



MARS Reporting & Querying User Guide

https://mars.rdc.noaa.gov



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MARS Reporting & Querying User Guide

Part I: Navigation/ Working with Corporate Documents
For the MARS R&Q Business and Power User
Pages 3 - 56

Part II: Working with Adhoc Documents
For the MARS R&Q Power User
Pages 57 - 157

Part I: Navigation/ Working with Corporate Documents

For the MARS R&Q Business and Power User

Table of Contents

	Terminology	4
•	Logging In / Out	6
•	Setting Preferences	10
•	InfoView Navigation	18
•	Working with Documents	28
•	Getting Help	53
•	MARS Support	56

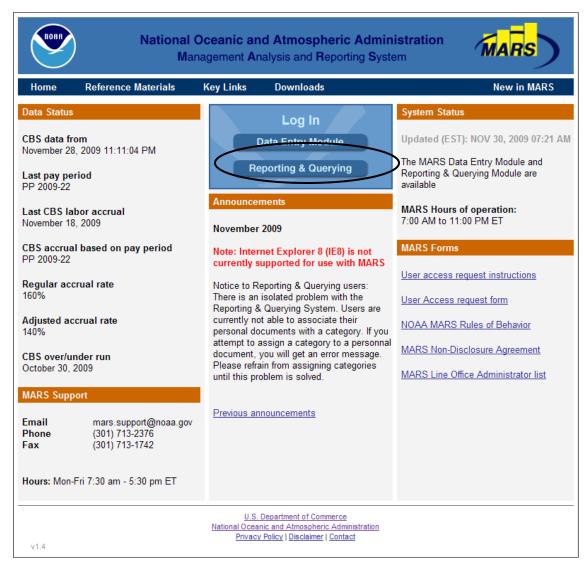
Part I - Terminology

Terminology

- Business Objects XI 3.1™ This is the release of Business Objects being used by NOAA for MARS Reporting & Querying Module as of January 2010.
- InfoView This is the web desktop component of Business Objects XI 3.1 that provides access to Web Intelligence and Desktop Intelligence documents. It also allows access to other documents such as MS Excel, MS PowerPoint and PDF. InfoView also allows the creation of HTML links for easy navigation to other web applications. InfoView allows you to organize these documents to suit your personal preferences.
- Web Intelligence (Webl) This is the Business Objects XI 3.1 web application for building both corporate and personal documents.
- Desktop Intelligence (Deskl) This is the Business Objects XI 3.1 PC client based application for building documents. Deskl will only be used by the MARS team for building more complex documents. Deskl documents can be viewed in InfoView even if you don't have the Deskl client. Users will use Webl to build their own documents.
- Data Warehouse A data warehouse is a central database for consolidating data from different systems throughout the organization. The data warehouse is specifically architected for easy querying and reporting. The MARS Data Warehouse (MARS DW) resides on an Oracle platform at the NOAA ITC in Largo, MD.
- **Document** A document contains one or more reports & queries. If there is more than one query, the queries must be related and linked together by common elements. The results of the query or queries is then presented in one or more report tabs. A document that is published by the MARS team for public use is called a Corporate or Public document. Documents that are created by an Adhoc user are called Personal Documents.
- Object In Business Objects, the objects are the building blocks for the report. Objects are organized in folders within a Universe (see below). An object can be a data column such as 'Project Code', or it can be a query filter such as 'Include Labor Only".
- Report Tab A document can have more than one report tabs. Report Tabs are used to show the results of the query in different ways, such as a summary and detail tab.
- Report Section Within a report tab, the report can be set up to navigate by section. For example, sections can be generated by FMC and program.
- Refresh Refresh refers to the action of running the query or queries for the document in order to get the latest data from the database to be presented in the report tabs.
- **Drill** If drilling is enabled in a document, the user has the ability to click on the higher levels to drill down to lower levels within a hierarchy, such as the Fund, Program and Project hierarchy.
- **Toggle** Toggle refers to the action of turning on and off panels within InfoView. Actively toggling unnecessary panels off will give the user the maximum workspace for view documents.
- Universe The universe is a collection of objects relating to a particular table or set of tables in the data warehouse.

