043 11242 301 10530541 2020 11242 301 10530541 20044 11242 301 10530541 20044</td> <td>College and Lonal Stability College Fragment College To Dep Deleg</td> <td>14.24 3 314.23 26.24 1 26.24 1 106.23 1 106.23 1 126.04 0 1,002.13</td> <td>Entern Cognitis Cod Inno Inglia Agentica Pogola Anogenet Man Ing Compil Bachen Cog</td>	171	10 hang been lpools in. 10 hang been lpools in. 10 hang been lpools in. 10 hang been lpools in.	11/a 201 10/20-01 COV2 Col Esperatol Room 11/a 201 10/20-01 PPCIAL Performant Color 11/a 201 10/20-01 PPCIAL Performant Color 11/a 201 10/20-01 POUS To Esperator		Calana Capata Castada Dana Japita Upana Jan. Papela Dangand Mitana Ina Canayi Kalan Cap.	1 top		142 Lang Lang Lynnh lan 142 Lang Lang Lynnh lan 142 Lang Lang Lynnh Lyn 142 Lang Lang Lynch Lyn 142 Lang Lang Lynch Lyn	11242 301 10530541 20043 11242 301 10530541 2020 11242 301 10530541 20044 11242 301 10530541 20044	College and Lonal Stability College Fragment College To Dep Deleg	14.24 3 314.23 26.24 1 26.24 1 106.23 1 106.23 1 126.04 0 1,002.13	Entern Cognitis Cod Inno Inglia Agentica Pogola Anogenet Man Ing Compil Bachen Cog
91       01 <t< td=""><td></td><td><ol> <li>Ingen lepte Telev Cop.</li> </ol></td><td>N/o 201 Philip3 DE234 From Separatel Con N/o 201 Philip3 CO234 Con Ingo Cold N/o 201 Philip3 CO20 Con Ingo Codo N/o 201 Philip3 CO201 Cod Ingo Codo</td><td></td><td></td><td></td><td></td><td>42 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap</td><td>117-a 301 04-01-30 00034 117-a 301 04-01-30 000343 117-a 301 04-01-30 00034 117-a 301 04-01-30 0000</td><td>Cone Bergandal Conel Cone Loga Badal Cone Espan Conta Cial Russiani Scillato Cial Russiani Scillato</td><td></td><td>Frang Transpool Casha Instanc Crangt Byradi Classes Instantos Casha Ingan Instantos Casha</td></t<>		<ol> <li>Ingen lepte Telev Cop.</li> </ol>	N/o 201 Philip3 DE234 From Separatel Con N/o 201 Philip3 CO234 Con Ingo Cold N/o 201 Philip3 CO20 Con Ingo Codo N/o 201 Philip3 CO201 Cod Ingo Codo					42 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap 43 Logon Lipita Balan Cap	117-a 301 04-01-30 00034 117-a 301 04-01-30 000343 117-a 301 04-01-30 00034 117-a 301 04-01-30 0000	Cone Bergandal Conel Cone Loga Badal Cone Espan Conta Cial Russiani Scillato Cial Russiani Scillato		Frang Transpool Casha Instanc Crangt Byradi Classes Instantos Casha Ingan Instantos Casha
91       01 <t< td=""><td></td><td><ol> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> </ol></td><td>112to 201 Phillips Mittans Millipsongl Connect</td><td>107.64 I 107.64 I 16.77 6 160.64 I</td><td>Conc Roya Parlaman Jan Romanala Concyl Parlam Parlaya Docepted Rolan Ine Concyl Rolan Coy</td><td>100). 100</td><td></td><td><ul> <li>42 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> </ul></td><td></td><td>and an off the set</td><td>117.64 1 117.64 1</td><td>In Cranyl Burley Cop</td></t<>		<ol> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> <li>Ingen light Talen Eng.</li> </ol>	112to 201 Phillips Mittans Millipsongl Connect	107.64 I 107.64 I 16.77 6 160.64 I	Conc Roya Parlaman Jan Romanala Concyl Parlam Parlaya Docepted Rolan Ine Concyl Rolan Coy	100). 100		<ul> <li>42 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> <li>43 Ingen Igele Beler Cop.</li> </ul>		and an off the set	117.64 1 117.64 1	In Cranyl Burley Cop
91       01 <t< td=""><td></td><td>100 Information Constructions. 100 Information Constructions. 100 Information Constructions. 100 Information Constructions.</td><td>B./a 21 (2-21ch 1710) Ip Tanpari Iak B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an</td><td>1.33 2 27.31 1 </td><td></td><td></td><td></td><td>188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar.</td><td>1676-20 12/2016 171012 1676-20 12/2016 10/201 1676-20 12/2016 10/201 1676-20 12/2016 177220</td><td>lan Tanapan Inda Mana Hadab Jang Mina Japab Data Naga Saka Tan</td><td>1.33 2 32.31 42.25 1 42.25 1.35 2 1.32 1.35 2 1.43 1.35 4 2.41 1.35 5 2.41 1.3</td><td>Free Bankey Byrnshi Jan Bishanan Lanay Bashan Bishanan Can Baha Can Bashay Janlarika Casha</td></t<>		100 Information Constructions. 100 Information Constructions. 100 Information Constructions. 100 Information Constructions.	B./a 21 (2-21ch 1710) Ip Tanpari Iak B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an B/a 21 (2-21ch 10/24), Karalishi/an	1.33 2 27.31 1 				188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar. 188 Ini kasalas Casalaski Iar.	1676-20 12/2016 171012 1676-20 12/2016 10/201 1676-20 12/2016 10/201 1676-20 12/2016 177220	lan Tanapan Inda Mana Hadab Jang Mina Japab Data Naga Saka Tan	1.33 2 32.31 42.25 1 42.25 1.35 2 1.32 1.35 2 1.43 1.35 4 2.41 1.35 5 2.41 1.3	Free Bankey Byrnshi Jan Bishanan Lanay Bashan Bishanan Can Baha Can Bashay Janlarika Casha
91       01 <t< td=""><td></td><td>124 Johdell Bededer Missens Jas. 124 Johdell Bededer Missens Jas.</td><td>127on 30 1032002 COURT Concerningdoct Box 127on 30 1032002 COURT Concerningdoct Box</td><td>11.02 2 40.44 1 46.41 1 10.11</td><td>Kopolisia Kashala Ina. Kapilara Kashala Ina. Kasada Kasada Ina.</td><td></td><td>1 11 11 11 11 11 11 11 12 11 12</td><td>124 Todalah Fedralas Misaan 124 Todalah Fedralas Misaan</td><td>lan, 127n 38 11,32,82 CANA Inc. 127n 38 11,32,82 CANA</td><td>Come Redal Rose Come Redal Rose Com &amp; Wir Winster</td><td></td><td>Coge Borne Mondaule I Council Bornelo Born</td></t<>		124 Johdell Bededer Missens Jas. 124 Johdell Bededer Missens Jas.	127on 30 1032002 COURT Concerningdoct Box 127on 30 1032002 COURT Concerningdoct Box	11.02 2 40.44 1 46.41 1 10.11	Kopolisia Kashala Ina. Kapilara Kashala Ina. Kasada Kasada Ina.		1 11 11 11 11 11 11 11 12 11 12	124 Todalah Fedralas Misaan 124 Todalah Fedralas Misaan	lan, 127n 38 11,32,82 CANA Inc. 127n 38 11,32,82 CANA	Come Redal Rose Come Redal Rose Com & Wir Winster		Coge Borne Mondaule I Council Bornelo Born
On         Data         Influence from the influ				14.42 I 14.42 I 22.46 4 122.44 52.67 4 201.44 10.22 2 06.44	Nata Inno Calada In Hadas Cas Igan Caj Cas Igan Palaman In Idan Inga Minana In							Helse Boos Cashada Boolas Con Byan Co Cos Bya Palawan Island Isaan Misaa
10         10<								122 Indehil Inden Ergen Erg 122 Indehil Inden Ergen Erg 123 Indehil Inden Ergen Erg	12/10/20 12:00:24 19/224 12/10/20 12:00:24 19/2015 12/10/20 12:00:24 19/2015		6.03 4 36.00 64.46 3 300.20 102.04 7 700.23	Endowy Recognical Bol Endowy Recognical Bol Wiley Core Reports Law
				21.22 6 434.33 1	Mater Brown Control to 1			a locked a fermionic law.	1220020 0141000 000140	to be at too	20.70 b 434.00 b 20.70 b 434.00 b 2.00 b 3.20 b	
Str.         Str. <th< td=""><td></td><td>162 Instan Byer Palens Bay.</td><td>107-1 20 Bollott 19802 April Advantage</td><td>121.22 6 238.33 6</td><td>India Reportanta Contra Las.</td><td>L C 🗄</td><td>17 441 18 <b>18 7 46</b> 19 463 19 463</td><td>162 Junelou Roper Parlama Corp 162 Junelou Roper Parlama Corp</td><td>. 187 28 (6-81-89 880187 187 28 (6-81-89 880187</td><td>Epo Malas Basa Kal Karas Basa</td><td>42.30 4 434.00 1 131.23 6 238.33 1</td><td>ladia Ager Ceda Iec.</td></th<>		162 Instan Byer Palens Bay.	107-1 20 Bollott 19802 April Advantage	121.22 6 238.33 6	India Reportanta Contra Las.	L C 🗄	17 441 18 <b>18 7 46</b> 19 463 19 463	162 Junelou Roper Parlama Corp 162 Junelou Roper Parlama Corp	. 187 28 (6-81-89 880187 187 28 (6-81-89 880187	Epo Malas Basa Kal Karas Basa	42.30 4 434.00 1 131.23 6 238.33 1	ladia Ager Ceda Iec.
38         39         30<	463	163 Incolory Report Problems Corp. 163 Incolory Report Problems Corp.	12/or 20 Holloff W102 Loss Toward tob	100.75 2 200.82 0 0.22 2 16.64 0 12.23 2 16.64 0 12.24 2 16.82 0 12.24 2 16.24 0	Tallice Book Controloc Co India Boyer Contro Inc. Control Descular Tecnilo Fallon Desley Speech Corp.			162 Instan Ager Palana Kay 163 Instan Ager Palana Kay	10/10/20 16:01:05 07:02 10/10/20 16:01:05 10:05	None Transmithedreen None hele Bolt	101.76 2 201.02 1.23 2 16.64 1 22.24 2 46.07 134.16 2 202.40	Failles Barls Controller Indian Report Controller Control Factories Factories Failles Reports
	205 205 205	130 Index Jacob Burndon Corp. 130 Index Jacob Burndon Corp. 130 Index Jacob Burndon Corp. 130 Index Jacob Burndon Corp.	1874-38 (b-21-82 818382) Research Have 1874-38 (b-21-82 87894) Red Transmit Balay 1874-38 (b-21-82 81894) Contrast Byl Back 1874-38 (b-21-82 81924) Coll Bal Pag	2.42 b 44.83 b 26.51 2 834.31 10.31 0 9.51 10.31 4 426.85	Consta Donato Danata Calina Dana Mastali C Pany Talang Dalam Ini Padag Danata Mastali		0 305 (7 305 (8 305 (8 305) (9 305)	138 John Jacob Boundo Boy.	1074 20 16-21402 000303 1074 20 16-21402 07014 1074 20 16-21402 07014 1074 20 16-21402 00020		20.50 2 134.30	Energia Banala Ban Fala Talang Balan Fala Banala Kal
Bit         Dist instrumenting         Dist in balanti dire         Dist in balanti dire         Dist instrumenting         Dis <thdist instrumenting<="" th=""> <t< td=""><td></td><td>130 Index James Basedo Cop. 130 Index James Basedo Cop. 130 Index James Basedo Cop. 130 Index James Basedo Cop.</td><td>manuali Badhildi MBC24 Manu Reproduktion 1976-28 Badhildi MBC24 Mapula Record 1976-28 Badhildi MBC271 Bana Promoni Cashi 1976-28 Badhildi TEBIDI Ta Baganta Badhildi TEBIDI</td><td>112.01 4 421.01 0 30.31 4 323.01 1.33 6.41 35.62 1 123.01 4 36.62 1 123.01 4 403.01</td><td>talla Tapa Palam Cap. Tar Jamia Candadi Ca Ning Cambridge Dama Inc. Calum Cab Span Inc.</td><td></td><td></td><td>131 John James James Jacoba Conj. 138 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj.</td><td>1174 31 1631413 MIC24 1174 31 1631413 MIC21 1174 31 1631413 MIC21 1174 31 1631413 MIC21</td><td>negeligings-tylicity- Republic to the food former Processed Control To Despected Relay</td><td>112.09 4 421.0k 30.39 9 22.01 1.39 6 423.01 36.43 0 133.00 96.46 0 423.31</td><td>Fraing Domitics Munit Initia Dyna Pratama Gr Tun Lunda Casadad King Domitics Domitics Colores Duda Dyna Ia Nathap Lunda Dyna Ia Dyna Dyna Dyna Dyna Da</td></t<></thdist>		130 Index James Basedo Cop. 130 Index James Basedo Cop. 130 Index James Basedo Cop. 130 Index James Basedo Cop.	manuali Badhildi MBC24 Manu Reproduktion 1976-28 Badhildi MBC24 Mapula Record 1976-28 Badhildi MBC271 Bana Promoni Cashi 1976-28 Badhildi TEBIDI Ta Baganta Badhildi TEBIDI	112.01 4 421.01 0 30.31 4 323.01 1.33 6.41 35.62 1 123.01 4 36.62 1 123.01 4 403.01	talla Tapa Palam Cap. Tar Jamia Candadi Ca Ning Cambridge Dama Inc. Calum Cab Span Inc.			131 John James James Jacoba Conj. 138 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj. 139 John Jacoba Jacoba Conj.	1174 31 1631413 MIC24 1174 31 1631413 MIC21 1174 31 1631413 MIC21 1174 31 1631413 MIC21	negeligings-tylicity- Republic to the food former Processed Control To Despected Relay	112.09 4 421.0k 30.39 9 22.01 1.39 6 423.01 36.43 0 133.00 96.46 0 423.31	Fraing Domitics Munit Initia Dyna Pratama Gr Tun Lunda Casadad King Domitics Domitics Colores Duda Dyna Ia Nathap Lunda Dyna Ia Dyna Dyna Dyna Dyna Da

Page breaks between every "Total" groups

3	A	В	c	D	E	F	G	н		1	K	L	M
		Customer	Customer Name	Date Placed		Product	Product Desc	Sales Unit	Qty	Sales Line	Urgent	Supplier Name	
1	Number				Placed			Price		Price			
- 2			Baking Development Services Inc.	19 Jan 2017	16:48:24		Coral Light-weight Connector	47.20				Leather Helpline Center Inc.	
1.3			Baking Development Services Inc.	19 Jan 2017		TFD156	Teat Fixed Dem	39.90		. 39.90		Woodcraft Formation Associates	inc.
- 4			Baking Development Services Inc.	19 Jan 2017		TRB213	Teal Regular Binding	120.20				Piano Handling Specialists Inc.	
5		46	Baking Development Services Inc.	19 Jan 2017	16:48:24	¥VB247	Yellow Vitreous Brace	72.48			0	Display Servicing Services Inc.	
6									11				
7	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	5 CAC140	Crimson Amalgamated Cylinder	29.28	:	. 29.28	0	Mouldings Design Dealers Inc.	
8		149	Boating Logistics Agency Corp.	18 Jan 2017		6 MRS242	Mauve Rigid Socket	5.84		35.04	0	Solarium Formation Services Inc.	
	505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	SPC271	Salmon Pressurized Conduit	26.63	:	26.63	0	Milking Renovation Services Inc.	
1	0 505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	5 TMB231	Turquoise Medium Barrel	22.08	. :	44.16	0	Environmental Concept Partners	orp.
1	1 505	149	Boating Logistics Agency Corp.	18 Jan 2017	13:41:15	6 WOC220	White Over-sized Crank	115.38	9	1,038.42	0	Paving Finance Wholesalers Inc.	
1	2 505 Total								19	1,173.53			
1	3 240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	8 AAS198	Amber Adjustable Sleeve	113.45	1	. 113.45	0	Irrigation Repair Solutions Inc.	
1	4 240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	8 BSB141	Black Semi-rigid Barrel	70.72	1	141.44	0	Fastener Concept Specialists Corp	<b>.</b> .
1	5 240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	3 CLB46	Crimson Laige Barrel	81.98	1	163.96	0	Grain Repair Professionals Inc.	
1	6 240	34	Chimney Handling Services Inc.	24 Jan 2017	16:20:18	8 SEC160	Silver Elastic Conduit	45.61	1	228.05	0	Display Servicing Services Inc.	
1	7 240 Total								10	646.90			
1	8 127	112	Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 AMH229	Aqua Medium Hose	76.05	9	684.45	1	Needlework Cooperative Retailer	s Inc
1	9 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 GAL136	Gold Adjustable Lining	29.53	9	265.77	1	Tobacco Care Contractors Inc.	
· 2	0 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 MEM93	Mauve Elastic Mounting	15.80	9	142.20	1	Pallet Servicing Contractors Inc.	
· 2	1 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 MOF193	Maroon Over-sized Fixing	96.60	1	96.60	1	Grain Repair Professionals Inc.	
· 2	2 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	PPP239	Peach Pressurized Pump	62.25	9	560.25	1	Guttering Concept Wholesalers C	orp.
· 2	3 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 SAS175	Salmon Adjustable Socket	124.50	9	1,120.50	1	Irrigation Repair Solutions Inc.	
- 2	4 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 STC223	Silver Translucent Chute	58.69		352.14	1	Fan Concept Solutions Corp.	
· 2	5 127	112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 TOF205	Turquoise Opaque Fixing	59.45		356.70	1	Cargo Concept Partners Corp.	
• 2		112	2 Coal Framework Merchants Corp.	06 Jan 2017	09:34:32	2 YFD162	Yellow Flexible Duct	129.16	1	129.16	1	Fan Concept Solutions Corp.	
2	7 127 Total								59	3,707.77			
. 2	8 158	58	Coal Rental Dealers Corp.	22 Jan 2017	10.20.3	2 BPC263	Beige Pressurized Cylinder	111.18		333.54	0	Cargo Delivery Merchants Inc.	

Created with the Standard Edition of HelpNDoc: Free PDF documentation generator

# phiReport Builder

Available with Edition: PRO and CLOUD

Use phiReport Builder to create and test reports and generate JSON/OData documents.

💐 phiReport Builder				– 🗆 X
File Edit Run Tools Help				
📝 🖵 📈 🗙 🕟 🖂 🧱 🛛	12 🚺 🗾			
Category ** All ** Report Data View Op Field Operator	Data Section	# Enable     Default     Data File     Data File Alia       <      >       Sort     Hide     Notes/Comments	Display Fields	Sort Disp Total Grp Key
Report Parameters Pre/Post Processes Output He Header / Footer Left Header Center Header Right Header Row Header Text	ader/Footer Codes   Preview   Raw Data   C	Configuration Printed Form Parameters Page Setup Orientation  Portrait  Landscape Fit to page(s) wide by tall Use Row Alternate Color Data Setup Start Column Start Row	9	
Left Footer Center Footer Right Footer		Add Data Filter Import Setup Data Blob Row 1 of Data Blob is Column Header		
			Use Pick DET-SUPP s	tyle summary
phiReport 3.1.0 Pro (D3) Sample Size 200				04 Feb 2019 - pt demo_db (PTI7) - Port 2

The Report Builder interface allows you to create report definitions.

Quick Start

I phiReport Builder						-	D X
File Edit Run Tool		1 📑 🚽					
Category Report Data View Custo	mer View	Data Section	#     Enable     Default     Data File     Data File Ali       1      ORGANIZATION     Customers	City	ntact	Disp Total Grp	
Op Field	Operator	Criteria	Sort Hide Notes/Comments	Name Name & Name Up On Hold Org ID Org. Type	Zip pper		
Report Parameters Header / Footer Left Header Center Header Right Header Row Header Text		r/Footer Codes Preview Raw Data	Configuration Printed Form Parameters Page Setup Orientation  Portrait O Landscape Fit to page(s) wide by tall Use Row Alternate Color Data Setup Start Column Start Row	State     Type     Zip Code			
Left Footer Center Footer Right Footer			Add Data Filter      Import Setup      Data Blob      Row 1 of Data Blob is Column Header				
				Use Pick	DET-SUPP style summa	-	
phiReport 3.1.0 Pro (D3)	Sample Size 200	~			04 Feb 2	019 - pt demo_db	(P117) - Port 2

- 1. Select a Data View created in the Data View Manager
- 2. Select 1 or more or all Display Fields to include in the report
- 3. Select the Sample Size (default is 200)
- 4. Click on "Run Query" to preview the selected data in the preview tab.

To save the report

- 1. Enter a name in the "Report" field
- 2. Optionaly enter a Category name
- 3. Click "Save"

File Edit Rur	n Tools 30
	🛛 🗙 💽 🔜 🔤 🚺
Category	Customer Reports 🔶 2
Report	Customer List 🔶 🧧 🔍
Data View	Customer View

To resize a column, place your mouse on the preview header between 2 columns until the cursor changes to the double arrow. Click then drag left or right to resize the column. The new column size is automatically saved with the Data View definition.

Parameters Output Header/Footer Codes Preview Raw Data Configuration

Farameters Output HeadenFooterCodes Freview	Raw Data Conliguration	
Name	◆ Name & Zip	Zip Code
Lubricant Logistics Outlet Inc.	Lubricant Logistics Outlet Inc. (4346)	4346
Games Servicing Merchants Corp.	G Name Zip sing Merchants Corp. (4669)	4669
Irrigation Renovation Wholesalers Inc.	Irrigation Renovation Wholesalers Inc. (7577)	7577
Paper Cooperative Wholesalers Inc.	Paper Cooperative Wholesalers Inc. (14148)	14148
Cooling Delivery Group Corp.	Cooling Delivery Group Corp. (7020)	7020
Flooring Care Merchants Corp	Flooring Care Merchants Corp. (5805)	5805

Created with the Standard Edition of HelpNDoc: Generate EPub eBooks with ease

## **Report Select**

Category	** All **	$\sim$	(	C	Data S	Section	#	Enable	Default	Data File	Data File Alias (Data Source)
Report		$\sim$		C							
Data View		$\sim$		C							

### The report select frame contains 3 dropdownlists and a grid

### Category list

Cate	gory	** All **		$\sim$	C
Re	port	** All **			C
Data View		** Uncategorized **		ŀ	
		Customer Reports		[	G
		Order Reports			
Ор	Field	Product Reports		t	teria
01/00	Lun .		0		

Lists Categories defined in the active account. Categories are created when saving a report. To create a new category, enter a nane in the Category field and save the report. To delete a category you need to update all reports associated with that category by editing each report and removing or changing the Category name.

### Report list

Cate	gory	** All **	~ C	Data Sectio
Re	eport		~ 😋	
		Report Name	Category	
		Customer List	Customer Reports	
Ор	Field	Orders by Customer Product By Supplier Name	Order Reports	
		Product List	Product Reports	
		Product Suppliers List	Product Reports	

Lists saved reports. The report list can be filtered by Data View or by Category. To apply a filter, select a

Data View or Category and click on the refresh button for the right of the Report dropdownload. This will reload the list applying the filters.

### Data View list

Cate	gory	** All **	$\sim$	C	
Re	port	Product List	$\sim$	C	
Data V	/iew	Product View		$\sim$ (	C
		Data Views	View Account		
Ор	Field	Customer View	DEMO_DB	te	eria
SKIP	ID	Delivery Type View	DEMO_DB	1	
		Order View	DEMO_DB		
		Product View	DEMO_DB		

Lists Data Views defined in the Data View Manager. Data Views

### Data Section grid

Data Section	#	Enable	Default	Data File	Data File Alias (Data Source)
	1	$\checkmark$	$\checkmark$	PRODUCT	PRODUCT
	2			DISCONTINUED	Discontinued Items
	3			OBSOLETE	Obsolete Products

Lists Data Sections associated with the select Data View. Data Sections are defined by Pick file structures. If a DICT section contains multiple Data sections, they will automatically be displayed in this grid. From this grid check the Data Sections you want to appear in the list of available "Data Sources" in <u>PRQUERY</u> by checking the "Enable" checkbox. The Default checkbox indicates the default Data Source to use.

If none is selected that system default data section is used.

Created with the Standard Edition of HelpNDoc: Free HTML Help documentation generator

## **Report Criteria**

### Fill out the criteria grid to add filters or search criteria to a report.

Ор	Field	Operator	Sort	Hide	Notes/Comments
	·				

### Op: Operand

Ор	
	~
SKIP PRE POST	

{blank}: A {blank} selection indicates the first selection clause

AND: Use AND Operand to AND 2 filters

OR: Use OR Operand to OR 2 filters

SKIP: Use SKIP to excluse the current filter from the selection. A SKIP flag is the same as deleting the

criteria. A SKIP allows you to "skip" the clause without deleting it.

PRE: Use PRE to pass user prompt data to "Pre-Query Process"

POST: Use POST to pass user prompt data to "Post-Query Process"

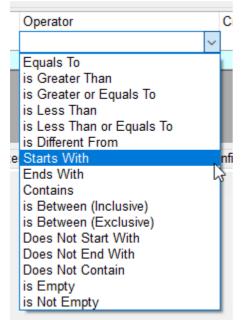
Field: Select criteria fields.

Field		0
	~	
Description ID Supplier Names Suppliers		C

Only fields flagged as "Use as Critefia Field" in the "Data View Manager" are display on this list.

Column Editor								
Field ID	DEFAULTSALESPRICE							
Field Name	Default Sales Price							
Туре	A V Attribute 3							
Header	Default Sales Price							
Conversion	MR2							
Correlative								
Data Type	Numeric 🗸 Column Width 10							
Field Type	● Single Value ◯ Multi-Value							
MV Group	~							
-	<ul> <li>✓ Use as Display Field</li> <li>☐ Use as Criteria Field</li> <li>☐ Hidden Column</li> <li>☐ Wrap Column</li> </ul>							

### Operator:



Select the appropriate operator for your selection.

	Criteria		;
_		<	
	{Any Value}		1
	{Last Month}		
	{Last Week}		
	{This Month}		
	{This Year}		
	{Today}		e.
C	[Duplicate Row]		
Ī	[User Prompt Row]		

You can enter a search string or a search token or a pre-defined custom criteria.

ÇОр	Field	Operator	Criteria	:
	Supplier Names	Starts With	а	

This will return all items with Supplier Names that starts with letter a. SELECT PRODUCTS WITH SUPPLIERNAME = "a]"

A **Search String** is any string entered in the Criteria column. This string become the default criteria whenever the report is run. If the criteria is flagged as "Hide" it becomes hidden and cannot not be modified. When the report is run from TCL or through the PRAPI this criteria will not be accessible.

A **Search Token** is a special token that instructs the report that a user input is required. **Search Token** is any text enclosed between %%@ and %%. For example, %%@Name%% creates a **Search Token** called Name. When the report is run, the user is prompted to enter a value for the **Search Token**.

Ор	Field	Operator	Criteria
	Supplier Names	Starts With	%%@Name%%

#### At run time a prompt appears

Please enter a value for	×
Supplier Names Starts With	OK Cancel

#### When run from TCL

РΤ	dem	o_db:i	ptru	n produ	IC1	t by su	oplier na	ne			
Ent	er	value	for	'NAME'	:	(enter	'_quit_'	to	quit)	:	?

<u>Custom Criteria</u> are stored in CustomCrit file which is created in your work account. Default values are copied from phiReport account to your work account. See <u>Custom Criteria</u> from detail on how to create your own custom criteria.

Operators "is Between (Inclusive)" and "is Between (Exclusive)" require a starting value and an ending value. The two values have to be separated by a semi-colon ';'. If value1 is omited, a blank is assumed. If value2

is omited, a greater-then or greate-or-equals-to value1 is assumed.

Ор	Field	Operator	Criteria	ę
	ID	is Between (Inclusive)	value1;value2	
OR	ID	is Between (Exclusive)	%%@value1%%;%%value2%%	

Sort:

Ι	Sort	Hide	e Notes/Comments				
	2						
	Enter sort order. Enter negative number to sort by						
		descend	ling.				

You can specify a sort direction by entering a positive or negative number in the Sort column. Use a negative number to indicate a reverse sort (BY-DSNS). The sort order is executed in the order the criteria is created.

Hide:

Hide	Notes/Comments
	Hide from XL Query

Use this option to "hide" the criteria from user when run from <u>PRQUERY</u>. This is useful when you don't want users to change the search value. You can mix visible and hidden criteria in the same report.

Example:

Repo Data Vie		Name		Catego	-	RODUC	T		~	_
	ield upplier Names	Operator Starts With		Criteria	Sort 2	Hide	Notes/Comments			
OR IE		Contains		V	-1					
	for Product View Tools Help			ltems p	per Pag	je 100			×	Ľ
Select C	Category		~ C S	Select Report Product By Su	upplier l	Name		~	C	
	Field Name Supplier Names	Operator Starts With		Enter Search String b						
ID v VRS113 VOH228	Description Violet Regular Surr Violet Opaque Hos		Suppliers 282 282	Supplier Names Boating Development Grou Boating Development Grou						
GVF207		tener	282 275	Boating Development Grou Boating Technology Reselle	p Inc.					

In the above example, we have defined 2 criteria where the second one is flagged as "Hide". Notice that the second criteria is not displayed in PRQUERY

The generated query statement is as follows:

SORT PRODUCT ID DESCRIPTION SUPPLIERS SUPPLIERNAMES BY SUPPLIERNAMES EQ "]" OR WITH ID EQ "[V]" BY-DSND ID

Created with the Standard Edition of HelpNDoc: Create iPhone web-based documentation

### **PRE and POST Operands**

PRE and POST operands are special options that are not operands used in the generated quesry statement. PRE and POST must be used in conjunction with Pre-Query and Post-Query Processes. They are the mechanism to pass data to the Pre and Post Query Processes.

Ор	
	<
AND	
OR	
SKIP	
PRE	
POST	

To pass data to the Pre/Post query processes, select PRE or POST from the Op droplist and enter a "**Search Token**" in the Criteria column. The other columns are not used with PRE and POST.

A **Search Token** is a special token that instructs the report that a user input is required. **Search Token** is any text enclosed between %%@ and %%. For example, %%@Name%% creates a Search Token called Name. When the report is run, the user is prompted to enter a value for the **Search Token**.

Ор	Field	Operator	Criteria	Sort	Hide	Notes/Comments	
	Customer Name	Starts With	a]				
AND	Ship Date	is Greater Than	{Last Week}				
PRE			%%@Name%%				
POST			%%@List Name%%				
Parameters       Output       Header/Footer Codes       Preview       Raw Data       Configuration         Pre-Query Process       Execute TCL Command(s)       V       MY-PRE-QUERY-PROCESS "%%@Name%%"				Ŷ			
Post-G	Query Process SAVE-LIST	%%@List Nar	me%%				Ŷ

In the above example, the user is prompted a "Name" and a "List Name".

Please enter a Pre-Query value for	×
Name	OK Cancel
My Name	
Please enter a Post-Query value for	×
Please enter a Post-Query value for List Name	OK Cancel

phiReport will execute the Pre-Query TCL command MY-PRE-QUERY-PROCESS passing it the value entered for Name.

### MY-PRE-QUERY-PROCESS "My Name"

and the Post-Query command SAVE-LIST MYLIST

Note: PRE and POST can be inserted anywhere in the criteria grid, they will not be included in the

Created with the Standard Edition of HelpNDoc: Easily create EPub books

## **Report Display Fields**

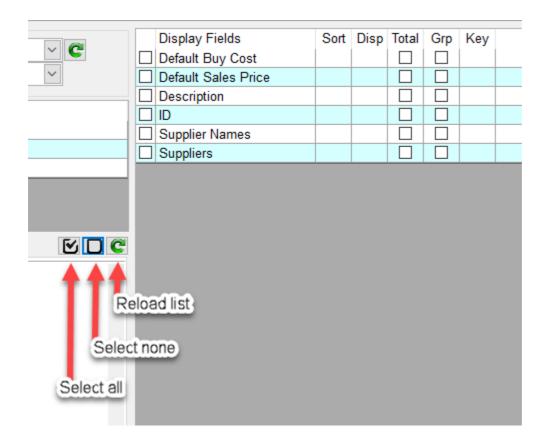
Report Display Fields are listed in the grid on the right of the phiReport Builder form.

Display Fields	Sort	Disp	Total	Grp	Key
Default Buy Cost					
Default Sales Price					
Description					
🗌 ID					
Supplier Names					
Suppliers					

The application only lists the fields flagged as "Display Field" in the "Data View Manager"

Column Editor						
Field ID	SUPPLIERNAMES					
Field Name	Supplier Names					
Туре	A V Attribute 4					
Header	Supplier Names					
Conversion						
Correlative	TORGANIZATION;C;;1					
Data Type	Alpha 💛 Column Width 40					
Field Type	○ Single Value  Multi-Value					
MV Group	supplier_group					
<ul> <li>✓ Use as Display Field</li> <li>✓ Use as Criteria Field</li> <li>Hidden Column</li> <li>Wrap Column</li> </ul>						

To include a field to the report, Click on the checkbox on the left of the grid. Use the speed buttons to select/deselect all fields and to reload the list of fields.



### <u>Sort</u>

Specify the Sort direction and sort order. A positive number indicates an ascending sort while a negative number indicates a descending sort. The absolute value of the number indicates the sort order.

### For example:

v Display Fields	Sort	Disp	Total	Grp	Key
Default Buy Cost	-2				
Default Sales Price					
Description					
	1				
Supplier Names					
Suppliers					

SORT .... BY ID BY-DSND DEFAULTBUYCOST

v	Display Fields	Sort	Disp	Total	Grp	Key
$\checkmark$	Default Buy Cost	-1				
$\checkmark$	Default Sales Price					
$\checkmark$	Description					
$\checkmark$	ID	2				
	Supplier Names					
	Suppliers					

SORT ... BY-DSND DEFAULTBUYCOST BY ID

If a field is defined as multi-value, phiReport will automatically use BY-EXP and BY-EXP-DSND instead of BY and BY-DSND respectively.

If a field is not defined as multi-value, you can force the use of BY-EXP and BY-EXP-DSND by prefixing the sort number with '\*' for BY-EXP and '@' for BY-EXP-DSND; (negative numbers are ignored in this case)

F		ADDRESS					
-	$\checkmark$	INVOICE NUMBER	10	10		$\checkmark$	
	$\checkmark$	PO #		15			
	$\square$	DATE	*1	20			
	$\checkmark$	CUSTOMER		30			
	$\square$	NAME		35			
	$\checkmark$	EXT PRICE2		70	$\checkmark$		
	$\square$	TAX AMOUNT2		80	$\checkmark$		
	$\checkmark$	FREIGHT AMOUNT		90	$\checkmark$		
	$\checkmark$	INVOICE TOTAL2		100	$\checkmark$		

SORT ... BY-EXP DATE

By default the sort clause is placed at the end of the statement as follows:

SORT <Filename> USING <Dict Filename> <List of display fields> <Criteria> <Sort Clause>

In some cases you may need to perform the sort before the criteria especially when using complex statements with multi-values. In this case append an asterisk "\*" after the sort number.

		ADDRESS					
-	$\checkmark$	INVOICE NUMBER	10	10		$\checkmark$	
	$\checkmark$	PO #		15			
	$\checkmark$	DATE	1*	20			
	$\checkmark$	CUSTOMER		30			
	$\checkmark$	NAME		35			
	$\checkmark$	EXT PRICE2		70	$\checkmark$		
	$\checkmark$	TAX AMOUNT2		80	$\checkmark$		
	$\checkmark$	FREIGHT AMOUNT		90	$\checkmark$		
	$\checkmark$	INVOICE TOTAL2		100	$\checkmark$		

SORT ... BY DATE <some criteria> BY INVNUMBER

	l loqu	neu by		CII
☑ INVOICE NUMBER	-10	10		
✓ PO #		15		
DATE	@1*	20		
CUSTOMER		30		
NAME	1	35		
EXT PRICE2		70	$\checkmark$	
TAX AMOUNT2		80	$\checkmark$	
FREIGHT AMOUNT		90	$\checkmark$	
INVOICE TOTAL2		100	$\checkmark$	

You can mix sort instructions as required by your statement:

SORT ... BY-EXP-DSND DATE <criteria> BY NAME BY-DSND INVNUMBER

Note: Notice the 2 sort clauses, the primary sort clause is performed before the criteria and the secondary sort clause is performed after the criteria.

Specify the Display order. Enter display order number to specify the order of the output columns. Numbers do not have to be contiguous but they need to indicate a 'hierarchy'.

	ier nave te se eeningaeae se						•••
v	Display Fields	Sort	Disp	Total	Grp	Key	
$\checkmark$	Default Buy Cost	-1	10				
$\checkmark$	Default Sales Price		20				
$\checkmark$	Description		7				
$\checkmark$	ID	2	5				
	Supplier Names						
	Suppliers						

fields will be displayed in numerical order, i.e.: 7,5,10 and 20.

ID	Description	Default Buy Cost	Default Sales Price	
			i i	

The display order is independent from the sort order.

### <u>Total</u>

Indicates that the values of the column needs to be totaled. This is equivalent to Pick **TOTAL** keyword. When sent to Excel, columns flagged as **TOTAL** are totaled using the "**=SUM()**" formula on the last row of the worksheet.

### Grp (Group-By/Break-On)

Indicates data grouping based on the data values. The resulting output can be influenced by the sorting parameters. You can use a combination of **Total** and **Grp** to create Excel SUBTOTAL and GRANDTOTAL functions on the selected columns and to create expandable groups.

SORT PRODUCT BREAK-ON SUPPLIERNAMES ID DESCRIPTION TOTAL DEFAULTBUYCOST TOTAL DEFAULTSALESPRICE BY-EXP SUPPLIERNAMES

AutoSave	e Off	<b>H</b> 5	- @ - <del>-</del>		В	ook2 - Excel	Pierre Tri	nephi 🖻			
File	Home	Insert	Page Layout	Formulas D	ata Reviev	v View 🛛 Tell me what you wa	nt to do			₽ Share	
E1792	•	Grp Fla	ag <i>f</i> ∗ =S	UBTOTAL(9,E2:E	1790)						~
1 2 3			A		В	с	D	E	F	G	-
	Supp	lier Name	es		ID	Description	Default	Default			
	1						Buy Cost	Sales Price			
· 1	782 Zinc	Care Who	lesalers Inc.		S4G119	Silver 4-Way Grommet	89.30	104.46			
· 1	783 Zinc	Care Who	lesalers Inc.		SAS175	Salmon Adjustable Socket	92.27	124.50			
· 1	784 Zinc	Care Who	lesalers Inc.		TFP106	Teal Fixed Punp	9.14	11.47			
· 1	785 Zinc	Care Who	lesalers Inc.		TSS179	Teal Small Spout	5.00	6.13			
· 1	786 Zinc	Care Who	lesalers Inc.		WMF126	White Multi-way Faster Total Flag	21.97	28.39			
· 1	787 Zinc	Care Who	lesalers Inc.		WSP107	White Single Pump	56.46	80.67			
· 1	788 Zinc	Care Who	lesalers Inc.		YAT134	Yellow Adjustable Tube	46.51	62.30			
· 1	789 Zinc	Care Who	lesalers Inc.		YFD162	Yellow Flexible Duct	89.63	129.16			
1 · 1	790 Zinc	Care Who	lesalers Inc		VSC109	Vellow Small Crank	5, 29	59.92			
- 1	791 Zinc	Care Who	lesalers Inc. To	tal			1,331.85	1,718.17			
- 1	792 Grar	nd Total					82,467.70	105,686.55			
1	793										
1	794										
1	795										
1	796							_			
1	797							¢			Ŧ
F	Pr	oduct By	Supplier Name	(+)						Þ	
Ready								····	-	+ 100%	

Note: Grp and Total have no effect on JSON and OData documents

In some cases, it is more efficient to use Pick's internal detail suppress (DET-SUPP) to produce a summary report.

### Use Pick DET-SUPP style summary

When this option is checked, the key word DEP-SUPP is appended to the end of the query statement and the Excel Grouping feature (Grp) is automatically turned off.

#### <u>Key</u>

Indicates a key column. Use this flag to indicate the key field when creating JSON or OData documents. Enter any character to flag as key.

#### Note: Key has no effect on Excel worksheets

Created with the Standard Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

## **Report Parameters**

Report Parameters	Pre/Post Processes	Output	Header/Footer Codes	Preview	Raw Data	Con	nfiguration Printed Form Parameters
Header / Footer							Page Setup
Left Header							Orientation   Portrait  Clandscape
Center Header							Fit to page(s) wide by tall
Right Header							
Row Header Text					1		Use Row Alternate Color
							Data Setup
							Start Column
	Repeat Header						Start Row
Left Footer							Add Data Filter
Center Footer							lange t Option
Right Footer							Import Setup
							Data Blob
							Row 1 of Data Blob is Column Header

### Header / Footer

### Left, Center, Right Header

Add Excel Headers. Use any Excel compatible Excel special commands and built-in command defined in <u>Header/Footer Codes</u>.

Note: This option has no effect with JSON/OData documents.

Left, Cendter, Right Footer

Add Excel Footers. Use any Excel compatible Excel special commands and built-in command defined in <u>Header/Footer Codes</u>.

Note: This option has no effect with JSON/OData documents.

Row Header Text

Row Header are the top rows of a worksheet defined as report header. Unlike regular Excel headers (Left, Center, Right), Row Header are not limited in the number of charatecters. Row headers are usually used as "Report Title" and can be repeated on each page if the "Repeat Header" option is checked.

#### Page Setup

<u>Orientation</u> Specify the paper orientation, Landscape or Portrait.

### Fit to [] pages(s) wide by [] tall

This option tells Excel to fit the report within a single page wide and or height.

### Alternate Color

Select the alternate row color to use or turn it off.

### Data Setup

### Start Column / Start Row

By default, a report starts at cell A1 on the worksheet. You can change the default starting position by entering an alternative cell coordinates. Start Column is a letter starting with "A" and Start Row is a number stating at 1. This feature is useful when creating pre-printed type reports or when using <u>phiForm</u>.

### Add Data Filter

Turn on Data Filters on each column. Data Filters are drop-down lists displayed on the header column. They allow you to show/hide data based on your selection. The list of available selections are build automatically by Excel.