Part I - Logging In

Logging In – MARS Home Page

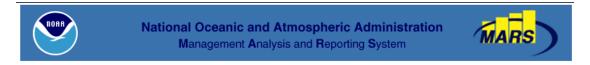


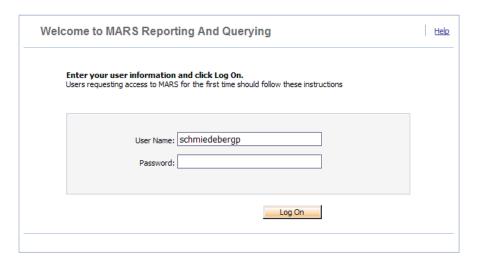
Go to this web address for the MARS Home Page:

https://mars.rdc.noaa.gov

- This page features:
 - □ Log In for
 - MARS Data Entry Module
 - MARS Reporting & Querying
 - □ Data Status
 - □ Support Information
 - Announcements
 - □ System Status
 - □ Forms
 - □ Reference Materials
 - □ Key Links
 - □ Downloads
 - □ New in MARS
- To log in to MARS Reporting & Querying, click the Reporting & Querying button

Logging In - User Name & Password Screen





User passwords should adhere to the Department of Commerce Password Policy

*** You are accessing a United States Government computer system. The use of this system will be monitored for security, system administration, and law enforcement purposes. Accessing this system constitutes consent to monitoring. Any unauthorized access of this system or unauthorized use of the information on this system by unauthorized users or others is prohibited and is subject to criminal and civil penalties under federal and other laws.***

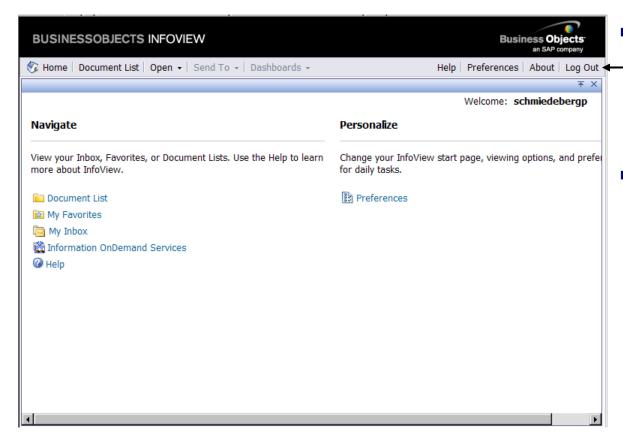
U.S. Department of Commerce

National Oceanic and Atmospheric Administration

Privacy Policy | Disclaimer | Contact

- Enter your *User name* & *Password* then click *Log On*.
- User names & passwords are case sensitive.
- If a password is entered incorrectly 3 times, the user account will be disabled.
- Valid passwords in Business Objects are required to:
 - □ Be at least 8 characters
 - □ Contain 2 of the following
 - Upper case letters
 - Lower case letters
 - Numbers
 - Punctuation (! @ # \$ %, & etc.)
 - ☐ Be different from your last 10 passwords
 - □ NOT contain any of your account name as part of your password
- If your account becomes disabled, contact MARS Support. Contact information can be found on page 56 and on the MARS Home Page.

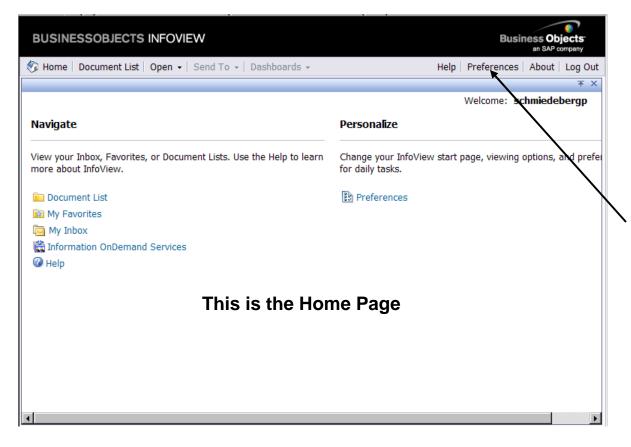
Logging Out



- When you are finished using Business objects, always log out by selecting the Log Out option from the menu bar.
- You will be brought back to the login screen after you have successfully logged out.