	A	В	C		D	
1	Org ID 💌	Address 💌	Name	e 🔻	Org.Type 🔻	r
2	1	1233 Norton Avenue	Lubricant Logistics OL	Sort A to Z		C
3	10	1210 East Drive	Games Servicing Mer 🗛	S <u>o</u> rt Z to A		C
4	100	2167 De Havilland Drive	Pine Formation Const	Sor <u>t</u> by Color	•	C
5	101	1234 West Walk	Knitwear Repair Ager		-	C
6	102	4554 New Rise	Demolition Concept ( 🖄	<u>C</u> lear Filter From "Org. 1	lype"	C
7	103	466 North Place	Racing Design Solutic	F <u>i</u> lter by Color	Þ	C
8	104	318 North Yard	Footwear Manageme	Text <u>F</u> ilters	) - F	C
9	105	372 Old Lee	Zinc Concept Retailer	Search	م	C
10	106	1792 Lees Pond	Painting Leasing Deal		~	C
11	107	2438 Candleford Park	Milking Cooperative :	(Select All)		C
12	108	1435 New Place	Conservatory Logistic	✔ Customer ✔ Customer\Suppli	ior.	C
13	109	4092 Tavistock Circle	Concrete Helpline Wl	Supplier		C
14	11	189 Harlequin Gardens	Irrigation Renovation	and adaptici		C
15	110	4599 Candleford Hwy	Shutter Helpline Dea			C
16	111	1650 East Walk	Fish Care Wholesaler			C
17	112	3510 Old Street	Coal Framework Mer			C
18	113	4548 New Hill	<b>Cooking Delivery Con</b>			C
19	114	661 Blossom Drive	Ventilation Delivery			C
20	115	1201 Lees Lane	<b>Refridgeration Handl</b>			C
21	116	1535 Cherry Drive	Hair Logistics Center			C
22	117	474 Maple Hill	Guttering Logistics Ce			C
23	118	2981 Lark Circle	Exhibition Installation			C
24	119	1564 East Square	Tyre Repair Agency Ir	ОК	Cancel	C
25	12	3804 Cedar Road	Paper Cooperative W			: C

### **Import Setup**

### Data Blob

By default, phiReport runs a TCL SELECT statement to generate the report data source. phiReport expects the statement output to be a columnar data set with rows and columns of data.

The Data Blob option allows you to read 1 or more records based on the query built by your query options. Each record would contain a "blob" of data where each attribute corresponds to a row and each value corresponds to a column. Data Blobs can be generated ahead of time by any programs/processes or can be created by <u>pre-query process</u> program.

0001	ID]Name]Number]Firstname]Lastname]Position
0002	142]Agricultural Finance Contractors Corp.]427]Hillary]Foot]Secretary]
0003	142]Agricultural Finance Contractors Corp.]426]Jennifer]Furgusson]CE0]
0004	<pre>142]Agricultural Finance Contractors Corp.]429]Demi]Gates]Sales]</pre>
0005	142]Agricultural Finance Contractors Corp.]428]Joanne]Lawson]Engineer]
0006	142]Agricultural Finance Contractors Corp.]430]Richard]Lawson]Customer Services]
0007	268]Agricultural Rental Contractors Inc. 1815]Nigel[Hughes]CE0]

The above record has 7 rows of data and 6 columns ("]" = @VM). Row 1 defines the report header.

### Row 1 of Data Blob is Column Header

If row 1 contains the header, check this box to by-pass the default phiReport column definition defined by the dictionary items.

Note: When using row 1 as the column header, phiReport will not be able to apply any special column formating (column size, font, color) because that information is not available.

Created with the Standard Edition of HelpNDoc: Easily create iPhone documentation

## **Report Output**

Parameters Output Header/Footer Codes Preview	Raw Data Configuration		
Show Excel		Email (Save As must	be enabled)
Send to Printer Snagit 13	~	То	0
Save As		CC	0
Preview Saved Output		BCC	0
Save As Filename Tokens SaveAs filename can use the following replacement to	okens:	Subject	÷
TokenDescription%DATE%Today's Date%DD%2 Digit Day%MM%2 Digit Month%MM%3 Letter Month%YYY%2 Digit Year%YYYY%4 Digit Year%USER%Database Logged on User%PORT%Database Logged on Port%ACCOUNT%Database Logged on Account	Output MM-DD-YYYY DD MM Jan, Feb, Mar YY YYYY UserName	Zody	×

Select how to output the Excel report.

### Show Excel

When checked, the generated report is displayed as new Excel workbook.

### Send to Printer

Select this option to send the report to a printer.

Send to Printer	Microsoft XPS Document Writer	×	-

Click on the ellipsis button to reload the list of available printers and select one from the list. Printers must be installed as your local Windows print device. Any valid Windows printers can be used; local and network

### printers.

### Save As

Select this option to save the report to a file.

_			
	File name:		
	Save as type:	Excel 97-2003 (*.xls)	
		Excel 97-2003 (*.xls)	
		Excel Workbook (*.xlsx)	
		Web Page (*.htm;*.html)	
		text (Tab delimited)(*.txt)	
	<ul> <li>Hide Folders</li> </ul>	CSV (Comma delimited)(*.csv)	
		Formatted Text (Space delimited)(*.prn)	
۲	arameters Output	PDF (*.pdf)	
		XPS (*.xps)	
	Show Excel		
	Send to Printer	Microsoft XPS Document Writer	То
	Save As		CC
	Deraviow Saved O	utout	PCC

Click on the ellipsis button to open the "Save As" dialogbox. Enter a report name and select a file format. The Save As process automatically converts the saved file to the selected format. PDF format requires MS Excel 2010 or better or Excel 2007 with the PDF Add-in

### Preview Saved Output

This option is only enable when the Save As option is checked. When checked, the saved file is displayed after it's created.

### <u>Email</u>

The Email option requires the Save As option to be selected. The saved as file is sent with the email as an attachment. The email configuration is configured in <u>PRCONFIG</u>.

Created with the Standard Edition of HelpNDoc: Full-featured EBook editor

### **Report Pre/Post Query Processes**

Report Parameters Pre	e/Post Processes Output	Header/Footer Codes	Preview Raw Data	Configuration	Printed Form Parameters	5 D C
Pre-Query Process	<none></none>	~				^
						~
Post-Query Process	<none></none>	~				^
						~

### Pre-Query Process

Pre-Query Processes allow you to perform certain instructions before running the report query.

- 1. GET-LIST: enter the list name to "get". The query will run from the active list returned by GET-LIST.
- 2. SELECT: enter a SELECT statement to run before the query. The query will run from the active list returned by the SELECT.
- 3. SSELECT: Same as SELECT but with SORT
- 4. Execute a TCL Command: enter a TCL command to run. This can be a cataloged BASIC program or any valid TCL commands that do not require user prompts. If the command creates an active list it will be used by the query.
- 5. Shell to TCL and executes the commands and or run a cataloged BASIC program. This option suspends the GUI application before running the commands. Commands can have any number/type of user prompts. The GUI application is resumed once the commands are completed.
- 6. Post a GUI event: Trigger an AccuTerm GUI event to open a custom GUI form. The form must be an AccuTerm subroutine form.
  - Syntax: GUIAPP, GUIFRM, GUICTL, GUI Event, Apps file name Example: CompanySelect, FORM1,,Activate, DEMOAPPS
  - The demo program is in DEMOBP CompanySelect, CompanySelect.Util and DEMOAPPS

CompanySelect

Note: By default, phiReport expects the Pre-Query Process to return an active list. If no active list is return phiReport considers that there is no data to report against. To ignore this behavior enter the keyword "STOP" on the last line of the Pre-Query Process text area. This will tell phiReport to proceed with the report even if there's no active list. This is useful when using the Data Blob feature or phiForm.

### Post-Query Process

Post-Query Processes allow you to perform certain instructions after the query is run.

- 1. DELETE-LIST: Delete a saved list
- 2. SAVE-LIST: Save the active select list
- 3. Execute a TCL Command: enter a TCL command to run. This can be a catalog BASIC program or any valid TCL command.

Note 1: Pre and Post Query Processes support the %%@Totken%% notation to prompt the user to provide a value for the command. For example, if your command requires user input, you would enter it as follows:

SELECT CUSTOMER WITH NAME = "%%@Customer Name%%"

At runtime, the user will be prompted to provide the value for "Customer Name" See PRE and POST Operands for detail

📑 Que	ry for Discounts by Customer Id				-		
File R	in Tools Help						
$\odot$	🛛 🗊 🕕 🚽						
Query					Items per Page 100 🔽 🔾 🔾	$\sim$ D D	
Sele	ct Category Discount		V C Select Re	eport Discounts by Customer Id	Data Source DISC.EDIT	~ C	
	Field Name	Operator	Enter S	Search String			
PRE	Customer Id	Equals To					

PRQUERY will prompt for the token as part of the criteria list with the word "**PRE**" in column 1. The **Operator** selection has no effect in this case because it is defined in the Pre-Query Process.

Note 2: You may enter 1 or more command to be executed one after another in sequence. Each command must start a new line in the entry field.

Pre-Query Process	Execute TCL Command(s) 🗸	GET-LIST MYLIST SELECT CUSTOMER with custid = "%%@Customer Id%%" SELECT.ONCE	
		✓	

### Note 3: If the Pre-Query Process returns an error or no items, the report will not be created.

Created with the Standard Edition of HelpNDoc: News and information about help authoring tools and software

## **Report Security**

arameters Security	Output Header/Footer Co	des Preview Raw Data	a Configuration		
Exec	ute Priviledges	Update	Priviledges	Delete F	Priviledges
Allow All	Deny All	Allow All	Deny All	Allow All	Deny All
User Name	ID	User Name	ID	User Name	ID

This tab is only visible when <u>User Access Control</u> is enabled.

From this tab, you can set Execute, Update and Delete priviledges for your reports. By default, all users have full priviledges to all reports.

Note: The user that creates a report is automatically the owner of that report. The owner user name does not appear in the list of users.

Created with the Standard Edition of HelpNDoc: Full-featured EBook editor

## **Report Header/Footer**

Special Codes to use for the Exel Header and Footer.

	utput Treadent Obter Obdes	Preview Raw Data	Configuration		
			Header / Foo	ter Codes	
	Text Format Co	des			Codes to insert Data
Code Des	escription		C	ode	Description
&X         Tur           &Y         Tur           &B         Tur           &I         Tur           &U         Tur           &S         Tur           &Fontname         Print	urns double-underline printing o urns superscript printing on or off urns subscript printing on or off. urns bold printing on or off. urns underline printing on or off. urns strikethrough printing on o rints the characters that follow wo-digit font size to use, in poir	off. r off. in the specified font.	& & & & & & & & & & & & & & & & & & &	,D ,T ,F ,A ,P+number ,P-number ,& ,P-number ,& ,Pont ,N ,USER ,PORT ,ACCOUNT	Prints the current date. Prints the current time. Prints the name of the document. Prints the name of the workbook tab (the sheet name). Prints the page number. Prints the page number plus number. Prints the page number minus number. Prints the page number minus number. Prints the total number of pages in the document. Prints the database logged on User Prints the database logged on Port Prints the database logged on Account

Use these codes in the report header/footer. You can use any Excel supported codes.

Created with the Standard Edition of HelpNDoc: Full-featured Documentation generator

## **Preview Data**

Data preview tab displays the data from the query.

Parameters	Output	Header/Footer Codes	Preview	Raw Data	Conf	iguration		[ €	ύ 🗆 😋
ID	Descript	ion		Default Buy (	Cost	Default Sales Price	Supplier Names		Supplier
NRL144	Navy Ru	igedized Lining		31.83		34.74	Cargo Concept Partners Corp.		223
				31.83		34.74	***		
<									>

Depending on the query type, the preview output may not display the number of requested data sample. This is espcially true with multi-valued data through BY-EXP or with BREAK-ON clauses.

You can resize the column by dragging the border between two columns. If the "Auto Update Column Width" option is set in <u>PRCONFIG</u> the new column size is automatically updated in the Data View.

If the preview data appears to be incorrect, it is probably due to a field definition issue.

For example:

### SORT SALESORDER CUSTOMERNAME NUMBER PRODUCT BY NUMBER ID-SUPP

Page 1 salesorder	07:13:39 09 Oct 2017
Customer NameOrde	er Number Product
Label Design Dealers Corp.	1 WMF126
	PSB269
	0TS189
	BAF105
	BMG63
Glue Logistics Brokers Corp.	2 T3D31
	BTB186
	SFD191
	WSG258
	SMC22
	BSF100
Environmental Care Suppliers I nc.	3 KMC243
	ATS102
	STS281
	SMC226
	SFD191
	M3G245
	BSS259
	KDF178

The TCL output clearly shows that the PRODUCT column is multi-valued.

Below is the same query from phiReport preview. As you can see the display is incorrect. This is because field Product is not set as a multi-valued field.

Customer Name	Order Number	Product	
Label Design Dealers Corp.	1	WMF126	
PSB269			1
OTS189			1
BAF105			1
BMG63			1
Glue Logistics Brokers Corp.	2	T3D31	1
BTB186			1
SFD191			
WSG258			1
SMC22			
BSF100			1
Environmental Care Suppliers Inc.	3	KMC243	
ATS102			1
STS281			
SMC226			1
SFD191			1
M3G245			1
BSS259			
KDF178			1

	Column Editor
Field ID	PRODUCT
Field Name	Product
Туре	A V Attribute 4
Header	Product
Conversion	
Correlative	
Data Type	Alpha 🗸 Colur n Width 10
Field Type	○ Single Value  Multi-Value
MV Group	Line item 🗸

Set the Product field as multi-value, save the Data View and rerun the query. You may need to adjust the sort options to create the designed grouping.

Customer Name	Order Number	Product	
Label Design Dealers Corp.	1	BAF105	
Label Design Dealers Corp.	1	BMG63	
Label Design Dealers Corp.	1	OTS189	
Label Design Dealers Corp.	1	PSB269	
Label Design Dealers Corp.	1	WMF126	
Glue Logistics Brokers Corp.	2	BSF100	
Glue Logistics Brokers Corp.	2	BTB186	
Glue Logistics Brokers Corp.	2	SFD191	
Glue Logistics Brokers Corp.	2	SMC22	
Glue Logistics Brokers Corp.	2	T3D31	
Glue Logistics Brokers Corp.	2	WSG258	
Environmental Care Suppliers Inc.	3	ATS102	
Environmental Care Suppliers Inc.	3	BSS259	
Environmental Care Suppliers Inc.	3	KDF178	
Environmental Care Suppliers Inc.	3	KMC243	
Environmental Care Suppliers Inc.	3	M3G245	
Environmental Care Suppliers Inc.	3	SFD191	
Environmental Care Suppliers Inc.	3	SMC226	
Environmental Care Suppliers Inc	3	STS281	

To check if your data is multi-valued you can use the <u>Raw Data</u> tab to inspect your query results.

Created with the Standard Edition of HelpNDoc: Write EPub books for the iPad

## **Advanced Settings**

This setting allows selected reports to overwrite the default system settings.

Report Parameters Pre/Post Processes Ou	tput Header/Footer Codes	Preview	Raw Data Configu	iration Pi	rinted Form Parameters	🗹 🗆 😋
File Transfer Configuration						
Overwrite System Default						
File Transfer Engine O AccuTern	n 💿 phiReport					
Chunk Data 🗹 Chunk	Size 10000 records					

For example, data chunking is more efficient on large reports. The efficiency of the chunk size depends on the size of each record.

Created with the Standard Edition of HelpNDoc: Produce Kindle eBooks easily

### **Pre-Printed Forms**

eport Parameters Pre/Po	ost Processes Output	t Header/Footer Codes	Preview Raw Data	Configuration	Printed Form Parar	neters 🗹 🖸
Template Settings				Va	lue Pair Table	
Custom Template	\\FILESERVER\phiRe	eport.Templates\Demolnv	/oice.xls 😺	* 🖹 #	Name	Value
Main Sheet Name	Base Header			1	txtCases1	=PAGETOTAL({INVNO})
Footer 1 Sheet Name	Base Footer1	Footer 1 Rows 8		2	txtWeight1	=PAGETOTAL({QTY})
			Dedte Detter	3	txtRunningTotal1	=RUNNINGTOTAL({EXTPRICE})
Footer 2 Sheet Name	Base_Footer2	Footer 2 Rows 15	Pad to Bottom	4	txtCases2	=DOCTOTAL({INVNO})
Include Table Header	(When checked, th	e table header will be ad	Ided to the Custom Tem	plate) 5	txtWeight2	=DOCTOTAL({QTY})*txtCases2
	✓ Use Multi-Page Ma			6	txtGrandTotal2	=DOCTOTAL({EXTPRICE})
Sheets to Copy				7	txtPageTotal1	=PAGETOTAL({EXTPRICE})
Sheets to Copy				8	txtPageTotal2	=PAGETOTAL({EXTPRICE})
Macro Module						
Macro Source	Excel Macro File	○ VBA.Modules Item	n			
Macro Name			1	/ 🛄		
Function to Execute						
Function Parameters			~			
			~			
				<		

Printed Forms are non-columnar reports. Invoices, Purchase Orders, and Quotes are a few examples of Printed Forms type reports.

A printed form is comprised of 3 parts.

- 1. The header
- 2. The body
- 3. The footer

	В	С	D		Е		F	G	H I	
1	INV	ΟΙΟΕ								I
2				1						t
3		21	<b>Phi</b>							I
4			<b>-</b> I U	1-H	ea	Ider				ļ
6		SOLL	JTIONS	0.00						ł
7					[	Remit To		Invoid	e Number	ł
8						3phi Solutions	Inc		80	ł
9		Customer In	ic.			123 Mains S		When Rei	mitting Please	t
10	Bill	114 West St	reet			CA 92123			bove Number	I
11	То									ļ
12						Customer Bill To No.	Store Nu	mber	Invoice Date	ł
13 14		lacquelyn P				189	56	9 0	2/04/2019	ł
15	Ship	Jacquelyn B							2,01,2013	ł
16	То									t
17										l
18	Broker Code 569	Broker and/o	or Salesman Nam	e Jacquelyn Brov	vn		C	ustomer Order N 80		l
		Date of Invoice	S	hip From	Ship V		F.O.B.	Plant - Freight Pre		I
19		30 Day		Plant 01		UPS		FOB		I
20	Stock #	Supplier Code	Product Cod	PRODUCT	DESC	RIPTION	Qty	Unit Price	Ext.Price	t
21	1		BAF105	Black Adjustable Fi			4	102.86	411.44	
22	1		OTS189	Orange Translucen			3	76.68	230.04	l
23	1		WMF126	White Mu 2 Brown Mu 2 Brown Mu	00	Ň.	1	28.39	28.39	ł
24 25	1		BMG63 PSB269	Peach Single Brace	-	9 t	4	88.73 37.26	354.92 149.04	ł
26	2		SMC22	Silver Multi-way Cl			6	62.95	377.70	ł
27	14		OCD163	Orange Compact D			9	90.18	811.62	ł
28	14	271	PCP148	Peach Compact Pu			2	11.89	23.78	
29	Cases						Weight	Page Total	2,386.93	Į
30	35						33	Running Total	2,386.93	ļ
31				3-Fo	oot	er		Discount	100.00	ł
32				TOTALS				Freight	123.45	ł
33								Tax Rate %	7.50	ł
34								Tax Amount	180.78	ł
35								Credit	130.00	ł
36	Diaman di	and a dealer of the		diamond and	-11-	to converse		Total Invoice	2,461.16	ł
38 39				discount earned on du ions represent shortag						ł
40		opy of signed								ţ
41 42				0.0		A1	Due On:	2/6/2010		ł
42				OR	IGIN/	4L	Due On.	3/6/2019		ł
4.4										

## **Template Settings**

Printed Forms require you create an Excel template to apply to the report.

## Custom Template

Path and name of the template to use. A template is a standard Excel workbook. It can contain images, shapes... Each report can use up to three template sheets within your workbook template file. The sheets are described below.

## Main Sheet Name

Name of the sheet to use as the page header. This header is repeated on every page of your report.

## Footer 1 Sheet Name

Name of the sheet that contains the Footer 1. Footer 1 are footers used on all pages except the last page. Typically, this footer would contain information such as "Continue on next page", the running total, etc...

## Footer 1 Rows

The number of rows used as Footer 1 in the template sheet.

## Footer 2 Sheet Name

Name of the sheet that contains the Footer 2. Footer 2 is the footer used on the last page of the report. Typically, this footer would contain information such as the document total, payment terms, etc...

### Footer 2 Rows

The number of rows used as Footer 1 in the sheet

## Pad to Bottom

Check this box to add blank rows between the last data row and the top of the last page footer.

### Include Table Header

When checked, the table header will be added on the Custom Template.

### Multi-Page Template

Multi-Page Template allows Excel to create "intelligent" paging when complex footers are used. The Multi-Page template includes instructions to create page footers when printing the printed report.

### Sheets to Copy

If your template requires additional sheets to be copied to the final report, enter the names of the sheets to be copied. Separate multiple sheets with semi-colon.

### Value Pair Table

This table allows you to create data and object reference between the table and your report. In Excel you can name an object (shape) or a cell. In order to pass data from the report to Excel, you need to name each Excel element that will receive data.

The value in the pair can be hard-coded in the table or returned via a pre-query process. The value type can be any standard Excel string or an Excel formula.

Created with the Standard Edition of HelpNDoc: Full-featured Documentation generator

## Form Template

A Form template is an Excel workbook with 3 sheets.

- 1. The Main sheet contains the header section which is repeated on every page.
- 2. The Footer 1 sheet contains the footer that is repeated on every page except the last page. Single page reports do not use this footer.
- 3. The Footer 2 sheet contains the footer that is printed on the last page of the report and shown at the bottom of the final Excel report within the Excel environment.

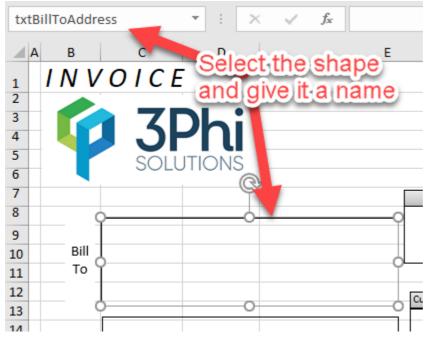
If only 1 footer is defined, it will be used for all footers.

### Main sheet:

Create the layout of your template per your requirements. Add logo, column headers, Excel objects, etc.

A	В	С	D		E	F	G	н	I J	K	
1	INV	ΟΙΟΕ	-								
1 2	114 0	0101	•								-
3											-
4	- 🦰	Comn	anv								
5		Comp	any								
6											
7					Remit To		Invoi	ce Number			
8					Company In	с.		0			
9					123 Mains S		When Re	mitting Please			
10	Bill				Irvine, CA 921	123	Refer to /	Above Number			
11	То										
12					Customer Bill To No.	Store N	umber	Invoice Date			-
13						0		0			-
14 15	Ship							0			-
16	То										-
17											
	Broker Code	Broker and/	or Salesman Nam	e			Customer PO Nur	mber			
	0			0			(	)			
	Terms From I	Date of Invoice O	Sł	nip From O	Ship VIA O						
19											
20	Stock #	Class	Product Code	PRODUCT	DESCRIPTION	Qty	Unit Price	Ext.Price			_
21											-
22											-
23 24											-11
24											
2.5											-
4		Base_Head	er Base_F	ooter1 Base_Foot	ter2 🕂 🕂						Þ

Headers can include "Shape" objects which are floating objects in Excel. To pass data to these shapes, you need to name them in Excel.



Note: Shapes are not supported in Footer 1 and Footer 2.

## Footers

Because footers are placed at the bottom of each page, they must have the same number of columns and each column should have the same width as the ones defined in the Main sheet.

# Footer 1 sheet

A	В	С	D	E	F	G	н	J	
1	Cases			TOTALS	Page Qty	Page Total	txtPageTotal1		
2	txtCases1			TOTALS	xtWeight	Running Total	tRunningTotal1		
4	Please not	e any deductio	ns other than (	liscount earned on duplicate copy and					
5	return with	n Remittance. S	hould deducti	ons represent shortages or damages,					
6	enclose a d	copy of signed	delivery receip	t.					
7				ORIGINAL	Due On:	txtDueOn1			
8									
9									
10									
									1
4	) - F	Base_Head	er Base_Fo	oter1 Base_Footer2 (+)		4			Þ

Excel Cells can also be named. Select a Cell and enter a name where its coordinate appears. Press enter to validate the name. (Clicking out of the field without pressing enter will not validate the name)

txt	Click on the
4	Cell and enter
1	Cases TOTALC
2	a name TOTALS
4	Please note any deductions other than discount earne
4 5	Please note any deductions other than discount earne return with Remittance. Should deductions represent
4	
4 5	return with Remittance. Should deductions represent

# Footer 2 sheet

A	В	С	D	E	F	G	Н	J	
3						Discount	txtDiscount		
4						Freight	txtFreight		
5				TOTALS		Tax Rate %	txtTaxRate		
6						Tax Amount	#VALUE!		
7						Credit	txtCredit		
8						Total Invoice	#VALUE!		
10	Please not	te any deductio	ons other than (	discount earned on duplicate copy and	_				
11	return wit	h Remittance.	Should deducti	ons represent shortages or damages,					
12	enclose a	copy of signed	delivery receip	it.					
13									
14				ORIGINAL	Due On:	txtDueOn2			
15				01101012					
16									
47									
-	E.	Base_Head	ler Base_Fo	ooter1 Base_Footer2  (+)		4			Þ

# Enter formula as required

txt	FaxAmount	t2	- + E - 2	< 🗸 j	£∞ =(H2-H	3+H4)*(H5/100	)		
	в	С	D		E		F	G	H I
3								Discount	txtDiscount
4				TOTAL	·			Freight	txtFreight
5				ΤΟΤΑΙ			100	Tax Rate %	txtTaxRate
6						l can ent	and the second se		#VALUE!
7					forr	nula in a	ny cells	Credit	txtCredit
8								Total Invoice	#VALUE!
10	Please not	e any deducti	ons other than	discount ear	ned on duplic	ate copy and			
11	return with	h Remittance.	Should deduct	ions represer	nt shortages o	r damages,			
12	enclose a	copy of signed	d delivery recei	pt.					
13									
14 15					ORIGIN	AL	Due On:	txtDueOn2	

## Naming the shapes and cells will allow you to place data in them using the Value-Pair table.

Created with the Standard Edition of HelpNDoc: Free EBook and documentation generator

# **Value Pair**

The Value-Pair table is used to place data in the named shapes and cells. To assign data to a name object (shape or cell),

Report Parameters Pre/Po	ost Processes Ou	utput Header/Footer Codes	Preview Raw Data	Configuratio	on Printed Fo	orm Parameters	🕑 🗆 🧲
Template Settings					Value Pair Tab	ble	
Custom Template				>	# Name	Value	
Main Sheet Name					ShapeNa	me ShapeValu	le
Footer 1 Sheet Name		Footer 1 Rows					_
Footer 2 Sheet Name		Footer 2 Rows	Pad to Bottom				
Include Table Header	(When checked	I, the table header will be add	led to the Custom Tem	plate)			
Multi-Page Template	🗌 Use Multi-Page	Macro Template					
Macro Module							
Macro Source	Excel Macro Fi	le OVBA.Modules Item					
Macro Name			6	> 🛄			
Function to Execute							
Function Parameters			^				
			~	/			

Column "Name" in the Value-Pair table holds the shape/cell name as defined on your template Column "Value" in the Value-Pair table holds the value to enter in the shape/cell. Values can be regular strings or Excel formula.

phiReport implements non-Excel functions that can be used as Values in the Value-Pair table.

Valu	ie Pair Table		
#	Name	Value	
1	txtCases1	=PAGETOTAL({ORDERNO})	
2	txtWeight1	=PAGETOTAL({QTY})	
3	txtRunningTotal1	=RUNNINGTOTAL({ExtPrice})	
4	txtCases2	=DOCTOTAL({ORDERNO})	
5	txtWeight2	=DOCTOTAL({QTY})*txtCases2	
6	txtGrandTotal2	=DOCTOTAL({ExtPrice})	
7	txtPageTotal1	=PAGETOTAL({ExtPrice})	
8	txtPageTotal2	=PAGETOTAL({ExtPrice})	

Curley braces are used to specify a DICT item.

PAGETOTAL : Sum up data defined by {DICT} on the current page RUNNINGTOTAL : Sum up data defined by {DICT} of all previous pages and the current page DOCTOTAL : Sum up data defined by {DICT} of all pages

In addition to the above phiReport functions, you can use any Excel compatible functions.

Value-Pair can also be returned from a BASIC program.

In your Pre-Query process program, add the COMMON below

## COMMON /USERVAR/ USERDATA

Add data to USERDATA where USERDATA<1,X,1> = Name and USERDATA<1,X,2> = Value

USERDATA2 = ""		
USERDATA2<1,1,1> = "txtBillToAddress"	;	USERDATA2<1,1,2> = BillTo
USERDATA2<1,2,1> = "txtShipToAddress"	;	USERDATA2<1,2,2> = ShipTo
USERDATA2<1,3,1> = "txtInvoiceNumber"	;	USERDATA2<1,3,2> = OrderNo
USERDATA2<1,4,1> = "txtBillToNo"	;	USERDATA2<1,4,2> = CustID
USERDATA2<1,5,1> = "txtStoreNumber"	;	USERDATA2<1,5,2> = ContactID
USERDATA2<1,6,1> = "txtInvoiceDate"	;	USERDATA2<1,6,2> = OCONV(DATE(),"D4/")
USERDATA2<1,7,1> = "txtBrokerCode"	;	USERDATA2<1,7,2> = ContactID
USERDATA2<1,8,1> = "txtBrokerName"	;	USERDATA2<1,8,2> = ContactName
USERDATA2<1,9,1> = "txt0rderNumber"	;	USERDATA2<1,9,2> = OrderNo
USERDATA2<1,10,1> = "txtTerms"	;	USERDATA2<1,10,2> = "30 Day"
USERDATA2<1,11,1> = "txtShipFrom"	;	USERDATA2<1,11,2> = "Plant 01"
USERDATA2<1,12,1> = "txtShipVia"	;	USERDATA2<1,12,2> = "UPS"
USERDATA2<1,13,1> = "txtFOB"	;	USERDATA2<1,13,2> = "FOB"
USERDATA2<1,14,1> = "txtDueOn1"	;	USERDATA2<1,14,2> = OCONV(DATE()+30, "D4/")
USERDATA2<1,15,1> = "txtDueOn2"	;	USERDATA2<1, 15, 2> = OCONV(DATE()+30, "D4/")
USERDATA2<1,16,1> = "txtFreight2"	;	USERDATA2<1,16,2> = 123.45
USERDATA2<1,17,1> = "txtDiscount2"		USERDATA2<1,17,2> = 34.56
USERDATA2<1,18,1> = "txtTaxRate2"		USERDATA2<1,18,2> = $7.5$
USERDATA2<1,19,1> = "txtDiscount2"		USERDATA2<1,19,2> = 100.00
USERDATA2<1,20,1> = "txtCredit2"		USERDATA2<1,20,2> = 130.00
USERDATA<1,-1> = USERDATA2		

To add a Line Feed to data, enter "<lf>" in the string to return.

Created with the Standard Edition of HelpNDoc: Free Web Help generator

# JSON



JSON (JavaScript Object Notation)

This feature requires the pts4rest service (sold as a separate product).

Use phiReport to create your JSON data format and generate JSON documents. Multi-value and sub-value data are automatically formated in nested JSON objects. Use your dictionary to format the output, all dictionary types are supported including subroutine calls.

JSON Request: http{s}://{phirest service domain}/phirest/api/{your account}/phireport/query/**json**/Orders\_by\_Customer?**sample**=200&{query options} JSON output:

```
"OrdersbyCustomer": [
   " id": "102",
   "OrderNumber": "102",
   "Customer": "51",
   "CustomerName": "Stationery Handling Merchants Inc.",
   "DatePlaced": "12 Jan 2017",
    "TimePlaced": "17:27:55",
    "SalesLinePrice": "286.44",
   "Urgent": "0",
   "Orders_by_Customer_Lineitem": [
       "Product": "AAS198",
       "ProductDesc": "Amber Adjustable Sleeve",
       "SalesUnitPrice": 113.45,
       "Qty": 8
       "Product": "KAT248",
       "ProductDesc": "Khaki Adjustable Tube",
       "SalesUnitPrice": 43.26,
       "Qty": 3
       "Product": "MSC143",
       "ProductDesc": "Maroon Small Cylinder",
       "SalesUnitPrice": 40.92,
       "Qty": 7
```

Example using Google Sheets

ē r	→ 100% -	\$ % .0	00_123 - Arial - 10 - B	" <u>5</u> <u>A</u> <sub>▼</sub> <u>≫</u> <sub>→</sub> <u>→</u> <u>→</u> <u>→</u> <u>→</u> More <sub>▼</sub>	*	+ Explore
=Import	tJSON <b>(</b> "http://{pts4		pts4rest/api/{your_account}/xlreport/que	ry/json/Orders_by_Customer?sample=200",""	."")	For A1:L61
А	в	С	DE	F		Count of Orders By Customer Lineitem Qty
ld	Ordernumber	Customer	Customername Dateplaced	Timeplaced	Saleslineprice	2 8
102	102	51	Stationery Handling Merchant 12 Jan 2017	17:27:55	286.44	2
112	112	136	Printing Renovation Group Cc 21 Jan 2017	16:19:09	124.60	E E E E E E E E E E E E E E E E E E E
125	125	46	Baking Development Services 19 Jan 2017	16:48:24	652.32	
127	127	112	Coal Framework Merchants C 06 Jan 2017	09:34:32	129.16	
158	158	58	Coal Rental Dealers Corp. 22 Jan 2017	10:20:32	333.54	5
162	162	8	Engineering Finance Retailers 04 Jan 2017	12:22:43	660.96	B Construction of the second s
206	206	117	Guttering Logistics Center Inc 29 Jan 2017	09:35:49	61.96	
207	207	15	Mouldings Finance Dealers C 18 Jan 2017	09:40:08	541.20	
213	213	187	Kitchen Renovation Associate 27 Jan 2017	17:52:30	83.28	Count of Orders By Customer Linei
22	22	7	Display Cooperative Center C 03 Jan 2017	08:44:09	254.94	
225	225	75	Drainage Repair Resellers Inc 10 Jan 2017	12:44:08	1242.81	"6" has the highest value for "Orders By
240	240	34	Chimney Handling Services Ir 24 Jan 2017	16:20:18	228.05	Customer Lineitem Qty" (13).
256	256	138	Futon Finance Associates Co 15 Jan 2017	16:31:53	482.30	
259	259	58	Coal Rental Dealers Corp. 29 Jan 2017	17:22:39	257.40	
27	27	52	Futon Formation Center Inc. 04 Jan 2017	08:50:24	514.20	Or wat of Orders Du Outbarrow Line Harr Oh
273	273	196	Health Finance Brokers Corp. 27 Jan 2017	17:16:21	429.35	Count of Orders By Customer Lineitem Qty
292	292	59	Plastering Concept Services I 08 Jan 2017	13:21:49	578.76	
305	305	150	Fish Formation Consultants Ir 06 Jan 2017	13:20:16	124.50	
345	345	124	Milking Leasing Specialists C(29 Jan 2017	16:33:08	514.08	
423	423	184	Knitwear Framework Retailers 11 Jan 2017	13:28:45	872.64	
424	424	124	Milking Leasing Specialists C(03 Jan 2017	09:47:03	1158.30	
426	426	132	Freight Finance Wholesalers 29 Jan 2017	15:22:29	177.06	
434	434	33	Refridgeration Finance Outlet 29 Jan 2017	16:22:12	144.97	
454	454	102	Demolition Concept Group Cc 25 Jan 2017	14:03:32	22.44	
463	463	163	Furniture Helpline Partners C(10 Jan 2017	16:01:59	387.48	
464	464	154	Solarium Helpline Consultants 19 Jan 2017	17:48:13	43.77	
493	493	63	Livestock Delivery Specialists 25 Jan 2017	10:24:11	535.25	
505	505	149	Boating Logistics Agency Cor 18 Jan 2017	13:41:15	1038.42	Count of Dateplaced
542	542	145	Paper Renovation Brokers Inc 07 Jan 2017	12:08:22	789.18	12 Jan
543	543	152	Golf Repair Outlet Corp. 12 Jan 2017	11:23:19	81.44	19 Jan 22 Jan
568	568	20	Steelworking Helpline Special 13 Jan 2017	16:05:33	576.90	27 Jan
575	575	122	Lighting Management Experts 17 Jan 2017	12:17:32	362.40	27 Jan 10 Jan
59	59	189	Conservatory Finance Contra 11 Jan 2017	09:06:18	865.92	0 10 Jan. 0 15 Jan. 11 Jan. 1 Jan. 1 Jan. 0 7 Jan.
601	601	193	Tobacco Formation Contracto 28 Jan 2017	13:09:17	175.04	07 Jan     17 Jan     01 Jan

 $^{\times}$ 

ImportJSON(url, query, options)

### Example

ImportJSON(Object, Object, Object)

### Summary

Imports a JSON feed and returns the results to be inserted into a Google Spreadsheet. The JSON feed is flattened to create a two-dimensional array. The first row contains the headers, with each column header indicating the path to that data in the JSON feed. The remaining rows contain the data. By default, data gets transformed so it looks more like a normal data import. Specifically: - Data from parent JSON elements gets inherited to their child elements, so rows representing child elements contain the values of the rows representing their parent elements. - Values longer than 256 characters get truncated. - Headers have slashes converted to spaces, common prefixes removed and the resulting text converted to title case. To change this behavior, pass in one of these values in the options parameter: noInherit: Don't inherit values from parent elements noTruncate: Don't truncate values rawHeaders: Don't prettify headers noHeaders: Don't include headers, only the data debugLocation: Prepend each value with the row & column it belongs in For example:

=ImportJSON("http://gdata.youtube.com/feeds/api/standardfe eds/most\_popular?v=2&alt=json",

"/feed/entry/title,/feed/entry/content",

"noInherit,noTruncate,rawHeaders")

### Example using Microsoft Power BI

	Home	Transfo	orm	Add Column	View											$\sim$
se &	New Source	Recent Sources +	Enter Data	Data source settings	Manage Parameters •	Refresh Preview *	Properties	Choose Columns	Remove Columns -	Keep Remove Rows • Rows •				e: Text ▼ First Row as Headers ▼ ace Values	Merge Que Append Que Combine Fi	ieries 🔻
lose		New Query		Data Sources	Parameters		Query	Manage	Columns	Reduce Rows	Sort		Transfo	rm	Combine	
	- [1]			ABC		ABC		ABC			ABC		ABC .	0		
uerie	s[I]		<	ABC Value.	UrderNumber	123 Va			stomerName		123 Va 12 Jan		- ABC 123	Query Settings		×
Ord	ers by Ci	ustomer?sa	m   .	2 102		51			ndling Merch		12 Jan 12 Jan		1	▲ PROPERTIES		
						51			ndling Merch		12 Jan		1	Name		
				4 112		136			vation Group		21 Jan		1	Orders by Custom	er?sample=200	
						136		-	vation Group		21 Jan		1	- /-	er sample 200	
						136			vation Group		21 Jan		1	All Properties		
				7 112		136			vation Group		21 Jan		1	▲ APPLIED STEPS		
				3 112		136	1	Printing Rend	vation Group	Corp.	21 Jan	2017	1	Source		¥
			9	9 112		136		Printing Rend	vation Group	Corp.	21 Jan	2017	1	Converted to T	able	
			1	0 112		136		Printing Rend	vation Group	Corp.	21 Jan	2017	1	Expanded Valu	e	
			1	1 112		136	1	Printing Rend	vation Group	Corp.	21 Jan	2017	1	Expanded Valu	le1	¥
			1	2 125		46	1	Baking Devel	opment Servic	es Inc.	19 Jan	2017	1	🗙 Expanded Valu	e.Orders_by_C	
			1	3 125		46		Baking Devel	opment Servic	es Inc.	19 Jan	2017	1	Value1		
			1	4 125		46		Baking Devel	opment Servic	es Inc.	19 Jan	2017	1			
			1	5 125		46	1	Baking Devel	opment Servic	es Inc.	19 Jan	2017	1			
			1	6 127		112		Coal Framew	ork Merchant	Corp.	06 Jan	2017	0			
			1	7 127		112			ork Merchant	1.1	06 Jan	2017	0			
				8 127		112			ork Merchant		06 Jan	2017	0			
			1	9 127		112		Coal Framew	ork Merchants	Corp.	06 Jan	2017	0.~			

These documents in conjunction with the pts4rest RESTfull service can be consumed by any remote clients (desktop apps, web apps, mobile apps and any REST data consumer...) through standard HTTP/HTTPS calls.

JSON limitation:

- JSON data is read-only. JSON update is only supported with the OData.
- JSON does not define a query structure or format, all query functions are proprietary to phiReport.

Created with the Standard Edition of HelpNDoc: iPhone web sites made easy

# **OData**



<u>OData</u> (Open Data Protocol) is an ISO/IEC approved, OASIS standard that defines a set of best practices for building and consuming RESTful APIs. OData uses the JSON data format

This feature requires the phiRest service (sold as a separate product).

Use phiReport to create your OData feeds. Multi-value and sub-value data are automatically formated in OData nested JSON objects. Use your dictionary to format the output, all dictionary types are supported including subroutine calls.

Unlike JSON, OData implements a full database type query language and supports data updates. In short, OData is a the "new" standard way to distribute your Pick MV data to the rest of the world. OData consumers do not need to understand the underlying structure of your database.

phiReport implements OData version 4 for query and updates.

OData Request: http{s}://{phirest service domain}/phirest/api/{your account}/phireport/query/**odata**/Orders\_by\_Customer?**\$top=**200&{query options} OData output:



Sample generated OData metadata:

```
w<edmx:Edmx xmlns:edmx="http://docs.oasis-open.org/odata/ns/edmx" Version="4.0">
  w<edmx:DataServices>
   w<Schema xmlns="http://docs.oasis-open.org/odata/ns/edm" Namespace="pts4oData">
     > <EntityType Name="Product_List">...</EntityType>
     <EntityType Name="Customer_List">...</EntityType>
     w<EntityType Name="Orders_by_Customer">
       ▼<Key>
          <PropertyRef Name="_id"/>
        </Key>
        <Property Name="_id" Type="Edm.String" Nullable="false"/>
        <Property Name="BuyLineCost" Type="Edm.Decimal" Nullable="true"/>
        <property Name="BuyTotalCost" Type="Edm.Decimal" Nullable="true"/>
        <Property Name="Customer" Type="Edm.String" Nullable="true"/>
        <Property Name="CustomerName" Type="Edm.String" Nullable="true"/>
        <Property Name="DatePlaced" Type="Edm.String" Nullable="true"/>
        <property Name="OrderNumber" Type="Edm.String" Nullable="true"/>
        <Property Name="SalesLinePrice" Type="Edm.String" Nullable="true"/>
        <property Name="SalesTotalPrice" Type="Edm.Decimal" Nullable="true"/>
        <Property Name="TimePlaced" Type="Edm.String" Nullable="true"/>
        <Property Name="Urgent" Type="Edm.String" Nullable="true"/>
        <Property Name="Orders_by_Customer_Lineitem" Type="Collection(pts4oData.Orders_by_Customer_Lineitem)"/>
      </EntityType>
     <EntityType Name="Product_Suppliers_List">...</EntityType>
     <EntityType Name="Product_By_Supplier_Name">...</EntityType>
     <ComplexType Name="Product_List_supplier_group" OpenType="true">...</ComplexType>
     <ComplexType Name="Customer_List_mvGroup_1" OpenType="true">...</ComplexType>
     >...</ComplexType Name="Customer_List_Type" OpenType="true">...</ComplexType>
     w<ComplexType Name="Orders_by_Customer_Lineitem" OpenType="true">
        <property Name="BuyUnitCost" Type="Edm.Decimal" Nullable="true"/>
<Property Name="Delivered" Type="Edm.String" Nullable="true"/>

        <Property Name="DeliveryDate" Type="Edm.String" Nullable="true"/>
        <Property Name="DeliveryQty" Type="Edm.Decimal" Nullable="true"/>
        <Property Name="DeliveryType" Type="Edm.String" Nullable="true"/>
        <property Name="Product" Type="Edm.String" Nullable="true"/>
        <Property Name="ProductDesc" Type="Edm.String" Nullable="true"/>
        <Property Name="Qty" Type="Edm.Decimal" Nullable="true"/>
        <Property Name="SalesUnitPrice" Type="Edm.Decimal" Nullable="true"/>
        <Property Name="Supplier" Type="Edm.String" Nullable="true"/>
        <Property Name="SupplierName" Type="Edm.String" Nullable="true"/>
      </ComplexType>
     w<ComplexType Name="Product_Suppliers_List_supplier_group" OpenType="true">
        <property Name="SupplierNames" Type="Edm.String" Nullable="true"/>
        <Property Name="Suppliers" Type="Edm.String" Nullable="true"/>
      </ComplexType>
     w<ComplexType Name="Product_By_Supplier_Name_supplier_group" OpenType="true">
        <Property Name="SupplierNames" Type="Edm.String" Nullable="true"/>
        <Property Name="Suppliers" Type="Edm.String" Nullable="true"/>
      </ComplexType>
     w<EntityContainer Name="Container">
        <EntitySet Name="Product_List_db" EntityType="pts4oData.Product_List"/>
        <EntitySet Name="Customer_List_db" EntityType="pts4oData.Customer_List"/>
        <EntitySet Name="Orders_by_Customer_db" EntityType="pts4oData.Orders_by_Customer"/>
        <EntitySet Name="Product_Suppliers_List_db" EntityType="pts4oData.Product_Suppliers_List"/>
        <EntitySet Name="Product_By_Supplier_Name_db" EntityType="pts4oData.Product_By_Supplier_Name"/>
      </EntityContainer>
     </Schema>
   </edmx:DataServices>
 </edmx:Edmx>
```

Example using Microsoft Power BI

# Get Data

All	
	Web
File	SharePoint list
Database 🗄	OData Feed
Azure 🍪	Active Directory
Online Services	Microsoft Exchange
Other 🔶	Hadoop File (HDFS)
\$	Spark (Beta)
*	R script
*	ODBC
	OLE DB
	Blank Query

Connect Cancel

10

11

# $\Box \times$

L.