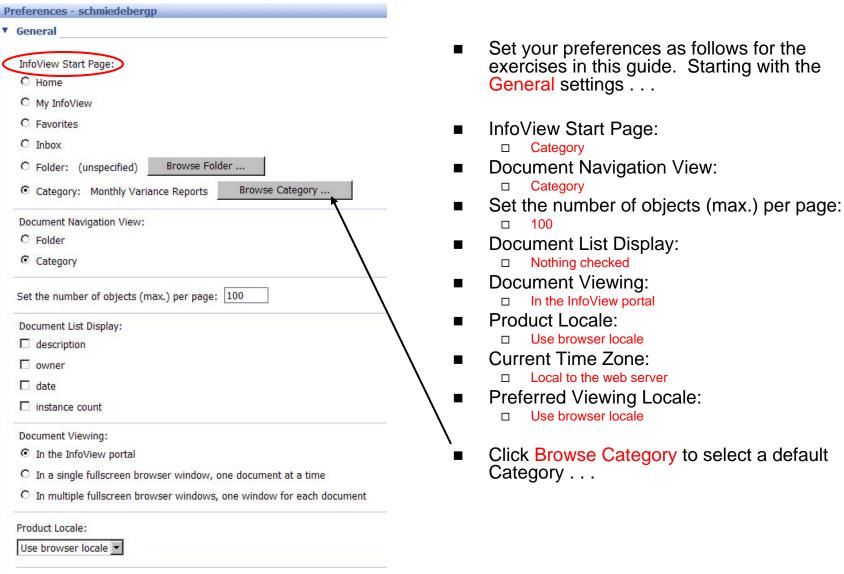
Part I - Setting Preferences

Setting Preferences

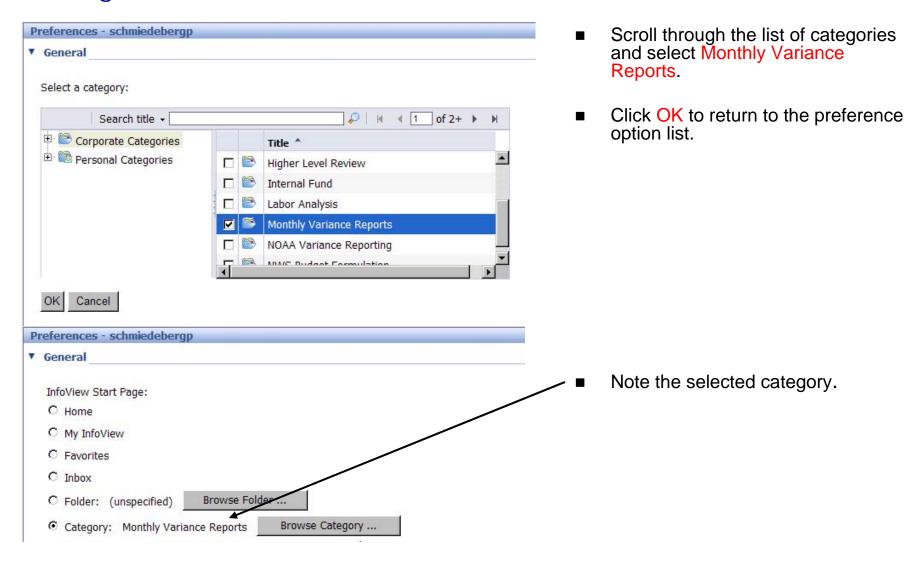


- The first time you login, the Home Page will be displayed.
- Preference settings allow users to your preferred InfoView Start Page as well as other settings to control the default functionality.
- To set preferences, select the *Preferences* option from the menu bar.
- IMPORTANT NOTE:
 The following pages show how preferences should be set to match the exercises in this guide.
- After completing the MARS Reporting & Querying User Guide, feel free to set them based on your own individual preferences.