# Navigator

	٩
Display Options *	
▲ 🖶 http://l t/pts4rest	/api/xlreport.demo/xlreport/query/Odata/ [5]
✓ 🆽 Customer_List_db	
✓ 🖽 Orders_by_Customer_db	
🗌 🌐 Product_By_Supplier_Name_db	
Product_List_db	
Product_Suppliers_List_db	

Customer\_List\_db Preview downloaded on Friday \_id Name 1

 $\times$ 

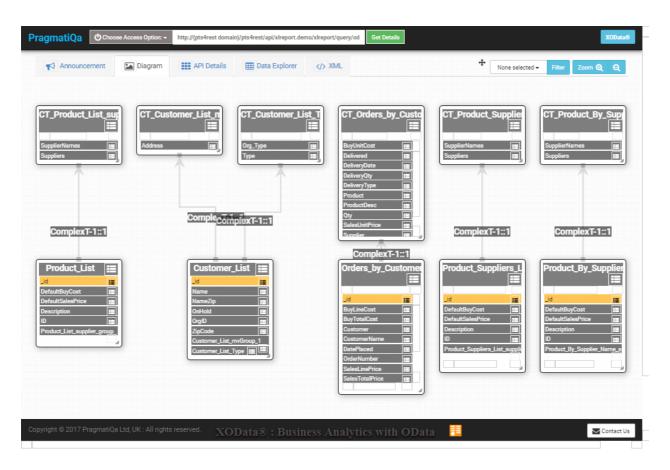
#### NameZip Lubricant Logistics Outlet Inc. ^ Games Servicing Merchants Corp. 100 Pine Formation Consultants Inc. 101 Knitwear Repair Agency Inc. 102 Demolition Concept Group Corp. 103 Racing Design Solutions Corp. 104 Footwear Management Dealers Corp. 105 Zinc Concept Retailers Corp. Painting Leasing Dealers Inc. 106 r 107 Milking Cooperative Solutions Corp. r 108 Conservatory Logistics Outlet Inc. r 109 Concrete Helpline Wholesalers Corp. r Irrigation Renovation Wholesalers Inc. r 110 Shutter Helpline Dealers Corp. r 111 Fish Care Wholesalers Corp. r Coal Framework Merchants Corp. r 112 Cooking Delivery Contractors Inc. 113 r 114 Ventilation Delivery Agency Corp. r 115 Refridgeration Handling Consultants Inc. r 116 Hair Logistics Center Corp. r 117 Guttering Logistics Center Inc. r ~ 118 Exhibition Installation Brokers Corp. < >

Select Related Tables

OK Cancel

📘 🙂 👻 🚽 🛛 Untitled - Q											
Home Transform	Add Column	View					AI				
			Advanced E	ditor				<u> </u>	Data Type: T	ext ▼ t Row as Headers	S ▼ Append Queries ▼
& New Recent En Source Sources Da	ter Data source ata settings	Manage Parameters <del>*</del>	Refresh Preview • III Manage •	Choose Columns •	Remove K	eep Remove	A¥ Split Column	Group 1	2 Replace		Combine Files
New Query	Data Sources	Parameters	Query	Manage		Reduce Rows	Sort	by	Transform		Combine
							_				
ries [5] <		1.2 Default			A <sup>B</sup> <sub>C</sub> Description		✓ A <sup>B</sup> <sub>C</sub> ID		duct_List_sı	u Query Set	ttings
Product_Suppliers_List_db	1 B3F91 2 B4C79		3.75 67.47		Blue 3-Way Fas		B3F91 B4C79	List	~	▲ PROPERT	165
Product_List_db (4)	3 B4S34		37.03		Bronze 4-Way		B4C73 B4S34	List	_	Name	ies
Product_By_Supplier_Nam	4 BAB3		65.1	79.08	Beige Adjustab	le Barrel	BAB3	List		Product_	List_db (4)
 Drders_by_Customer_db (4)	5 BAC260		59.75	78.56	Brown Amalgar	mated Crank	BAC260	List		All Proper	<u>ties</u>
Customer_List_db (4)	6 BAF105		76.8		Black Adjustabl		BAF105	List		A APPLIED	CTEDC
	7 BAF151		45.31 97.68		Blue Adjustable	-	BAF151 BAS212	List			
	8 BAS212 9 BAS215		53.58		Beige Adjustab Blue Amalgama		BAS212 BAS215	List List		Source X Navig	
	10 BCB98		65.8		Bronze Compa		BCB98	List		, chung	Juton
	11 BDP169		17.16	25.74	Bronze Double	-jointed Pouch	BDP169	List			
	12 BFF211		70.56	100.3	Black Fixed Fas	tener	BFF211	List			
	13 BFH202		6.76		Bronze Fixed H		BFH202	List			
	14 BLF139		67.2		Black Large Fas		BLF139	List			
	15 BLP227 16 BMG63		49.99 62.97		Bronze Large P Brown Multi-w		BLP227 BMG63	List List			
	17 BMP87		62.6		Bronze Mediun		BMP87	List			
	18 BMS114		40.47		Beige Medium		BMS114	List			
	19 BMS251		87.43	96.85	Brown Multi-w	ay Spout	BMS251	List			
	20 BMS300		34.53		Blue Medium S		BMS300	List			
	21 BOD118		96.97		Blue Over-sized		BOD118	List			
	22 BPC263 23 BPC58		99.9 84.97		Beige Pressuriz Beige Pressuriz		BPC263 BPC58	List			
	23 BPC58 24 BPJ288		61.66		Beige Pressuriz		BPU38 BPJ288	List			
	25 BRC55		65.24		Blue Regular Co		BRC55	List			
	26 BRC96		25.75	33.9	Black Rugedize	d Connector	BRC96	List	~	·	
	27 <								>		
Home Mod ⊌ Cut	ntitled - Power BI [ eling		Refresh Solution	Partner Neu		Text box Image	From From	Mapa		New Measure	91 <b>0</b> 2
Home Mod K Cut Cut Cut Copy Format Painter	ntitled - Power BI [ eling Get Recent E ata × Sources × D	nter Queries	Templates	Partner Nev Showcase Page	v New Visual 🐼	Image Shapes 🗸	From From Store File	Mana Relation	ge ships	New Column	- C Sign in Publish
Home Mod Home Gopy	ntitled - Power BI [ eling Get Recent E ata × Sources × D	nter Edit		Partner Nev Showcase Page	v New	Image Shapes 🗸	From From	Mana	ge ships		- D Sign in
Home Mod K Cut Cut Cut Copy S Format Painter	ntitled - Power BI [ eling Get Recent E ata × Sources × D	nter Queries	Templates	Partner Nev Showcase Page	v New Visual 🐼	Image Shapes 🗸	From From Store File	Mana Relation	ge ships	New Column	- C Sign in Publish
Home Mod K Cut Cut Cut Copy Format Painter	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	nter ata ernal data	Templates	Partner Nev Showcase Page	v New Visual 🐼	Image Shapes 🗸	From From Store File Custom visuals	Mana Relation Relation	ge ships	New Column	- C Sign in Publish
Home Mod Home Mod Cut Chipboard Painter Clipboard Jid BuytineCc	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Cueries trnal data	CustomerName Stationery Handling N	Partner Showcase urces	New Visual Insert	Image Shapes ~ OrderNumb 102	From From Store File Custom visuals ber SalesLine 286.44	Mana Relation Relation	ge ships ships	New Column	- C Sign in Publish Share
Home Mod Home Mod Cut En Copy Format Painter D Clipboard M Lid BuyLineCc 102	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	treral data t Customer 51 136	CustomerName Stationery Handling N Printing Renovation G	Partner Showcase urces	V New Visual Q Insert	Image Shapes * OrderNumt 102 112	ber SalesLine 286.44 124.60	Mana Relation Relation	ge ships ships	New Column Calculations Fields	- C Sign in Publish Share
Home Mod Home Mod Cut En Copy Format Painter p Clipboard Ju2 112 125	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	therefore the second se	CustomerName Stationery Handling M Printing Renovation G Baking Development	Partner Showcase urces Verchants Inc. aroup Corp. Services Inc.	V New Visual Q Insert DatePlaced 12 Jan 2017 21 Jan 2017 19 Jan 2017	Image Shapes ~ OrderNumt 102 112 125	From From Store File Custom visuals ber Salestine 286.44 124.60 652.32	Mana Relation Relation	ge ships ships	New Column Calculations Fields	- C Sign in Publish Share
Home Mod Home Mod Cut Format Painter D Clipboard Mod Mod Mod Mod Mod Mod Mod Mod Mod Mo	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Queries rrnal data Customer 51 136 46 112	CustomerName Stationery Handling N Printing Renovation G Baking Development 1 Coal Framework Merce	Partner Showcase Vierchants Inc. Group Corp. Services Inc. chants Corp.	V New Visual Q Insert 12 Jan 2017 21 Jan 2017 19 Jan 2017 06 Jan 2017	Image         Image           Shapes ~         Image           Image         Image           102         Image           112         Image           125         Image           127         Image	ber Salestine 286.44 124.60 652.32 129.16	Mana Relation Relation	ge ships ships	New Column Calculations Fields P Search Search Custor	- C Sign in Publish Share
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	ternal data Customer 51 136 46 112 58	CustomerName Stationery Handling N Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Co	Partner Partner urces Aerchants Inc. aroup Corp. Services Inc. chants Corp. orp.	V New Visual Q Insert DatePlaced 12 Jan 2017 21 Jan 2017 19 Jan 2017	Image Shapes ~ OrderNumt 102 112 125	From Store         From File           Custom visuals         5           ber         Salestime           286,44         124,60           652,32         129,16           333,54         333,54	Mana Relation Relation	ge ships ships	New Column Calculations Fields P Search Search Custor	- C Sign in Publish Share mer_List_db
Home Mod Home Mod Cut Format Painter D Clipboard Mod Mod Mod Mod Mod Mod Mod Mod Mod Mo	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Queries rrnal data Customer 51 136 46 112	CustomerName Stationery Handling N Printing Renovation G Baking Development 1 Coal Framework Merce	Partner Showcase urces Aerchants Inc. Group Corp. Services Inc. chants Corp. orp. Retailers Inc.	New New Insert DatePlaced 12 Jan 2017 21 Jan 2017 19 Jan 2017 06 Jan 2017 22 Jan 2017	Image Shapes × 0rderNumt 102 112 125 127 158	ber Salestine 286.44 124.60 652.32 129.16	Mana Relation Relation	ge ships ships	New Column Calculations Fields  Search  Guston  Guston	-      Sign in     Sign in     Sign in
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Cueries Edit Cueries 51 136 46 112 58 8	CustomerName Stationery Handling IA Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F	Partner Partner Nev Nev Save Verchants Inc. Services Inc. chants Corp. Services Inc. chants Corp. Retailers Inc. enter Inc.	New New Insert 2 Jan 2017 21 Jan 2017 21 Jan 2017 19 Jan 2017 06 Jan 2017 22 Jan 2017 06 Jan 2017 22 Jan 2017	Image         Shapes ~           Shapes ~         orderNumt           102         112           125         127           158         162	From Store         From File           Custow visuals	Mana Relation Relation	ge ships ships	New Column Calculations Fields  Calculations  Fields  Calculations  Calc	- Customer_db
Image: Constraint of the second s	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Queries Franal data Customer 51 136 46 112 58 8 117 15 187	CustomerName Stationery Handling In Printing Renovation G Baking Development Coal Framework Merco Coal Rental Dealers Cr Engineering Finance F Gutter ing Logistics Ce	Partner Partner Nev Showcase urces Aerchants Inc. aroup Corp. Services Inc. chants Corp. orp. Aetailers Inc. enter Inc. eaelers Corp.	DatePlaced 12 Jan 2017 21 Jan 2017 21 Jan 2017 22 Jan 2017 06 Jan 2017 04 Jan 2017 04 Jan 2017 29 Jan 2017	Image Shapes - (1) 102 112 125 127 158 162 206	From From Frie Store File 286.44 124.60 652.32 129.16 333.54 660.96 61.96 541.20 83.28	Mana Relation Relation	ge ships ships	New Column Calculations Fields Search I E Custo I I Order id SuyLineC SuyTotal Custome	- Cost
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit         Edit           current         Edit           second         Edit           S1         136           46         112           58         8           117         15           187         187           7         7	CustomerName Stationery Handling M Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers C Engineering Finance D Mouldings Finance D Mouldings Finance D Kitchen Renovation A Display Cooperative C	Aerchants Inc. Arechants Inc. Arechants Inc. Arechants Corp. Services Inc. Arealiers Inc. Retailers Inc. Retailers Corp. Ssociates Corp. Services Corp.	Visual 2017 21 Jan 2017 21 Jan 2017 23 Jan 2017 24 Jan 2017 25 Jan 2017 25 Jan 2017 29 Jan 2017 18 Jan 2017 27 Jan 2017 03 Jan 2017	Image	From From Frie Store File Custow visuals ber Salestine 286.44 124.60 652.32 129.16 333.54 660.96 61.96 541.20 83.28 254.94	Mana Relation Relation	ge ships ships	New Column Calculations Fields Search I E Custo I I Custo I I Order I Custo S BuyLineC S BuyLineC S BuyTotal Custome Custome	- I I I I I I I I I I I I I I I I I I I
Image: Control of the second seco	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Edit Edit Stans Edit Edit Edit Stans Edit Stans St	CustomerName Stationery Handling M Printing Renovation G Baking Development: Coal Framework Merc Coal Rental Dealers Co Engineering Finance De Mouldings Finance De Kitchen Renovation A: Display Cooperative C Drainage Repair Resel	Partner Partner Neve Showcase Arechants Inc. Group Corp. Services Inc. chants Corp. orp. Retailers Inc. ealers Corp. services Corp. ienter Corp. ienter Corp. ienter Sinc.	New Visual Insert DatePlaced 12 Jan 2017 21 Jan 2017 19 Jan 2017 22 Jan 2017 22 Jan 2017 04 Jan 2017 23 Jan 2017 18 Jan 2017 27 Jan 2017 03 Jan 2017 10 Jan 2017	Image Shapes - 102 112 125 127 158 162 206 207 213 223 225	From Store         From File           2000         Salestime           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         124.20	Mana Relation Relation	ge ships ships	New Column Calculations Fields Search	-     Sign in       Sign in     Sign in       Publish share     -       stare     -       mer_List_db     -       s_by_Customer_db       cost       cost       r       rName       ed
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Couries erral data <b>Customer</b> 51 136 46 112 58 8 117 15 187 7 7 75 34	CustomerName CustomerName CustomerName Stationery Handling N Printing Renovation G Baking Development : Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F Gutter ing Logistics Ce Mouldings Finance Du Kitchen Renovation AD Display Cooperative C Drainage Repair Resel Chimney Handling See	Partner Partner New Showcase Verchants Inc. Arerchants Inc. Arerchants Inc. Arerchants Corp. Services Inc. Anter Inc. Arealers Corp. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc. Aretaliers Inc.	New Visual Insert DataPlaced 12 Jan 2017 21 Jan 2017 21 Jan 2017 23 Jan 2017 24 Jan 2017 29 Jan 2017 29 Jan 2017 29 Jan 2017 20 Jan 2017 20 Jan 2017 20 Jan 2017 24 Jan 2017 25 Jan 2017 26 Jan 2017 27 Jan 2017	Image         OrderNumb           102         112           112         125           125         206           207         213           206         207           213         22           225         240	From Store         From File           286.44         286.44           124.60         65.32           129.16         333.54           660.96         61.96           541.20         83.28           25.94         124.281	Mana Relation Relation	ge ships ships	New Column Calculations Fields	- Content of the second of the
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Customer           51           136           46           112           58           117           15           187           7           53           34           137           46           112           53           117           15           187           7           34           138	CustomerName Stationery Handling N Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Cu Engineering Finance P Guttering Logistics Ce Mouldings Finance Da Victore Renovation A Display Cooperative CC Drainage Repair Resel Chimney Handling See Futon Finance Association	Partner Partner Nev Nev Saver Services Inc. chants Corp. Services Inc. chants Corp. setailers Inc. enter Inc. easiers Corp. ienter Corp. ienter Corp. ienter Corp. ienter Corp.	Visual 2017 21 Jan 2017 21 Jan 2017 22 Jan 2017 23 Jan 2017 24 Jan 2017 29 Jan 2017 29 Jan 2017 29 Jan 2017 21 Jan 2017 23 Jan 2017 21 Jan 2017 21 Jan 2017 24 Jan 2017 24 Jan 2017	OrderNumb           102           112           127           158           162           206           207           213           22           225           240           256	From Store         From File           286.44         286.44           124.60         652.32           129.16         333.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.5         482.30	Mana Relation Relation	ge ships ships	New Column Calculations Fields P Search III Custor III Order: Jd S BuyLineC S BuyLineC Custome Custome DatePlace OrderNui SalesLine	-
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Customer           51           136           46           112           58	CustomerName CustomerName Stationery Handling M Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Cu Engineering Finance P Gutter ing Logistics Ce Mouldings Finance D Mouldings Finance D Drainage Repair Resei Chimney Handling Se Futon Finance Associa Coal Rental Dealers Cu	Partner Partner Nev Saverse Aerchants Inc. Arechants Inc. Services Inc. chants Corp. Services Inc. chants Corp. exter Corp. Herter Inc. eaters Corp. Services Inc. chants Corp. center Corp. Herter Sorp. center Corp. ates Corp. orp.	DatePlaced           12 Jan 2017           21 Jan 2017           21 Jan 2017           22 Jan 2017           23 Jan 2017           24 Jan 2017           29 Jan 2017           29 Jan 2017           18 Jan 2017           24 Jan 2017           10 Jan 2017           24 Jan 2017           24 Jan 2017           24 Jan 2017           25 Jan 2017           29 Jan 2017	OrderNumb           102           112           125           127           158           158           152           206           207           213           22           240           256           259	From From File Store File 286.44 124.60 652.32 129.16 333.54 660.96 61.96 541.20 83.28 254.94 1242.81 228.05 482.30 257.40	Mana Relation Relation	ge ships ships	New Column         Calculations         Fields         P Search         III Custor         JII Order	-     -       Sign in       Publish Share     -       Share     -       mer_List_db       s_by_Customer_db       cost       cost       r       rower
Image: Solution of the second sec	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Customer           51           136           46           112           58           117           15           187           7           53           34           137           46           112           53           117           15           187           7           34           138	CustomerName Stationery Handling N Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Cu Engineering Finance P Guttering Logistics Ce Mouldings Finance Da Victore Renovation A Display Cooperative CC Drainage Repair Resel Chimney Handling See Futon Finance Association	Partner Partner New Showcase Arechants Inc. Aroup Corp. Services Inc. chants Corp. Services Inc. chants Corp. exter Inc. ealers Corp. Iters Inc. roices Inc. eaters Corp. Iters Inc. roices Inc. attes Corp. tert Inc. roices Inc. tet Inc.	Visual 2017 21 Jan 2017 21 Jan 2017 21 Jan 2017 22 Jan 2017 04 Jan 2017 29 Jan 2017 29 Jan 2017 29 Jan 2017 21 Jan 2017 21 Jan 2017 21 Jan 2017 21 Jan 2017 21 Jan 2017 24 Jan 2017 25 Jan 2017	OrderNumb           102           112           127           158           162           206           207           213           22           225           240           256	From Store         From File           286.44         286.44           124.60         652.32           129.16         333.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.5         482.30	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Galaxies	-     -       Sign in       Publish Share     -       Share     -       mer_List_db       s_by_Customer_db       cost       cost       r       rower
Image: Constraint of the second se	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Linker         Edit Gueries           Edit Gueries         Edit Edit           State         Edit Gueries           State         51           136         46           112         58           8         117           15         187           7         75           34         138           58         52	Templates Resort Stationery Handling M Printing Renovation G Baking Development Coal Framework Mero Coal Rental Dealers C Engineering Finance D Gutter ing Logistics Ce Mouldings Finance Du Kitchen Renovation A Display Cooperative C Drainage Repair Rese Chinney Handling Se Futon Finance Associa Coal Rental Dealers Ct	Partner Partner New Showcase Alerchants Inc. aroup Corp. Services Inc. chants Corp. orp. eterter Sorp. sectialers Inc. eterter Corp. terter Corp. terter Corp. terter Inc. eters Sociales Corp. orp. terter Inc. eter Inc. eter Inc. eter Inc.	DatePlaced           12 Jan 2017           21 Jan 2017           21 Jan 2017           21 Jan 2017           22 Jan 2017           06 Jan 2017           29 Jan 2017           18 Jan 2017           27 Jan 2017           10 Jan 2017           15 Jan 2017           10 Jan 2017           12 Jan 2017           15 Jan 2017           15 Jan 2017           29 Jan 2017           16 Jan 2017           24 Jan 2017           29 Jan 2017           16 Jan 2017           29 Jan 2017           20 Jan 2017           24 Jan 2017           29 Jan 2017           24 Jan 2017           21 Jan 2017           24 Jan 2017           24 Jan 2017           29 Jan 2017           24 Jan 2017           24 Jan 2017           25 Jan 2017           26 Jan 2017           27 Jan 2017           28 Jan 2017           29 Jan 2017           29 Jan 2017	Image         OrderNumb           102         112           125         127           158         162           206         207           213         22           240         256           259         27	From Store         From File           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         248.05           482.30         257.40           514.20         514.20	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies Barach  Million Barach  Salestine Salest	-     -       Sign in       Publish Share     -       Normer_List_db       s_by_Customer_db       cost       r       rName       ed       mber       Price       ed       IPrice       ed
Image: Section of the section of	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Customer           51           136           46           112           58           117           15           187           7           75           34           138           58           52           196	CustomerName Stationery Handling M Printing Renovation G Baking Development Coal Framework Merc Coal Rental Dealers Co Engineering Logistics Ce Mouldings Finance De Mouldings Finance De Kitchen Renovation A Display Cooperative C Drainage Repair Resel Chinmey Handling Se Futon Finance Associa Coal Rental Dealers Co Futon Formation Cent Health Finance Brokes	Partner Partner Showcase Merchants Inc. Group Corp. Services Inc. chants Corp. Services Inc. chants Corp. Services Inc. chants Corp. Herer Inc. enter Corp. Herer Inc. enter Corp. Herer Inc. enter Corp. enter Corp. enter Corp. enter Corp. enter Corp. enter Corp. enter Corp. enter Inc. ers for p. ervices Inc.	New         New           Insert         Insert           DatePlaced         12 Jan 2017           12 Jan 2017         19 Jan 2017           19 Jan 2017         22 Jan 2017           06 Jan 2017         23 Jan 2017           18 Jan 2017         27 Jan 2017           03 Jan 2017         10 Jan 2017           12 Jan 2017         29 Jan 2017           19 Jan 2017         13 Jan 2017           19 Jan 2017         13 Jan 2017           19 Jan 2017         14 Jan 2017           19 Jan 2017         15 Jan 2017           17 Jan 2017         15 Jan 2017	Image Shapes - 0 102 112 125 127 158 162 207 213 226 207 213 223 240 256 259 259 259 259 259 259 259	From Store         From File           Custow         visuals           ber         Salestime           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         228.05           482.30         257.40           514.20         514.20	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	-       -         Sign in       -         Publish Share       -         N       -         Share       -         N       -        N       -         N       -         N       -         N       -         N       -         N       -         N       -         N       -         N       - <tr td="">        N</tr>
Home       Mod         Home       Mod         Eh Copy       p         * Format Painter       p         Clipboard       p         102       1         102       1         112       1         125       1         126       1         206       1         207       1         132       1         225       2         240       1         259       2         273       2         305       3         345       1	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Edit Edit Edit Edit Edit Edit	Templates Resort Customer/Name Stationery Handing M Printing Renovation G Baking Development : Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F Gutter ing Logistics Ce Mouldings Finance De Kitchen Renovation A Display Cooperative C Drainage Repair Resel Chimney Handling Se Futon Finance Asocia Coal Rental Dealers Cu Futon Finance Broke Plastering Concept Se	Partner Partner NeveShowcase Merchants Inc. Aroup Corp. Services Inc. chants Corp. Services Inc. chants Corp. Retailers Inc. eather Corp. liters Inc. rvices Inc. iters Corp. orp. ter Inc. rs Corp. rs Corp. rs Corp.	New         New           New         Insert           DatePlaced         12 Jan 2017           12 Jan 2017         21 Jan 2017           19 Jan 2017         20 Jan 2017           06 Jan 2017         23 Jan 2017           04 Jan 2017         20 Jan 2017           05 Jan 2017         10 Jan 2017           10 Jan 2017         24 Jan 2017           12 Jan 2017         24 Jan 2017           14 Jan 2017         24 Jan 2017           15 Jan 2017         24 Jan 2017           24 Jan 2017         27 Jan 2017           27 Jan 2017         08 Jan 2017	Image Shapes - 0 102 112 125 127 158 162 206 207 213 222 225 240 256 259 259 277 273 273 292	From Store         From File           2000         Salestime           286.44         226.04           129.16         333.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.64         228.05           482.30         57.40           514.20         578.76	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Image: Constraint of the sector of the se	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Image         Edit Edit Queries           trail         Edit Edit           trail         Edit           51         136           46         112           58         8           117         15           187         7           54         138           58         52           196         59           150         120           12         138	Templates Resort Stationery Handling M Printing Renovation G Baking Development Coal Framework Mero Coal Rental Dealers C Coal Rental Dealers C Coal Rental Dealers C Gutter ing Logistics Ce Mouldings Finance De Kitchen Renovation A Display Cooperative C Drainage Repair Rese Chimney Handling See Futon Finance Associa Coal Rental Dealers C Futon Finance Associa Coal Rental Dealers C Futon Finance Rote Health Finance Broke Plastering Concepts E Fish Formation Consul Milking Leasing Specia	Partner Partner Partner Nev Services Inc. chants Corp. Services Inc. chants Corp. enter Inc. eaters Corp. erter Corp. lers Inc. vices Inc. ates Corp. orp. eter Inc. orp. eter Inc. orp. eter Inc. ates Corp. eter Inc. ates Corp. eter Inc. ates Corp. eter Inc. eter Inc	Visual 2017 12 Jan 2017 21 Jan 2017 21 Jan 2017 23 Jan 2017 24 Jan 2017 29 Jan 2017 29 Jan 2017 29 Jan 2017 29 Jan 2017 21 Jan 2017 24 Jan 2017 24 Jan 2017 24 Jan 2017 29 Jan 2017 21 Jan	Image         OrderNumb           102         112           112         125           127         13           158         162           206         207           213         22           220         240           256         259           27         273           292         305           345         423	From Store         From File           286.44         124.60           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         242.81           28.05         482.30           257.40         514.20           429.35         578.76           514.20         514.80           514.88         872.64	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	-       -         Sign in       -         Publish Share       -         N       -         Share       -         N       -        N       -         N       -         N       -         N       -         N       -         N       -         N       -         N       -         N       - <tr td="">        N</tr>
Home       Mod         Home       Mod         Eb Copy       Format Painter       p         Clipboard       D       p         Jid       BaytineCo       102         102       102       102         112       102       102         125       2       102         126       2       102         127       158       102         162       2       102         206       2       2         207       2       2         213       2       2         220       2       2         240       2       2         256       2       2         27       2       2         205       2       2         256       2       2         205       3       3         245       4       4         423       4       4	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Customer           51           136           46           112           58           117           15           187           7           54           138           52           196           59           124	Templates Resort Stationery Handling M Printing Renovation G Baking Development Coal Framework Merce Coal Rental Dealers C Engineering Logistics Ce Mouldings Finance D Mouldings Finance D Mouldings Finance D Kitchen Renovation A Display Cooperative C Drainage Repair Resel Futon Finance Associa Coal Rental Dealers C Coal Rental Dealers C Coal Rental Dealers C Futon Formation Cent Health Finance Brokee Plastering Concept Se Fish Formation Cent Health Finance Stoke Plastering Concept Se	Partner Partner Partner New Showcase New Showcase Alerchants Inc. aroup Corp. Services Inc. Arother Corp. Services Inc. Arother Corp. Arother	New         New           Unsel         Inset           12 Jan 2017         1 Jan 2017           13 Jan 2017         2 Jan 2017           06 Jan 2017         2 Jan 2017           04 Jan 2017         2 Jan 2017           18 Jan 2017         2 Jan 2017           19 Jan 2017         2 Jan 2017           19 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           12 Jan 2017         2 Jan 2017           13 Jan 2017         2 Jan 2017           04 Jan 2017         2 Jan 2017           05 Jan 2017         2 Jan 2017           11 Jan 2017         13 Jan 2017	Image         OrderNumb           102         112           125         112           126         112           127         158           162         206           207         213           225         224           240         256           259         27           273         292           305         345           423         424	From Store         From File           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         228.05           482.30         257.40           514.20         514.20           514.20         514.20           514.08         578.76           124.50         514.08           514.08         572.64           1158.30         1158.30	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         Em Copy       Format Painter       p         Clipboard       102         112       112         125       112         126       112         127       158         162       112         206       112         207       112         207       112         208       112         209       112         201       112         202       112         203       112         204       112         125       112         127       125         128       112         129       112         204       112         213       112         22       112         225       112         236       112         240       112         259       112         345       112         423       112         424       112	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Edit Edit Edit Edit Edit Edit	Templates Resort Stationery Handling M Printing Renovation G Baking Development: Coal Framework Merc Coal Rental Dealers Co Engineering Logistics Ce Mouldings Finance De Mouldings Finance De Kitchen Renovation A: Display Cooperative C Drainage Repair Resel Futon Finance Associa Coal Rental Dealers Co Futon Formation Cent Health Finance Brokes Plastering Concept Se Fish Formation Cent Health Finance Brokes Miliking Leasing Speci Kinkuweer Frameworki Miliking Leasing Speci	Partner Partner New Showcase Verchants Inc. Services Inc. chants Corp. Services Inc. chants Corp. sected for the second second for the second secon	New         New           New         Second           Insert         Insert           12 Jan 2017         Jan 2017           13 Jan 2017         O Jan 2017           04 Jan 2017         2J Jan 2017           04 Jan 2017         2J Jan 2017           03 Jan 2017         10 Jan 2017           10 Jan 2017         24 Jan 2017           10 Jan 2017         29 Jan 2017           04 Jan 2017         29 Jan 2017           15 Jan 2017         03 Jan 2017           16 Jan 2017         13 Jan 2017           17 Jan 2017         13 Jan 2017           18 Jan 2017         14 Jan 2017           15 Jan 2017         15 Jan 2017           16 Jan 2017         13 Jan 2017           17 Jan 2017         13 Jan 2017           18 Jan 2017         14 Jan 2017           17 Jan 2017         13 Jan 2017           17 Jan 2017         13 Jan 2017           17 Jan 2017         13 Jan 2017           19 Jan 2017         14 Jan 2017	Image Shapes - 102 112 125 127 158 162 206 207 213 223 223 223 223 223 223 225 240 256 259 259 259 259 259 259 259 259 259 259	From Store         From File           2000         Salestime           286.44         124.60           129.16         33.54           660.96         541.20           83.28         254.94           1242.81         228.05           482.30         257.40           514.20         514.20           514.20         514.08           872.64         1158.30           177.06         1177.06	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         Cut       Image: Component of the com	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Left Customer 51 136 46 112 58 8 117 15 187 7 7 7 5 34 138 58 59 196 59 150 124 184 184 184 196 59 150 124 184 184 184 184 185 196 196 196 196 196 196 196 196 196 196	Templates Resort Stationery Handling N Printing Renovation G Baking Development: Coal Framework Merc Coal Rental Dealers Co Engineering Finance P Mouldings Finance De Mouldings Finance De Kitchen Renovation A: Display Cooperative C Drainage Repair Resel Chimney Handling Se Futon Finance Associa Coal Rental Dealers Co Futon Formation Cent Health Finance Broke Plastering Concept Se Fish Formation Consu Milling Leasing Speci Fright Finance Whold Refridgeration Finance	Partner Partner Partner New Showcase Alerchants Inc. Services Inc. chants Corp. Services Inc. chants Corp. Services Inc. chants Corp. eaters Corp. eterter Corp. Itlers Inc. eterter Corp. Itlers Inc. eterter Inc. eter	New         New           New         New           Insert         Insert           12 Jan 2017         2 Jan 2017           21 Jan 2017         2 Jan 2017           19 Jan 2017         2 Jan 2017           04 Jan 2017         2 Jan 2017           05 Jan 2017         20 Jan 2017           10 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           24 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           06 Jan 2017         2 Jan 2017           05 Jan 2017         3 Jan 2017           06 Jan 2017         2 Jan 2017           05 Jan 2017         2 Jan 2017           05 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           05 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           29 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           10 Jan 2017         2 Jan 2017           2 Jan 2017         2 Jan 2017	Image         OrderNumb           102         112           102         112           112         125           125         206           207         213           206         207           213         22           225         240           256         259           277         273           292         305           345         423           424         426           434         434	From Store         From File           2000         Salestime           286.44         124.60           623.21         129.16           333.54         660.96           61.96         541.20           83.28         224.91           242.81         228.05           482.30         574.0           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.88           77.64         1158.30           177.06         144.97	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         En       Copy         * Format Painter       p         Clipboard       102         112       112         125       112         126       112         127       112         128       102         1292       112         206       112         207       113         225       112         226       112         225       112         226       112         227       113         225       114         226       114         225       114         226       114         2273       114         292       114         292       114         292       114         292       114         292       114         292       114         292       114         292       114         292       114         203       114         204       114         205       114 <td< td=""><td>ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte</td><td>Edit Couries           Edit Edit Couries           Edit Edit Couries           Edit Couries           Edit Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information           Information</td><td>Templates Resort Customer/Name Stationery Handing N Printing Renovation G Baking Development: Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F Gutter ing Logistiss Ce Mouldings Finance Da Kitchen Renovation A Display Cooperative C Drainage Repair Resel Chimney Handling See Futon Finance Rock Platering Concept Se Futon Formation Cent Health Finance Broke Platering Concept Se Fish Formation Consu Milking Leasing Speci Frieght Finance Whol Refridgeration Finance</td><td>Partner Partner Neve Showcase Merchants Inc. Arcup Corp. Services Inc. chants Corp. Services Inc. chants Corp. eater Corp. eat</td><td>New         New           New         New           Insert         Insert           12 Jan 2017         21 Jan 2017           21 Jan 2017         22 Jan 2017           22 Jan 2017         23 Jan 2017           24 Jan 2017         29 Jan 2017           03 Jan 2017         23 Jan 2017           10 Jan 2017         24 Jan 2017           24 Jan 2017         29 Jan 2017           27 Jan 2017         29 Jan 2017           04 Jan 2017         27 Jan 2017           04 Jan 2017         29 Jan 2017           05 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017</td><td>Image         OrderNumb           102         112           112         112           127         158           162         206           207         213           222         225           240         256           259         27           273         292           305         345           423         424           424         434           454         454</td><td>From Store         From File           286.44         286.44           124.60         652.32           129.16         33.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.05         482.30           257.40         514.20           578.76         124.50           578.76         124.50           514.08         872.64           1158.30         177.06           144.97         22.44</td><td>Mana Relation Relation</td><td>ge ships ships</td><td>New Column Calculations Fields Fields  Fields  Galaxies G</td><td></td></td<>	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Couries           Edit Edit Couries           Edit Edit Couries           Edit Couries           Edit Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information	Templates Resort Customer/Name Stationery Handing N Printing Renovation G Baking Development: Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F Gutter ing Logistiss Ce Mouldings Finance Da Kitchen Renovation A Display Cooperative C Drainage Repair Resel Chimney Handling See Futon Finance Rock Platering Concept Se Futon Formation Cent Health Finance Broke Platering Concept Se Fish Formation Consu Milking Leasing Speci Frieght Finance Whol Refridgeration Finance	Partner Partner Neve Showcase Merchants Inc. Arcup Corp. Services Inc. chants Corp. Services Inc. chants Corp. eater Corp. eat	New         New           New         New           Insert         Insert           12 Jan 2017         21 Jan 2017           21 Jan 2017         22 Jan 2017           22 Jan 2017         23 Jan 2017           24 Jan 2017         29 Jan 2017           03 Jan 2017         23 Jan 2017           10 Jan 2017         24 Jan 2017           24 Jan 2017         29 Jan 2017           27 Jan 2017         29 Jan 2017           04 Jan 2017         27 Jan 2017           04 Jan 2017         29 Jan 2017           05 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017	Image         OrderNumb           102         112           112         112           127         158           162         206           207         213           222         225           240         256           259         27           273         292           305         345           423         424           424         434           454         454	From Store         From File           286.44         286.44           124.60         652.32           129.16         33.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.05         482.30           257.40         514.20           578.76         124.50           578.76         124.50           514.08         872.64           1158.30         177.06           144.97         22.44	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         Cut       Image: Cut         Cipboard       Image: Cut         Image: Cut       Image: Cut	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Edit Strutter           Customer           51           136           46           112           58           117           15           187           7           34           138           52           196           59           150           124           184           123           33           102	Templates Resort Stationery Handling M Printing Renovation G Baking Development 1 Coal Framework Merce Coal Rental Dealers C Engineering Finance D Gutter ing Logistics Ce Mouldings Finance Day Kitchen Renovation A Display Cooperative C Drainage Repair Resol Chimney Handling See Futon France Rosok Coal Rental Dealers C Futon France Rosok Plastering Concept Se Fish Formation Consu Milking Leasing Speci Kinitwear Framework Milking Leasing Speci Freight Finance Whol Refridgeration Finance	Partine Page Parter Annuel Page New Showcase New Showcase Arechants Inc. Arechants Inc. Arechants Inc. Arechants Corp. Services Inc. Aretailers Inc. Aretailers Inc. Aretailers Corp. Aretailers Corp. Aretailers Inc. Aretailers Inc. Aretail	DatePlaced           12 Jan 2017           21 Jan 2017           21 Jan 2017           21 Jan 2017           22 Jan 2017           23 Jan 2017           24 Jan 2017           29 Jan 2017           29 Jan 2017           21 Jan 2017           29 Jan 2017           13 Jan 2017           24 Jan 2017           25 Jan 2017           24 Jan 2017           25 Jan 2017           24 Jan 2017           25 Jan 2017           29 Jan 2017           20 Jan 2017           20 Jan 2017           20 Jan 2017           20 Jan 2	Image         OrderNumb           102         1           102         1           123         1           124         1           125         1           158         1           162         2           206         2           207         2           213         2           225         2           240         2           256         2           292         2           305         2           345         4           424         4           454         4           454         4	From Store         From File           286.44         286.44           124.60         652.32           129.16         333.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.05         42.30           228.05         514.20           429.35         578.76           124.50         514.08           872.64         1158.30           177.06         144.97           22.44         387.48	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         Eh Cut       Image: Cuto State	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Couries           Edit Edit Couries           Edit Edit Couries           Edit Couries           Edit Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information           Sa           Information	Templates Resort Customer/Name Stationery Handing N Printing Renovation G Baking Development : Coal Framework Merc Coal Rental Dealers Cu Engineering Finance F Gutter ing Logistiss Ce Mouldings Finance Da Kitchen Renovation A Display Cooperative C Drainage Repair Resel Chimney Handling See Futon Finance Rock Platering Concept Se Futon Formation Cent Health Finance Broke Platering Concept Se Fish Formation Consu Milking Leasing Speci Frieght Finance Whol Refridgeration Finance	Partine Page Parter Page New Showcase Aerchants Inc. Aerchants Inc. Arcup Corp. Services Inc. chants Corp. Arctailers Inc. enter Inc. enter Corp. enter Corp. enter Scorp. ervices Inc. atass Corp. ervices Inc. atass Corp. ervices Inc. alists Corp. Retailers Inc. alists Corp. Retailers Inc. alists Corp. esalers Corp. esalers Corp. esalers Corp. esalers Corp. rthers Corp. rthers Corp. rthers Corp.	New         New           New         New           Insert         Insert           12 Jan 2017         21 Jan 2017           21 Jan 2017         22 Jan 2017           22 Jan 2017         23 Jan 2017           24 Jan 2017         29 Jan 2017           03 Jan 2017         23 Jan 2017           10 Jan 2017         24 Jan 2017           24 Jan 2017         29 Jan 2017           25 Jan 2017         29 Jan 2017           04 Jan 2017         27 Jan 2017           05 Jan 2017         03 Jan 2017           05 Jan 2017         29 Jan 2017           13 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017	Image         OrderNumb           102         112           112         112           127         158           162         206           207         213           222         225           240         256           259         27           273         292           305         345           423         424           424         434           454         454	From Store         From File           286.44         286.44           124.60         652.32           129.16         33.54           660.96         61.96           541.20         83.28           254.94         1242.81           228.05         482.30           257.40         514.20           578.76         124.50           578.76         124.50           514.08         872.64           1158.30         177.06           144.97         22.44	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home       Mod         Home       Mod         Em       Copy         Format Painter       p         Clipboard       Image: Comparise of the second secon	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Cuerres           51           136           46           112           58           117           15           187           7           54           138           51           15           187           7           54           138           58           52           196           59           150           124           132           132           132           132           135	Templates Resort Stationery Handling M Printing Renovation G Baking Development Coal Framework Merce Coal Rental Dealers C Engineering Finance B Guttering Logistics Ce Mouldings Finance Du Kitchen Renovation A Display Cooperative C Drainage Repair Rese Chimney Handling See Futon Finance Associa Coal Rental Dealers C Futon Finance Associa Coal Rental Dealers C Futon Formation Cent Health Finance Broke Pilatering Concept Se Fish Formation Consu Milking Leasing Speci Knitwear Frameworki Milking Leasing Speci Freight Finance Moho Refridgeration Finance Demolition Concept G Furniture Helpline Pair	Partner Partner Showcase Merchants Inc. arcup Corp. Services Inc. chants Corp. Services Inc. chants Corp. orp. eterter Corp. sesciates Corp. ienter Corp. ienter Corp. ienter Corp. ienter Inc. ates Corp. orp. ter Inc. rs Corp. srvices Inc. aliast Corp. esalers Corp.	New         New           Unsert         Insert           12 Jan 2017         13 Jan 2017           13 Jan 2017         24 Jan 2017           22 Jan 2017         24 Jan 2017           23 Jan 2017         24 Jan 2017           24 Jan 2017         29 Jan 2017           18 Jan 2017         24 Jan 2017           10 Jan 2017         24 Jan 2017           24 Jan 2017         24 Jan 2017           25 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017           25 Jan 2017         29 Jan 2017           29 Jan 2017         29 Jan 2017           10 Jan 2017         19 Jan 2017	Image         OrderNumb           102         1           102         1           123         1           124         1           125         1           126         2           206         2           207         2           213         2           224         2           235         2           240         2           256         2           277         2           2305         2           345         4           426         4           454         4           453         4	From Store         From File           286.44         124.60           652.32         129.16           333.54         660.96           61.96         541.20           83.28         254.94           1242.81         228.05           482.30         257.40           514.20         429.35           578.76         1245.00           1245.00         514.20           429.35         578.76           1245.00         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           424.50         514.20           514.20         514.20           424.50         514.20           52.24         33.24           52.24         33.24           52.24         387.48           387.48         387.48	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	
Home         Mod           Image: Comparison of the sector of the sect	ntitled - Power BI [ eling Get Recent E ata * Sources * D Exte	Edit Edit Edit Edit S1 136 46 136 46 112 58 8 8 117 15 7 7 7 7 7 7 7 7 34 138 59 150 138 59 150 150 150 150 124 124 138 59 150 150 124 124 132 33 102 163 154 164 164 164 164 165 165 165 165 165 165 165 165 165 165	Templates Resort Stationery Handling M Printing Renovation G Baking Development : Coal Framework Merce Coal Rental Dealers C Engineering Finance D Mouldings Finance D Mouldings Finance D Mouldings Finance D Kitchen Renovation A Display Cooperative C Drainage Repair Rese Futon Finance Associa Coal Rental Dealers C Coal Rental Dealers C Futon Finance Associa Coal Rental Dealers C Futon Finance Associa Coal Rental Dealers C Futon Finance Stroke Plastering Concept Se Fish Formation Cent Health Finance Stroke Fish Formation Cent Milking Leasing Specia Kinitweer Framework i Milking Leasing Speci Furnitrue Heipline Pari Solarium Heipline Cor	Partner Partner Partner New Showcase New Showcase Alerchants Inc. Services Inc. chants Corp. Services Inc. chants Corp. orp. Retailers Inc. eaters Corp. eaters Corp. eaters Corp. eaters Corp. ervices Inc. ervices Inc. ervices Inc. etailsts Corp. eaters Corp. esalers Corp. esalers Corp. esalers Corp. esalers Corp. esalers Corp. esalers Corp. esalers Corp. etailsts Inc. esalers Corp. etailsts Inc. esalers Corp. etailsts Inc. esalers Corp. etailsts Inc. esalers Corp. etailsts Inc. esalers Corp.	New         New           New         Second           Insert         Insert           12 Jan 2017         21 Jan 2017           19 Jan 2017         20 Jan 2017           04 Jan 2017         22 Jan 2017           04 Jan 2017         27 Jan 2017           03 Jan 2017         23 Jan 2017           04 Jan 2017         29 Jan 2017           04 Jan 2017         29 Jan 2017           05 Jan 2017         29 Jan 2017           11 Jan 2017         29 Jan 2017           03 Jan 2017         29 Jan 2017           12 Jan 2017         29 Jan 2017           13 Jan 2017         29 Jan 2017           14 Jan 2017         29 Jan 2017           15 Jan 2017         10 Jan 2017           12 Jan 2017         10 Jan 2017           13 Jan 2017         10 Jan 2017           14 Jan 2017         10 Jan 2017           15 Jan 2017         10 Jan 2017           15 Jan 2017         10 Jan 2017	Image Shapes - 0 0 0 0 0 0 0 112 125 127 127 158 162 206 207 213 225 240 225 240 225 240 225 240 259 27 273 259 27 273 259 259 27 273 259 27 273 265 345 345 424 424 424 424 424 424 424 4	From Store         From File           285.44         286.44           124.60         652.32           129.16         333.54           660.96         541.20           83.28         254.94           1242.81         286.44           129.16         335.54           660.96         541.20           83.28         254.94           1242.81         228.05           482.30         257.40           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           514.20         514.20           52.21         514.20           52.21         514.20           52.21         514.20           52.21 <td>Mana Relation Relation</td> <td>ge ships ships</td> <td>New Column Calculations Fields Fields  Fields  Galaxies G</td> <td></td>	Mana Relation Relation	ge ships ships	New Column Calculations Fields Fields  Fields  Galaxies G	

Example using PragmatiQa XOData



	STREET, ST		Data Visualizer	and Explorer			
						T Hide	e/Show Default Settings
Endpoint:	Not Applicable 🔻 00	Data Version: 4.0					
Formats:	Default 🔻 Input I	Date Format like 2014-05-25T14:49:5:	2 Default 🔻				
Query Settings:	Package of 5000	Auto Display based on Data Size	v				
			_				
lect: Produ	ct_Suppliers_List : Produ	ct_Suppliers_I top 20	T				
here: 🔶							
pand: 🔶							
lumns:							
der by: 🔶							
		(1) (1) (1) (2) (1) (2)	-line Line dialana 20				→ Open URL
ttp://(pts4rest domain)/	Reset	no/xlreport/query/odeta/Product_Supp	Jiens_Lus_do/scopszu				
Get Data	Reset					0	f Get All Data
Get Data	Reset _id	DefaultBuyCost	DefaultSalesPrice	ID AFC773	Description		
Get Data	Jid AEF273			ID AEF273	Description Amber Elastic Fastenerüaaaüs		
Get Data	_id _AEF273 t_supplierNar	DefaultBuyCost 6.73	DefaultSalesPrice			sssüddd Suppliers	
Get Data	_jd _jd _AF273 t_supplierNar _SupplierNar _Ventilation }	DefaultBuyCost 6.73 Handling Consultants Corp.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	sssüddd	
Get Data Save as Favourite Links roduct_Suppliers_Lis coduct_Suppliers_Lis	jid AEF273 t_supplier_group Vemilation H APJ132	DefaultBuyCost 6.73	DefaultSalesPrice			sssüddd Suppliers	
Get Data	_id _AEF273 tt_supplierNar Ventilation I APJ132 tt_supplierNar SupplierNar SupplierNar	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 Immes	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 Suppliers	
Get Data Save as Favourite Links roduct_Suppliers_Lis	_id AFF273 t_supplier_group Supplier_Var Ventilation H APJ132 t_supplier_group Supplier_Japplier_Var Carpentry F	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	sssüddd Suppliers 227	
Get Data Save as Favourite Links roduct_Suppliers_Lis	jid AEF273 t_supplier_group AEPJ132 t_supplierNar Vernilation / APJ132 t_supplierNar Carpentry f Chemical 5 Demolition	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 Formation Partners Inc. Formation Partners Inc.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 Suppliers 239 214 276	
Get Data Save as Favourite Links roduct_Suppliers_Lis coduct_Suppliers_Lis	_id AEE273 t_supplier.group Supplier.group APJ132 t_supplier.group SupplierMan Carpentry F Chemical S Demotition Fireplace F	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 mes Formation Partners Inc. Tervicing Experts Corp. Formation Merchants Inc. formation Merchants Inc.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 Suppliers 239 214 276 206	
Get Data Save as Favourite Links roduct_Suppliers_Lis coduct_Suppliers_Lis	_jid AEF273 t_supplier_group SupplierNar Ventilation H APJ132 t_supplier_group SupplierNar Chemical S Demolition Fireplace F Lubrican F	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 Intervieing Experts Corp. Formation Partners Inc. Formation Merchants Inc. ormation Group Corp. inance Wholesalers Corp.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 Suppliers 239 214 276 206 259	
Get Data Save as Favourite Links roduct_Suppliers_Lis	_id AFF273 t_supplier_group SupplierIvan Ventilout t_supplier_group SupplierNa Carpentry F Chemical S Demoliton Fireplace F Lubricant F Pottery Ha	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 mes Formation Partners Inc. Tervicing Experts Corp. Formation Merchants Inc. formation Merchants Inc.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 Suppliers 239 214 276 206	
Get Data	jid AEF273 t. supplierty Ventilation 1 APJ132 t. supplierty Chemical S Demolition Fireplace F Lubricant F Pottery Ha Printing Ha	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 mes Formation Partners Inc. Formation Artners Inc. Formation Group Corp. Formation Group Corp. Inding Specialists Corp. noting Specialists Corp. notation Services Inc.	DefaultSalesPrice 7.31 115.23	AEF273 APJ132	Amber Elastic Fastenerüaaaü: Amber Pressurized Joining	Suppliers 227 Suppliers 239 214 276 206 259 254	
Cet Data	jid AEF273 t.supplier.group AEP1132 t.supplier.group APJ132 t.supplierNar Carpentry Fi Chemical 5 Demolition Fireplace F Lubricant F Pottery Ha Printing Re Solarium Fi	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 ervicing Experts Corp. Formation Partners Inc. Formation Merchants Inc. ormation Group Corp. injance Wholesalers Corp. ndling Specialists Corp. notavisto Merchants Inc.	DefaultSalesPrice 7.31	AEF273	Amber Elastic Fastenerüaaaüs	Suppliers 227 239 214 276 206 259 254 277	
Get Data	_id AEF273 t. supplier.group SupplierNar Ventilation 1 APJ132 t.supplierNar Carpentry Fi Chemical 5 Demolition Fireplace F Lubrican F Pottery Han Printing Solarium Fi ARB165 t.supplier.group SupplierNar	DefaultBuyCost 6.73 Handling Consultants Corp. 80.63 mes Formation Partners Inc. Formation Partners Inc. Formation Merchants Inc. Formation Merchants Inc. Ininance Wholesalers Corp. novation Merchants Inc. ormation Services Inc. T5.35	DefaultSalesPrice 7.31 115.23	AEF273 APJ132	Amber Elastic Fastenerüaaaü: Amber Pressurized Joining	Suppliers 227 239 214 276 206 259 254 277	

Created with the Standard Edition of HelpNDoc: News and information about help authoring tools and software

# **Raw Data**

The Raw Data tab allows you to view the data in its raw format.

Data Raw format only shows physical attributes without any conversions and formating. Use this feature to check for multi-value and sub-value fields

Parameters Output Header/Footer Codes Preview Raw Data Configuration	
SALESORDER : 678 1 CUSTOMERNAME 0001: 78 PRODUCT 0004: CAD208]KFC221]TRB213]TSS179	^
SALESORDER : 679 2 CUSTOMERNAME	
SALESORDER : 680 3 CUSTOMERNAME 0001: 174 PRODUCT 0004: TAB138	
SALESORDER : 681 4 CUSTOMERNAME 0001: 88 PRODUCT	
SALESORDER : 682 5	~
	>
SORT SALESORDER CUSTOMERNAME NUMBER PRODUCT BY NUMBER BY-EXP PRODUCT USING DICT \$DEMO_DB*Order_View	

## The TCL View shows the output as it would be if the command was run from TCL.

Parameters Output Header/Footer Codes Previo	w Raw Data Configuration	
Customer Name Ord	er Number Product	^
Label Design Dealers Corp.	1 BAF105	
Label Design Dealers Corp.	1 BMG63	
Label Design Dealers Corp.	1 OTS189	
Label Design Dealers Corp.	1 PSB269	
Label Design Dealers Corp.	1 WMF126	
Glue Logistics Brokers Corp.	2 BSF100	
Glue Logistics Brokers Corp.	2 BTB186	
Glue Logistics Brokers Corp.	2 SFD191	
Glue Logistics Brokers Corp.	2 SMC22	
Glue Logistics Brokers Corp.	2 T3D31	
Glue Logistics Brokers Corp.	2 WSG258	
Environmental Care Suppliers Inc.	3 ATS102	
Environmental Care Suppliers Inc.	3 BSS259	
Environmental Care Suppliers Inc.	3 KDF178	
Environmental Care Suppliers Inc.	3 KMC243	
Environmental Care Suppliers Inc.	3 M3G245	
<		>
SORT SALESORDER CUSTOMERNAME NUMBER	PRODUCT BY NUMBER BY-EXP PRODUCT USING DICT \$DEMO_DB*Ord	ler_View

You can edit the TCL command and execute them to preview their raw data format.

# Note: These two functions do not execute the Pre and Post processes. They do however apply the selected sample size.

Note: Changes made to the TCL statements do no affect the report definition. They are only used to preview data and are not saved with the report.

Created with the Standard Edition of HelpNDoc: Create iPhone web-based documentation

# phiReport Query

Available with Edition: PRO and CLOUD

phiReport Query is a simple GUI interface to run report and create Excel workbooks.

B			
🌗 phiReport Query		- 0	×
File Run Tools Help			
🕑 🖂 📴 🛄 🚽			
Query			> D0
Select Category ** All **	Select Report	✓ Data Source ✓	C
phiReport Builder 3.0.0		10.Jan 2018 - PT demo. db (PTI7) -	Port 19

Select a report from the Select Report dropdownlist to load the report definition. You can use the Category dropdownlist to filter the list of reports. The Data Source dropdownlist allows you to select the Data Source (Data Section) of the file to run the selection against.

	or Customer List												· · ·
e Run	Tools Help												
) 🖂	) 🗊 🛄 🚽												
Query									ltems	per Page 100	~ K (	~	
Select (	Category Customer Reports		~ C	Select Report	Customer List				<ul> <li>Data Source</li> </ul>	e Customers		$\sim$	C
	Field Name	Operator		Enter Search	String								
	Name	Starts With		b									
AND	Zip Code	Contains		2									
Org ID	Address		Name			Ora	Туре	Туре	Zip Code				
48	NV			ing Resellers In	c	019	. Type	Type	2463				
48	1360 Cedar Cresent			ing Resellers In		Cus	tomer	С	2463				
191	3433 Finch Yard			gement Solutio			tomer	C	2693				
46	4440 Bishops Gate			opment Service			tomer	C	9235				
191	HI			gement Solutio			tomer	C	2693				
46	ME			opment Service		Cus	tomer	С	9235				
46	Wellington			opment Service		Cus	tomer	С	9235				
191	Willbury		Baking Mana	gement Solutio	ns Inc.	Cus	tomer	С	2693				
275	3298 Lark Heights		Boating Tech	nology Reseller	s Inc.	Sup	plier	S	2377				
275	AS		Boating Tech	nology Reseller	s Inc.	Sup	plier	S	2377				
275	Haskerville		Boating Tech	nology Reseller	s Inc.	Sup	plier	S	2377				
48	Vena		Boating Leas	ing Resellers In	C.	Sup	plier	S	2463				
Report Buik	der 3.0.0				2 records found.					10 100 00	)18 - PT demo_d		De

Click on the "Run Query" button to execute the query. Click on the "Run Excel" button to create the MS Excell workbook.

Use the navigation buttons to set the number of items to display per page and to move between pages.



The Excel button opens the output dialog box:

phiR	eport
------	-------

😑 phiRepor	rt Print - Product List		×
	Destination v Excel	- Report Option	ns
Send	to Printer 1	Target Printer 1	Send To OneNote 2016 Copies 1
Send	to Printer 2	Target Printer 2	Brother MFC-9340CDW Printer Copies 1
Save Save	Report	File Name	R:\Report.pdf
🗹 Emai	il Report		☑ Landscape
PDF	Preview		Alternate Row Color
То			0
CC			Ô
BCC			0
Subject	Weekly sales rep	ort	0
Body	Dear Salesperson	l,	^
	Please find attach	e the weekly sales	s report
		ie nie neenly eare	
	Regards,		
			×
	<		>
		Cancel	Build Report
		Cancer	Dulid Report

You can select any combination of report destinations.

Note: The "Email Report" option is only available when the "Save Report" option is checked. This is because phiReport will use the saved report as the email attachment.

Note: The "PDF Preview" option is only available when the "Save Report" option is checked and the seleted report format is PDF. When checked, phiReport will open the PDF file onces it's created. When unchecked, the PDF is saved at the desired location but it is not opened.

Created with the Standard Edition of HelpNDoc: Create help files for the Qt Help Framework

# **TCL Report**

Available with Edition: PRO and CLOUD

You can create Excel reports directly from TCL instead of using the GUI interface. Use the <u>Data View</u> <u>Manager</u> to create your data views then use <u>phiReport Builder</u> to build the reports. Once saved, they can be run using the <u>phiReport Query</u> application or from TCL or from a BASIC program using the <u>phiReport API</u>.

From TCL, log to your data account and enter RPTRUN.

RPTRUN {Report Name} {options} If no report name is provided you will be prompted to enter one. Use the "-d" options parameter to indicate the Data Source (Data Section) to use.

```
PT demo_db:RPTRUN Orders by Customer
Preparing Data for sheet "Orders by Customer". Please wait...
creating Excel Worksheet(s). Please wait...
>>>>> Report Completed at 09:31:16 <<<<<
>>>>> Report Completed in 00:00:13 <<<<<
Excel Report Completed.
```

If the report has criteria token(s) defined, RPTRUN will prompt you to enter them before the report is created. The prompts can be answered through DATA statements if you are EXECUTEing from a BASIC program.

R	eport Customer Li	ist	V 😋 Ca	tegory C	ustome	r Reports	~ C	
Data	View Customer V	ustomer View 🔽 C Data Sect		Data Section ORGANIZATION			$\sim$	
Ор	Field	Operator	Criteria	Sort	Hide	Notes/Comments		
	Name	Starts With	%%@name%%]					
AND	Zip Code	Contains	%%@zip%%					

```
PT demo_db:RPTRUN
Enter Name of Report to Run :?Customer List
Enter value for 'NAME' : (enter '_quit_' to quit) : ?Co
Enter value for 'ZIP' : (enter '_quit_' to quit) : ?1
Preparing Data for sheet "Customer List". Please wait...
creating Excel Worksheet(s). Please wait...
>>>> Report Completed at 09:29:46 <<<<
>>>>> Report Completed in 00:00:09 <<<<<
```

If your report definition allows for multiple data sections, you can specify the one to use with the "-d" option. The "-d" option must appear at the end of the statement and be directly followed by the data section name.

```
PT demo_db:rptrun Product Suppliers List -dDELETED_
```

or

PT demo\_db:rptrun -dDELETED Enter Name of Report to Run :?Product Suppliers List

In the above 2 commands, the "-d" option instructs PRReport to use the data section "DELETED" in the query statement.

If the "-d" option is omited, the default data section is used. If no default data section is defined, the main data file is used.

	Α	В	С	D	E	F
1		This is the Merged Header				
2	Org ID	Name	Org. Type	Туре	Zip Code	
3	108	Conservatory Logistics Outlet Inc.	Customer	С	15257	
4	109	Concrete Helpline Wholesalers Corp.	Customer	С	10093	
5	112	Coal Framework Merchants Corp.	Customer	С	3165	
6	127	Container Finance Resellers Corp.	Customer	С	18486	
7	157	Communications Logistics Services Inc.	Customer	С	19751	
8	161	Cooling Leasing Professionals Corp.	Customer	С	13067	
9	182	Computing Installation Group Corp.	Customer	С	18891	
10	199	Cooking Care Wholesalers Corp.	Customer	С	16689	
11	56	Computing Delivery Associates Corp.	Customer	С	11829	
12	68	Container Formation Services Inc.	Customer	С	18680	
13	78	Confectionery Installation Agency Corp.	Customer	С	1018	
14	95	Communications Design Outlet Corp.	Customer	С	17158	
15	202	Concrete Repair Professionals Inc.	Supplier	S	16555	
16	221	Container Delivery Merchants Corp.	Supplier	S	19533	
17	262	Concrete Renovation Associates Inc.	Supplier	S	16201	
18	270	Cooling Installation Experts Inc.	Supplier	S	14468	
19						
20						

The RPTRUN command can also be used to generate multi-sheet report. A multi-sheet report is an Excel workbook that has more than one worksheet. Each worksheet will contain one report.

The create multi-sheet reports with RPTRUN, enter RPTRUN at TCL and press enter. You will be prompted for a report name or TCL statement. After pressing enter on the first report, RPTRUN will prompt you for another report name/TCL statement. Enter as many as required. When done, press enter again to start generating the report.

	А	В	С	D	E	F	G	н	1	-
1		Product								
	Product	Product Desc	Qty	Sales Unit Price						
2		1								
3	B4C79	Brown 4-Way Conduit	3	87.72						
4	B4C79	Brown 4-Way Conduit	1	87.72						
5	BAB3	Beige Adjustable Barrel	9	79.08						
6	BAB3	Beige Adjustable Barrel	9	79.08						
7	BAF105	Black Adjustable Fixing	4	102.86						
8	BAF151	Blue Adjustable Fixing	4	52.42						
9	BAF151	Blue Adjustable Fixing	6	52.42						
10	BAF151	Blue Adjustable Fixing	1	52.42						
11	BCB98	Bronze Compact Brace	8	- 0°						
	$\leftarrow$	contact list order list 2	Report 3	•	: •					Þ

Created with the Standard Edition of HelpNDoc: Easily create Web Help sites

# phiReport API

Available with Edition: PRO and CLOUD

Reports can run from a BASIC program using the built-in API.

Program PHIDEMOBP XL.DEMO illustrates the use of the API.

**API** Features

- Create multi-sheet workbooks where each report is in a separate sheet within the same workbook.
- Run Pre-built reports (created in phiReport) or standard TCL SORT/LIST statements.
- Customize each sheet independently from one another (alternate color, header, footer...)
- Automatically execute reports pre-built settings (save as, email, print...)
- Print reports on upto two separate printers.
- Only ONE API call to know!

CALL XL.BuildReport(ReportName, TCL, Header, Footer, RptOptions, RptPrompts, ERR)

0001	PROGRAM XL.DEMO
0002	
0003 0004	* Excel Report Builder *
0005	* API Demo Program
0006	
0007 0008	<ul> <li>Create the following arrays for XL.BuildReport.</li> <li>'n' denotes the report number.</li> </ul>
0000	*
0010	* ReportName:
0011 0012	<ul> <li>n,1: Report Name or Name of worksheet.</li> <li>If a TCL command is provided, this parameter is the name of the worksheet.</li> </ul>
0012	<ul> <li>If a TCL command is provided, this is the report name defined in phiReport Builder</li> </ul>
0014	* n,2 : Optional Data File Section
0015 0016	<pre>* n,3 : Sheet Name. By default the name of the sheet defaults to the report name *</pre>
0010	* TCL:
0018	* n : TCL command to run. Leave blank if using reports defined in phiReport Builder.
0019 0020	* Header : *   n   : Header to use for each report
0020	<ul> <li>n,1: Left Header</li> </ul>
0022	* n,2 : Center Header
0023 0024	* n,3 : Right Header * Footer :
0024	<ul> <li>rooter :</li> <li>rooter to use for each report</li> </ul>
0026	* n,l : Left Footer
0027	* n,2 : Center Footer
0028 0029	* n,3 : Right Footer *
0030	* RptOptions:
0031	* 1,n,1 : Enable or disable Alternate row color. 0=0ff else On. * 1 n 2 : Alternate color
0032 0033	<pre>* 1,n,2 : Alternate color * 2,n : Export Mode, Skip formating</pre>
0034	* 3,n : Run in Account
0035	* 4,n : SaveAs File name
0036 0037	<pre>* 5,n : 1=Hide Excel else Show Excel. * 6,n,1 : PreProcess Type</pre>
0038	* 6,n,2 : PreProcess Command
0039	* 7,n,1 : PostProcess Type
0040 0041	<ul> <li>7,n,2 : PostProcess Command</li> <li>8,n : Preview Output</li> </ul>
0041	<pre>* 9,n,1 : Send to printer 1 (0=don't print, n = number of copies)</pre>
0043	* 9,n,2 : Printer 1 Name
0044 0045	<pre>* 9,n,3 : Send to Printer 2 (0=don't print, n = number of copies) * 9,n,4 : Printer 2 name</pre>
0046	*
0047	* Send Email: RptOptions<4,n> must have a file name to SaveAs
0048 0049	<pre>* IF previewing the output file using Excel, Rpt0ptions&lt;5,1&gt; must be set to 1 (hide excel). *</pre>
0050	* 10,1 : Email 1=send else don't send
0051	* 10,2,1 : Send To
0052 0053	* 10,2,2 : CC * 10,2,3 : BCC
0054	* 10,3,1 : Subject
0055	* 10,3,2 : Body. Use   for LF *
0056 0057	* 11,n : Landscape. Enter the word "Landscape" to create landscape mode. (Case sensitive)
0058	*
0059	* For multi-sheets. When creating multi-sheet reports, you can save and preview the workbook.
0060 0061	* 12 : workbook name * 13 : workbook preview
0062	*
0063	<pre>* 14,n : Custom Template * 15.n : Starting Cell. Defautl = "Al"</pre>
0064 0065	* 15,n : Starting Cell. Defautl = "A1" * 16,n : Custom Template Sheet
0066	* 17,n : Include Custom Header
0067	* 18,n : Macro Name * 19,n : Eunction Name
0068 0069	* 19,n : Function Name * 20,n : Function Params
0070	* 21,n : Module Type
0071	* 22,n : List of Value Pair
0072 0073	* 23,n : Text Header. Use " <lf>" for line feed * 24,n : Repeat Header</lf>
0074	* 25,n : Fit2Page Wide
0075	* 26,n : Fit2Page Tall
0076 0077	* 27,n : FooterlName * 28,n : FooterlRows
0078	* 29,n : Footer2Name
0079	* 30,n : Footer3Rows
0080 0081	* 31,n : Footer2Pad * 32 : Multi-Page Template
0082	* 33,n : Global Filter Flag
0083	* 34,n,1 : DataBlob Flag
0084 0085	* 34,n21 : DataBlob Row 1 header *
0086	*************
0087	

Prepare the data arrays and call the XL.BuildReport subroutine.

0088	CRT "Running XL.DEM0"
0089	GOSUB InitReport ;* Initialize report variables
0091	
0092 0093	RptCount = 0
0094 0095	GOSUB Report1 ;* Product List GOSUB Report2 ;* Invoice Form 1
0096	GOSUB Report 2 ;* Invoice Form 2
0097	GOSUB Report4 ;* Invoice List Detail
0098 0099	GOSUB Report5 ;* Customer List
0100	CALL XL.BuildReport(ReportName, TCL, Header, Footer, RptOptions, RptPrompts, ERR)
0101 0102	IF ERR # "" THEN PRINT ERR
0103	
0104 0105	CRT "Demo Completed." STOP
0106	
0107 0108	
	itReport:
0110 0111	ReportName = "" TCL = ""
0112	Header = ""
0113 0114	Footer = "" Rpt0ptions = ""
0114	BotPrompts = ""
0116	ERR = ""
0117 0118	DBG = ""
0119	RETURN
0120 0121 Rep	ort1:
0122	RptCount = RptCount + 1
0123 0124	ReportName <rptcount> = "Product List" ;* Report Name ReportName<rptcount,3> = "Live Products" ;* Sheet Name</rptcount,3></rptcount>
0125	
0126 0127	RptOptions<1,RptCount,1> = "1" ;* Enable Alternate Colors RptOptions<1,RptCount,2> = "16644567" ;* Color code
0128	* Report Header text
0129 0130	RptOptions<23,RptCount>  = "Product Listing as of <b>%%@DATE%%</b> <lf>This is the list of <b><u>Active</u></b> products<lf>"</lf></lf>
0131	RETURN
0132 Rep 0133	RptCount = RptCount + 1
0134	ReportName <rptcount> = "Invoice Form" ;* Report Name</rptcount>
0135 0136	RptPrompts <rptcount,1> = "Invoice Number" ;* User Prompt defined as %%@Invoice Number% in Report RptPrompts<rptcount,2> = "12345" ;* Answer to above user prompt</rptcount,2></rptcount,1>
0137	RETURN
0138 Rep 0139	Nort3: RptCount = RptCount + 1
0140	ReportName <rptcount> = "Invoice Form" ;* Report Name</rptcount>
0141 0142	RptPrompts <rptcount,1> = "Invoice Number"  * User Prompt defined as %%@Invoice Number% in Report RptPrompts<rptcount,2> = "12121"  * Answer to above user prompt</rptcount,2></rptcount,1>
0143	RETURN
0144 Rep 0145	nort4: RptCount = RptCount + 1
0146	ReportName <rptcount> = "Invoice List Detail" ;* Report Name</rptcount>
0147 0148 Ren	RETURN Jort5:
0149	RptCount = RptCount + 1
0150 0151	ReportName <rptcount> = "Customer List" ;* Report Name</rptcount>
0152	* TCL command to execute
0153 0154	TCL <rptcount> = "LIST CUST.SAMPLE NAME ADDRESS.1 CITY STATE ZIP BY NAME"</rptcount>
0155	* Alternate colors
0156 0157	RptOptions<1,RptCount,l> = "1" RptOptions<1,RptCount,2> = "16644567"
0158	
0159 0160	* Header Header <rptcount,1> = "Printed on &amp;D at &amp;T"</rptcount,1>
0161	Header <rptcount,2> = "List of Customers"</rptcount,2>
0162 0163	Header <rptcount,3> = "Printer by &amp;USER"</rptcount,3>
0163	
0165	Footer <pptcount,2> = "Customer List" Footer<pptcount 2=""> = "Boogo 60 con 6N"</pptcount></pptcount,2>
0166 0167	Footer <rptcount,3> = "Page &amp;P or &amp;N"</rptcount,3>
0168	RETURN
0170	END

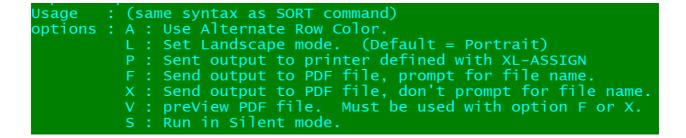
Created with the Standard Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

# ad-hoc Reports

## Available with Edition: PRO and CLOUD

It is possible to create Excel workbooks directly from TCL without creating Data Views and Report Definitions from phiReport Builder. Verbs XLSORT and XLLIST use the same syntax as regular SORT and LIST verbs but with Excel extensions.

Run XLLIST or XLSORT without any parameters will display the verbs' options.



XL-ASSIGN works similarly to SP-ASSIGN except that XL-ASSIGN works with local Windows printers

Run XL-ASSIGN without any parameters display its current status.

```
*#001:Snagit 13
 002:Microsoft XPS Document Writer
 003:Microsoft Print to PDF
 004:Foxit Reader PDF Printer
 005:Fax
 006:Brother PC-FAX v.3.1
 007:Brother MFC-9340CDW Printer (Copy 1)
 008:Brother MFC-9340CDW Printer
* Denotes Windows' system default printer.
 Denotes user's current active printer.
 Number of copies to print: 1
XL-ASSIGN useage:
  XL-ASSIGN {Number of Copies}F{Printer Number | Printer Name}
ex:
  XL-ASSIGN F1
  XL-ASSIGN 2FText Printer
```

Created with the Standard Edition of HelpNDoc: Free Web Help generator

# **User Access Control (UAC)**

Available with Edition: PRO and CLOUD

User Access Control is used to control user access to certain features of the application and reports. When turned off, all users have access to every features and every reports on the system.

🏟 phiReport Configu		d Preferences			—		×
File Edit Tools I	Help						
C 🔚 🗊 🔍 🧊 🚽							
Report Configuration Email Configuration Account Setup							
User Access Control REST Data Services Activation							
Turn UAC	On 🔿	Off					
Access Type A	ccess De	tail		User	Name		
	llow Acce	ss to Program		📃 Eri	-		
PRSETUP				🗹 He			
PRRUN				Ja			
PRQUERY Data Views				📃 Ka 🔽 Ma			
Reports							_
Categories					illiam		
Carogonoo					mo User		
				< Che	ck All	JnCheck	> All
					ow all Use	ers	
phiReport Builder 3.0.0 10 Jan 2018 - PT demo_db (PTI7) - Port 19							

To set UAC for the PR features (PRCONFIG, PRSETUP, PRRUN and PRQUERY), select the Access Type. The Access Detail is automatically selected and the list of user is displayed on the User Name checklist. By default the "Allow all Users" checkbox is checked which is equivalent to selecting all users in the list. To selectively select users, uncheck "Allow all Users" to "turn on" the User Name list and click on the user to grant access.

Use "Check All" and "UnCheck All" to quickly select or unselect all users. The "Check All" option is equivalent to the "Allow all Users" option.

Don't forget to click on the save button to save your changes before moving on to the next Access Type or changing tab.

Alternatively you can setup UAC from TCL using the PRUAC verb.

PRUAC 3.0.0	phiReport USER ACCESS CONTROL	(Currently ON)
2. List 3. List 4. List 5. List	User Access Control (UAC) On or Off. of users with access to PRCONFIG of users with access to PRSETUP of Users with access to PRRUN of Users with access to PRQUERY er your selection or RETURN to end : _	

And finally you can maintain the UAC settings in your own programs by updating the phiReport.UAC item in DICT XLBP file.

001 ON/OFF 002 Multi-value list of users with access to XLCONFIG
003 Multi-value list of users with access to XLSETUP
004 Multi-value list of users with access to XLRUN
005 Multi-value list of users with access to XLQUERY
eoi 005
Example:
001 ON
001 ON 002 HENRY]JACK]MARY
001 ON 002 HENRY]JACK]MARY 003 Henry]JACK]Peter]XLDemoUser
001 ON 002 HENRY]JACK]MARY
001 ON 002 HENRY]JACK]MARY 003 Henry]JACK]Peter]XLDemoUser

Created with the Standard Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

# **System User**

The list of users displayed in "User Name" on the "User Access Control" tab can programatically be customized based on your application requirements. Some applications use non-system users in which case you will need to create your own subroutine to return the list of users. This is done by editing the subroutine **RPT.GET\_USER\_LIST** in the **USERBP** file.

The standard **RPT.GET\_USER\_LIST** subroutine for D3 is as follows:

```
SUBROUTINE RPT.GET_USER_LIST(lstUsers, ERR)
0001
0002
0003
            * Subroutine to return the list of users.
0004
0005
                      lstUsers<1,n,1> = User Name displayed
0006
                      lstUsers<1,n,2> = User ID
0007
0008
                      where n is the user count.
0009
0010
            * ERR : Return any error message to be displayed in an error dialogbox
0011
0012
0013
            lstUsers = ""
0014
            OPEN "Users" TO f.Users ELSE
ERR = "Unable to open USERS file."
0015
0016
0017
               RETURN
            END
0018
0019
0020
            n = 0
0021
            TCL = 'SELECT Users WITH A0 # "[$" AND WITH A1 # "" BY A1'
0022
            EXECUTE TCL CAPTURING CAP
0023
0024
            LOOF
               READNEXT ID ELSE EXIT
0025
               READ User FROM f.Users, ID THEN
0026
0027
                  n = n + 1
                   lstUsers<1,n,1> = User<1>
0028
                   lstUsers < 1, n, 2 > = ID
0029
0030
               END
0031
            REPEAT
0032
0033
            RETURN
0034
                                                                                 signification and also signification of
0035
```

You may make this subroutine as simple or as complex as required as long as the returned data is in the expected format.

## Returned format

Parameter IstUsers: (single attribute, multi-value, 2 sub-values per value.)

```
lstUsers<1,1,1> = "User Name 1"
lstUsers<1,1,2> = "UserID1"
lstUsers<1,2,1> = "User Name 2"
lstUsers<1,2,2> = "UserID2"
```

\*\*\* WARNING \*\*\* When a custom **RPT.GET\_USER\_LIST** is used, you MUST also provide custom **RPT.GET\_USER\_ID** and **RPT.CHECK\_USER\_ID** subroutine to validate users.

The RPT.GET\_USER\_ID subroutine returns the currently logged on user.

0001 0002	SUBROUTINE RPT.GET_USER_ID(UserID, ERR)
0003	* Subroutine to return the currently logged on user.
0004	*
0005	* UserID format:
0006	*
0007	* ERR : Return any error message
0008	*****************
0009	
0010	UserID = @USER
0011	
0012	
0013	RETURN
0014	************************
0015	END
0016	

The **RPT.CHECK\_USER\_ID** subroutine validates if a user Id exists.

0001	SUBROUTINE RPT.CHECK_USER_ID(UserID, Result)
0002	***************************************
0003	* Subroutine to check if a user id exists.
0004	*
0005	* UserID format:
0006	*
0007	* Result : Return UserID if exists
0008	************************
0009	Result = OCONV(UserID,"tDM,USERS,;x;;0")
0010	
0011	RETURN
0012	************************
0013	END
0014	

The **RPT.LOGON\_USER** subroutine validates a username and password combination. This subroutine is called by the Json/OData services to authenticate a user. This subroutine is only called when token based or basic authentication is used.

```
SUBROUTINE RPT.LOGON_USER(UserId, Password, Result)
0001
                                                                         0002
0003
           * Subroutine to validate a username and password combination
0004
0005
           * UserID format:
0006
0007
           * Result : Return error message or blank
0008
                                                     *******
0009
           OPEN "www.Users" TO f.Users ELSE
Result = "Unable to open www.Users file!"
0010
0011
              RETURN
0012
0013
           END
0014
           READU User FROM f.Users, UserId LOCKED
Result = "User record locked! Please try again in a few minutes."
0015
0016
           END THEN
0017
               IF Password = User<1> THEN
0018
0019
0020
                 Result = ""
0021
              END ELSE
                 Result = "Unknown Username/Password"
0022
              END
0023
0024
              RELEASE f.Users, UserId
0025
           END ELS
              Result = "Unknown Username/Password"
0026
           END
0027
0028
0029
0030
           RETURN
0031
0032
           END
0033
0034
```

Created with the Standard Edition of HelpNDoc: Create cross-platform Qt Help files

# **Advanced Topics**

Created with the Standard Edition of HelpNDoc: Benefits of a Help Authoring Tool

# **Macro Modules**

Macro Module		
Macro Source	Excel Macro File     O VBA.Modules Item	
Macro Name	MyMacro.xlsm	📂 🛄
Function to Execute	TestFunction	
Function Parameters		~
		~

## Macro Module

If a report requires additional processing in Excel, you can instruct phiReport to run your custom VBA function once the report generation is complete.

## Macro Source

phiReport supports 2 types of VBA Macro injection methods.

### Excel Macro File

In this mode, the VBA Macro is created and saved as an Excel file. Supported Excel formats are XLS, XLSX and XLSM. To run the macro, phiReport downloads the Excel file to the local workstation and executes the function defined in "Function to Execute".

Create your VBA source in Excel and use all the debugging tools available from within Excel. Once debugged the VBA source is saved in an Excel worksheet. Place the Excel worksheet where it can be accessible by all your users. In an intranet environment, you can place it on a shared network folder. In an internet environment, you can place it on a web server. The Excel file is copied or downloaded everytime phiReport needs to run your macro.

### VBA Modules Item

In this mode, the VBA Macro is stored in a Pick file VBA.Modules. To run the macro, phiReport "injects" the VBA source to the Excel worksheet then executes the macro.

To create the VBA source you need to use Excel VBA editor/debugger then copy the source and paste it into a Pick item in VBA.Modules. Once in Pick it becomes part of the database. A database backup will save all your VBA source. There's no special consideration for deployment since everything is "injected" directly from Pick to your workstation.

## Security Consideration

By default, Excel disables all macros with notification. This means that everytime you try to run a macro, Excel will prompt the user with a warning message and will not run the macro. Since phiReport relies heavily on Excel VBA macros, the minimum required setting is "Disable all macros except digitally signed macros". This means that the first time a phiReport macro is run, Excel will display the 3phi Solutions security certificate to identify itself as "safe to run". Once the signature is approved, Excel will no longer ask for approval unless the certificate has expired. All VBA macros produced by 3phi Solutions are signed.

Trust Center		×
Trusted Publishers Trusted Locations Trusted Documents Trusted Add-in Catalogs Add-ins	Macro Settings         O Disable all macros without notification         Disable all macros with notification         Disable all macros except digitally signed macros         Enable all macros (not recommended; potentially dangerous code can run)	
ActiveX Settings Macro Settings Protected View	Developer Macro Settings Trust access to the <u>V</u> BA project object model	

When using the Excel Macro file, you need at a minimum "Disable all macros except digitally signed macros" and sign all you custom VBA modules. A VBA Digital signature must be purchased through an online security provider, free certificate are also available online.

When using the VBA Modules method, you need to "Enable all macros" and also "Trust access to the VBA project object model" since the injection requires access to the project object model.

Digital Signature		?	×	
The VBA project is currently signed as Certificate name: 3phi Solutions Inc.				
		<u>D</u> e	tail	
Sign as				
Certificate name:	3phi Solutions Ir	nc.		
	<u>R</u> emove	<u>C</u> ho	ose	
	ОК	Ca	incel	

Macro Name

Name of the Excel worksheet of the VBA.Module item to "inject"

<u>Function to Execute</u> Name of the VBA macro to execute. The function must be a VBA FUNCTION and not a SUB.

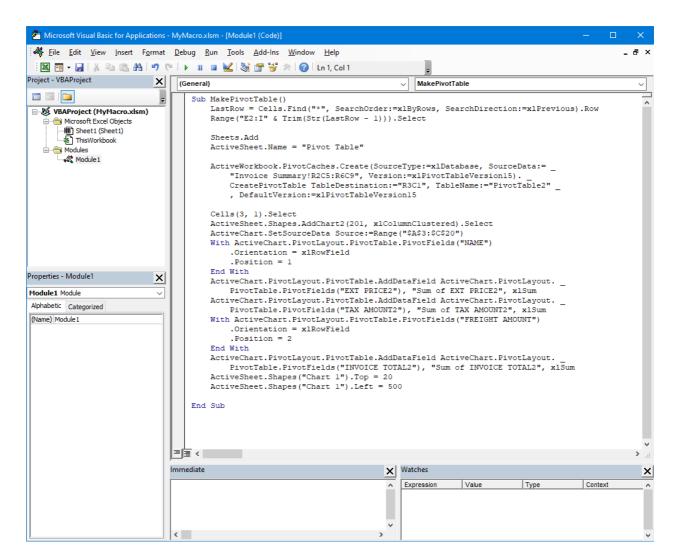
<u>Function Parameters (for future use)</u> Function parameters to pass to the VBA Function

Created with the Standard Edition of HelpNDoc: Generate EPub eBooks with ease

# **Custom Macro Demo**

Demo report "<u>Invoice List Summary</u>" demonstrates how you can use an external macro to add a pivot table to your report.