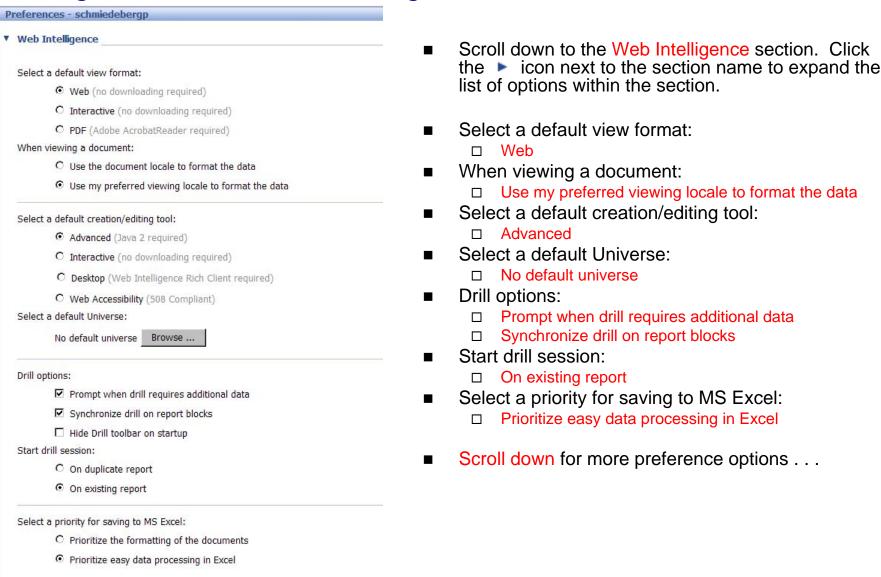
Setting Preferences: General Section



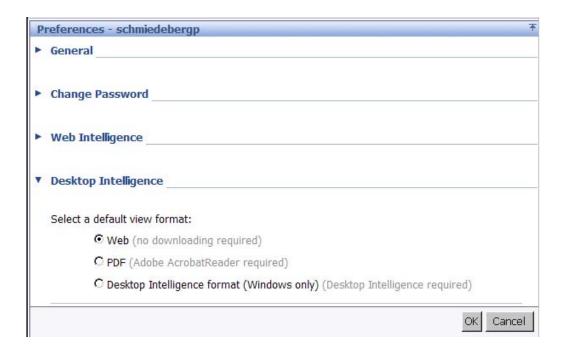
Setting Preferences: General Section



Setting Preferences: Web Intelligence Section



Setting Preferences: Desktop Intelligence Section



- Scroll down to the Desktop
 Intelligence section. Click the ▶
 icon next to the section name to
 expand the list of options within the
 section.
- Select a default view format:
 - □ Web
- Click OK at the bottom right side of the screen to save your preferences.

Setting Preferences: Change Password Section



- Scroll to the Password section.

 Click the ▶ icon next to the section name to expand the list of options within the section.
- As a new user, you will be asked to change your password the first time you log in.
- Subsequently, you will be asked to change your password every 60 days.
- You may change your password at any time using this screen. (There is no need to change it at this time.)

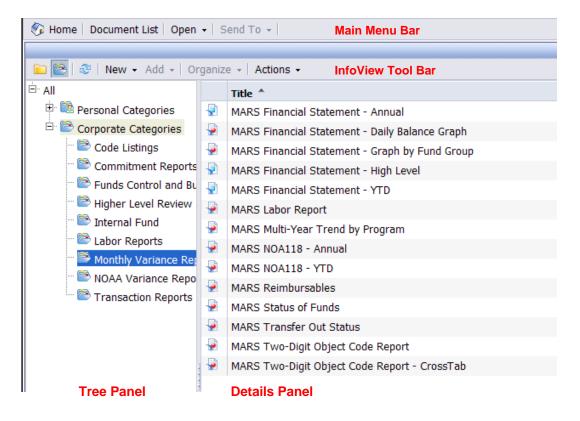
Setting Preferences: Ignore Other Settings Sections

Preferences - schmiedebergp		
► General		
► Change Password		
► Web Intelligence		
► Desktop Intelligence		
► Crystal Reports		
► Dashboard and Analytics		
► Voyager Client		

 Please ignore the Crystal Reports, Dashboard and Analytics and Voyager Client settings.