Macro Module		
Macro Source	Excel Macro File O VBA.Modules Item	
Macro Name	http://3phi.solutions/phiReport/MyMacro.xlsm	📂 🛄
Function to Execute	MakePivotTable	
Function Parameters		^
		~
hiReport 3.1 Pro (D3)	Sample Size 200 🗸	



The demo macro creates a new sheet "Pivot Table" and builds the pivot table using the data from the "Invoice Summary" sheet.

A	В	с	D	E	F	G	н	- I.	J	К	L	M	A			<b>.</b>		
												_	PI PI	ivotChart F	ields	*		
				C	Sum of	EVT ODICED	Sum of TAX AN	IOLINT2 Sum	of INVOICE T	OTAL 2		+	Ch	oose fields to add	to report	6 Ø		
Row Labels			Sum of INVOICE TOTAL2		60000	CAT PRICES		ICONT2 Juli	I OF INVOICE I	UTALL								
ABC Electronics Corp	45787.25	3662.98	50750.63		50000							-	Se	arch				
1300.4	45787.25	3662.98	50750.63															
Ajax Computer Electron		2887.204	40927.854		40000									NAME EXT PRICE2				
1950.6	20019		23571.12		30000					Values				TAX AMOUNT2				
(blank)	16071.05	1285.684	17356.734		20000			_		Sum of	EXT PRICE2			✓ TAX AMOUNT2 ✓ FREIGHT AMOUNT				
E Longo Toyota 254	11319 11319	905.52 905.52	12478.52 12478.52		10000					Sum of	TAX AMOUNT:	2 4		INVOICE TOTAL				
254 Grand Total					0					■ Sum of	INVOICE TOTA	12		INVOICE TOTAL	-			
Grand Total	93196.3	7455.704	104157.004			1300.4	1950.6	(blank)	254									
						ABC	Ajax Compute	r Electronics	Longo Toyota									
						Electronics												
						Corp						_						
					NAME 1	FREIGHT A	MOUNT -	_			+	-	Dr	ag fields between	areas he	low		
				(	>							0		-				
													T	" Filters		III Legend (Series)		
																$\Sigma$ Values		
													=	Axis (Categories	)	$\Sigma$ Values		
													1	NAME	Ŧ	Sum of EXT PRICE2		
													F	REIGHT AMOUNT	Ŧ	Sum of TAX AMOUNT2		
																Sum of INVOICE TOTA		

### Here's the macro

Created with the Standard Edition of HelpNDoc: Free Web Help generator

# **Custom Macro Modules**

# Available with Edition: PRO and CLOUD

phiReport supports external macros via Excel macro sheets (XLSM) and code injection.

- Excel Macro Sheet are Excel files with extension XSLM. The macros are stored in Excel's VBA modules which are accessible from the View > Macros menu or ALT-F11 shortcut.
- Code Injection are clear text VBA source code stored in your MV database in VBA.Modules file. This file is created by default in your work account after you enable that account for phiReport.

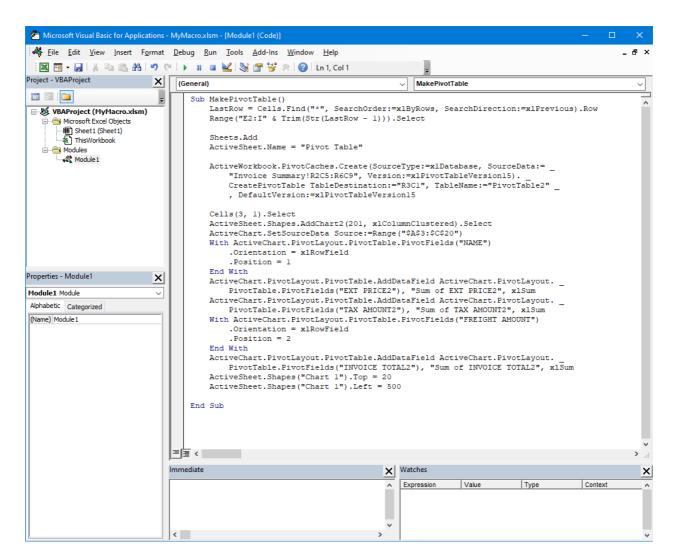
The external macro can be as complex as required and are run once phiReport completes building the main report. This allows you to create your own advanced reporting system to generate pivot tables or charts.

Macro Module		
Macro Source	Excel Macro File O VBA.Modules Item	
Macro Name	http://3phi.solutions/phiReport/MyMacro.xlsm	📂 🛄
Function to Execute	MakePivotTable	
Function Parameters		^
		<b>v</b>
hiReport 3.1 Pro (D3)	Sample Size 200	
Macro Module		
Macro Source	O Excel Macro File	
Macro Name	MyMacro 🗸 😋	<b>X</b>
Function to Execute	MakePivotTable	
Function Parameters		^
		~
hiReport 3.1 Pro (D3)	Sample Size 200 v	arnumber

To call an external macro enter the source of the macro, the macro file name or item name and the function or sub to execute. The Function Parameters field allows you to pass parameters to your excel function/sub.

Note: In VBA, FUNCTIONs return a result whereas SUBs don't. phiReport does not differentiate between the two since any returned values from a Function will be ignored.

In Excel Macro File, enter the name of the XLSM file and click on Line to open the Excel sheet.



In VBA.Modules Item, enter or select the name of the macro file and click on to edit the macro in WED (AccuTerm Code Editor)

🗎 wED - [VBA.Modules MyMacro*] — 🗆 🗙
<u>F</u> ile <u>E</u> dit <u>S</u> earch <u>I</u> nsert <u>V</u> iew <u>T</u> ools <u>W</u> indow <u>H</u> elp
▷ 🚰 品 🗞 🕹 🤊 ୯ 🐇 🗞 🖉 🖉 🖶 ଛା 🗟 🔊 🗟 🖉 🎯 🚳 🛣 🖪 🗮 🕹
VBA.Modules MyMacro*
<pre>Sub MakePivotTable() LastRow = Cells.Find(***, SearchOrder:=xlByRows, SearchDirection:=xlPrevious).Row Range(*E2:I* &amp; Trim(Str(LastRow - 1))).Select Sheets.Add ActiveSheet.Name = "Pivot Table" ActiveWorkbook.PivotCaches.Create(SourceType:=xlDatabase, SourceData:= _     "Invoice SummaryIR2CS:RSC9", Version:=xlPivotTableVersionIS). CreatePivotTable TableDestination:="R3C1", TableName:="PivotTable2" , DefaultVersion:=xlPivotTableVersionIS Cells(3, 1).Select Cells(3, 1).Select Cells(3, 1).Select Cells(3, 1).Select ActiveChart.SetSourceData Source:=Range("\$A\$3:\$C\$20") Cells(3, 1).Select Cells(3,</pre>
↓
Ln 34, Col 1 Ins 20-Sep-19 11:17 PM

Enter the name of the Function or Sub to call and run your report.

Created with the Standard Edition of HelpNDoc: Free Qt Help documentation generator

# **Demo Reports**

Starting with phiReport 3.1.4, sample reports are provided and installed in your phiReport account.

To run the demo reports you must have the AccuTerm sample data files installed. Click here for instructions on how to install the sample data files and reports.

Created with the Standard Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

# Installation

Before you can run the demo reports, you must install the AccuTerm sample data files and the phiReport demo reports.

1. Install AccuTerm sample data files

To install the AccuTerm s	ample data files log to yo	our ACCUTERM acco	unt and enter LOAD-
ACCUTERM-PROGS from TCL.			

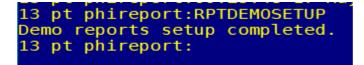
Install the following items:	Install into I	host files:	
🗹 File transfer programs	FTBP		Info
🗹 GUI support programs	GUIBP	_	Info
GUI sample projects	GUIBP	GUIAPPS	Info
🗹 ObjectBridge support	OBJBP		Info
☑ ObjectBridge samples	OBJBP	_	Info
Smart User Interface library	SUIBP	_	Info
Sample subroutine library	SAMPLES		Info
🗹 AccuTerm demos	DEMOBP	_	Info
GUI tutorial examples	GUIBP	GUIAPPS	Info
U''Modernizing the user interfa	ce" UIEX		Info
🗹 Sample data files: CUST.SAM	PLE, INV.SAMPLE, F	PROD.SAMPLE	
U''Modernizing the user interfa	ce'' UIEX		

Check the "Sample data files" and click OK.

2. Install phiReport demo reports

The phiReport demo reports are normally installed during the installation/upgrade of phiReport if the AccuTerm sample data files were already installed.

To manually install or re-install the demo reports, enter RPTDEMOSETUP from your phiReport account.



In order to fully run the demo reports, you need to be running the PRO edition of phiReport. If you do not have a PRO license, temporarily activate your free 30 day TRIAL license. Run **PRCONFIG** and select the <u>Activation</u> tab. Select "**TRIAL**" License Type and click **Activate Online** 

You can also run **PRVERSION** from TCL to verify your activation status.



Created with the Standard Edition of HelpNDoc: Easy CHM and documentation editor

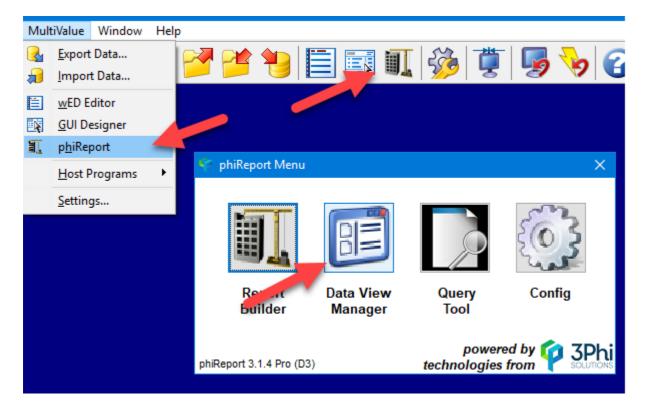
# **Demo Reports**

phiReport (3.1.4 or better) comes with sample reports you can run and modify as required.

The data used for the reports are those found in the AccuTerm sample data. The demo reports should be run from the phiReport account .

**Report Data Views** 

Each demo report runs off a demo Data View that uses AccuTerm's sample data file dictionaries. To view the Data Views run **PRSETUP** from TCL or select **Data View Manager** from the phiReport menu.



Select the Data View you want to look at by selecting it from the Data View dropdown list. Note that you can recover the original version of the Data Views and Report by running**RPTDEMOSETUP** from TCL. This would overwrite any changes you have made to the Data Views and Reports.

😰 phiReport Data View Manager			– 🗆 X
File Edit Tools Help			
C 🔚 📈 🗙 🔟 🗊 🚳 🚽			
Data View Account phiReport	(Account name where to store the Views)	Column Editor	Merged Header Columns
Data Account phiReport		Field ID LineItemTotal	Enable Merged Header Columns
Data File INV.SAMPLE		Field Name Line Item Total	Font
Data View INV.VIEW	C List View O Grid View Tree View	Type A 🗸 Attribute 4	Color Text Cell Data Cell
Data File's Dict Items	Data View's Columns 🛛 🦈	Header Total	Style Bold Superscript
Field ID     Field Name     Att       CITY ST.ZIP     CITY/STATE/ZIP     0	CITY "CITY" (2)     CUST NO "CUSTOMER" (2)     DATE "DATE" (1)     ESSAI "ESSAI" (13)     FRT "FREIGHT AMOUNT" (7)     INV. NO TIVVOICE NUMBER" (0)     INV. NO TIVVOICE NUMBER" (0)     NAME "NAME" (2)     NAME "NAME" (2)     SHIP.DATE "SHIP DATE" (12)     STATE "STATE" (2)     STATE "STATE" (2)     TAX "TAX" (6)     D ZIP "ZIP" (2)     Lineltem	Conversion Correlative Data Type Numeric Column Width 10 Field Type Single Value Multi-Value MV Group LineItem V Use as Display Field Use as Criteria Field Hidden Column Wrap Column Display Decimal Places 2 Sheet Control	Style     Date     Subscript       Underline     Strikethrough       Border     Too       Left     Right       Justification     Left       Right     Color       Color     Text       Cell     Header       Style     Bold       Subscript     Subscript       Underline     Stikethrough       Border     Too       Eate     Bold       Subscript     Subscript       Underline     Stikethrough       Border     Too       Border     Too       Border     Botd       Justification     Left       Right     Justification
< >> <>> >> >> >> >> >> >> >> >>> >>> >	AMOUNT "AMOUNT" (4)     BAL DUE "BALANCE DUE" (8)     CODEV "CODEV" (13)     DESC "PRODUCT DESCRIPTION     LineAmount "(4)     DESC "PROCEC" (4)     DAVIS TRACE" (5)     DAVIS TRACE" (5)     DAVIS TRACE" (5)     DAVIS TRACE" (5)     DAVIS TRACE TRACE" (5)     DAVIS TRACE TRACE" (5)     DAVIS TRACE TRACE" (5)     DAVIS TRACE TRACE TRACE TRACE TRACE	Formula = [LineAmount]+{FRT}+{TAXAMT} Add Comments Clear Data Clear Dup. Data Repeat Detail Repeat Formula Set as End of Freeze Pane Page Break-On	Lotata     Image: Color Text     Cell     Data Cell       Style     Bold     Superscript       Italic     Subscript       Underline     Strikethrough       Border     Top       Border     Top       Bottom     Right       Justification     Left       Image: Color Color     Image: Color Color       Image: Color Color     Image: Color       Image: Color Color

There are several ways to run the demo reports.

- 1. From TCL using the RPTRUN command
- 2. From TCL running the XL.DEMO demo program
- 3. From PRRUN phiReport Builder
- 4. From PRQUERY phiReport Query

There are 5 demo reports in your phiReport account

- Product List
- Customer List
- Invoice List Detail
- Invoice List Summary
- Invoice Form
- 1. From TCL using the RPTRUN command

From TCL enter RPTRUN and press enter. The program will prompt you for the report name to run. You can enter any of the demo report names as listed above. After pressing enter in the report name RPTRUN will prompt you for another report. At this point if you press enter without providing a report name RPTRUN will generate the Excel report. If you enter multiple report names (one after each enter key) RPTRUN will generate a single Excel workbook with multi worksheets; one report per worksheet.

13 pt phireport:rptrun			
phiReport 3.1.4 Copyright (c) 2018 3phi Solutions Inc. * Create single or multi-sheet reports.			
* create single of mutti-sheet reports.			
Enter the Name of the Report or a TCL command to Run :?F	Induct	liet	
Enter the Name of the Report or a TCL command to Run :??			
Enter the Name of the Report or a TCL command to Run :?I			Immo r.V
Enter the Name of the Report or a TCL command to Run :?I			
Enter the Name of the Report or a TCL command to Run :?]			clait
Enter the Name of the Report or a TCL command to Run :?	II VOIC		
Please enter a value for "Invoice Number" - (enter "_qui	+ " +	o quit)	212121
Creating Excel Report. Please wait	<u> </u>	, datc)	.12121
Preparing Data for sheet "Product List". Please wait			
Preparing Data for sheet "Customer List". Please wait			
Preparing Data for sheet "Invoice List Summary". Please			
Preparing Data for sheet "Invoice List Detail". Please			
Preparing Data for sheet "Invoice Form". Please wait			
Creating Excel Worksheet(s). Please wait			
>>>> Report Completed at 10:56:34 <<<<<			
>>>> Report Completed in 00:00:32 <<<<<			
>>>> Excel Run Time 00:00:22			
Excel Report Completed.			
13 nt phireport.			
A B C D E	F	G	Н
	Г	0	п
1 INVOICE			
2			
3			
Company			
6			

8 9 10 11	Bill	ABC Electronics Corp 2535 N Central Ave Suite 2365	Company Inc. 123 Mains St. Irvine, CA 92123	12121 When Remitting Please Refer to Above Number
12 13 14 15 16	Ship To	ABC Electronics Corp 2535 N Central Ave Suite 2365	Customer Bill To No. Sta 1118	Invoice Date       123       05/31/1988
10	Daalaan Carda	Phoenix, AZ 85052 USA	nary   Invoice Detail	Invoice 12121 +

Remit To

Invoice Number

## 2. From TCL running the XL.DEMO demo program

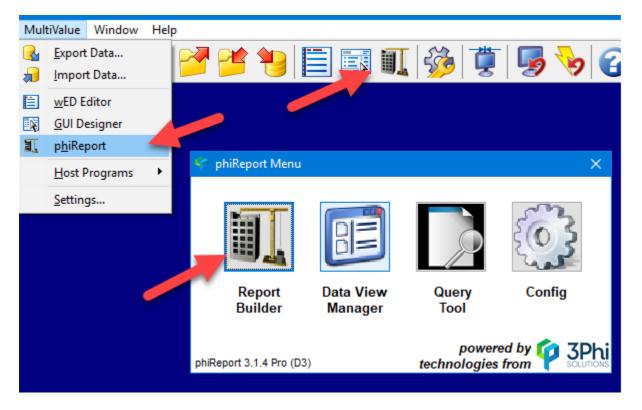
The XL.DEMO program source code can be found in PHIDEMOBP file. The demo program demonstrates how to run your reports using phiReport's unique API call XL.BuildReport. This demo program creates a multi-sheet workbook similar to the RPTRUN command shown above.

### 3. From PRRUN - phiReport Builder

7

8

From TCL enter PRRUN or click on the phiReport button on the AccuTerm toolbar or select phiReport from the AccuTerm menu "MultiValue". Click on Report Builder to launch phiReport Builder



From phiReport Builder click on the Report dropdown list and select a report to run

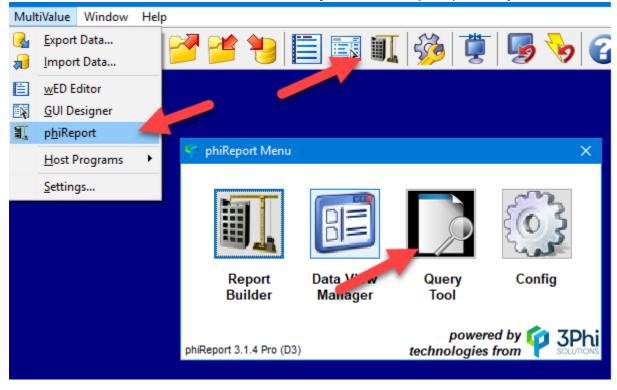
🛐 phiReport B	uilder		_	
File Edit Rur	n Tools Help			
2 C	듺 🛃 🗙 🕟 🖂 🚃 🛄	15 📝 🛃		
Category	** All **	~ C	Data Section	#
Report		C		
Data View	Report Name	Category		
	Customer List	phiReport Demo		
Op Fiel	Invoice Form	phiReport Demo		Sort
	Invoice List Detail	phiReport Demo		
	Invoice List Summary Product List	phiReport Demo phiReport Demo		
	Floddet Elst	phikepon Demo		
Poport Param	ators Pro/Post Processos Output Header/F	Footor Codos - Provio	W Daw Data	Config

Click on the Run Query button (1) to preview a sample data. Click on the Run Excel button (2) to create the Excel report

ile Edit Run Tools Help													
2 C 🔒 🚂 🗡 🕑	🖂 🐖 🔜 🔝 🍺	▶											
								Display Fields	Sort	Disp	Total	Grp	Key
Category phiReport Demo		C Data Section		Default Data		Data File Alia		ADDRESS LINE ONE		30		_ i	1
Report Customer List	~	C .	1 🗹	CUS	T.SAMPLE	CUST.SAMP		ADDRESS LINE TWO		31			
Data View CUST.VIEW	~	C					$\square$	CITY		32			
			<			>	$\square$	CONTACT		40			
Op Field Ope	erator Crit	eria	Sort Hide No	lotes/Commen	nts		$\checkmark$	COUNTRY		35			
							$\square$	CREDIT LIMIT		60			
	2						$\square$	CUST.NO.GROUP		10			
1	_							CUSTOMER NUMBER		10			
							$\square$	FAX		55			
							$\square$	HISTORY		90			
Report Parameters Pre/Post Processes	Output Header/Footer Codes	Preview Raw Data C	Configuration Pr	Printed Form P	arameters	🗹 🗆 😋	$\checkmark$	NAME	1	20			
NO.GF NAME	ADDRESS LINE ONE	ADDRESS LINE TWO	CITY	Y	STATE	ZIP CO[ ^	$\square$	ORDERS		70			
1118 ABC Electronics Corp	2535 N Central Ave	Suite 2365	Pho	penix	AZ	85052		PHONE		50			
1119 Ajax Computer Electronics	615 East 62nd Street	P O Box 45878	New		NY	10021		SERVICE DATE		80			
1119 Ajax Computer Electronics	615 East 62nd Street	P O Box 45878			NY	10021		STATE		33			
1002 Alfreds Futterkiste	Obere Str. 57		Berli		GERMANY	12209		STATUS					
1003 Ana Truiillo Emparedados y helad	Avda, de la Constitucion 2222		Mox	xico D F		05021		ZIP CODE		34			
						05021	<u> </u>			34			
1004 Antonio Moreno Tagueria	Mataderos 2312			xico D.F.		05021				34			
				xico D.F.						J4			
1004 Antonio Moreno Taqueria	Mataderos 2312		Mex	xico D.F. Idon		05023				34			
1004         Antonio Moreno Taqueria           1005         Around the Horn	Mataderos 2312 120 Hanover Sq.		Mex Long Long	xico D.F. Idon		05023 WA1 10				34			
1004         Antonio Moreno Taqueria           1005         Around the Horn           1012         B's Beverages	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus		Mex Long Long	xico D.F. Idon Idon erelslt		05023 WA1 1E EC2 5N				J14		_	
1004     Antonio Moreno Taqueria       1005     Around the Horn       1012     B's Beverages       1105     Bakers Goods       1006     Berglunds snabbkop	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S.Main		Mex Lond Lond Whe Lule	xico D.F. Idon Idon erelslt ea	Са	05023 WA1 10 EC2 5N 90000				J14		_	
1004     Antonio Moreno Taqueria       1005     Around the Horn       1012     B's Beverages       1015     Bakers Goods       1006     Berglunds snabbkop	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S.Main Berguvsvagen 8		Mex Lond Und Whe Lule Vent	xico D.F. Idon Idon erelslt ea	Са	05023 WA1 1E EC2 5N 90000 S-958 2				44			
1004         Antonio Moreno Taqueria           1005         Around the Horn           1012         B's Beverages           1105         Bakers Goods           1006         Berglunds snabbkop           1101         Bills Shoes & Gopeds	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S. Main Berguvsvagen 8 5 Santa Clause Lane		Mex Lond Lond Whe Lule Vent Man	xico D.F. Idon Idon erelslt ea Itura	Ca	05023 WA1 1E EC2 5N 90000 S-958 2 92445				Ju			
1004     Antonio Moreno Taqueria       1005     Around the Hom       1012     B's Beverages       1015     Bakers Goods       1006     Berglunds snabktop       1101     Bills Shoes & Gopeds       1007     Blauer See Delikatessen       1008     Blondel pere et fils	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S. Main Berguvsvagen 8 5 Santa Clause Lane Forsterstr. 57		Mex Lond Whe Lule Vent Man Stra	xico D.F. idon erelslt ea itura nnheim asbourg	Ca	05023 WA1 1E EC2 5N 90000 S-958 2 92445 68306							
1004     Antonio Moreno Taqueria       1005     Around the Hom       1012     Bis Beverages       1105     Bakers Goods       1006     Berglunds snabbkop       1101     Bills Shoes & Gopeds       1007     Blauer See Delikatessen       1008     Blondel pere et fils       1002     Bols Qued Cycles	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S.Main Berguvsvagen 8 5 Santa Clause Lane Forsterstr. 57 24, place Kleber		Mex Lond Whe Lule Vent Man Stra	xico D.F. idon erelsit ea ntura nnheim asbourg desto		05023 WA1 10 EC2 5N 90000 S-958 2 92445 68306 67000							
1004     Antonio Moreno Taqueria       1005     Around the Hom       1012     Bis Beverages       1105     Bakers Goods       1006     Berglunds snabbkop       1101     Bills Shoe & Gopeds       1007     Blauer See Delikatessen       1008     Blondel pere et fils       1002     Bosed Cycles	Mataderos 2312 120 Hanover Sq. Fauntleroy Circus 123 S.Main Bergursvagen 8 5 Santa Clause Lane Forsterstr. 57 24, place Kleber 31 Commerce Ave.		Mex Lond V/he Lule Ven Man Stra Mod Mad	xico D.F. idon erelsit ea ntura nnheim asbourg desto		05023 WA1 10 EC2 5N 90000 S-958 2 92445 68306 67000 94313							
1004         Antonio Moreno Taqueria           1005         Around the Horn           1012         B's Beverages           1105         Bakers Goods           1006         Berglunds snabkop           1010         Bills Shoes & Gopeds           1007         Blauer See Delikatesen           1008         Biondel pere et fils           1002         Bobs Used Cycles           1003         Bolia Comidas preparadas	Mataderos 2312 120 Hanover Sq. Faunteroy Circus 123 S Main Berguvsvagen 8 5 Santa Clause Lane Forsterstr. 57 24, place Kleber 31 Commerce Ave. C / Araqui, 67		Mex Lonc Whe Lule Vent Man Stra Mod Mad	xico D.F. idon erelslt erelslt aa attura nnheim aasbourg desto desto drid rseille		05023 WA1 1E EC2 5N 90000 S-958 2 92445 68306 67000 94313 28023				<u>, 14</u>			

### 4. From PRQUERY - phiReport Query

From TCL enter **PRQUERY** or click on the phiReport button on the AccuTerm toolbar or select phiReport from the AccuTerm menu "MultiValue". Click on **Query Tool** to launch phiReport Query



Select a report from the Select Report dropdown list

					_
📑 phiReport Query				>	×
File Run Tools Help					
🕞 🖂 🗊 🛄 🚽					
Query			Items per Page 100 🖂 🔣	$\triangleleft$ $\sim$ $\triangleright$ C	>0
Select Category ** All **	Select Report		✓ Data Source	~ C	į.
		Report Name Customer List Invoice Form Invoice List Detail Invoice List Summary Product List	Category phiReport Demo phiReport Demo phiReport Demo phiReport Demo phiReport Demo		
phiReport 3.1.4 Pro (D3)			17 May 2019 - pt	phireport (PTI7) - Por	rt 18

Click on the Run Query button (1) to preview a sample data.

phiReport Query for Product List					—	
File Run Tools Help						
🕑 🖂 📴 💵 🚽						
Cu y				Items per Page 100	- K (	$\sim$ D D
Stlect Categ. v ** All **	Select Report P	Product List		✓ Data Source PROD.SAM	PLE	~ <b>C</b>
CLASS UPC COL	DE PRODUCT DESCRIPTION	OSS WEIGHT	CURRENT PRICE			
	096 RCA XL100 Color TV	125	\$525.00			
	030 Sharp X1000 VCR VHS	125	\$795.95			
	300 IBM PC-AT Computer	155	\$4,295.75			
300 701	124 Z-135 PC Computer Monitor	35	\$565.95			
		440	\$6,182.65			
1 2						
phiReport 3.1.4 Pro (D3)		5 rec	ords found.	17 Maj	/ 2019 - pt phireport	(PTI7) - Port 18

Click on the Run Excel button (2) to open the Print dialog box

phiReport Print - Product List					×
<ul> <li>Report Destination</li> <li>Show Excel</li> </ul>	- Report Option	าร			
Send to Printer 1	Target Printer 1	Brother MFC-9340CDW Printer	Copies	1	
Send to Printer 2	Target Printer 2	Brother MFC-9340CDW Printer	Copies	1	
Save Report	File Name				
Email Report		Landscape			
DF Preview		Alternate Row Color			
	Cancel	Build Report			

Select your report destination and click "Build Report" to create the report.

Created with the Standard Edition of HelpNDoc: Easy EPub and documentation editor

# **Report Product List**

This tutorial introduces the following features:

- Column Totals
- Column display order

The Product List demo report is the simplest report.

The Data View for the report is PROD.VIEW and does not have any special customizations.

😕 phiReport Data View Manager			– 🗆 X
File Edit Tools Help			
C 🔒 🖌 🗙 🗊 🖗 🕹			
Control International Stress       Image: Control International Stress         Data View Account       phiReport         Data Account       phiReport         Data Account       PROD SAMPLE         Data View       PROD VIEW         Data File's Dict Items         Field ID       Field Name         Att       GROSS.WGT         GROSS.WGT       GROSS WEIGHT	(Account name where to store the Views)      (Account name where to store the Views)      (Constant)      (Constant)	Column Editor         Field ID         UPC CODE         Type         A         Attribute         Header         UPC CODE         Conversion         Correlative         Data Type         Alpha         Column Width         18         Field Type         Single Value         MV Group         Use as Display Field         Use as Criteria Field         Hidden Column         Padding         None         Left         Sheet Control         Formula =         Add Comments         Clear Dup. Data	Merged Header       Columns         Text       Columns         Text       Data Cell         Color       Text         Bold       Superscript         Style       Bold         Border       Top         Border       Top         Border       Right         Justification       Left         Right       Center         Header       Superscript         Color       Text         Vinderline       Superscript         Style       Bold         Superscript       Superscript         Style       Bold         Style       Bold         Style       Bold         Data       Color         Style       Bold         Style       Bold         Style       Bold         Style       Data Cell         Style       Bold         Superscript       Strikethrough
	<	Repeat Detail     Repeat Formula     Set as End of Freeze Pane	Border Top Bottom Left © Right Justification O Left © Right O Center
phiReport 3.1.4 Pro (D3)	· · · · · · · · · · · · · · · · · · ·	Page Break-On	17 May 2019 - pt phireport (PTI7) - Port 18

The only point of interest in this report are the 2 check boxes in the Total column of the Display Fields.

🚛 phiReport Builder											- (	x נ
File Edit Run Too	ls Help											
🖉 C 🔒	A 🗙 🕟	🖂 🐖 🚂 🔝	D) 🚽							_		
Category phiRe Report Produ Data View PROD	ict List		~ C ~ C ~ C	Data Section	# Enable Default 1 🗹 🗹	Data File PROD.SAMPLE	Data File Alia PROD.SAMF	CLASS	PRICE	5 40 30	otal         Grp           Image: Constraint of the second seco	Key
Op Field	Ор	erator	Criteria		Sort Hide Notes/Co	mments		UPC CODI	=	10		
Report Parameters	Pre/Post Processe	s Output Header/Footer Co	des Preview	Raw Data	Configuration Printed F	orm Parameters	e d e			1		
CLASS		E PRODUCT DESCRIPTION		DSS WEIGHT	CURRENT PRICE							
200		6 RCA XL100 Color TV		125 WEIGHT	\$525.00							
200		0 Sharp X1000 VCR VHS		125	\$795.95							
300		0 IBM PC-AT Computer		155	\$4,295.75							
300		4 Z-135 PC Computer Monitor		35	\$565.95							
				440	\$6,182.65							
								Use Pick D	ET-SUPP style si	-		
phiReport 3.1.4 Pro (D3)	Sar	nple Size 200 🗸			5 sample recor	ds found.			17	May 2019 - pt p	hireport (P	17) - Port 18

This indicates to phiReport to total the values in the Excel sheet. The Total instruction creates a SUM

E6		<b>*</b> : :	× ✓ <i>f</i> <sub>x</sub> =SUM(E2:E5)			
	Α	В	С	D	E	F
	CLASS	UPC	PRODUCT	GROSS	CURRENT	
1		CODE	DESCRIPTION	VEIGHT	PRICE	
2	200	00096	RCA XL100 Color TV	125	\$525.00	
3	200	27030	Sharp X1000 VCR VHS	125	\$795.95	
4	300	31300	IBM PC-AT Computer	55	\$4,295.75	
5	300	70124	Z-135 PC Computer Monitor	3.	\$565.95	
6				440	\$6,182.65	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
	→ P	roduct List 🛛 🕀				
						E

### formula on the Excel sheet as shown below,

The numbers entered in the **Disp** column indicate the display order on the Excel sheet from small to big numbers going left to right. The column display order is also mirrored on the data Preview tab

			-	_				
		Display Fields	Sort	Disp	Fotal	Grp	Key	
8	$\square$	CLASS		5				
F	$\square$	CURRENT PRICE		40				
٩.		GROSS WEIGHT		30	$\square$			
•	$\square$	PRODUCT DESCRIPTION		20				
	$\checkmark$	UPC CODE		10				

Report Parameters	Pre/Post Processes	Output Header/F	ooter Codes	Preview	Raw Date	a Configuration	Printed For	rm Para
CLASS	UPC CODE	PRODUCT DESCR	IPTION	0	SS WEIG	HT CURRI	ENT PRICE	
5 200 200	10 00096 27030	RCA XL100 C 20 Sharp ¥1000 VCK	//IS		- 30	25 4 25	0 525.00	
00	31300	IBM AT Comput	er		1	55	\$4,295.75	
00	70+	Z-135 PC Computer	r Monitor			35	\$565.95	
Displa	w.Order	Tet			4	40	\$6,182.65	
		IOL	al	-				

Created with the Standard Edition of HelpNDoc: Free EPub producer

# **Report Customer List**

This tutorial introduces the following features:

- Row Header Text Formating
- Merged Column Header
- Cell Comments
- Logo Template
- Data Filter

## The Customer List report uses Data View CUST.VIEW

	– 🗆 X
Data View Account Data Account Data Account Data File CUST.SAMPLE	
Data View Account phiReport	
Data File       CUST.SAMPLE       CUST.SAMPLE       CUST.SAMPLE       Field Name       Text.         Data View       CUST.VIEW       Cust.View       Cust.View       Cust.View       Cust.View       Tree View         Data Field Name       Data Field Name       Audoress Line N       ADDRESS Line ON 3       ADDRESS Line ON 3         Field ID       Field Name       Att       Conversion       Conversion       Conversion         CREDIT.LIMIT       CREDIT.LIMIT       10       ADDRESS LINE ON 3       Conversion       Conversion         CONTRACT       9       ADDRESS LINE TW 4       Stopensor       Dusta Type @ Single Value O Multi-Value       Border       Top         Cust TV.ND       CUSTNUM CREDIT LIMIT       10       Custorest Conversion       Column Width 10       Dustification Left         Field View       CUSTNUM CREDIT LIMIT       10       Field Type       Single Value O Multi-Value       Border       Top         CUSTNUM CUSTORE NUMBE 0       CUSTNUM CONTRY       CONTRACT       9       W Group       W Gr	er Columns
Data View       CUST VIEW       Cust View       O Grid View       O Tree View       Type       A       Attribute       Color Text Cell         Data File's Dict Items       Data View's Columns       Data View's Columns       Data View's Columns       Data View's Columns       Conversion       Conversion       Conversion       Conversion       Conversion       Underline       Border       Tode       Dotata Type       Appha       Column Width 10       Column Width 10       Column Width 10       Column Width 10       Border       Top       Top       Autricular       Column Width 10       Dustification © Left       Header       Column Width 10       Left       Justification © Left       Header       Top       Column Width 10       Dustification © Left       Header       Top       Column Width 10       Left       Justification © Left       Header       Top       Column Width 10       Left       Justification © Left       Header       Top       Column Width 10       Left       Justification © Left       Header       Top       Column View       Left       Justification © Left       Header       Column View       Top       Column View       Left       Column View	
Data File's Dict Items     Data View O Grid View O G	× ×
Data views Columns     Conversion       Field ID     Field Name     Att       CTY_STATE ZIP     CTY/STATE/ZIP     0       CREDIT_LIMIT     CREDIT_LIMIT     10       IMADRESS LINE ON     ADDRESS LINE ON       CONTACT     CONTRACT       COUNTRY     13       CREDIT_LIMIT     COUNTRY       CUSTNUMEER     0       IMADRESS COUNTRY     10       IMADRESS COUNTRY     13       IMADRESS     NV Group       IMADRESS     COUNTRY       IMADRESS     CUSTNUMEER NUMBE       IMADRESS     CUSTNUMER NUMBE       IMADRESS     CONTACT       IMADRESS     CONTACT	Data Cell
Fried Vame       Att       Fried Vame       Att       Correlative       Underline         CITY STATE ZIP       CITY STATE ZIP       Image: City State	Superscript
HISTORY HISTORY 11 ⊟Hidden Column Style Bold NAME NAME 2 ⊡star Column Etaic OPDEPS 020EFS 12	Subscript Strikethrough Bottom Right Right Center Header Cell Subscript
PHONE       PHONE       8         SERVICE DATE       1         STATE       STATE         STATE       STATUS         STATUS       15         ZIP       ZIP CODE         7       Sheet Control         Original Places       Border         1       Display Decimal Places         1       Border         1       Color         1       Clear Data         1       Clear Data         1       Clear Duta         1       Repeat Detail	Superscript Super

This report uses special markup tokens to build a custom report header.

🗮 phiReport Builder						-		×
File Edit Run Tools	- Heip	2						
Category phiRep Report Custor Data View CUST. Op Field	mer List	Data Section	#     Enable     Default     Data File       1     Ø     CUST.SAMPLE         CUST.SAMPLE         Soft     Hide       Notes/Comments	Data File Alia CUST.SAMP	Display Fields ADDRESS LINE ONE ADDRESS LINE TWO CITY CONTACT CONTACT CREDIT LIMIT CUSTNO. GROUP CUSTOMER NUMBER	Disp         Total           30            31            32            40            35            60            10		
Report Parameters	Pre/Post Processes Output Header/Footer Co	des Preview Raw Data (	Configuration Printed Form Parameters Page Setup Orientation ○ Portrait ● Landso I Fit to 1 page(s) wide by I Use Row Alternate Color	cape tall	PAX           HISTORY           NAME           ORDERS           PHONE           SERVICE DATE           STATUS           ZIP CODE	55		
Right Header Row Header Text Left Footer	<fs:18>List of <u><b><fc.red>Active as of %%@DATE%%</fc.red></b></u></fs:18>	Customers	Data Setup Start Column Start Row I Add Data Filter					
Center Footer Right Footer	Page &P or &N		Data Blob     Row 1 of Data Blob is Column H		Use Pick DET-SUPP style	summary		
phiReport 3.1.4 Pro (D3)	Sample Size 200 🗸		101 sample records found.		1	7 May 2019 - pt phire	port (PTI7) - F	Port 18

In the Report Parameter tab the **Row Header Text** reads: <FS:18>List of <U><B><FC:RED>Active</FC></B></U> Customers as of %%@DATE%%</FS>

The above text is rendered as shown below:

# List of <u>Active</u> Customers as of 05/17/2019

<fs:18></fs:18>	Set Font Size 18
<u></u>	Underline
<b></b>	Bold
<fc:red></fc:red>	Font Color Red

Row Header Text markup tokens are defined here.

This report also uses the demo logo template to insert the company logo to the Excel report

Report Parameters Pre/Po	ost Processes Outp	ut Header/Footer Codes	Preview Raw Da	ta Configurat	ion	Printed Form Param	eters 🕑 D
Template Settings					Valu	ue Pair Table	
Custom Template	https://www.3phi.sol	utions/phiReport/DemoLog	goTemplate.xlsx	🖙 🔝	#	Name	Value
Main Sheet Name							
Footer 1 Sheet Name		Footer 1 Rows					
Footer 2 Sheet Name		Footer 2 Rows	Pad to Bottom				
Include Table Header	(When checked, t	he table header will be add	ded to the Custom T	emplate)			
Multi-Page Template							
Macro Module							
Macro Source	Excel Macro File	○ VBA.Modules Item					
Macro Name				🔛 🌅			
Function to Execute							
Function Parameters				^			
				~			

The **DemoLogoTemplate.xlsx** file is a standard Excel workbook with a single worksheet used as the base template for the report, it can be downloaded from <u>here</u>. All it has is the company logo on the top-right header section but it can be customized to include disclaimer footer, company address, phone, etc...