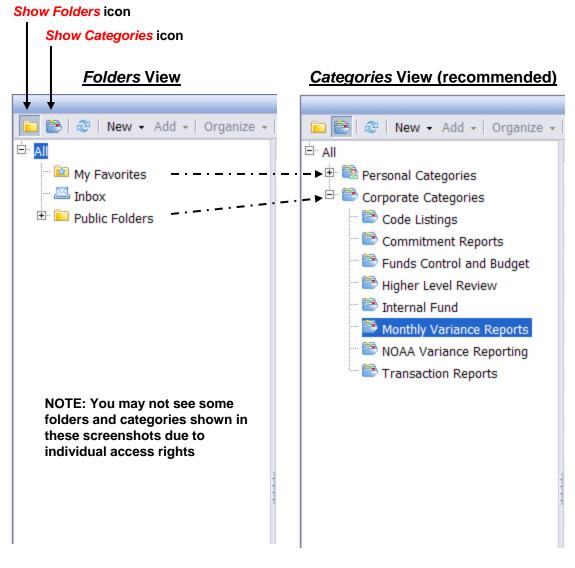
Part I - InfoView Navigation

InfoView Navigation: Panels



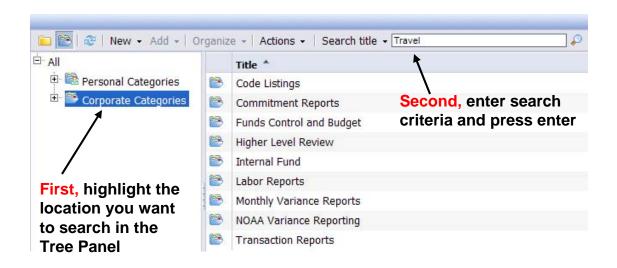
- Click the Home to return to the InfoView Start Page specified in your preferences.
- Note that the screen is divided into two panels:
 - Tree Panel
 - Details Panel
- The Tree Panel is used to browse personal folders & categories, Inbox documents and corporate categories.
- The Details Panel is where the objects within the selected folder or category are displayed.
- The InfoView Tool Bar is only available when the Tree and Details panel are displayed.
- The *Main Menu Bar* on top is always displayed.

InfoView Navigation: Tree Panel



- The Tree Panel shows you Folders or Categories. Documents can be displayed in Folder or Category view.
- The first two icons on top left of the Tree Panel allow toggling between the Folder view or Category view.
- Click on the Expand/Collapse button (+/-) to show/hide the Subfolders or Subcategories.
- Each document must be placed in a folder.
- Each document can be associated with zero, one or more categories.
- MARS has been configured to show Corporate Documents only in the Category View. Therefore if you expand the Public Folders in the Tree Panel, you will not see any documents. Switch to Category View to see Corporate Documents.
- Personal Categories will be empty if you have not created your own categories. Switch to Folder View to see Personal Documents if you haven't set up Personal Categories.
- The Folders view is the only way to navigate to the Inbox.
- Practice toggling between the Folders and Categories views.

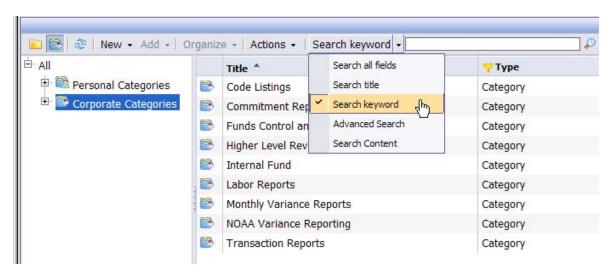
InfoView Navigation: Finding Documents by Name



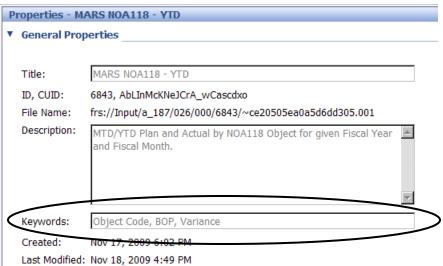


- If you are looking for a particular document and are having trouble finding it in either the folder or category structure, use the *Document Search* facility in the *InfoView Tool Bar*.
- For example, if you are looking for a document you know has 'Travel' in the name, simply type 'Travel' in the search field and press enter.
- NOTE: The search facility will only search the selected folder or category. Be sure to first highlight the folder or category you would like to search in the Tree Panel.

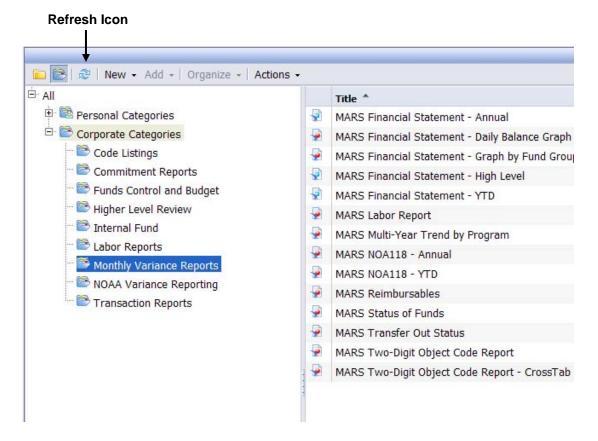
InfoView Navigation: Finding Documents by Keyword



- Another way to search is by keyword.
- When the MARS team creates a document, they enter keyword phrases in the properties of the document.

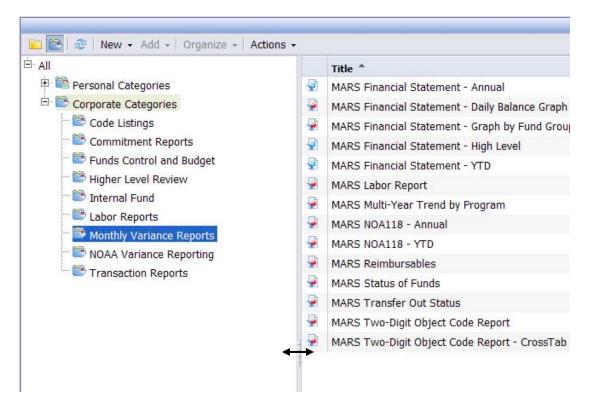


InfoView Navigation: Refreshing Panels



- Occasionally categories, or the contents of a category may change during a user session.
- If you are not able to find a category or document, click the *Refresh* button to be sure you are seeing the latest list.

InfoView Navigation: Managing Workspace



- You may resize the Tree and Details Panels by clicking and dragging the cursor along the bar separating the two sections.
- You must be positioned on the drag point and the cursor must show as a double arrow for the resizing to work.



InfoView Navigation: Menu Bars – Quick Reference

Main Menu Bar



- 1. Home: Go to InfoView Start Page as defined in your preferences
- 2. Document List: Display the document list you were last viewing
- 3. Open: Used to open My InfoView
- 4. Send To: Select 'Business Objects Inbox' to send documents to other users
- **5. Help:** Access on-line help (this help does not cover in-depth report creation)
- **6. Preferences:** Set user preferences (covered in previous section)
- 7. About: Business Objects product information
- 8. Log Out

InfoView Menu Bar

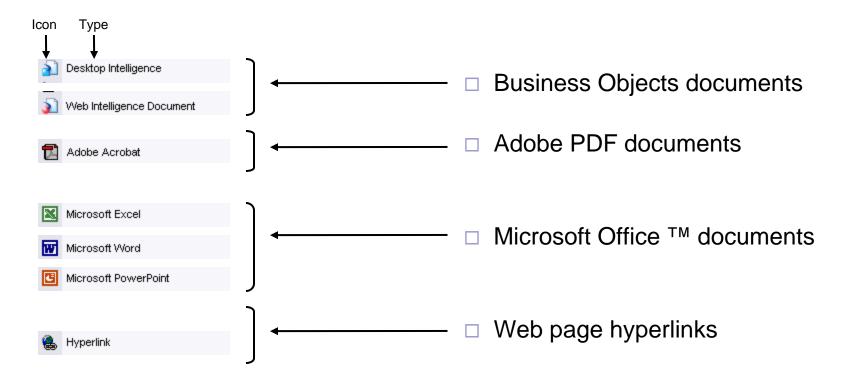


- 1. Display documents by Folder
- 2. Display documents by Category
- 3. Refresh Tree Panel and Details Panel
- 4. New: Create new Webl document, Category or Folder
- **5. Add:** Add local document to your personal folder, such as PowerPoint, Excel, PDF, etc. Must be positioned on My Favorites folder to use this option.
- 6. Organize: Cut, copy, copy shortcut, paste or delete Personal Folder, Category or Document
- **7. Actions:** Select Modify under actions to edit a personal document. Access properties and categories.
- **8. Search title:** Search for a document by title or keyword. Advanced search capabilities.
- 9. Page Navigation

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InfoView Navigation: Document Icons

 Documents other than Business Objects documents can be viewed in InfoView and discerned by their icon or type description.