	H	eader		aso	Active Ou: of 05/17/2			Tem Lo	go				
NO	NAME	ADDRESS LINE ONE	Customer Information ADDRESS LINETWO	CITY	STATE	ZIP CODE	COUNTRY	CONTACT	PHONE	FAX	CRIDIT	ORDERS	SERVIC
	ABC Electronics Corp	25.35 N Central Ave	Suite 2 365	P hoe nix	AZ	8505.2	USA	Susan Sharp			10,000.00		03/22/1
	Ajax Computer Electronics Ajax Computer Electronics	615 East 62ndStreet	P O B ox 4 5878	New York City	NY	10021		Lester Zimmerm Lester Zimmerm			15,000.00		02/05/1
	Afred a Futter kiste	Obere Str. 57	DOWL		GERMANY	1220.9	Germany	Maria Anders		030-0076545	1 40 00 00	14.4.9.4	10/30/0
	An a Trujillo Emparedados y heb	Avda, de la Constitució n 2222	KUW F	leader		05021	Mexico	Ana Trujilio		6)555-3745			05/08/0
	Antonio Moreno Taque ria	Matade ros 2312	A stated	Mexica D.F.		0502.3	Mexico	Antonio Moreno					06/13/0
	Around the Hom	120Hanover Sq.	Te	on dan		WA1 10P	UK	Thomas Hardy		(171) 555-6750			03/18/0
	D's Deverages	Fauntieroy Circus	1,0	AL andan		EC2 SNT	uк	Victoria Ashwort	(171) 555-1212				03/26/
	Bakers Goods	12 3 5 Main		Whereldt		9000 0		John Baker					02/09/0
	Berglands snabb kop	Bergustvagen B		Lulea		5-958 22	Sweden	Christina Berglar		0921-123467			12/21/
	Bills Shoes & Golpedis Blauer See Delikatessen	5 Santa Clause Laine Fointe rate, 57		Ventura Mann bei m	Ca	9244 S	USA Germany	SHELLY JOINES Han na Moois	555-1212 052 1-084 60	0521-08924			04/18/
	Dister See Delikatetten Noodel perestfils	Fonderstr. 57 24. piace Kleber		Mann heim Strashoure		6830.6	Germany	Freiderigue Cite a		0621-08924			01/19/
	Biondel perentfils Bobs Used Cycles	26, place Kleber 31 Commerce Ave.		Straib ourg Modesto	Ca	67000 9431 3	USA	Frederique Cites Bob Smith	SSS-1212	an 50 15 12			11/01/
	Bolido Comidas preparadas	C/ Araquil 67		Madrid		2902.3	Spain	MartinSommer		01)5559199			03/16/
	Don ap p'	12, rue des Bouchers		Marcelle		1300.8	France	Laurence le bha	91.24.45.40	91.24.45.41			09/11/
1011	Bot tom-Do Bar Marke ts	23 Trawatten Bivt.		Trawatten	BC	T2F BM4	Cana da	Elizabeth Lincoln	(604) 555-4729	(604) 555-3745			05/24/
	Cactus Comidas para llevar	Cerrito 333		Buen as Aire s		1010	Argentina	Patrici o Simpson	(1) 1 35-55 55	(1) 135-4892			06/01/
	Centro comer dal Mocteouma	Sierras de Granada 9993		Mexico D.F.		0502.2	Mexico	Francisco Chang		(5) 55 5-729 3			11/18/
	Chop-suey Chine se	Hauptstr. 29		Bern		3012	Switze rlan d		0452-076545				09/15/
	Com ercio Mineiro	Av. dos lusiadas, 23		San Paulo	SP	05432-043	Brazil		(11) 555-7647				09/12/
	Con so lidated Holdings	Berkeley Gardens						Elitabeth Brown					04/23/
	Die Wande mdie Kuh Drachen bluit De likateusen	Adenaue rallee 900 Walker wee 21		Stuttgart		7056 3 5206 6	Germany	Rita Miller Sven Ott lieb	0711-020361	0711-035428			01/21/
	Drachen buit de Ekatelsen	67, rue des Cinquante Otages		Nantes		4400.0	France		40.67.89.99	40.67.99.99			11/16/
	Eastern Connection	35 King George		London		WX3 GEW	UK	Ann Devon	(171) 555-0297	0.71) 555-3.373			01/16/
	Emit Handel	Kirchgasse G		Graz		8010	Austria	Roland Mendel		7675-3426			11/03/
	Familia Arquibal do	Rua Oria, 92		Sao Paulo	SP	0544 2-030	Brazil	ArlaCruz	(11) 555-9.857				06/04/
	FSSA Fabrica Inter, Salchichas S	C/ Moralzarzal, 8.6		M adr id		29034	Spain	Die go Roe I	(91) 555 94 44	(91)5555593			11/18/
	Folles gourman des	184, chaussoe de Tournal		Lile		5900.0	France		20.16.10.16	20.16.10.17			12/12/
	France restauration	54, rue Royale		Na ntes		6400.0	France		40.32.21.21	40.32.21.20			01/20/
	Franchi S.p.A	Via Monte Bianco 34		Torino		1010.0	Italy	Paolo Accorti	011-4988260	011-4 98826 1			08/03/
	Franke overs and	Berline r Platz 43		Minchen		8080 5	Germany	Peter Franken		089-0 87745 1			03/11/
	Furia Bacalhau e Fruitos do Mar Galería del gastro nomo	Jandim das nosas n. 32 Rambia de Cataluna, 23		Lisbo a Diarcel ona		1675	Portugal Spain	Lin o R od rigu ea Ed uard o Sa aved		(1) 354-2535 (93) 2034561			05/12/
	Gade a Ce dina Tipica	Kampia de Cataluna, 2 a		Sevila		41101	Spain	Jose Pedro Frevo		ferst storage and			12/20/
	Gour met La nchon etes	Av. Bradil 44.2		Campinas	SP	0497 6-796	Brazil	Andre Fonseca					09/20/
	Great Lakes Food Market	2732 Baker Blvd.		Eugene	OR	9740.3	USA	Ho ward Snyder					03/17/
10.35	GROSE LLA-Restaurante	Sa Ave. Los Palos Grandes		Caracas	DF	1081	Venezuela	Manuel Pereira		(2) 28 3-339 7			04/04/
	Hanar I Carnes	Rua do Paco, 67		Rio de Janeiro	RJ	05454-875	Brazil	Mario Pontes		(21) 555-8765			05/11/
	HEARION - Ab auto s	Carrera 22 con Ave. Carlos Sou	blette #9-35	San Cristobal	Tachira	5022	Venezuela	Carlos Hernande	(5) 5 55-13 40	(5) 55 5-194 8			10/10/
	Hungry Coyate Impart Stare	City Center Plaza						Yoshi Latimer					08/27/
	HUNGRYHO WES PIZZA	12 INS MAIN ST		LA	CA	90000		HOWIEJONES					
	Hungry Ow I All-Night Grocers	B Johnstown Road		Cark	Co. Cork		Tre lan d	Patricia McKenn	2967542	2967 333 3			02/04/
	Island Trading Konjelich Essen	Garden House Maubektr. 90		B ran denb urg		1477.6	Germany	Helen Bennett Philip Cramer	055 5-098 76				09/01/
	La come d'abondance	67, avenue de l'Europe		Versaille s		7900.0	France	Daniel Tonini		30,59,95,11			01/01/
	La maison d'Asie	1 rue Altace-Lorraine		Touloute		3100.0	France	Annette Roule t		61.77.61.11			04/29/
	laughing Bacchus Wine Cellars			Vancouver	BC	V3 F 2K 1	Cana da	Yoshi Tannamuri		(6.04) 555-7.293			05/03/
	Lazy K Kountry Store	12 Or chestra Terra ce		Walla Walla	WA	99362	USA	John Steel	(509) 555-7969	(5.09) 555-6.221			04/28/
10.48	Lehmanns Marktstand	Magazinweg 7		Frankfurta.M.		6052.8	Germany	Recate Messner	009-0245 984	009-0 24587 4			11/23/
								Foo	ter				Page 1

The column header includes a merged column going from NO to COUNTRY columns.

1														-
2				Customer Information										
L	NO	NAME	ADDRESS	ADDRESS	CITY	STATE	<u>Zip</u>	COUNTRY	CONTACT	PHONE	FAX	CRIDIT	ORDERS	SERVICE
3			LINE ONE	LINE TWO			CODE					LIMIT		DATE
4	1118	ABC Electronics Corp	2535 N Central Ave	Suite 2365	Phoenix	AZ	85052	USA	Susan Sharp	(602) 869-4512		10,000.00	12121	03/22/86
5	1119	Ajax Computer Electronics	615 East 62nd Street	P O Box 45878	New York City	NY	10021		Lester Zimmer	r 2127581214		15,000.00	12301	02/05/84

The extra merged column header is defined in the Data View Manager. As shown in the image below the "**Enable Merged Header**" feature is turned on. The **Text** is the text used in the merged cell and the colors, fond, borders and justification are setup in the same area. The **Columns** field shows the number **8** which tells phiReport to merge **8** columns to the right of the current column (including the current column). The current column being **CUSTNUMBER**.

<ul> <li>(Account name where to store the Views)</li> </ul>	Column Editor	Merged Header
	Field ID CUSTNUMBER	Enable Merged Header Columns 8
Ce Show all file types from Data Account.	Field Name CUST.NO.GROUP	Text Customer Information
	Type A 🗸 Attribute 0	
Data View's Columns	Header NO	Color Cell Data Cell
Field ID Field Name Att	Conversion	Style 🗹 Bold 🛛 Superscript
ADDRESS.1 ADDRESS LINE ON 3	Correlative	🗌 Underline 🗌 Strikethrough
ADDRESS.2 ADDRESS LINE TW 4 CITY CITY 5	Data Type Alpha Column Width 6	Border 🗹 Top 🛛 Bottom 🗸 Left 🖉 Right
CONTACT CONTACT 9 COUNTRY COUNTRY 13	Field Type 💿 Single Value 🔿 Multi-Value 🛛 🛒	Justification 🔾 Left 🛛 Right 🖲 Center
CREIDIT LIMIT CREDIT LIMIT 10	MV Group	Header
CUST.NO CUSTOMER NUMBE 0		Font 🗸
CUSTNUMBER CUST.NO.GROUP 0 FAX FAX 14	☑ Use as Display Field ☑ Use as Criteria Field	Color Text Cell Header Cell
HISTORY HISTORY 11	Hidden Column	Style Bold Superscript
NAME NAME 2 ORDERS ORDERS 12	Wrap Column	Italic Subscript
PHONE PHONE 8	Padding 🖲 None 🔾 Left 🛛 Right	Border Top Bottom
SERVICE.DATE SERVICE DATE 1	Pad Length Character	🗹 Left 🗌 Right
STATE STATE 6 STATUS STATUS 15		Justification O Left O Right   Center
ZIP ZIP CODE 7	Sheet Control	Data
	Formula =	Font v
	Add Comments	Color Text Cell Data Cell
	Clear Data	Style Bold Superscript Italic Subscript
	Clear Dup. Data	Underline Strikethrough
	Repeat Detail	Border Top Bottom
	Repeat Formula	Justification O Left O Right   Center
	Set as End of Freeze Pane	
< >	Page Break-On	

Notice also the three small red triangles on the top right corner of column **NAME** on rows 4, 5 and 6. These are Excel Cell Comments and are defined in the Data View Manager.

2			Customer Information									
	NO	NAME	ADDRESS	ADDRESS	CITY	STATE	ZIP	COUNTRY	CONTACT	PHONE	FAX	
3			LINE ONE	LINE TWO			CODE					
4	1118	ABC Electronics Corp		East Coast.\\05/15/87: Ja	Diseasing call	A-	nchig order ar	uca d wanted to		will be shipp	ed	
5	1119	Ajax Computer Electronics	615 East ozna Street	P U B0X 43878	New YORK CITY		10021	ia wanoca oo	rester zimmen		cu.	
6	1119	Ajax Computer Electronics	615 5 t 62nd Street	P O Box 45878	New York City	NY	10021		Lester Zimmer	2127581214		
7	1002	Alfreds Futterkiste	Obere Str. 57 Excel	Comments	Berlin	GERMANY	12209	Germany	Maria Anders	030-0074321	030-0076545	
8	1003	Ana Trujillo Emparedados y l	Avda. de la Constitución 2222	Comments	Mexico D.F.		05021	Mexico	Ana Trujillo	(5) 555-4729	(5) 555-3745	
9	1004	Antonio Moreno Taqueria	Mataderos 2312		Mexico D.F.		05023	Mexico	Antonio Morer	(5) 555-3932		
10	1005	Around the Horn	120 Hanovor So		London		M/A1 1DD	114	Thomas Hardy	/171\ 555 7700	(171) 555 6750	

The definition of field NAME in the Data View Manage has the "Add Comments" option checked. The value **HISTORY** indicates that we want the data in field **HISTORY** to be used as Excel Cell Comments instead of as a regular Excel column.

	Da	ata View's Columns	ø	Header	NAME
	Field ID	Field Name	Att	Conversion	
>	ADDRESS.1	ADDRESS LINE ON	3	Correlative	
5	ADDRESS.2	ADDRESS LINE TW		Data Type	Alpha V Column Width 25
	CITY	CITY	5	Data Type	
	CONTACT	CONTACT	9 13	Field Type	● Single Value ○ Multi-Value
1	COUNTRY CREIDIT.LIMIT	COUNTRY CREDIT LIMIT	10	MV Group	
J	CUST.NO	CUSTOMER NUMBE		Wiv Gloup	
	CUSTNUMBER	CUST.NO.GROUP	ŏ		🗹 Use as Display Field
	FAX	FAX	14		🗹 Use as Criteria Field
	HISTORY	HISTORY	11		Hidden Column
	NAME	NAME	2		Wrap Column
	ORDERS	ORDERS	12	Padding	● None ○ Left ○ Right
	PHONE SERVICE.DATE	PHONE SERVICE DATE	8	Pad Length	Character
	STATE	STATE	6	Fau Length	Character
	STATUS	STATUS	15	- Sheet Contro	
	ZIP	ZIP CODE	7		
				Formula =	Ç
				Add Comm	nents HISTORY
				🗌 Clear Data	
				Clear Dup.	Data
				Repeat De	tail
				Repeat For	rmula
				Set as End	d of Freeze Pane
>	<		>	Page Brea	k-On 🗸

## Other basic options are:

Page Setup
Orientation O Portrait
Fit to 1 page(s) wide by tall
Use Row Alternate Color
Data Setup
Start Column
Start Row
Add Data Filter

The Data Filter option adds a drop-down button to every column header. Clicking on the button displays the standard Excel data filter option dialog.

4	А	В	C	D		E	F		G	н			J	К	L	М	N
						List of <u>A</u>				Data	ilters						
						as o	f 06/11/	20	019								
1																	
2	NO	NAME	ADDRESS	Customer Inform		n CITY	STATE		ZIP	COUNT			PHONE	FAX	CREDIT	ORDERS	SERVICE
2	NU	NAIVIE	LINE ONE				STATE	-					PHONE			URDERS	DATE
2   4	1118	ABC Electronics Corp	2535 N Central Ave	Suite 2365	1 ĝi	Sort A to Z			85052	USA	Susan S	harn	(602) 869-4512		10.000.00	12121	03/22/86
5			615 East 62nd Street	P O Box 45878					10021	034			2127581214		15,000.00		02/05/84
			615 East 62nd Street	P O Box 45878	¥↓	Sort Z to A			10021				2127581214		15,000.00		02/05/84
7		Alfreds Futterkiste	Obere Str. 57	1 0 000 40070		Sort by Color		۰.	12209	German				030-0076545	10,000,00	11040	10/30/01
3		Ana Trujillo Emparedados y h		22	5	Clear Filter From "STATE"			05021	Mexico	Ana Tru			(5) 555-3745			05/08/01
			Mataderos 2312	-		Filter by Color		Þ	05023	Mexico			1 (5) 555-3932	(-,			06/13/02
D		Around the Horn	120 Hanover Sg.			Text Eilters			WA1 1DP	UK			(171) 555-7788	(171) 555-6750			03/18/02
1	1012	B's Beverages	Fauntleroy Circus			-			EC2 5NT	UK			(171) 555-1212	()			03/26/02
2	1105	Bakers Goods	123 S.Main			Search		ρ	90000		John Ba		· /				02/09/02
3	1006	Berglunds snabbkop	Berguvsvagen 8			(Select All)		^	S-958 22	Sweden	Christin	na Bergl	0921-12 34 65	0921-12 34 67			12/21/02
4	1101	Bills Shoes & Gopeds	5 Santa Clause Lane			🗹 AK			92445	USA	SHELLY	JONES	555-1212				04/18/01
5	1007	Blauer See Delikatessen	Forsterstr. 57			AZ			68306	German	Hanna	Moos	0621-08460	0621-08924			01/19/02
6	1008	Blondel pere et fils	24, place Kleber						67000	France	Frederi	ique Cit	88.60.15.31	88.60.15.32			08/24/01
7	1102	Bobs Used Cycles	31 Commerce Ave.			Co. Cork			94313	USA	Bob Sm	ith	555-1212				11/01/02
8	1009	Bolido Comidas preparadas	C/ Araquil, 67			DC			28023	Spain	Martin	Somme	(91) 555 22 82	(91) 555 91 99			03/16/03
9	1010	Bon app'	12, rue des Bouchers			🗹 DF			13008	France	Lauren	ce Lebił	91.24.45.40	91.24.45.41			09/11/02
0	1011	Bottom-Dollar Markets	23 Tsawassen Blvd.			GERMANY			T2F 8M4	Canada	Elizabe	th Linco	(604) 555-4729	(604) 555-3745			05/24/01
1	1013	Cactus Comidas para llevar	Cerrito 333			- 🗹 ID			1010	Argentir	a Patricio	Simps	(1) 135-5555	(1) 135-4892			06/01/03
2	1014	Centro comercial Moctezum	Sierras de Granada 9993			- I Lara			05022	Mexico	Francis	co Chan	(5) 555-3392	(5) 555-7293			11/18/01
3	1015	Chop-suey Chinese	Hauptstr. 29						3012	Switzerl	and Yang W	'ang	0452-076545				09/15/02
4	1016	Comercio Mineiro	Av. dos Lusiadas, 23					~	05432-043	Brazil	Pedro	Afonso	(11) 555-7647				08/12/01
25	1017	Consolidated Holdings	Berkeley Gardens			South and the south					Elizabe	th Brow	'n				04/23/02
26	1094	Die Wandernde Kuh	Adenauerallee 900			ОК	Cancel		70563	German	/ Rita Mi	ller	0711-020361	0711-035428			01/21/03
27	1019	Drachenblut Delikatessen	Walserweg 21						52066	German	/ Sven O	ttlieb	0241-039123	0241-059428			11/16/02

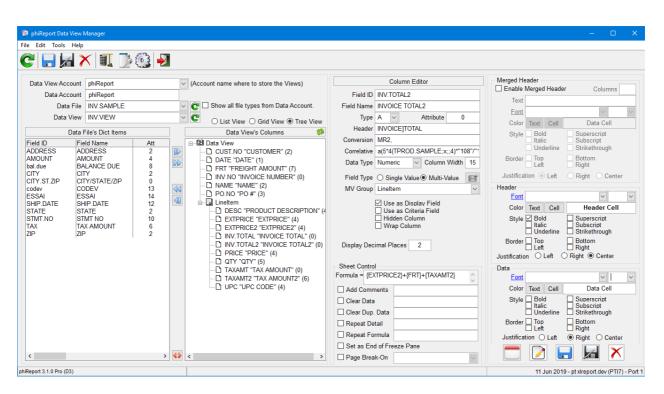
Created with the Standard Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

# **Report Invoice List Detail**

This tutorial introduces the following features:

- Multi-Value Association
- Excel Formula Fields
- BY-EXP/GROUP-BY
- Clear Duplicated Data (CDD)
- Repeat Detail (RD)

The Invoice List Detail report uses Data View **INV.VIEW** which contains a Multi-Value group/association defined under "**LineItem**".



When importing existing dictionary items from your live files to a Data View, phiReport looks at the association definition to dynamically create the MV Groups.

On D and I/V type dictionaries phiReport looks at the MV flag on attribute 6 and uses the data in attribute 7 as the MV Group name.

On A and S type dictionaries, phiReport looks at attribute 4 for the "C" and "D" flag. A Controlling/Dependent structure would have a dictionary with C and a semi-colon list of attributes and each dependent attributes would have a D with a list of controlling attributes.

ex:

CODE<1> = "A" CODE<2> = 5 CODE<4> = "C;6;7" DESC<1> = "A" DESC<2> = 6 DESC<4> = "D;5" PRICE<1> = "A" PRICE<2> = 7 PRICE<4> = "D;5;10"

When importing the above structure, phiReport creates an MV Group called CODE\_GRP and assigns fields CODE, DESC and PRICE to that group. phiReport only looks at the first controlling attribute. In the above example, field PRICE will only belong to the CODE\_GRP group because it is the first one defined in <4> "D;5;10"

A "C" by itself creates an MV Group with a single fields.

The particularities in this report are fields **EXTPRICE**, **INV.TOTAL** and **TAXAMT**. Those fields are "virtual" fields, similar to a translate or A/F type correlatives. These fields each define an Excel formula as shown here:

	Col	umn l	Edit	tor					
Field ID	EXTPR	CE							
Field Name	EXTPR	CE							
Туре	Α ~			Attribute	4				
Header	EXT]PR	ICE							
Conversion	mr2,								
Correlative	A5*4(TF	PROD	.S/	MPLE;X	;;4)				
Data Type	Numeri	C	$\sim$	Column	Width	10			
Field Type	◯ Sing	le Val	ue (	Multi-V	/alue	g			
MV Group	Linelter	n				~			
Display Dec	Hidde Wrap	en Col Colu	um						
Formula = {Q		CE)	-			<u>^</u>			
	_	<u>, , , , , , , , , , , , , , , , , , , </u>				~			
Add Comn						_			
Clear Data	_					_			
Repeat De	_					_			
Repeat Fo	_					_			
Set as End		ze Pa	ne						
Page Brea		2010				$\sim$			

	Co	olumn E	dit	tor		
Field ID	INV.TC	TAL				
Field Name	INVOI	CE TOT	AL			
Туре	Α ~	•		Attribute	0	
Header	INVOI	сејтот	AL			
Conversion	MR2,					
Correlative	A(5*4(	TPROD	.s	AMPLE;X	(;;4)*"1	08" <b>/</b> " <sup>.</sup>
Data Type	Numer	ic	~	Column	Width	15
Field Type	⊖ Sing	gle Valu	le (	Multi-V	/alue	g
MV Group	Linelte	m				$\sim$
Display Dec	🔲 Wra imal Pla	len Colu p Colur aces		n		
Formula = {EX		=}+{FR]	₿+	TAXAMT	}	^
Add Comn		1.6.1	,		,	~
Clear Data						_
Clear Duta	-					_
Repeat De	-					_
Repeat Fo	-					_
Set as End	L	eze Par	пе			
Page Brea			-			$\sim$

	Column Editor							
Field ID	TAXAMT							
Field Name	TAX AMOUNT							
Туре	A V Attribute 0							
Header	TAXJAMOUNT							
Conversion	MR2,							
Correlative	A5*4(TPROD.SAMPLE;X;;4)*"8"/"100							
Data Type	Numeric V Column Width 12							
Field Type O Single Value Multi-Value								
MV Group	Lineltem 🗸							
Display Dec								
Sheet Contro								
Formula = {EX	TPRICE}*0.08							
Add Comn	nents							
Clear Data								
Clear Dup.	Data							
Repeat De	tail							
Repeat Fo	rmula							
Set as End	d of Freeze Pane							
🗌 Page Brea	k-On 🗸							

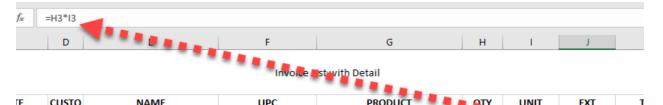
Formula = {QTY}\*{PRICE} translates to multiply the value in field **QTY** by the value in field **PRICE** Formula = {EXTPRICE}+{FRT}+{TAXAMT} translates to Add values in field **EXTPRICE** to value in field **FRT** to value in field **TAXAMT** 

Formula = {EXTPRICE}\*0.08 translates to multiply values in field **EXTPRICE** by 0.08

Because these fields are Excel formula virtual fields, they are rendered by Excel. The preview tab will not calculate the formula, instead it will apply any correlatives and/or conversions defined in the dictionary items.

NUMBER	PO #	DATE	CUSTOMER	NAME		UPC CODE	PRODUCT DESCRIPTION	QTY	PRICE	EXTPRICE	TAX AMOUNT	FREIGHT AMOUNT	INVOICE TOTA
12122	X17279 0	5/12/2003	1208	Longo Toyota		70124	Z-135 PC Computer Monitor	20	565.95	11,319.00	905.52	254.00	12,478.5
***										11,319.00	905.52	254.00	12,478.5
12301	12345 0	4/19/2005	1119	Ajax Computer	Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35	123.45	1,842.7
12301	12345 0	4/19/2005		Ajax Computer			Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.2
		4/19/2005	1119	Ajax Computer	Electronics	31300	IBM PC-AT Computer	3	4,295.75	12,887.25			13,918.2
***										16,071.05		123.45	17,480.1
		5/31/1988		ABC Electronic			IBM PC-AT Computer	10	4,295.75	42,957.50	3,436.60	650.20	47,044.3
		5/31/1988	1118	ABC Electronic	s Corp	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75			3,056.1
***										45,787.25		650.20	50,100.4
12345		5/31/1988		Ajax Computer			RCA XL100 Color TV	10	525.00	5,250.00	420.00	650.20	6,320.2
12345		5/31/1988		Ajax Computer			Sharp X1000 VCR VHS	15	795.95	11,939.25	955.14		12,894.3
12345		5/31/1988	1119	Ajax Computer	Electronics	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38		3,056.1
***										20,019.00 93,196.30	1,601.52 7,455,70	650.20 1.677.85	22,270.7
	1			1			1				.,		
1.0 Pro (D3)		Sample Size	200 🗸					1	4 sample rec	ords found.			
1.0 Pro (D3)													
1	INVOICE	Sample Size PO #	200 🗸	CUSTOMER	NAME	UP		ן סנג	UNIT	EXT	ТАХ	FREIGHT	INVOICE
1	INVOICE NUMBER	PO#	DATE	CUSTOMER		UP COL	DE DESCRIPTION	QTY	UNIT PRICE	EXT PRICE	AMOUNT	AMOUNT	TOTAL
1 2 · 3	INVOICE NUMBER 1212	PO # 2 X17279	DATE 05/12/2003	CUSTOMER 1208	Longo Toyota			QTY	UNIT PRICE	EXT PRICE 11,319.00	AMOUNT 905.52	AMOUNT 254.00	TOTAL 12,478.5
1 2 - 3 - 4	INVOICE NUMBER 1212 12122 Tota	PO # 2 X17279 Il X17279	DATE 05/12/2003 05/12/2003	CUSTOMER 1208 1208	Longo Toyota Longo Toyota		70124 Z-135 PC Computer Monito	<b>QTY</b> 20	UNIT PRICE 565.95	EXT PRICE 11,319.00 11,319.00	AMOUNT 905.52 905.52	AMOUNT 254.00 254.00	TOTAL 12,478.5 12,478.5
1 2 3 4 5	INVOICE NUMBER 1212 12122 Tota	PO # 2 X17279	DATE 05/12/2003	CUSTOMER 1208 1208	Longo Toyota		DE DESCRIPTION 70124 Z-135 PC Computer Monito 27030 Sharp X1000 VCR VHS	<b>QTY</b> 20 2	UNIT PRICE 565.95 795.95	EXT PRICE 11,319.00 11,319.00 1,591.90	AMOUNT 905.52 905.52 127.35	AMOUNT 254.00 254.00 123.45	TOTAL 12,478.5 12,478.5 1,842.7
1 2 3 - 4 . 5 . 6	INVOICE NUMBER 1212 12122 Tota	PO # 2 X17279 Il X17279	DATE 05/12/2003 05/12/2003	CUSTOMER 1208 1208	Longo Toyota Longo Toyota		DE DESCRIPTION 70124 Z-135 PC Computer Monito 27030 Sharp X1000 VCR VHS 27030 Sharp X1000 VCR VHS	<b>QTY</b> 20 2 2	UNIT PRICE 565.95 795.95 795.95	EXT PRICE 11,319.00 11,319.00 1,591.90 1,591.90	AMOUNT 905.52 905.52 127.35 127.35	AMOUNT 254.00 254.00 123.45	TOTAL 12,478.5 12,478.5 1,842.7 1,842.7 1,719.2
1 2 - 3 - 4 - 5 - 6 - 7	INVOICE NUMBER 1212 12122 Tota 1230	PO # 2 X17279 1 X17279 1 12345	DATE 05/12/2003 05/12/2003 04/19/2005	CUSTOMER 1208 1208 1119	Longo Toyota Longo Toyota Ajax Computer Electronics		DE DESCRIPTION 70124 Z-135 PC Computer Monito 27030 Sharp X1000 VCR VHS	<b>QTY</b> 20 2	UNIT PRICE 565.95 795.95 795.95	EXT PRICE 11,319.00 11,319.00 1,591.90 1,591.90 12,887.25	AMOUNT 905.52 905.52 127.35 127.35 1,030.98	AMOUNT 254.00 254.00 123.45	TOTAL 12,478.5 12,478.5 1,842.7 1,719.2 13,918.2
1 2 - 4 - 5 - 6 - 7 - 8	INVOICE NUMBER 1212 12122 Tota 1230	PO # 2 X17279 1 X17279 1 12345	DATE 05/12/2003 05/12/2003 04/19/2005 04/19/2005	CUSTOMER 1208 1208 1208 1119 1119	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics		DE DESCRIPTION           70124         Z-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer	QTY 20 2 2 3	UNIT PRICE 565.95 795.95 795.95 4,295.75	EXT PRICE 11,319.00 11,319.00 1,591.90 1,591.90 12,887.25 16,071.05	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68	AMOUNT 254.00 254.00 123.45 123.45	TOTAL 12,478.5 12,478.5 1,842.7 1,719.2 13,918.2 17,480.1
1 2 - 3 - 4 - 5 - 6 - 7 - 8 - 8 - 9	INVOICE NUMBER 1212 12122 Tota 1230	PO # 2 X17279 1 X17279 1 12345	DATE 05/12/2003 05/12/2003 04/19/2005	CUSTOMER 1208 1208 1208 1119 1119	Longo Toyota Longo Toyota Ajax Computer Electronics		DESCRIPTION           70124 Z-135 PC Computer Monito           27030 Sharp X1000 VCR VHS           27030 Sharp X1000 VCR VHS           31300 IBM PC-AT Computer           31300 IBM PC-AT Computer	<b>QTY</b> 20 2 2 3 10	UNIT PRICE 565.95 795.95 4,295.75 4,295.75	EXT PRICE 11,319.00 11,319.00 1,591.90 1,591.90 12,887.25 16,071.05 42,957.50	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60	AMOUNT 254.00 254.00 123.45 123.45 650.20	TOTAL 12,478.5 12,478.5 1,842.7 1,719.2 13,918.2 17,480.1 47,044.3
1 2 3 - 4 5 . 6 . 7 - 8 9 . 10	INVOICE NUMBER 1212 12122 Tota 12301 12301 Tota 1212	PO # 2 X17279 1 X17279 1 2345 1 12345 1 VERBAL	DATE 05/12/2003 05/12/2003 04/19/2005 04/19/2005 05/31/1988	CUSTOMER 1208 1208 1119 1119 1119	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp		DE DESCRIPTION           70124         Z-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer	QTY 20 2 2 3	UNIT PRICE 565.95 795.95 795.95 4,295.75	EXT PRICE 11,319.00 11,319.00 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60 226.38	AMOUNT 254.00 254.00 123.45 123.45 650.20	TOTAL 12,478.5 12,478.5 1,842.7 1,719.2 13,918.2 17,480.1 47,044.3 3,056.1
1 2 3 4 5 6 7 8 9 10	INVOICE NUMBER 1212 12122 Tota 1230 12301 Tota 12121 12121 Tota	PO # 2 X17279 1 X17279 1 2345 1 12345 1 VERBAL VERBAL	DATE 05/12/2003 05/12/2003 04/19/2005 05/31/1988 05/31/1988	CUSTOMER 1 1208 1 1208 1 1119 1 1119 1 1118 1 1118	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp ABC Electronics Corp		DESCRIPTION           70124         2-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer           31300         IBM PC-AT Computer           70124         2-135 PC Computer Monito	QTY 20 2 3 10 5	UNIT PRICE 565.95 795.95 4,295.75 4,295.75 4,295.75 565.95	EXT PRICE 11,319.00 1,591.90 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75 45,787.25	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60 226.38 3,662.98	AMOUNT 254.00 254.00 123.45 123.45 650.20 650.20	TOTAL 12,478.5 12,478.5 1,842.7 1,719.2 13,918.2 17,480.1 47,044.3 3,056.1 50,100.4
1 2 3 4 5 6 7 7 8 9 10 - 11 12	INVOICE NUMBER 1212 12122 Tota 1230 12301 Tota 12121 12121 Tota	PO # 2 X17279 1 X17279 1 2345 1 12345 1 VERBAL	DATE 05/12/2003 05/12/2003 04/19/2005 04/19/2005 05/31/1988	CUSTOMER 1 1208 1 1208 1 1119 1 1119 1 1118 1 1118	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp		DESCRIPTION           70124         2-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer           71024         Z-135 PC Computer Monito           2009         REA X1000 VCR VHS	QTY 20 2 3 10 5 10	UNIT PRICE 565.95 795.95 4,295.75 4,295.75 565.95 525.00	EXT PRICE 11,319.00 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75 45,787.25 5,250.00	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60 226.38 3,662.98 420.00	AMOUNT 254.00 254.00 123.45 123.45 650.20 650.20 650.20	TOTAL 12,478. 12,478. 1,842. 1,719. 13,918. 17,480. 47,044. 3,056. 50,100. 6,320.
1 2 3 4 5 6 7 7 8 9 10 11 11 12 13	INVOICE NUMBER 1212 12122 Tota 1230 12301 Tota 12121 12121 Tota	PO # 2 X17279 1 X17279 1 2345 1 12345 1 VERBAL VERBAL	DATE 05/12/2003 05/12/2003 04/19/2005 05/31/1988 05/31/1988	CUSTOMER 1 1208 1 1208 1 1119 1 1119 1 1118 1 1118	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp ABC Electronics Corp		DESCRIPTION           70124         2-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer           31300         IBM PC-AT Computer           70124         2-135 PC Computer Monito           00096         RCA XL100 Color TV           27030         Sharp X1000 VCR VHS	QTY 20 2 3 10 5 10 15	UNIT PRICE 565.95 795.95 4,295.75 4,295.75 565.95 525.00 795.95	EXT PRICE 11,319.00 1,591.90 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75 45,787.25 5,250.00 11,939.25	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60 226.38 3,662.98 420.00 955.14	AMOUNT 254.00 254.00 123.45 123.45 650.20 650.20 650.20	TOTAL 12,478.5 12,478.5 1,842.7 1,719.7 13,318.3 17,480.1 47,044.3 3,056.1 50,100.4 6,320.2 12,894.3
1 2 3 - 4 5 . 6 . 7 - 8 9 . 10 - 11 12 . 13 . 14	INVOICE NUMBER 1212 12122 Tota 12301 Tota 12101 Tota 12121 Tota 1234	PO # 2 X17279 1 X17279 1 12345 1 VERBAL 1 VERBAL 5 D521	DATE 05/12/2003 05/12/2003 04/19/2005 05/31/1988 05/31/1988	CUSTOMER 1 1208 1 1208 1 119 1 119 1 1118 1 1118 1 1118 1 1119	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp ABC Electronics Corp Ajax Computer Electronics		DESCRIPTION           70124         2-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer           71024         Z-135 PC Computer Monito           2009         REA X1000 VCR VHS	QTY 20 2 3 10 5 10	UNIT PRICE 565.95 795.95 4,295.75 4,295.75 565.95 525.00	EXT PRICE 11,319.00 11,319.00 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75 45,787.25 5,250.00 11,939.25 2,829.75	AMOUNT 905.52 127.35 1,030.98 3,436.60 226.38 3,662.98 420.00 955.14 226.38	AMOUNT 254.00 254.00 123.45 123.45 650.20 650.20 650.20	TOTAL 12,478.5 1,2478.5 1,842.7 1,719.2 13,918.2 17,480.1 47,044.3 3,056.1 50,100.4 6,320.2 12,894.3 3,056.1
1 2 3 - 4 5 . 6 . 7 - 8 9 . 10 - 11 12 . 13	INVOICE NUMBER 1212 12122 Tota 1230 12301 Tota 12121 12121 Tota	PO # 2 X17279 1 X17279 1 12345 1 VERBAL 1 VERBAL 5 D521	DATE 05/12/2003 05/12/2003 04/19/2005 05/31/1988 05/31/1988	CUSTOMER 1 1208 1 1208 1 119 1 119 1 1118 1 1118 1 1118 1 1119	Longo Toyota Longo Toyota Ajax Computer Electronics Ajax Computer Electronics ABC Electronics Corp ABC Electronics Corp		DESCRIPTION           70124         2-135 PC Computer Monito           27030         Sharp X1000 VCR VHS           31300         IBM PC-AT Computer           31300         IBM PC-AT Computer           70124         2-135 PC Computer Monito           00096         RCA XL100 Color TV           27030         Sharp X1000 VCR VHS	QTY 20 2 3 10 5 10 15	UNIT PRICE 565.95 795.95 4,295.75 4,295.75 565.95 525.00 795.95	EXT PRICE 11,319.00 1,591.90 1,591.90 12,887.25 16,071.05 42,957.50 2,829.75 45,787.25 5,250.00 11,939.25	AMOUNT 905.52 905.52 127.35 1,030.98 1,285.68 3,436.60 226.38 3,662.98 420.00 955.14	AMOUNT 254.00 254.00 123.45 123.45 650.20 650.20 650.20	TOTAL 12,478. 12,478. 1,842. 1,719. 13,918. 17,480. 47,044. 3,056. 50,100. 6,320. 12,894.

Field Name	A Type Dictionay	I Type Dictionary	Excel Formula
EXTPRICE	A5*4(TPROD.SAMPLE;X;;4)	(QTY)*(PRICE)	{QTY}*{PRICE}
	A5*4(TPROD.SAMPLE;X;;4) *"8"/"100"	(EXTPRICE)*REUSE(0.08)	{EXTPRICE}*0.08
INV.TOTAL	A(5*4(TPROD.SAMPLE;X;;4) *"108"/"100")+7*(NV="1")	(EXTPRICE)+(TAXAMT)+(FRT)	{EXTPRICE}+{FRT} +{TAXAMT}



Γ <b>E</b>	CUSTO	NAME	UPC	PRODUCT	ΟΤΥ	UNIT	EXT	Т
	MER		CODE	DESCRIPTION		. RI	PRICE	AM
1988	1118	ABC Electronics Corp	31300	IBM PC-AT Computer	10	4,2 <mark>95.7</mark> 5	42,957.50	3
			70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	
1988	1118	ABC Electronics Corp						

--,---

	J				
f <sub>x</sub> =J	3*0.08				
	н		J	К	L
ст	QTY	UNIT	EXT	🔺 тах	FREIGHT
ION		PRICE	PRICE	AMOUNT	AMOUNT
ter Monito	20	565.95	11,319.00	905.52	254.00
			11,319.00	905.52	254.00
1		1			

				inci inci orgino	,				canng	
6x	=J4+L4+K4	4								
	D	E	F	G	Н	I.	J	к	L	М
			Invoice l	List with Denai						
E	CUSTO	NAME	UPC	PRODUCT	QTY		EXT	TAX	FREIGHT	Total
E	CUSTO MER	NAME	UPC CODE	PRODUCT DESCRIPTION	QTY		EXT PRICE		FREIGHT AMOUNT	Total
E 1988	MER	NAME ABC Electronics Corp	CODE		<b>QTY</b> 10	PRICE	PRICE	AMOUNT		Total 47,044.30
	MER		CODE 31300	DESCRIPTION		PRICE 4,295.75	PRICE 42,957.50	AMOUNT 3,430.60	AMOUNT	
	MER 1118 /		CODE 31300	DESCRIPTION IBM PC-AT Computer	10	PRICE 4,295.75	PRICE 42,957.50	AMOUNT 3,430.60	AMOUNT	47,044.30

The next points of interest in the report are the Totals and the Grp (Group) check-boxes. The Total flags turn on the column total feature as seen in the Product List report. The Grp flag turns on the Group feature equivalent to a BREAK-ON or GROUP-BY instruction.

INVOICE NUMBER	PO #	DATE	OMER	NAME	UPC CODE	PRODUCT DESCRIPTION	QTY	PRICE	Line Amount	TAX AMOUNT	HT AMOUNT	ne Item Total
12122	X17279	05/12/2003	1208	Longo Toyota	70124	Z-135 PC Computer Monitor	20	565.95	70124	70124	254.00	70124
***												70124
12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	27030	27030		27030
12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	27030	27030		2703
12301	12345	04/19/2005	11G	FOUD puter Electronics	31300	IBM PC-AT Computer	3	4,295.75	31300	31300		3130
***			_									8536
12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	31300	IBM PC-AT Computer	10	4,295.75	31300	31300	650.0	3130
12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	70124	Z-135 PC Computer Monitor	5	565.95	70124	Group T	otal-00.20	70124
***												101424
12345	D521	05/31/1988	1119	Ajax Computer Electronics	00096	RCA XL100 Color TV	10	525.00	00096	00096	650.20	0009
12345	D521	05/31/1988	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	15	795.95	27030	27030	650.20	2703
12345	D521	05/31/1988	1119	Ajax Computer Electronics	70124	Z-135 PC Computer Monitor	5	565.95	70124	70124	650.20	70124
***												9725
									Gr	ant Total		35415

	1	G	roup	Selector	D	E	Invoice List	G with Detail	H			K	_	М
		INVOICE	PO #	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	TAX	FREIGHT	Total
	2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT	
F • -	3	12122	X17279	05/12/2003	1208	Longo Toyota	70124	Z-135 PC Computer Monitor	20	565.95	11,319.00	905.52	254.00	12,478.52
-	4	12122 Total												12,478.52
	5	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
	6	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
	7	12301	12345	04/19/2	Sup <sub>19</sub>	Ajax Computer Electronics	31300	IBM PC-AT Computer	3	4,295.75	12,887.25	1,030.98		13,918.23
-	8	12301 Total												17,356.73
	9	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	31300	IBM PC-AT Computer	10	4,295.75	42,957.50	3,436.60		47,044.30
	10	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	70124	Z-135 PC Computer Monitor	5	565.95	Grou	n Total	650.20	3,706.33
-	11	12121 Total									Ciou	Pilotai		50,750.63
F -	12	12345	D521	05/31/1988	1119	Ajax Computer Electronics	00096	RCA XL100 Color TV	10	525.00	5,250.00	420.00	650.20	6,320.20
	13	12345	D521	05/31/1988	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	15	795.95	11,939.25	955.14	650.20	13,544.59
	14	12345	D521	05/31/1988	1119	Ajax Computer Electronics	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33
-	15	12345 Total												23,571.12
	16	Grand Total									Grand	Total		104,157.00
	17										- and			

The Excel group selector allows you to expand and collapse the report details. In Excel click the [2] to collapse the detail. The image below shows the collapsed result.

12	3	А	В	С	D	E	F	G	Н	1	J	К	L	М
	1	C	lickon	[2] to co	llaps	e the group	Invoice List	with Detail						
		INVOICE	PO #	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	TAX	FREIGHT	Total
	2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT	
+	4	12122 Total												12,478.52
+	8	12301 Total					no Data!							17,356.73
+	11	12121 Total					no Data:							50,750.63
+	15	12345 Total												23,571.12
	16	Grand Total	P											104,157.00
	17													

As you can see, collapsing the detail in Excel also hides all the important information i.e. PO#, DATE, CUSTOMER and NAME. In order to repeat that data on the total line, we need to modify the Data View to force data repeat on total lines.

Back in the Data View Manage, select the four fields to repeat (PO#, DATE, CUSTOMER and NAME) and check "Repeat Detail" and enter INV.NO in the provided textbox. This instructs phiReport to repeat the data when Grp (BREAK-ON/GROUP-BY) is turned on for the INV.NO field.

LineltemTotal	Line Item Total	4	Numeric	Pad Length Character
NAME	NAME	2	Alpha	
PO.NO	PO #	3	Alpha	Sheet Control
PRICE QTY SHIP.DATE STATE STMT.NO TAX TAXAMT UPC ZIP	PRICE QTY SHIP DATE STATE STMT NO TAX TAX AMOUNT UPC CODE ZIP	4 5 12 2 10 6 4 4 2	Numeric Date Alpha Alpha Numeric Numeric Alpha Alpha	Formula =
				Set as End of Freeze Pane
<				> Page Break-On

2 3		Α	В	С	D	E	F	G	н	I.	J	К	L	м
	1						Invoice Lis	t with Detail						
		INVOICE	PO#	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	TAX	FREIGHT	Total
	2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT	
	3	12122	X17279	05/12/2003	1208 l	ongo Toyota	70124	Z-135 PC Computer Monitor	20	565.95	11,319.00	905.52	254.00	12,478.52
-	4	12122 Total	X17279	05/12/2003	1208 I	ongo Toyota								12,478.52
	5	12301	12345	04/19/2005	1119 /	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
	6	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
	7	12301	12345	04/19/2005	1119 /	Ajax Computer Electronics	3150	PM PC-AT Computer	3	4,295.75	12,887.25	1,030.98		13,918.23
	8	12301 Total	12345	04/19/2005	1119	Ajax Computer Electronics		Repeated Data						17,356.73
	9	12121	VERBAL	05/31/1988	1118 /	ABC Electronics Corp		oM PC-AT Computer	10	4,295.75	42,957.50	3,436.60	650.20	47,044.30
	10	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	70 _4	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33
	11	12121 Total	VERBAL	05/31/1988	1118 /	ABC Electronics Corp								50,750.63
÷.,	12	12345	D521	05/31/1988	1119	Ajax Computer Electronics	00096	RCA XL100 Color TV	10	525.00	5,250.00	420.00	650.20	6,320.20
	13	12345	D521	05/31/1988	1119 /	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	15	795.95	11,939.25	955.14	650.20	13,544.59
	14	12345	D521	05/31/1988	1119	Ajax Computer Electronics	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33
	15	12345 Total	D521	05/31/1988	1119 /	Ajax Computer Electronics								23,571.12
	16	Grand Total												104,157.00
	17													
		Invoice Detail	(+)				1							

1	2 3		А	В	С	D	E	F	G	Н	1	J	K	L	М	
			00	llanse	d			Invoice Lis	t with Detail							
		1	INVOICE	PO #	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	ТАХ	FREIGHT	Total	-
	_	2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT		
ГС	+	4	12122 Total	X17279	05/12/2003	1208	Longo Toyota								12,478.52	
	+	8	12301 Total	12345	04/19/2005	1119	Ajax Computer Electronics								17,356.73	
	+ + + +	11	12121 Total	VERBAL	05/31/1988	1118	ABC Electronics Corp								50,750.63	
	+	15	12345 Total	D521	05/31/1988	1119	Ajax Computer Electronics								23,571.12	
-		16	Grand Total	-											104,157.00	
		17														
		18														
	( →		Invoice Detail	+					: •							Þ

1 2 3		A	В	С	D	E	F	G	Н	1	J	К	L	М
	1						Invoice List	with Detail						
		INVOICE	PO #	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	TAX	FREIGHT	Total
	2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT	
[[·	3	12122	X17279	05/12/2003	1208	Longo Toyota	70124	Z-135 PC Computer Monitor	20	565.95	11,319.00	905.52	254.00	12,478.52
_	4	12122 Total	X17279	05/12/2003	1208	Longo Toyota								12,478.52
1 [ •	5	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
·	6	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25
	7	12301	12345	04/19/2005	1119	Ajax Computer Electronics	31300	IBM PC-AT Computer	3	4,295.75	12,887.25	1,030.98		13,918.23
_	8	12301 Total	12345	04/19/2005	1119	Ajax Computer Electronics								17,356.73
1 [ •	9	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	31300	IBM PC-AT Computer	10	4,295.75	42,957.50	3,436.60	650.20	47,044.30
I L ·	10	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33
_	11	12121 Total	VERBAL	05/31/1988	1118	ABC Electronics Corp								50,750.63
1 [ •	12	12345		05/31/1988	1119	Ajax Computer Electronics	00096	RCA XL100 Color TV	10	525.00	5,250.00	420.00	650.20	6,320.20
1 ·	13	12345	D521	05/31/1988		Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	15	795.95	11,939.25	955.14	650.20	13,544.59
I L ·	14	12345		05/31/1988		Ajax Computer Electronics	70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33
	15	12345 Total		05/31/1988	1119	Ajax Computer Electronics								23,571.12
-	16	Grand Total												104,157.00
	17													
4	>	Invoice Detail	÷	1				: 4				1		Þ

One last thing we want to do for this report is to not repeat the detail info when in expended mode.

This is done from the Data View Manager. Select the main field (INV.NO) and check "Clear Dup Data". In the provided textbox, enter the names of the fields to clear when data is repeated in INV.NO. List all fields separated by a comma.

FRT	ESSAI FREIGHT AMOUNT	13 7	Aipna Numeric	✓ Use as Citteria Field
IINV.NO	INVOICE NUMBER I	0	Alpha	Wrap Column
INV.TOTAL LineAmount	INVOICE TOTAL Line Amount	0	Numeric Numeric	Padding  None O Left O Right
LineltemTotal NAME	Line Item Total NAME	4	Numeric Alpha	Pad Length Character
PO.NO PRICE	PO # PRICE	3 4	Alpha Numeric	Formula =
QTY SHIP.DATE	QTY SHIP DATE	5 12	Numeric Date	Add Comments
STATE STMT.NO	STATE STMT NO	2 10	Alpha Alpha	Clear Data
TAX TAXAMT	TAX TAX AMOUNT	6 4	Numeric Numeric	Clear Dup. Data PO.NO,DATE,CUST.NO,NAM
UPC	UPC CODE	4	Alpha	Repeat Detail

Rerun your report to get the designed result.

-	A	В	C	D	E	F	G	Н	1	J	K	L	М	_
						Invoice L	ist with Detail							
1														
	INVOICE	PO #	DATE	CUSTO	NAME	UPC	PRODUCT	QTY	UNIT	EXT	TAX	FREIGHT	Total	
2	NUMBER			MER		CODE	DESCRIPTION		PRICE	PRICE	AMOUNT	AMOUNT		
3	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	31300	IBM PC-AT Computer	10	4,295.75	42,957.50	3,436.60	650.20	47,044.30	
4						70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33	
5	12121 Total	VERBAL	05/31/1988	1118	ABC Electronics Corp								50,750.63	
6	12345	D521	05/31/1988	1119	Ajax Computer Electronics	00096	RCA XL100 Color TV	10	525.00	5,250.00	420.00	650.20	6,320.20	
7						27030	Sharp X1000 VCR VHS	15	795.95	11,939.25	955.14	650.20	13,544.59	
8						70124	Z-135 PC Computer Monitor	5	565.95	2,829.75	226.38	650.20	3,706.33	
9	12345 Total	D521	05/31/1988	1119	Ajax Computer Electronics								23,571.12	
10	12122	X17279	05/12/2003	1208	Longo Toyota	70124	Z-135 PC Computer Monitor	20	565.95	11,319.00	905.52	254.00	12,478.52	
11	12122 Total	X17279	05/12/2003	1208	Longo Toyota								12,478.52	
12	12301	12345	04/19/2005	1119	Ajax Computer Electronics	27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25	
13						27030	Sharp X1000 VCR VHS	2	795.95	1,591.90	127.35		1,719.25	
14						31300	IBM PC-AT Computer	3	4,295.75	12,887.25	1,030.98		13,918.23	
15	12301 Total	12345	04/19/2005	1119	Ajax Computer Electronics								17,356.73	
16	Grand Total												104,157.00	
17														
	Invoice Detail	(+)												•
	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	2 NUMBER 3 12121 5 12121 Total 6 12345 7 9 12345 Total 9 12345 Total 10 12122 11 12122 Total 12 12301 13 14 15 12301 Total 16 Grand Total 17	2 NUMBER 3 12121 VERBAL 5 12121 Total VERBAL 6 12345 D521 7 2 9 12345 Total D521 10 12122 X17279 11 12122 Total X17279 12 12301 12345 13 1 14 15 12301 Total 12345 15 12301 Total 12345 16 Grand Total 17	NUMBER         District of the second se	INVOICE         PO #         DATE         CUSTO MER           1         12121         VERBAL         05/31/1988         1118           5         12121         VERBAL         05/31/1988         1118           6         12345         05/21         05/31/1988         1118           7         7         7         7         7           9         12345         Total         05/31/1988         1119           10         12122         VIZ779         05/12/2003         1208           12         12122         VIZ779         05/12/2003         1208           12         12212         VIZ179         05/12/2003         1208           12         12301         12345         04/19/2005         1119           13         11         12301         Total         12345         04/19/2005         1119           16         Grand Total         1         1         1         1         1         1	INVOICE         PO #         DATE         CUSTO MER         NAME           1112         VERBAL         05/31/1988         1118         ABC Electronics Corp           12121         VERBAL         05/31/1988         1118         ABC Electronics Corp           12121         VERBAL         05/31/1988         1118         ABC Electronics Corp           12121         Total         VERBAL         05/31/1988         1119         Ajax Computer Electronics           12121         VERBAL         05/31/1988         1119         Ajax Computer Electronics         0           12122         VERBAL         04/19/2005         1119         Ajax Computer Electronics         0           12301         Total         12345         04/19/2005         1119         Ajax Computer Electronics           12301         Total         12345         04/19/2005         1119         Ajax Computer Electronics	INVOICE         PO #         DATE         CUSTO MER         NAME         UPC CODE           1         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         31300           5         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         31300           6         12345         05/31/1988         1118         ABC Electronics Corp         00966           7         2         05/31/1988         1119         Ajax Computer Electronics         00966           9         12345         105/31/1988         1119         Ajax Computer Electronics         01244           10         12122         105/31/1988         1119         Ajax Computer Electronics         01246           11         12122         105/31/1988         1119         Ajax Computer Electronics         01246           11         12122         105/31/1988         1119         Ajax Computer Electronics         01246           12         12301         12345         04/19/2005         1119         Ajax Computer Electronics         270300           13         12301         12345         04/19/2005         1119         Ajax Computer Electronics         31300           15 <td>INVOICE         PO #         DATE         CUSTO MER         NAME         UPC         PRODUCT CODE         PRODUCT DESCRIPTION           1         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         31300         IBM PC-AT Computer           5         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         70124         2-135 PC Computer Monitor           6         12345         05/31/1988         1118         ABC Electronics Corp         00096         RCA XL100 Color TV           7         05/31/1988         1119         AJax Computer Electronics         00096         RCA XL100 Color TV           7         05/31/1988         1119         Ajax Computer Electronics         00096         RCA XL100 Color TV           7         05/12/2003         1208         Longo Toyota         70124         2-135 PC Computer Monitor           1         12122         Total         12545         04/19/2005         1119         Ajax Computer Electronics         27030         Sharp X1000 VCR VHS           13         12301         Total         1245         04/19/2005         1119         Ajax Computer Electronics         27030         Sharp X1000 VCR VHS         313000         IBM PC-AT Computer     <!--</td--><td>Invoice List with Detail           INVOICE         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY           1         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         100           4         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer Monitor         5           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         0096 RCA XL100 Color TV         10           6         12345 DS21         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10           7         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5           9         12245 Total         05/31/1988         1119 Ajax Computer Electronics         70124 Z-135 PC Computer Monitor         20           11         12122 K17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         20           12         12301 IZ345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2           13         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         31</td><td>Invoice         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY         UNIT           2         NUMBER         DATE         CUSTO         MER         CODE         DESCRIPTION         QTY         UNIT           3         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4,295.75           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         555.95           6         12345 D521         05/31/1988         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         15         795.95           7         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         565.95           11         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         2         755.95           12         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2         795.95           13         1201 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030</td><td>Invoice List with Detail           Invoice Li</td><td>Invoice List with Detail           Invoice Li</td><td>Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice NUMBER         DATE         CUSTO         NAME         UPC         PROUT         QTY         PNICE         PRICE         PRICE         PAIL         TAX         FREIGHT           12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4.2957.53         4.2957.53         3.436.60         650.20           5         12121         Total         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         55.59         2.829.75         226.38         650.20           6         12245         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           7         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           11         12122         N17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         555.95         2,829.75         226.38</td><td>Invoice List with Detail         Invoice List with Detail           Invoice List with Detail         Invoice List With Detail         Invoice List With Detail</td></td>	INVOICE         PO #         DATE         CUSTO MER         NAME         UPC         PRODUCT CODE         PRODUCT DESCRIPTION           1         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         31300         IBM PC-AT Computer           5         12121         VERBAL         05/31/1988         1118         ABC Electronics Corp         70124         2-135 PC Computer Monitor           6         12345         05/31/1988         1118         ABC Electronics Corp         00096         RCA XL100 Color TV           7         05/31/1988         1119         AJax Computer Electronics         00096         RCA XL100 Color TV           7         05/31/1988         1119         Ajax Computer Electronics         00096         RCA XL100 Color TV           7         05/12/2003         1208         Longo Toyota         70124         2-135 PC Computer Monitor           1         12122         Total         12545         04/19/2005         1119         Ajax Computer Electronics         27030         Sharp X1000 VCR VHS           13         12301         Total         1245         04/19/2005         1119         Ajax Computer Electronics         27030         Sharp X1000 VCR VHS         313000         IBM PC-AT Computer </td <td>Invoice List with Detail           INVOICE         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY           1         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         100           4         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer Monitor         5           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         0096 RCA XL100 Color TV         10           6         12345 DS21         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10           7         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5           9         12245 Total         05/31/1988         1119 Ajax Computer Electronics         70124 Z-135 PC Computer Monitor         20           11         12122 K17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         20           12         12301 IZ345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2           13         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         31</td> <td>Invoice         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY         UNIT           2         NUMBER         DATE         CUSTO         MER         CODE         DESCRIPTION         QTY         UNIT           3         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4,295.75           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         555.95           6         12345 D521         05/31/1988         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         15         795.95           7         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         565.95           11         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         2         755.95           12         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2         795.95           13         1201 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030</td> <td>Invoice List with Detail           Invoice Li</td> <td>Invoice List with Detail           Invoice Li</td> <td>Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice NUMBER         DATE         CUSTO         NAME         UPC         PROUT         QTY         PNICE         PRICE         PRICE         PAIL         TAX         FREIGHT           12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4.2957.53         4.2957.53         3.436.60         650.20           5         12121         Total         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         55.59         2.829.75         226.38         650.20           6         12245         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           7         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           11         12122         N17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         555.95         2,829.75         226.38</td> <td>Invoice List with Detail         Invoice List with Detail           Invoice List with Detail         Invoice List With Detail         Invoice List With Detail</td>	Invoice List with Detail           INVOICE         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY           1         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         100           4         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer Monitor         5           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         0096 RCA XL100 Color TV         10           6         12345 DS21         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10           7         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5           9         12245 Total         05/31/1988         1119 Ajax Computer Electronics         70124 Z-135 PC Computer Monitor         20           11         12122 K17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         20           12         12301 IZ345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2           13         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         31	Invoice         PO #         DATE         CUSTO         NAME         UPC         PRODUCT         QTY         UNIT           2         NUMBER         DATE         CUSTO         MER         CODE         DESCRIPTION         QTY         UNIT           3         12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4,295.75           5         12121 Total         VERBAL         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         555.95           6         12345 D521         05/31/1988         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         15         795.95           7         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         565.95           11         12122 X17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         2         755.95           12         12301 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030 Sharp X1000 VCR VHS         2         795.95           13         1201 Total         12345         04/19/2005         1119 Ajax Computer Electronics         27030	Invoice List with Detail           Invoice Li	Invoice List with Detail           Invoice Li	Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice List with Detail           Invoice NUMBER         DATE         CUSTO         NAME         UPC         PROUT         QTY         PNICE         PRICE         PRICE         PAIL         TAX         FREIGHT           12121         VERBAL         05/31/1988         1118 ABC Electronics Corp         31300 IBM PC-AT Computer         10         4.2957.53         4.2957.53         3.436.60         650.20           5         12121         Total         05/31/1988         1118 ABC Electronics Corp         70124 Z-135 PC Computer Monitor         5         55.59         2.829.75         226.38         650.20           6         12245         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           7         05/31/1988         1119 Ajax Computer Electronics         00096 RCA XL100 Color TV         10         525.00         5,250.00         420.00         650.20           11         12122         N17279         05/12/2003         1208 Longo Toyota         70124 Z-135 PC Computer Monitor         5         555.95         2,829.75         226.38	Invoice List with Detail         Invoice List with Detail           Invoice List with Detail         Invoice List With Detail         Invoice List With Detail

Created with the Standard Edition of HelpNDoc: Write eBooks for the Kindle

# **Report Invoice List Summary**

This tutorial introduces the following features:

• Pick Style DET-SUPP summary data

The Invoice List Summary report is a summary version of the Invoice List Detail report. The difference here is we will ask the database server to produce the summary instead of asking Excel to do it.

🚛 phiReport Builder															-	C	ı ×
File Edit Run Too	ls Help																
2 C 🔒	X 🖌	ا کا 🕑	o 🛄	3 ]													
Category phiRe Report Invoid Data View INV.V	e List Sumr	nary		> C > C > C	Data Section	# Enable 1 ☑ <		I File SAMPLE		File Alia SAMPLE		Display Fields UPC CODE TAX AMOUNT QTY PRODUCT DESCRIPTION	Sort	)isp ^	Total	Grp	Key
Op Field		Operator		Criteria		Sort Hide	Notes/Commen	its				PRICE INVOICE TOTAL EXTPRICE INVOICE NUMBER	10	10			
Report Parameters					Raw Data					DC	$\square$	PO # DATE CUSTOMER NAME	1	15 20 30 35			
INVOICE NUMBER 12122	PO # X17279	DATE 05/12/2003	CUSTOMER 1208	NAME Longo Toyota		11,319.00	TAX AMOUNT2 905.52		254.00	INVOI		EXTPRICE2 TAX AMOUNT2		35 70 80			
12301 12301		04/19/2005		Ajax Computer Elec Ajax Computer Elec		11,319.00 1,591.90 1,591.90	905.52 127.35 127.35		254.00 123.45			FREIGHT AMOUNT		90 100			
12301		04/19/2005		Ajax Computer Elec Ajax Computer Elec		12,887.25	1,030.98		123 45								
	VERBAL VERBAL	05/31/1988 05/31/1988		ABC Electronics Co ABC Electronics Co		2,829.75	226.38		650.20								
*** 12345	D521	05/31/1988	1119	Ajax Computer Elec	tronics	45,787.25 2,829.75	3,662.98 226.38		650.20								
12345 12345		05/31/1988 05/31/1988		Ajax Computer Elec Ajax Computer Elec		5,250.00 11,939.25	420.00 955.14		650.20								
***						20,019.00 93,196.30	1,601.52 7,455.70		650.20 1,677.85								
									-					_			
<										->	<b>⊠</b> (	Jse Pick DET-SUPP style :	summa	iry			
hiReport 3.1.0 Pro (D3)		Sample Size	200 🗸			14 sa	mple records fou	nd.				11	Jun 20	19 - pt )	Ireport	dev (P	TI7) - Por

This is done by checking the "**Use Pick DET-SUPP style summary**" checkbox. When checked, phiReport will execute the DET-SUPP instruction to the statement and only returns the summary data. This checkbox does not change the output on the Preview tab. Click on Run Excel to generate the Excel sheet.

	А	В	С	D	E	F	G	Н	I.	J	-
					Invoice List Summary						
1	INNVOICE	<b>DO #</b>	DATE	CULCTONICD	NABAT	EVE	TAN	EDELOUT	INNYOLOF		
2	INVOICE NUMBER	PO #	DATE	CUSTOMER	NAME	EXT PRICE	TAX AMOUNT	FREIGHT	INVOICE TOTAL		
			/ /								-
3	12122	X17279	05/12/2003	1208	Longo Toyota	11,319.00	905.52	254.00	12,478.52		
4	12301	12345	04/19/2005	1119	Ajax Computer Electronics	16,071.05	1,285.68	123.45	17,480.18		
5	12121	VERBAL	05/31/1988	1118	ABC Electronics Corp	45,787.25	3,662.98	650.20	50,100.43		
6	12345	D521	05/31/1988	1119	Ajax Computer Electronics	20,019.00	1,601.52	650.20	22,270.72		
7						93,196.30	7,455.70	1,677.85	102,329.85		
8											
9											
10											-
	invo	oice Summ	ary (+)		1	:	4			•	•

Note that there are no groups, only the summary data and the grand total.

In this report, columns UPC CODE, PRODUCT DESCRIPTION, QTY and UNIT PRICE are not relevant to the output because we only want to see the summary data.

Additionally, this report uses an External Macro to create a pivot table sheet.

Created with the Standard Edition of HelpNDoc: What is a Help Authoring tool?

## **Report Invoice form**

This tutorial introduces the following features:

- Create and apply a custom template
- Call a custom subroutine to generate a data blob
- Use a data blob as report data source
- Use non-standard cell position as data import starting point
- Use Smart-Paging to print Pre-Printed Forms
- User Prompt

The Invoice Form report demonstrates how phiReport can be used to create Pre-Printed Form reports. Pre-Printed Form reports are non-tabular reports. They usually include a header and a footer that repeats on every page. The complexity of the header and footer depends on the report's requirement.

### Here's our end goal:

INVOICE

Page 1 of 1

	UTCL						
C	Comp	any					
				Remit To		Invoi	ce Number
	Aiay Comput	er Electronics		Company In	c.	1	2345
	615 East 62n			123 Mains S			
Bill	P O Box 4587			Irvine, CA 921	23	When Re	mitting Please
То	New York Cit	-				-	
	New TOTK CIT	y, NT 10021		Customer Bill To No.	<b>C N</b>		
				Customer Bill To No.	Store Nu	mber	Invoice Date
Ship		ter Electronics		1119	123	3   0	05/31/1988
То	615 East 62n						
	P O Box 4587	-					
	New York Cit	y, NY 10021					
Broker Code 1	Broker and/or	r Salesman Name	Local Sales Rep		c	ustomer PO Num D5	
Terms From D		Shi	p From Plant 01	ip VIA UPS			
	30 Day		Plant 01	0P5			
Stock #	Class	Product Code	PRODUCT DE	ESCRIPTION	Qty	Unit Price	Ext.Price
1	200	00096	RCA XL100 Color TV		10	525.00	5,250.00
2	200	27030	Sharp X1000 VCR VHS		15		0.00
3	300	70124	Z-135 PC Computer Mo	nitor	5		0.00
			*** NOTICE ***				
			This product is current	y out of stock.			
			You will be notified by				
			Please contact our cust	omer service at (800)	123-4567 f	for more info	rmation.
			Thank you for your und	lerstanding.			
0					Table		F 050 00
Cases					Total Qty 30	Page Total	· · ·
6					30	Running Total Discount	,
							10.00
			TOTALS			Freight Tax Rate %	
							7.50
						Tax Amount	
						Credit	
						Total Invoice	6,201.97

Please note any deductions other than discount earned on duplicate copy and return with Remittance. Should deductions represent shortages or damages, enclose a copy of signed delivery receipt.

ORIGINAL

Due On: 6/16/2019

Created with the Standard Edition of HelpNDoc: Free HTML Help documentation generator

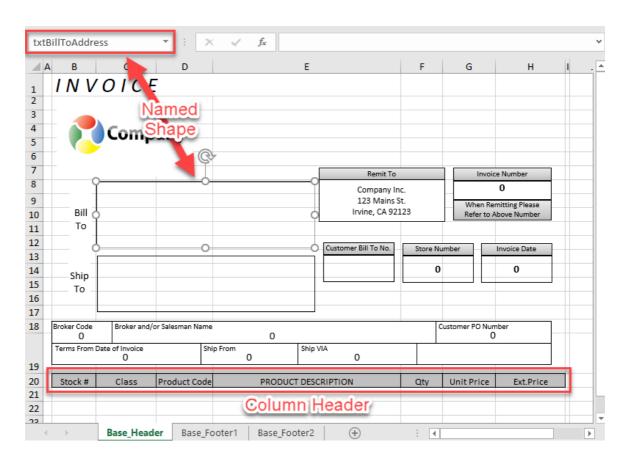
# **Form Template**

A Form is composed of three parts:

B		D.	E		F	G	Н	J
ΝV	<i>ΟΙ</i> ΟΕ							
	Comp	any						
	-	•						
	-			Remit To			e Number	
	Ajax Compu	ter Electroni	ics	Company In		1	2301	
- Dill	615 East 62	nd Street		123 Mains S Irvine, CA 92			mitting Please	
Bill	P O Box 458	78		Invine, CA 92	125	Refer to A	bove Number	ge
10	New York Ci	ty, NY 1002.	1					ea
	L			Customer Bill To No.	Store N	umber	Invoice Date	- <del>2</del>
	Ajax Compu	ter Electron	ics	1119	12		4/19/2005	
Ship_	615 East 62						4/19/2005	
То	P O Box 458							
	New York C	ty, NY 1002:	1					
ker Code	Broker and /c	r Salesman Nam	•		<u>і</u> Б	Customer PO Nun	nher	
1			Local Sales Rep			123		
rms From	Date of Invoice 30 Day	SI	hip From Shi Plant 01	<sup>p VIA</sup> UPS				
Stock #	Class 200	Product Code 27030	PRODUCT DE Sharp X1000 VCR VHS		Qtv 2	Unit Price 795.95	Ext.Price 1,591.90	
2	300	31300	IBM PC-AT Computer		3		0.00	
3	200	27030	Sharp X1000 VCR VHS		2		0.00	$\geq$
	200	27000	*** NOTICE ***		-		0.00	Bod
			This product is curren	tly out of stock.				<u> </u>
			You will be notified b		t become	s available.		
			Please contact our cus	•			information.	
			Thank you for your un		Ľ			
ses					Total Qty	Page Total	1,591.90	
6					7	Running Total	1,591.90	
						Discount	10.00	
						Freight	123.45	
			TOTALS			Tax Rate %	7.50	e
						Tax Amount	127.90	ooter
						Credit	130.00	Ö
						Total Invoice	1,703.25	- <u>E</u>
		a athen the	discount operad as don't	ente conversi			1,105.25	
	ie anv deductio		discount earned on dupli ions represent shortages					
turn wit		delivery recei	pt.					
turn wit	h Remittance. S	delivery recei						
turn wit	h Remittance. S	delivery recei	ORIGI	NAL	Due On:	7/11/2019		
turn wit	h Remittance. S	delivery recei		NAL	Due On:	7/11/2019		

### 1. Header

The header is the top part of a form and is repeated on every page. Data is passed to the header through a dynamic array to Excel named shapes and/or cells.



Start by creating your header based on the data to be placed in the body. Create the body header by sizing the columns as required and make sure the total width of the body fits the width of the your page. To avoid unnecessary page breaks, set the page scaling to "Fit All Columns on One Page" as shown below:

	Demolnvoice.xls [Read-Only] [Compatibility Pierre Trin	ephi 📓 🕲 🙁 ? — 🗆 🗙
e	Print	
斺 Home	Copies: 1	
🕒 New		
🗁 Open	Print	
Info	Printer	
	Brother MFC-9340CDW Prin	INVOICE Paperda
Save	Printer Properties	Company
Save As	Settings	
History	Print Active Sheets	
Print	Pages: to t	The Control of Control
Share	Print on Both Sides Flip pages on long edge	
Export	Collated •	
Publish	Portrait Orientation -	
Close	Letter •	
Account	Custom Margins -	
Feedback	Fit All Columns on One Page Shrink the printout so that it	
Options	Page Setup	< 1 of 1 ▶

Once the columns defined, add the shapes to the footer. Shapes are convenient because they don't have to be "snapped" to a cell, they can be placed anywhere on the sheet. You can control their font style and color independently from the sheet. Make sure you every shape you will send data to is named and make sure names are unique. Excel does not check for uniqueness!

### 2. Body

The content of the body can be the result of a query or a data blob generated by a BASIC program. 1. Result of a Query

Create a standard report using the standard method. Make sure that the number of display fields selected matches the column definition in the header. All custom formating are maintained (font, color, justification, format...) with the exception of the column width. The column width defined in the header is not affected by the display field defined in the Data View.

2. Data Blob

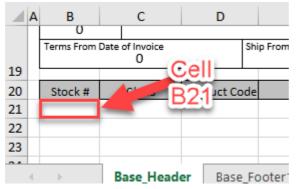
Data Blob is 1 or more item that contains a block of data. In a data blob item, each attribute corresponds to a row and each value corresponds to a column. In our example, the data blob would have 7 values (7 columns) per attribute. This is the recommended structure but since it is not enforced by phiReport you can provide any data format you like.

The Data blob can be generated by a BASIC program called by the Pre-Query Process. This program reads input parameters from the command line and writes blob item in a work file.

To turn on Data Blob mode, check the box "Data Blob" on the "Report Parameter" tab.

Report Parameters	Pre/Post Processes	Output	Header/Footer Codes	Preview	Raw Data	Configuration	Printed Form Parameters
						Page Se	etup
Sheet Name	Invoice %%@Invoice	e Number	%%			Orientati	ion   Portrait  C Landscape
Header / Footer						Fit to	page(s) wide by tall
Left Header	r						
Center Header	r					Use F	Row Alternate Color
Right Header	r l					Data Se	etup
Row Header Text						Sta	Column B Int Row 21 Data Filter
	🗹 Repeat Header						
Left Footer Center Footer						- Import S	
Right Footer							w Tor Data blob is Column Header

In the "Start Column/Row" fields, enter the Excel coordinate where to start the body.



On the "Pre/Post Processes" tab, select "Execute TCL Command(s) and enter the name of the BASIC program to execute and the command line parameters.

Report Parameters Pre/Post Processes Output Header/Footer Codes Preview Raw Data Configuration Printed Form Parameters

Pre-Query Process	Execute TCL Command(s)	Demo_Invoice_PreQuery %%@Invoice Number%% %%@USERPORT%% STOP	^
Post-Query Process	<none> 🗸</none>		~
			~

In our example we execute "Demo\_Invoice\_PreQuery" and pass it two parameters:

- 1. %%@Invoice Number%% : The Invoice number to prompt the user
- 2. %%@USERPORT%% : The User Port (@PIB in D3, @USERNO)

The "STOP" command indicates a "no active list" return. By default, phiReport expects Pre-Query processes to return an active list to be used as the starting point for the main query. If no active list is returned, phiReport considers that there's no data and stops the reporting process. The command "STOP" tells phiReport to ignore the active list and continue processing.

### 3. Footer

The footer is the bottom part of the form. There can be up-to two footers. One for pages 1 to page n-1 and one for page n; the last page. Data is passed to the footer through a dynamic array to Excel named cells. Excel formulas can also be used to plot data to the footer.

In our example the Base\_footer1 sheet is used on pages 1 to n-1 and Base\_footer2 is used on the

last page only. If the form only returns a single page, Base\_footer2 is used.

- T	emplate Settings					
	Custom Template	http://3phi.solutions/	ohiReport/DemoInv	oice.xl	S	🔛 💽
	Main Sheet Name	Base_Header				
	Footer 1 Sheet Name	Base_Footer1	Footer 1 Rows	8		1
	Footer 2 Sheet Name	Base_Footer2	Footer 2 Rows	15	Pad to Bottom	
	Include Table Header	🗌 (When checked, th	ie table header will	be ad	ded to the Custom Te	mplate)
	Multi-Page Template	🗹 Use Multi-Page Ma	acro Template			

### Base\_footer1

#### Footer 1 is defined in the top 8 rows of Base\_Footer1 sheet

	A	В	С	D	E	F	G	H	I J	
1	Ca	ases			TOTALS	Page Qty	Page Total	txtPageTotal1		
2	tx	tCases1			TOTALS	xtWeight	Running Total	tRunningTotal1		
4					discount earned on duplicate copy and					$\square$
5	re	eturn with	n Remittance. S	Should deducti	ons represent shortages or damages,					
6	er	nclose a d	copy of signed	delivery receip	ot.					
7					ORIGINAL	Due On:	txtDueOn1			
-										
9										
10										
4.4										<b>T</b>
	•	$\vdash$	Base_Head	er Base_F	ooter1 Base_Footer2 (+)				Þ	]

### Base\_footer2

Footer 2 is defined in the top 15 rows of Base\_Footer2 sheet.

F	В	С	D	E	F	G	Н	I J	
1	Cases				Total Qty	Page Total	txtPageTotal2		
2	txtCases2				xtWeight	Running Total	tRunningTotal2		
3						Discount	txtDiscount2		
4				TOTALS		Freight	txtFreight2		
5				TOTALS		Tax Rate %	txtTaxRate2		
6						Tax Amount	#VALUE!		
7						Credit	txtCredit2		
8						Total Invoice	#VALUE!		
10	Please not	e any deductio	ns other than	discount earned on duplicate copy and					
11	return with	Remittance. S	Should deducti	ons represent shortages or damages,					
12	enclose a c	copy of signed	delivery receip	pt.					
13									
14				ORIGINAL	Due On:	txtDueOn2			
15									
16									
4	•	Base_Head	er Base_F	ooter1 Base_Footer2 +	: •			Þ	

Notice the named cells in the footers. These are used to "inject" data from the report program to the sheet. Cells that show "#VALUE!" are Excel formulas, these do not need to be named.

### Note: Footers do not support Excel Shapes, only Named Cells can be used.

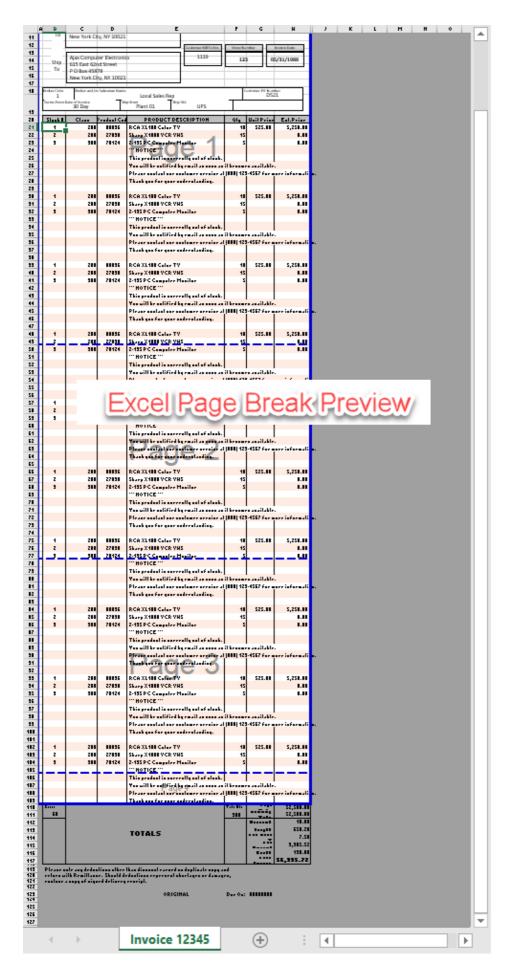
"Pad to Bottom" pushes the footer to the bottom of the page by inserting empty rows after the last row of data.

"Multi-Page Template" enables "Smart paging" which automatically inserts footer 1 at the end of each page and footer 2 on the last page. This feature is only runs when saving the form as PDF and when

sending the report to a printer. Excel does not support footer preview in its "Preview" mode.

When creating a multi-page form, Excel will create a sheet similar to the one below:

	C New York D	D by, NY 10023	-	-	G	н	) к	L	н	H O
raker Caste	Backer and/o	Galenenar Harro		1	otomor PD K.m DSJ	duar 1				
1 isrm.Fann	Late of Section	T	Local Sales Rep Ny Roy Dig 10.	-+	DS	21				
	30 Day		Plant D1. UPS							
51eek II.	211	Product Co.	PRODUCT DESCRIPTION     RCA XL100 Culor TV	01. 11	Unil Prine S25.00	Eul.Prine 5,258.88				
2	211	27838	Shary X1888 VCR VHS	15		1.11				
,		78124	2-195 PC Computer Hanilar	s		1.11				
			This product is serverally out of slash							
			You will be unlified by email an owner Please undant one undance occurring							
			Thank you for your understanding.	1						
1	211	88836	RCA XLIBE Cales TV	18	525.88	5,258.88				
2	200	27858	Sharp X1888 VCR VHS	15		1.0				
,	311	78124	2-155 PC Computer Hanilar	5		1.11				
			This product is serverally out of alask							
			You will be colified by easily a non-a Please contact are contacted over a							
			Thank you for your understanding.					_		
1	211		RCA XL188 Calar TV	10	525.88	5,258.88				
2	200	27858 78424	Sharp X1888 VCR VHS	15		1.11				
,		(1)64	2-135 PC Compeler Havilar	,						
			This product is serverally out of also You will be sufficed by email as soon a							
			Please undad or undore resire.							
			Thank you for your understanding.							
1	211	11156	RCA XL188 Calar TV	18	\$25.88	5,258.88				
2		27858 78424	Sharp X1888 YCR VHS 2:495 RC Consolan Hanilan	15		- <u>1.11</u> 1.11				
,		10124	2-135 PC Compairs Hamilas			1.11				
			This product is successful and of also You will be collified by easil as soon a							
			Please analast are analouse account.		-4567 Fee	arr informalia				
			TLL	I						
4	1		0.00	-	-	-		-		
2		-Vr	cel Stand	121	d	She	opt.	/iev	M	_
		-^'	Joi Otario	Jai	<u>u</u>				<u>, , , , , , , , , , , , , , , , , , , </u>	
		_		_						
			Thank you for your understanding.							
1	211	11135	RCA XL188 Calar TV	18	525.88	5,258.88				
2	200	27858 78424	Sharp X1888 VCR VHS 2-135 PC Computer Hamilar	15		1.11				
•			"HOTICE "							
			This product is surreally ast of alask Yau will be astified by email as soon a		a an ail abhr					
			Please analysi are analogee account.							
			Thank you for your understanding.							
1	211		RCA XL188 Calar TV	- 10	525.88	5,258.88				
2	200	27858 78124	Sharp X1888 VCR VHS 2-135 PC Compalyr Hamilar	15		1.11 1.11				
			"HOTICE "	1						
			This product is secretally and of alask Yes will be collified by ewait as seen a		a an ail able					
			Please and all use and aner area inc							
			Thank you for your understanding.							
1	211	11135	RCA XL188 Calar TV	- 18	525.88	5,258.88				
2	211	27858 78424	Sharp X1888 VCR VHS 2-135 PC Computer Manilar	15		1.11				
			"HOTICE "	1 .		1.11				
						1.11				
			This product is secretally out of alook You will be sufficed by email as soon a		a a si la bi a					
			Yes will be collified by easil as soon a Please contact one contacter accession	a il braans			•			
			You will be unlified by email as soon a	a il braans						
1	200	11135	Yes will be enlified by easily and a Please and all are undered are in Thesh yes for your order all adding. RCA XL100 Color TV	1 6			•			
1 2 3	211 211	27838	Yes will be satisfied by easily an easy of the second seco	ai ( 6.000) 129	-4567 far a					
2	211		Ves util to calific day south access Please and an environmentation Plant and for any environmentation RCA XL488 Cales TV Sharp X4888 VCR V45 2-455 PC Cangelor Havilan "MOTICE"	11 6	-4567 far a					
2	211	27838	Yes will be calified by each amount of Please and an annual and the second and th	11   1000   125 11   1000   125 10 10 10 15 5	-4567 for a	s,258.08 8.00 8.00 8.00				
2	211	27838	Yes util to calified by eacile senses Please and all an each are represented at That yes and the sense set and are represented to the sense of the sense of the sense CAR X1480 Cales TV Share X1480 VCR VHS 2-455 PC Cangaler Having "MOTICE" This product is sense and are set in sense Please material sense reprint a sense Please material sense reprint presented at	11 Leenau 11 JULUI   123 18 19 19 19 19 19 19 19 19 19 19 19 19 19	-4567 fur 525.00	arr iafarmali, 5,258.88 8.88 8.89 8.89				
2	211	27838	Ves off to calify d by calify and a Please seelad an evaluate environment Reading for the seelad off the Starty MINE Calify TV Starty XIIIII VCR VIS 2-455 PC Campler Hasiler "MOTICE "" This product is according at a failable Yes will be califyed by califyed and a failable	11 Leenau 11 JULUI   123 18 19 19 19 19 19 19 19 19 19 19 19 19 19	-4567 fur 525.00	arr iafarmali, 5,258.88 8.88 8.89 8.89				
2 5	211	27838 78424	Yes will be calified by easily annear a second and an analysis of the second and	1   Longo   123 1   1000   123 1   1000   123 1   1000   123 1   1000   123 1   1000   123 1   1000   123	-4567 fur 525.00	s,258.88 				
2	211	27858 78124	Yes will be calified by each second and Please analysis of an endoard and any RCA XL488 Cale, TV Skey X4888 VCR V85 2-455 PC Caughter Health ************************************	11 Leanur 11 1000   129 10 10 10 10 10 10 10 10 10 10 10 10 10	-4567 fur 525.00 • anailable •4567 fur	5,251.00 8.00 8.00				
2 5	201	27838 78424 88836 27838	Yes util to calific d to yes it sources Phase analysis or an earlier calification RCA X148 Cale, TV Skey X488 VCR VHS 2455 PC Campler Health This product is according to a failed We will be calified by earlier and a failed Phase analysis according to a failed Phase and a failed and a fail	1 brown	-4567 fur 525.00 • anailable •4567 fur	s,258.88 8.00 9.00 9.00 9.00 9.00 9.00 9.00				
2 5	201	27838 78424 88836 27838	Yes will be calified by such a service. Please and an exclusion environmentation. RCA X1488 Calue TV Storey X4888 VCR VMS 2-455 PC Competer Musiles ************************************	1 k	-4567 fer - 525.00 	- 				
2 5	201	27838 78424 88836 27838	Yes util to calified by caliform of provide and an evolution of the provide and the second and t	1 break	-4567 far a 525.00 -4567 far a 525.00	- arr isfaradi 5,251.00 0.00 - - - - - - - - - - - - - - - -				
1 2 3	201	27838 78424 88836 27838	Yes will be adified by such a second Phase second and an endown endower and Phase second and an endower and a second These second and the second and the Share y status VCR Wis 2-155 PC Comparison Headler "I Horizon and a second second and a fallow Yes will be adified by and a second Phase second a second second and Phase second a second second and Yes and the second second second Yes and the second second second Yes and Yes and the second second Yes and Yes and Yes Wis 2-155 PC Comparison Headler "Horizon" This product is second to an a false Yes and the second second second second We will be set offer different second second Yes and the second second second second Yes and the second second second second Yes and the second second second second second second second second second Yes and the second	1 beneration of the second sec	- 4567 6er - 525.00 - Jackir - 4567 6er - 525.00 - 4567 6er -	- arr isfaradi 5,251.00 0.00 - - - - - - - - - - - - - - - -				
1 2 3	201	27838 78424 88836 27838	Yes util to calified by caliform of provide and an evolution of the provide and the second and t	1 k	- 4567 64+ - 525.00 - 4567 64+ - 525.00 - 525.00 - 4567 64+ - - 4567 64+ - - - - - - - - - - - - - - - - - - -	- 				
1	201	27838 78424 88836 27838	Yes will be adified by such as more approximation of the second s	1 krown 1 k	-4567 644 525.00 	s. zs. isformalis 5,251,10 8,00 8,00 8,00 8,00 8,00 8,00 8,00				
1	201	27838 78424 88836 27838	Yes util to calified by caliform of provide and an evolution of the provide and the second and t	1 krown 1 k	-4567 64+ - 525.00 -4567 64+ - 525.00 -525.00 -4567 64+ - - -4567 64+ - - 	- 				-           -
1	201	27838 78424 88836 27838	Yes will be adified by such as more approximation of the second s	1 krown 1 k	-4567 644 - 525.00 -4567 644 - 525.00 -525.00 -525.00 -4567 644 - -4567 644 - 	- 				-           -
2 3 4 2 3 5 5 6 6 8	280 280 280 380	27833 79424	Yes util to calific d to pack a second service. Phase and an excitation of the second second service. RCA X148 Calar TV Sharp X488 VCR Y85 2455 PC Campler Hasile This product is accessfully and a false Yes will be calified by and and second	- 11 koronova - 1 koronova -	-4567 64+ 4 525.88 -4567 64+ 4 525.88 -4567 64+ 4 -4567 64+ 4 -456	- 				-           -
2 3 4 2 3 5 6 8 6 8	200 200 200 300 300 300 300 300 300 300	27832 78424	Yes will be calified by each second and a Phase second and an endoard according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The STATE Color TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The second is correctly and a failed Please second according acting The second is correctly and a failed Please second according acting to TT TA State	a 1 borner a 1 bo	-4567 644 - 525.00 -4567 644 - 525.00 -525.00 -525.00 -4567 644 - -4567 644 - 	- 				-           -
2 3 4 2 3 5 6 8 6 8	200 200 200 200 300 300	27832 78424	Yes will be calified by each second and a Phase second and an endoard according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The STATE Color TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The second is correctly and a failed Please second according according to The second is correctly and a failed Please second according according. TOTALS	a 1 borner a 1 bo	-4567 644 - 525.00 -4567 644 - 525.00 -525.00 -525.00 -4567 644 - -4567 644 - 	- 				
2 3 4 2 3 5 6 8 6 8	200 200 200 300 300 300 300 300 300 300	27832 78424	Yes will be calified by each second and a Phase second and an endoard according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. RCA X1480 Calar TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The STATE Color TV Sharp X1880 VCR V85 2-455 PC Campler Hasile The gradest is correctly and a failed Yes will be calified by each second according. The second is correctly and a failed Please second according according to The second is correctly and a failed Please second according according. TOTALS		-4567 644 - 525.00 -4567 644 - 525.00 -525.00 -525.00 -4567 644 - -4567 644 - 	- 				-           -
2 3 4 2 3 5 6 8	200 200 200 300 300 300 300 300 300 300	27832 78424	Yea will be calified by each second and Phase analysis of a second second second second Phase and second second second second RCA X148 Calar TV Sharp X188 VCR VHS 2455 PC Campler Hasile TH Second Second Second Second Second Phase second second second second second TOTALS The dissues of second second second second Phase second second second second second Phase second second second second second TOTALS		- 4567 644 525.48 - 4567 644 - 525.48 - 4567 644 - 4567 64666 - 4567 6467 646	- 				-           -
2 3 4 2 3 5 6 8	200 200 200 300 300 300 300 300 300 300	27832 78424 27832 27832 78424	Yea will be calified by each second and Phase analysis of a second second second second Phase and second second second second RCA X148 Calar TV Sharp X188 VCR VHS 2455 PC Campler Hasile TH Second Second Second Second Second Phase second second second second second TOTALS The dissues of second second second second Phase second second second second second Phase second second second second second TOTALS		- 4567 644 525.48 - 4567 644 - 525.48 - 4567 644 - 4567 64666 - 4567 6467 646	- 				



Only the last page footer is shown and the default Excel page break ignores the header and the "in

## between" page footer.

Print Preview also skips all the footers

INV	OICE		First	Page			Page 1
2	Comp	any					
Bill To	Ajax Compute 615 East 62nd P O Box 4587 New York City	d Street 18		Renit 3o Company In 123 Main 9 Ivine, CA 921	E.	123 When Ren B	tunter 145 ting Please
Ship To	Ajax Compute 615 East 62nc P O Box 4587 New York City	d Street 78	с.	1119	itore Kun 123	05/	/31/1988
troker Cole 1		r Sale-ona n Na me	Local Sales Rep		Ċ.v	ton w PO Number D S21	
Terms From 1	Cateof as dise 30 Day		Plant 01	UPS			
Stock#	Clins 200	ProductCod 00096	RCA XL100 Color TV	ESCRIPTION	Qty 10	Unit Price 525.00	Ext.Price 5,250.0
2	200	27080	Sharp X1000 VCR VHS		10	525.00	5,250.0
3	300	70124	2-135 PC Computer Mi	onitor	5		0.0
			*** NOTICE ***				
			This product is current	ly out of stack.			
				email as soon as it bec			
				tomer service at (800)	123-4567 R	er more inform	nation.
			Thank you for your unc	derstanding.			
		1	The product point and				
1	200	00096	RCA XL100 Color TV		10	525.00	5,250.0
1 2	200 200	00096 27080			10	\$25.00	
			RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mi	onitar		525.00	0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mr		15	525.00	5,250.0 0.0 0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mr *** NOTICE *** This product is current	ly out of stack.	15		0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mr *** NOTICE *** This product is current You will be notified by	ly out of stock. email as soon as it bec	15 5 omes availa	bie.	0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mr *** NOTICE *** This product is current You will be notified by Please contact our cust	ly out of stock. email as soon as it bec tomer service at (800) :	15 5 omes availa	bie.	0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mr *** NOTICE *** This product is current You will be notified by	ly out of stock. email as soon as it bec tomer service at (800) :	15 5 omes availa	bie.	0.0
2	200	27080	RCA XL100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mr *** NOTICE *** This product is current You will be notified by Please contact our cust	ly out of stock. email as soon as it bec tomer service at (800) :	15 5 omes availa	bie.	0.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA XL100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact cur cus Thank you for your unt RCA XL100 Color TV Sharp X1000 VCR VHS	ly out of stock. email as soon as it bec tomer service at (800) : derstanding.	15 5 0mes availa 123-4567 fc 10 15	ble. or more inform	0.0 0.0 sation. 5,250.0 0.0
2 3	200 300	27080 70124 00096	RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unt RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi	ly out of stock. email as soon as it bec tomer service at (800) : derstanding.	15 5 omes availa 123-4567 fo 10	ble. or more inform	0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your und RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE ***	ly out of stock. email as soon as it bec tomer service at (800) forstanding. onitor	15 5 0mes availa 123-4567 fc 10 15	ble. or more inform	0.0 0.0 sation. 5,250.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color IV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unit RCA X1100 Color IV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current	ly out of stock. comail as soon as it bec tomer service at (800) : derstanding. onitor ly out of stock.	15 5 0mes availa 123-4567 fc 10 15 5	ble. r more inform 525.00	0.0 0.0 sation. 5,250.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unt RCA X1100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by	ly out of stock. email as soon as it bec tomer service at (800) : derstanding. oritor ly out of stock. email as soon as it bec	15 5 0 mes availa 123-4567 fr 10 15 5 0 mes availa	ble. r more inform 525.00 ble.	0.0 0.0 nation. 5,250.0 0.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unt RCA X1100 Color TV Sharp X1000 VCR VHS Z-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by	ly out of stock. remail as soon as it bec tomer service at (800) derst anding. oritor ly out of stock. remail as soon as it bec tomer service at (800)	15 5 0 mes availa 123-4567 fr 10 15 5 0 mes availa	ble. r more inform 525.00 ble.	0.0 0.0 nation. 5,250.0 0.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unit RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus	ly out of stock. remail as soon as it bec tomer service at (800) derst anding. oritor ly out of stock. remail as soon as it bec tomer service at (800)	15 5 0 mes availa 123-4567 fr 10 15 5 0 mes availa	ble. r more inform 525.00 ble.	0.0 0.0 nation. 5,250.0 0.0 0.0
2 3 3	200 300 200 200	27080 70124 00096 27080	RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus Thank you for your unit RCA X1100 Color TV Sharp X1000 VCR VHS 2-135 PC Computer Mi *** NOTICE *** This product is current You will be notified by Please contact our cus	ly out of stock. remail as soon as it bec tomer service at (800) derst anding. oritor ly out of stock. remail as soon as it bec tomer service at (800)	15 5 0 mes availa 123-4567 fr 10 15 5 0 mes availa	ble. r more inform 525.00 ble.	0.0 0.0 nation. 5,250.0 0.0 0.0

INVOICE	Last Page	Page 4 of 4
nter the company to t	_	
Bill To To New York City, NY 10021	123 Main Irvine, CA 9	1.2.
Ship Ship To P O Box 45878 New York City, NY 10021		123 05/31/1988
forcher Code 1 Terms From Date of ten dice 30 Day	Local Sales Rep Stip Rom	Custon with Number D 52.1
	This product is currently out of stack. You will be notified by email as soon as it b Please contract our customer service at (800 Thank you for your understanding.	

Below is the printed output (first page and last page):

## INVOICE

Page 1 of 5

				Remit To		Invoice	Number
	Ajax Comput	er Electronic	·c	Company In	с.	12	345
Bill	615 East 62n P O Box 4587	d Street		123 Mains S Irvine, CA 921		When Rem	itting Please
То	New York Cit	-		Customer Bill To No.			
					Store Nu	mber	nvoice Date
Ship	Ajax Comput		2S	1119	123	:   05	5/31/1988
То	615 East 62n P O Box 4587				L		J
	New York Cit						
				J			
Broker Code 1	Broker and/or	Salesman Name	Local Sales Rep			ustomer PO Numbe D52	1 I
Terms From E	Date of Invoice 30 Day	5	hip From Plant 01	UPS			
Stock #	Class	Product Cod	e PRODUCT DE	SCRIPTION	Qty	Unit Price	Ext.Price
1	200	00096	RCA XL100 Color TV		10	525.00	5,250.00
2	200	27030	Sharp X1000 VCR VHS		15		0.00
3	300	70124	Z-135 PC Computer Mo	nitor	5		0.00
			*** NOTICE ***				
			This product is currently				
			You will be notified by e				
			Please contact our custo		123-4567 f	or more infor	mation.
			Thank you for your und	erstanding.			
1	200	00096	RCA XL100 Color TV		10	525.00	5,250.00
2	200		Sharp X1000 VCR VHS		15	525.00	0.00
3	300	70124	Z-135 PC Computer Mo	nitor	5		0.00
-	500		*** NOTICE ***		Ĵ		5.00
			This product is currently	out of stock.			
			You will be notified by e	mail as soon as it bec	omes avail	able.	
			Please contact our custo	omer service at (800)	123-4567 f	or more infor	mation.
			Thank you for your und	erstanding.			
1	200	00096	RCA XL100 Color TV		10	525.00	5,250.00
2	200	27030	Sharp X1000 VCR VHS		15		0.00
3	300	70124	Z-135 PC Computer Mo *** NOTICE ***	nitor	5		0.00
Cases			TOTALS		Page Qty	Page Total	15,750.0

rease note any deductions other than discount earned on duplicate copy and return with Remittance. Should deductions represent shortages or damages, enclose a copy of signed delivery receipt.

ORIGINAL Due On: 7/20/2019

## INVOICE

Page 5 of 5

	Comp	any						
				ſ	Remit To		Invoic	e Number
		<b>EI</b>			Company li	20		2345
	Ajax Compute		25		123 Mains			
Bill	615 East 62n				Irvine, CA 92	123	When Rer	nitting Please
То	P O Box 4587							
	New York City	y, NY 10021						
					Customer Bill To No.	Store Nu	umber	Invoice Date
Ch.I.v.	Ajax Comput	er Electroni	cs		1119	12	3 0	5/31/1988
Ship	615 East 62n	d Street						
То	P O Box 4587	78						
	New York Cit	<u>y, NY 10021</u>						
roker Code	Broker and/or	Salesman Name	\$			0	Sustomer PO Numb	er
1	broker and, or	001001101110	Local Sale	s Rep			D52	
erms From I	Date of Invoice 30 Day		Ship From Plant 01	Ship V	UPS			
	50 Day		Plant 01		0P3			
Stock #	Class	Product Cod	le PROD	OUCT DESC	RIPTION	Qty	Unit Price	Ext.Price
1	200	00096	RCA XL100 Color			10		5,250.00
			This product is cu	urrently o	ut of stock.			
					ail as soon as it be	comes avai	lable.	
			Please contact o		ner service at (800)			mation.
			Please contact of Thank you for yo	ur custom	ner service at (800)			mation.
				ur custom	ner service at (800)			mation.
				ur custom	ner service at (800)			rmation.
				ur custom	ner service at (800)			mation.
				ur custom	ner service at (800)			mation.
				ur custom	ner service at (800)			mation.
				ur custom	ner service at (800)			rmation.
				ur custom	ner service at (800)			mation.
2200				ur custom	ner service at (800)	123-4567	for more info	
3565 60				ur custom	ner service at (800)	123-4567	for more info	0.0
nses 60				ur custom	ner service at (800)	123-4567	for more info Page Total Running Total	0.0 52,500.0
				ur custom	ner service at (800)	123-4567	For more info Page Total Running Total Discount	0.0 52,500.0 10.0
			Thank you for yo	ur custom	ner service at (800)	123-4567	For more info Page Total Running Total Discount Freight	0.0 52,500.0 10.0 650.2
				ur custom	ner service at (800)	123-4567	For more info Page Total Running Total Discount	0.0 52,500.0 650.2 7.5
			Thank you for yo	ur custom	ner service at (800)	123-4567	For more info Page Total Running Total Discount Freight	0.0 52,500.0
			Thank you for yo	ur custom	ner service at (800)	123-4567	for more info Page Total Running Total Discount Freight Tax Rate %	0.0 52,500.0 650.2 7.5

Please note any deductions other than discount earned on duplicate copy and return with Remittance. Should deductions represent shortages or damages, enclose a copy of signed delivery receipt.

ORIGINAL

Due On: 7/20/2019

Created with the Standard Edition of HelpNDoc: Create help files for the Qt Help Framework

### **Passing Data to the Form**

Data is passed from phiReport to the Excel Template via named shapes and named cells.

There are two methods to pass data to the template.

1. From the phiReport interface

Report Parameters Pre/P	ost Processes Outp	ut Header/Footer Cod	es Preview Raw Data	Configura	tion	Printed Form Paran	neters	S D
Template Settings					Valu	ue Pair Table		
Custom Template	http://3phi.solutions/	phiReport/DemoInvoice	xls 🔛		#	Name	Value	
Main Sheet Name	Base_Header				1	txtCases1	=PAGETOTAL({INVNO})	
Footer 1 Sheet Name	Base_Footer1	Footer 1 Rows 8			2	txtWeight1	=PAGETOTAL(QTY)	0
Footer 2 Sheet Name	Base_Footer2	Footer 2 Rows 15		3	txtRunningTotal1 txtCases2	=RUNNINGTOTAL({ExtPrice} =DOCTOTAL({INVNO})		
Include Table Header	When checked, the	he table header will be a	added to the Custom Temp	late)	5	txtWeight2	=DOCTOTAL({QTY})*txtCase	s2
	Use Multi-Page M			,	6	txtGrandTotal2	=DOCTOTAL({ExtPrice})	
	Ose Multi-Fage Mi	acto template			7	txtPageTotal1	=PAGETOTAL({ExtPrice})	
Macro Module					8	txtPageTotal2	=PAGETOTAL({ExtPrice})	
Macro Source	Excel Macro File	○ VBA.Modules Ite	m		_			
Macro Name			1					
Function to Execute								
Function Parameters		I	^					
					_			

The Value Pair table allows you to enter a matching Name and Value pair of data. The Name is matched with the the Shape/Cell Name on the template. The value can be a string, a formula (starts is '=' equal sign) or a replacement token (starts with '%%@' and ends with '%%').

Formulas are evaluated by Excel while replacement Tokens are evaluated by phiReport. phiReport introduces New Formula to provide page specific calculations.

#### 2. From your BASIC program (see PHIDEMOBP Demo\_Invoice\_PreQuery

To pass data from your BASIC program to the Form template, add a COMMON definition to your program then build the shared variables.

COMMON /USERVAR/ USERDATA, P\_STATUS, RptPrompts

USERDATA: Single attribute array representing the Value Pair table. Each value represents 1 entry with 2 sub-values.

USERDATA<1,1,1> = "NAME1" USERDATA<1,1,2> = "VALUE1"

P\_STATUS: Program Status. Returns program status to phiReport. For error handling, return "ERR" in P\_STATUS<1> and an error message in P\_STATUS<2>. phiReport will display the error message to the end user.

RptPrompt: Table of value pair user prompts. User prompts are Replacement Tokens defined on the report.

Ор	Field	Operator	Criteria	Sort	Hide	Notes/Comments
	ID	Equals To	InvBlob_%%@USERPORT%%_%%@Invoice Number%%		$\checkmark$	Invoice #: 12345, 12121, 1

Pre-Query Process	Execute TCL Command(s) 🗸	Demo_Invoice_PreQuery %%@Invoice Number%% %%@USERPORT%% STOP	
			-
Post-Query Process	<none></none>	-	
		· · · · · · · · · · · · · · · · · · ·	<u>^</u>

Sheet Name Invoice %%@Invoice Number%%

In our example, 2 Replacement Tokens are defined in the criteria section, <u>%%@USERPORT%%</u> and %%@Invoice Number%%.

<u>%%@USERPORT%%</u> is a phiReport internal token and is automatically replaced by the system's user port (@PIB, @USERNO depending on your Database platform)

%%@Invoice Number%% is a custom defined replacement token. phiReport will prompt the user for the "Invoice Number" value and it will be added to the RptPrompts COMMON variable.

If a custom replacement token is used multiple times in the report, the user will only be prompted once.

RptPrompts is a single attribute array representing the Value Pair table. Each value represents 1 entry with 2 sub-values.

RptPrompts<1,1,1> = "Token1" RptPrompts<1,1,2> = "Value2"

Created with the Standard Edition of HelpNDoc: Easily create PDF Help documents

### **PHIDEMOBP Demo\_Invoice\_PreQuery**

Program PHIDEMOBP Demo\_Invoice\_PreQuery is called by demo report "Invoice Form". The program reads command line parameters and builds the data blob stored in file "TMP". Non blob data is returned to the report via the USERDATA common variable.

The named COMMON defined at the beginning of the program is required to pass data between the program and phiReport.

Line 8 reads the command line parameter generated by the Pre-Query Process call.



```
0001
                      PROGRAM Demo_Invoice_PreQuery
0002
0003
0004
                      COMMON /USERVAR/ USERDATA, P_STATUS, RptPrompts
0005
                      CRT "== Demo_Invoice_PreQuery =="
0006
0007
                      TCL = SENTENCE()
0008
0009
0010
                      TCL = TRIM(TCL)
0011
0012
                      InvNo = FIELD(TCL, " ",2);
UID = FIELD(TCL, " ",3)
SEP = "<lf>"
                                                                      IF InvNo = "" THEN InvNo = "1"
                      UID
0013
                      SEP
0014
0015
                      OPEN "INV.SAMPLE" TO f.INV ELSE

CRT "Unable to open INV.SAMPLE file"

P_STATUS = "ERR"

P_STATUS<2> = "Unable to open INV.SAMPLE file"

STOP
0016
0017
0018
0019
0020
0021
                      ΕN
                     ENU
OPEN "CUST.SAMPLE" TO f.CUST ELSE
CRT "Unable to open CUST.SAMPLE file"
P_STATUS = "ERR"
P_STATUS<2> = "Unable to open CUST.SAMPLE file"
0022
0023
0024
0025
                           STOP
0026
0027
                      EN
                      END

OPEN "PROD.SAMPLE" TO f.PROD ELSE

CRT "Unable to open PROD.SAMPLE file"

P_STATUS = "ERR"

P_STATUS<2> = "Unable to open PROD.SAMPLE file"

STOP
0028
0029
0030
0031
0032
0033
                      EN
                      END

OPEN "TMP" TO f.TMP ELSE

CRT "Unable to open TMP file"

P_STATUS = "ERR"

P_STATUS<2> = "Unable to open TMP file"

STOP
0034
0035
0036
0037
0038
0039
                      END
0040
                      DELETE f.TMP,"InvBlob_":UID:"_":InvNo
0041
0042
                     READ Inv FROM f.INV, InvNo ELSE
CRT "Inv #":InvNo:" does not exist."
P_STATUS = "ERR"
P_STATUS<2> = "Inv #":InvNo:" does not exist."
STOP
0043
0044
0045
0046
0047
                      FND
0048
0049
```

Error messages are returned via the P\_STATUS common variable. If P\_STATUS<1> = "ERR" phiReport will display the error message in P-STATUS<2> and stops processing the report.

After reading the Invoice item, the program extracts the header information and builds the table of value pairs in variable USERDATA. The first sub-value of each value must match a named shape or named cell on the Excel template. If the same name is used more than once, only the last occurrence will be used. If a name does not match any named shape/cell it will be ignored.

0049			
0050	CustID = Inv<2>		
0051	READ Cust FROM f.CUST,CustID ELSE Cust =		
0052			
0053	ToName = Cust<2>		
0054	ToAddr = Cust<3>:" <lf>":Cust&lt;4&gt;</lf>		
0055	ToCity = Cust<5>		
0056	ToZip = Cust<7>		
0057	ToState = Cust<6>		
0058	ToCountry = Cust<13>		
0059			
0060			
0061	BillTo = ToName:SEP:ToAddr:SEP:ToCity:	. **	ToState:" ":ToZip:" ":ToCountry
0062	ShipTo = BillTo		
0063			
0064	* Pass Value Pair Data to phiReport		
0065	USERDATA = ""		
0066			
0067	* Base Header Data		
0068	USERDATA<1,1,1> = "txtBillToAddress"		USERDATA<1,1,2> = BillTo
0069	USERDATA<1,2,1> = "txtShipToAddress"		USERDATA<1,2,2> = ShipTo
0070	USERDATA<1,3,1> = "txtInvoiceNumber"	1	USERDATA<1,2,2 = InvNo
0071	USERDATA<1,4,1> = "txtBillToNo"		USERDATA<1,4,2> = CustID
0072	USERDATA<1,5,1> = "txtStoreNumber"		USERDATA<1, $5, 2> = "123"$
0072	USERDATA<1,6,1> = "txtInvoiceDate"		USERDATA<1,6,2> = 0CONV(Inv<1>, "D4/")
0074	USERDATA<1,7,1> = "txtBrokerCode"		USERDATA<1,7,2> = "1"
0075	USERDATA<1,8,1> = "txtBrokerName"		USERDATA<1,8,2> = "Local Sales Rep"
0076	USERDATA<1,9,1> = "txtOrderNumber"		USERDATA<1,9,2> = LOCAT SALES Rep USERDATA<1,9,2> = Inv<3>
0070	USERDATA<1,10,1> = "txtTerms"		USERDATA<1,10,2> = "30 Day"
0078	USERDATA<1,11,1> = "txtShipFrom"		USERDATA<1,10,2> = "Plant 01"
0079	USERDATA<1,12,1> = "txtShipVia"		USERDATA<1,11,2> = "UPS"
0079	USERDATA<1,12,12 = "LXLSHIPVIA"		USERDATA\$1,12,22 - UPS
	* Deee Franker Deta		
0081 0082	* Base_Footes_Data		USERDATA<1,13,2> = 0CONV(DATE()+30, "D4/")
0082	USERDATA<1,13,1> = "txtDue0n1"		USERDATA<1,13,2> = OCONV(DATE()+30, "D4/") USERDATA<1.14.2> = OCONV(DATE()+30, "D4/")
	USERDATA<1,14,1> = "txtDue0n2"		
0084	USERDATA<1,15,1> = "txtFreight2"		USERDATA<1,15,2> = OCONV(Inv<7>, "MR2")
0085	USERDATA<1,16,1> = "txtDiscount2"		USERDATA<1,16,2> = 10
0086	USERDATA<1,17,1> = "txtTaxRate2"	;	USERDATA<1,17,2> = 7.5
0087	USERDATA<1,18,1> = "txtCredit2"	;	USERDATA<1,18,2> = 130.00
0088			

Line items in the report body are build as part of the data blob. The structure of the blob should match the number of columns defined in the Excel template where each column corresponds to a value.

0088	
0089	* Line items
0090	Body = ""
0091	nLines = DCOUNT(Inv<4>,@VM)
0092	nRows = 0
0093	
	E FOR x=1 TO nLines
0095	ProdID = Inv<4.x>
0096	
0097	READ PROD FROM f.PROD, ProdID ELSE PROD = ""
0098	
0099	Qty = Iny<5, x>
0100	UPrice = PR00-4, x>
0101	EPrice = Qty * UPrice
0102	Liftice - Qty + Orlice
0102	nRows = nRows + 1
0103	Body-Rows, 1> = x
0105	Body-Informs, 2> = PROD<3>
0105	Body <nrows, 3=""> = ProdID ;* Product Code</nrows,>
0100	Body-moves, 4> = PRODe1> ;* Product Descriptions
0108	Body-moves, 5> = Oty
0109	Body-moves, 6> = OCONV(UPrice, "MR2,")
0110	Body-rindows, 7> = 000NV (brice, "MR2,")
0111	
	L IF x=3 THEN
0113	* For demo purposes, Add some text in the middle of the line item list.
0113	nRows = nRows + 1
0115	Body <rrows,4> = "*** NOTICE ***"</rrows,4>
0116	nRows = nRows + 1
0117	BodysnRows,4> = "This product is currently out of stock."
0118	nBows = nBows + 1
0119	BodysnRows,4> = "You will be notified by email as soon as it becomes available."
0120	nRows = nRows + 1
0121	Body <nrows,4> = "Please contact our customer service at (800) 123-4567 for more information."</nrows,4>
0122	nRows = nRows + 1
0123	Body <nrows,4> = "Thank you for your understanding."</nrows,4>
0124	nRows = nRows + 1
0125	END
0126	
0127	L NEXT X
0128	
0129	WRITE Body ON f.TMP,"InvBlob ":UID:" ":InvNo
0130	
0131	END

A non-data blob output is generated by a query statement and is restricted to columnar type outputs. The data blob gives us more control over what to output and where and even though our template defines 7 columns, our data blob does not have to provide 7 columns of data. With the data blob we can also dynamically output a variable number of columns from one row to the next.

In our example program, lines 112-125 skips columns 1, 2 and 3 and puts data in column 4. Columns 5, 6 and 7 are left empty to allow the data in column 4 to "bleed" out of its cell.

20	Stock	#	Class	Product Code	PRODUCT DESCRIPTION	Qty Unit Pric		Ext.Price
21	1		200	00096	RCA XL100 Color TV	10 525.00		5,250.00
22	2		200	27030	Sharp X1000 VCR VHS	15		0.00
23	3		300	70124	Z-135 PC Computer Monitor	5		0.00
24					*** NOTICE ***			
25					This product is currently out of stock.			
26					You will be notified by email as soon as it	becomes	available.	
27					Please contact our customer service at (80	00) 123-45	67 for more	information.
28					hank you for your understanding.			
					_			

Once the body data is created it is saved in file TMP. The Item Id used is important because it will be used by the query engine to "SELECT" against. In report definition, we need to create query a statement to retrieve all the blobs required for the report.

Ор	Field	Operator	Criteria	Sort	Hide
	ID	Equals To	InvBlob_%%@USERPORT%%_%%@Invoice Number%%		$\checkmark$

It is possible to create a multi-page blob by creating multiple blob items. In this case, we need to make sure that the select statement used to retrieve the blobs can return them in the correct order.

Note: If a report requires a lot of data, it is recommended to create multiple smaller data blobs vs one large data blob. Data blobs are downloaded in one chunk of data which can create performance issues. By default, phiReport downloads non-blob data in packets of about 100k. Blob data greater than 100k should be split into smaller blobs. phiReport does not split data blobs.

Created with the Standard Edition of HelpNDoc: Full-featured multi-format Help generator

### **Report Form Query**

Data blobs are used to return data to a report in a "blob" of raw data. Data blobs do not define data types or output formats. In order to properly output the blob data in the desired format on the Excel sheet, we need to define the column properties in the Data View Manager.

.

і II.

Our template defines 7 columns of data:

19							
20	Stock #	Class	Product Code	PRODUCT DESCRIPTION	Qty	Unit Price	Ext.Price
21							
22							
23							

The data contains a mix of string and numbers with different formats and justification. Since the data blob does not define column properties, we need to define them in the Data View Manager for the blob file TMP. Data View TMP.VIEW defines the 7 columns data types and format. The column width is ignored because it's defined nby the template.

🕫 phiReport Data View Manager			– 🗆 X
File Edit Tools Help			
C 🔒 🖌 🗙 🕅 🕻	3 🚽		
Data View Account XLReport Dev	<ul> <li>(Account name where to store the Views)</li> </ul>	Column Editor	Merged Header
Data Account XLReport.Dev		Field ID SALESUNITPRICE	Enable Merged Header Columns
Data File TMP	C C Show all file types from Data Account.	Field Name SALESUNITPRICE	Font
Data View TMP.VIEW	🔄 💽 💿 List View 🔿 Grid View 🔿 Tree Vie		Color Text Cell Data Cell
Data File's Dict Items	Data View's Columns	SALESUNITPRICE	Style Bold Superscript
Field ID Field Name	Att Field ID Field Name Att	Conversion	Italic Subscript Underline Strikethrough
	CLASS CLASS 0 ExtPrice ExtPrice 0 ID ID 0	Correlative Data Type Numeric Column Width 10	Border Top Bottom
	INVNO INVNO 0 PRODUCT PRODUCT 0	Field Type      Single Value Multi-Value	Justification <ul> <li>Left</li> <li>Right</li> <li>Center</li> </ul>
	PRODUCTDESC PRODUCTDESC 0	MV Group	Header
	QTY QTY 0 SALESUNITPRICSALESUNITPRICE 0	✓ Use as Display Field Use as Criteria Field	Font     V       Color     Text       Cell     Header Cell
		☐ Hidden Column ☐ Wrap Column	Style
		Display Decimal Places 2	Border Top Bottom
			Justification O Left O Right   Center
		Sheet Control	Data
		×	Color Text Cell Data Cell
		Add Comments	Color Text Cell Data Cell Style Bold Superscript
		Clear Data	ltalic Subscript
		Repeat Detail	Border Top Bottom
		Repeat Formula	U Left ☐ Right Justification ◯ Left
		Set as End of Freeze Pane	
<	> <b>4</b>	> Page Break-On	
phiReport 3.1.0 Pro (D3)			20 Jun 2019 - pt xireport.dev (PTI7) - Port 2

In the Report Builder we select the 7 columns and order them as defined by the template

🚛 phiReport B																		-		×
File Edit Ru																				
📝 😋	- 1	×Ie	) 🖂 💹 [																_	
Op Fiel ID		C	Dperator Equals To		Criteria	Data Sectio	<u>۱</u>		MT IN		Sort	TN Hide	ata File Alia MP Notes/Com Invoice #: 1		T TDESC	Sort	Disp 10 20 30 40 50 60 70			ey
<													>							
Report Param	neters Pre/Po	st Process	ses Output Head	ler/Footer Co	des Previe	Raw Data	Configu	ration Pr	rinted Form	Parame	eters		🖸 🗆 😋							
INVNO 1 2 3	CLASS 200 200 300	PRODUC 00096 27030 70124	PRODUCTDE RCA X1100 ( Sharp X1000) Z-135 PC Co *** NOTICE * This product You will be n Please conte Thank you fo	QTY S 10 15 5	UNITPRICE 525.00	ExtPrice 5,250.00 0.00 0.00														
														Use Pick [	ET-SUPP st	yle summ	ary			
phiReport 3.1.0 Pr	ro (D3)	S	ample Size 200	~				8 sample	e records fo	und.						20 Jun 20	(19 - pt)	ireport.d	ev (PTI	7) - Port 2

When the data in the blob is applied to the template, it will be formated using the definitions in the Data View.

Created with the Standard Edition of HelpNDoc: Full-featured Kindle eBooks generator

### **Run the Report Form**

Form Reports are run like any other reports. You can run them from the Builder (PRRUN), the Query (PRQUERY), TCL (RPTRUNREPORT) or from the API call XL.BuildReport.

When using the API, you can create multiple Forms (1 per sheet) in a single workbook. See PHIDEMOBP

### XL.DEMO program.

0146 0147 0148 0149 0150 0151 0152	Report2: RptCount = RptCount + 1 ReportName <rptcount> RptPrompts<rptcount,1> RptPrompts<rptcount,2> RETURN Report3:</rptcount,2></rptcount,1></rptcount>	= "Invoice Form" = "Invoice Number" = "12345"	;* Report Name ;* User Prompt defined as %@Invoice Number%% in Report ;* Answer to above user prompt
0153 0154 0155 0156 0157	RptCount = RptCount + 1 ReportName <rptcount> RptPrompts<rptcount,1> RptPrompts<rptcount,2> RETURN</rptcount,2></rptcount,1></rptcount>	= "Invoice Form" = "Invoice Number" = "12121"	;* Report Name ;* User Prompt defined as %%@Invoice Number%% in Report ;* Answer to above user prompt

Created with the Standard Edition of HelpNDoc: Full-featured EBook editor

### **Report Form Options**

#### **Report Form Options Summary**

Report Parameters	Pre/Po	ost Processes	Output	Header/Footer	Codes	Preview	Raw Data	Configurat	tion	Printed Form Param	neters	۲ 🗹	C
Template Settings									Valu	ie Pair Table			
Custom Ter	nplate	http://3phi.solu	tions/p	hiReport/Demolnv	/oice.xl	s	6	> 📘	#	Name	Value		
Main Sheet	Name	Base_Header							1	txtCases1		GETOTAL({IN	
Footer 1 Sheet	Name	Base_Footer1		Footer 1 Rows	8				2	txtWeight1		SETOTAL(Q	-
Footer 2 Sheet	Name	Base Footer2		Footer 2 Rows	15	🗹 Pad t	o Bottom		3	txtRunningTotal1 txtCases2		ININGTOTAI CTOTAL({IN\	
Include Table H	leader		ced the	e table header wil	l he adu	ded to the	Custom Tem	nlate)	5	txtWeight2		CTOTAL({QT	
		✓ Use Multi-Pa			i be au		oustonn renn	placey	6	txtGrandTotal2	=DOO	CTOTAL({Ex	tPrice}
			iye ma	cro rempiate					7	txtPageTotal1		GETOTAL({E	
Macro Module									8	txtPageTotal2	=PAG	SETOTAL({E	xtPrice
Macro S	ource	Excel Macro	File	○ VBA.Module	es Item								_
Macro I	Name						2	> 🔜					
Function to Ex	ecute												
Function Param	neters						^						
								,					
	l												

### **Template Settings**

Custom Template: The full path and name of the report template.

Main Sheet Name, Footer 1/2 Sheet Name: The name of the sheets containing the header, footer 1 and footer 2 templates

Pad To Bottom: The "Pad to Bottom" option adds empty spaces between the last row of data and the last page's footer to allow the template to occupy the entire page, When unchecked, the last page's footer is placed immediately after the last row of data.

Template Settings					
Custom Template	http://3phi.solutions/p	phiReport/DemoInv	oice.xls	S	📂 📘
Main Sheet Name	Base_Header				
Footer 1 Sheet Name	Base_Footer1	Footer 1 Rows	8		-
Footer 2 Sheet Name	Base_Footer2	Footer 2 Rows	15	✓ Pad to Bottom	
Include Table Header	(When checked, th	ne table header wil	l be ado	ded to the Custom Ter	mplate)
Multi-Page Template	☑ Use Multi-Page Ma	acro Template			

# INVOICE

Page 5 of 5

Invois	
	e Number
17	2345
When Rer	mitting Please
mbor	Invoice Date
3    0	5/31/1988
[	
	- 1
Line Darland	Ext Duly
	Ext.Price 5,250.00
525.00	3,230.00
lahla	
	rmation
	ination.
Page Total	0.00
Running Total	52,500.00
Discount	10.00
Freight	650.20
Tax Rate %	7.50
Tax Amount	3,985.52
	0,000.02
Credit	130.00
c c	umber 3 Customer PO Numb D52 Unit Price 525.00 iable. for more info for more info Page Total Running Total Discount Freight Tax Rate %

Please note any deductions other than discount earned on duplicate copy and return with Remittance. Should deductions represent shortages or damages, enclose a copy of signed delivery receipt.

ORIGINAL Due On: 7/20/2019

. .

## INVOICE

Page 5 of 5

	Comp	any						
					Remit To		Invoid	e Number
	Ajax Comput	er Electronics			Company Ind	с.	1	2345
	615 East 62n				123 Mains S		Milere De	withing Disease
Bill	P O Box 4587	8			Irvine, CA 921	.23	when Re	mitting Please
То	New York Cit	y, NY 10021						
					Customer Bill To No.	Store Nu	mber	Invoice Date
	Aiax Comput	er Electronics			1119			- /04 /4000
Ship	615 East 62n					123	·   ·	5/31/1988
То	P O Box 4587							
	New York Cit	y, NY 10021						
Broker Code	Broker and/or	Salesman Name				0	ustomer PO Numl	her
1	broker and/or	Salesman Name	Local Sales Rep	)			D52	
Terms From D	ate of Invoice 30 Day	Shi	<sup>p From</sup> Plant 01	Ship ∖	UPS			
Stock #	Class	Product Code	PRODUCT	DESC	CRIPTION	Qty	Unit Price	Ext.Price
1	200	00096	RCA XL100 Color TV			10	525.00	5,250.00
			This product is currer	ntly d	out of stock.			
			You will be notified b	y en	nail as soon as it bec	omes avail	able.	
			Please contact our cu			123-4567 f	or more info	rmation.
			Thank you for your u	nder	standing.			
Cases						Total Qty	Page Total	0.00
60						300	Running Total	52,500.00
							Discount	10.00
							Freight	650.20
			TOTALS				Tax Rate %	7.50
							Tax Amount	3,985.52
							Credit	130.00
							Total Invoice	56,995.72
			ount earned on duplicat				Total mvolce	50,995.72

Please note any deductions other than discount earned on duplicate copy and return with Remittance. Should deductions represent shortages or damages, enclose a copy of signed delivery receipt.

ORIGINAL

Due On: 7/20/2019

Include Template Header: When checked, the column headers defined in the Data View will be rendered on the template. If the template includes the column headers this should be unchecked. Multi-Page Template: When checked, the multi-page template with the Smart Paging functions will be included in the final report allowing the Excel Print command to generate correct multi-page forms

#### Macro Module

Complex reports can include custom VBA macro modules to further customize the report output.

Created with the Standard Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

# Appendix

Created with the Standard Edition of HelpNDoc: Full-featured Help generator

# **Custom Criteria**

Custom criteria are used to dynamically provide criteria values to pre-defined queries.

For example, if you need to run daily or monthly reports you may want the report to "know" what today is or what this month is. In those cases, you can create your own criteria answers to the prompt.

Ор	Field	Operator	Criteria	Sort	Hide	Notes/Comments	
	Date Placed	Equals To	{Today}				

Custom criteria are defined by enclosing the Criteria response with curly braces '{ }'. The string between the braces is the name of the custom criteria which are defined in **CustomCrit** file.

The CustomCrit file is created in your work account during the account activation procedure. This file can be customized as required and takes 3 attributes:

001 Criteria Name. This is the string displayed between the braces {..}. 002 CritFunction 003 Option

Attribute 1	Attribute 2	Attribute 3	Description					
User Port	@PIB		returns the user's logged					
Application user	@WHO		returns the name of the s					
System user	@USER		returns the name of the a					
Logged on account	@ACCOUNT		returns teh name of the a					
Today's date	DATE()	Valid date conversion (D4/, D2)	returns today's date.					
Current time	TIME()	Vate time conversion (MTS, MTH)	returns current time.					
Call Subroutine	SUB	Name_of_sub	Call a custom subroutine					
	*							

CritFunction values:

Custom criteria subroutines require a single parameter used to returned the criteria value.

0001	SUBROUTINE Crit.LastWeek(Crit)
0002	*
0003	* Create your custom criteria
0004	*
0005	Crit = OCONV(DATE()-7, "D4/")
0006	
0007	
8000	RETURN

Created with the Standard Edition of HelpNDoc: Write eBooks for the Kindle

# phiReport Editions

There are 3 phiReport editions:

Lite: Does not require an activation. Allows you to create reports for preview only. Pro: Full featured on premise installs. Cloud: Full featured with MyPickCloud subscription.

	_	ontingio	wailabla	
	φ	option is a		
		option is r	le	
Edition	Lite		Pro	Cloud
Configuration Program				φ
Email Reports	X			φ
SMTP	X			φ
Local Outlook	X			φ
User Access Control	X			φ
Secure PRCONFIG	X			φ
Secure PRSETUP	X			φ
Secure PRRUN	X			φ
Secure PRQUERY	X			φ
Secure Data Views	X			φ
Secure Reports	X			φ
Secure Category	X			φ
REST Data Services	X			φ
JSON Services	X		Add-On	Add-On
Odata Services	X		Add-On	Add-On
Data View Manager	X			φ
Support Q-File <sup>1</sup>	X			φ
DICTionnary Editor	X			φ
Sheet Control	X			φ
Merged Header	X			φ
phiReport Builder				φ
Report from Data Views	X			φ
Report from Data Files			X	X
Multi-Data Files				φ
Report Category				φ
Report Definition				φ
Report Preview				φ
Report Pre-Process	X			φ
Report Post-Process	X			φ
Create Excel Workbook	X			φ
Send to Windows Printer	X			φ
Save As PDF, HTML	X			φ
Email Reports	X			φ
RAW TCL Commands				φ
Data Blob Data Source				φ
Pre-Printed Forms	X			φ
JSON Service Preview	X		Add-On	Add-On
OData Service Preview	X		Add-On	Add-On
phiReport Query	X			φ
Report Preview	X			φ
Multi-Data Files	X			φ
Create Excel Workbook	X		φ	φ

### 1. Q-File is not supported on UniData

Created with the Standard Edition of HelpNDoc: Easily create HTML Help documents

# Row Header Text Markup

The Row Header Text is a multi-line header that spawns across the entire width of the report. It can optionally be repeated on every page of the report. The text can be customized to enhance the presentation of your report.

# List of <u>Active</u> Customers as of 05/17/2019

Tags are used the the same way as HTML tags, i.e.: an open <TAG> must be closed with an end </TAG>.

The following markup tags are available to customize your header text:

<b></b>	Bold
< >	Italic
<u></u>	Underline
<du></du>	Double-underline
<ua></ua>	Underline-accounting
<dua><td>&gt; Double-underline-accounting</td></dua>	> Double-underline-accounting
<st></st>	Strike-through
<sb></sb>	Subscript
<sp></sp>	Superscript

### Fonts

<FS:</FS>Font Size => <FS:18>xxx</FS>Enter any valid font size<FT:></FT>Font Type => <FT:Arial>xxx</FT>Enter the name of anyvalid fonts.<FC:></FC>Font Color => <FC:ColorCode>xxxx</FC>Enter a color code. Threetypes of color codes are supported.Enter a color code. Three

Color Codes:

- Basic color names. Valid names are: BLACK, RED, GREEN, YELLOW, BLUE, MAGENTA, CYAN, WHITE <FC:RED>...</FC>
- HTML Hex Color codes. These start is '#' followed by 8 hex digits. Ex: #2C1510. Visit <u>https://htmlcolorcodes.com/</u> for a full color palette <FC:#2C1510>...</FC>
- RGB (Red, Green, Blue) values. Each value can be with the 0..255 range. Visit <u>https://rgbcolorcode.com/</u> for samples </FC:(44,16,21)>...</FC>

Created with the Standard Edition of HelpNDoc: What is a Help Authoring tool?

# System Replacement Tokens

System Replacement Tokens are pre-defined tokens that can be used in your reports.

Token	Description	Database Equivalent
USERPORT	User's current port	@PIB, @USERNO, @USERSTATS<1>
USERWHO	User's name	@USER, @AUTHORIZATION, @USERSTATS<6>
USERACCOUNT	Currently logged on Account name	@ACCOUNT, @WHO , @USERSTATS<5>
DATE	Date MM/DD/YYYY	D4/
TIME	Time hh:mm:ss	МТН
IDATE	Internal date	
ITIME	Internal time	
ACCOUNT	Currently logged on Account name	D3, QM, UV: @ACCOUNT
USERNO	User's current port	QM, UB, jBASE: @USERNO
WHO	User's name	@WHO
SYSTEM(xx)	SYSTEM() function where xx = the function number	
@WHIO		@WHIO
@ACCOUNT		@ACCOUNT
@LOGNAME		@LOGNAME
@TIME		@TIME
@DATE		@DATE
@DAY		@DAY
@MONTH		@MONTH
@YEAR		@YEAR
{custom crit}		Custom Criteria defined in CustomCrit

Created with the Standard Edition of HelpNDoc: News and information about help authoring tools and software