InfoView Navigation: WebI vs. DeskI

Web Intelligence Document

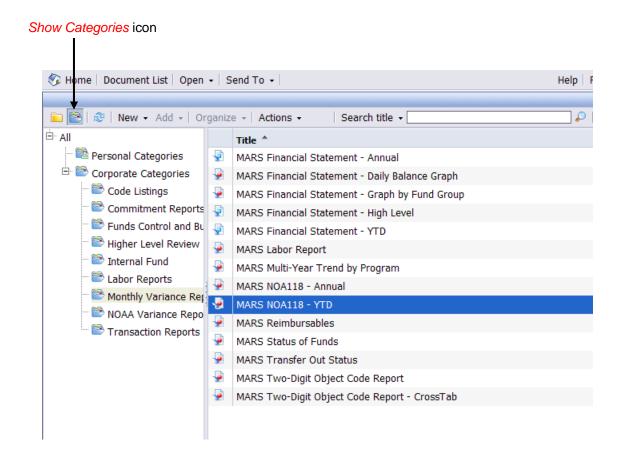
Web Intelligence (WebI) documents can be edited by users after they have been copied to their personal folders.

Desktop Intelligence

Desktop Intelligence (Deski) documents can only be edited by the MARS development team.

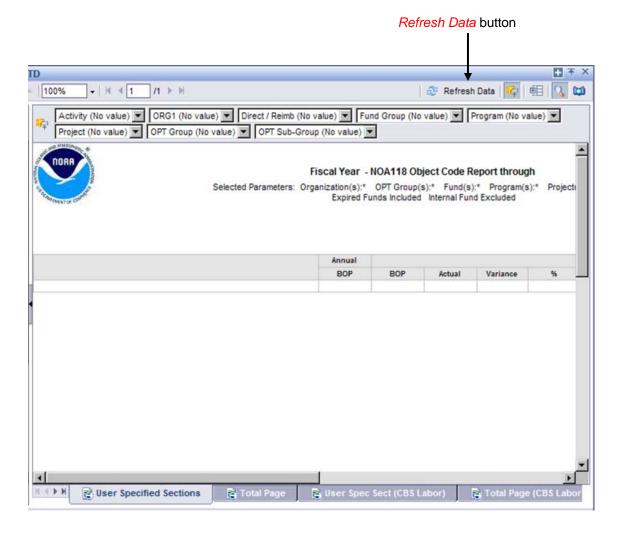
Part I - Working with Documents

Working with Documents: Using a Corporate Document



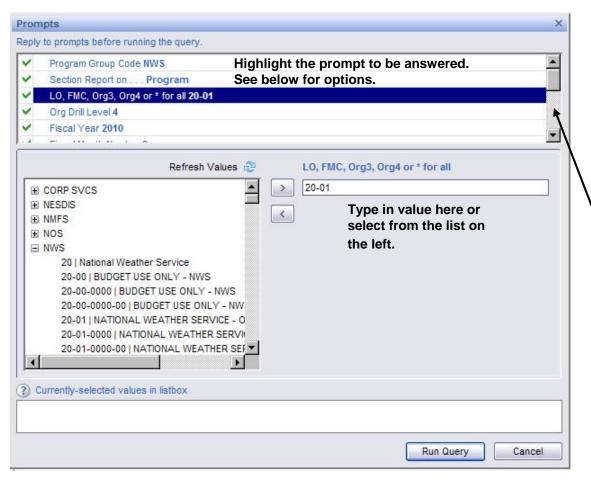
- In this exercise we will show you how to use the MARS NOA118 – YTD corporate document.
- Click Home or Document List. Be sure you are in Category view for this exercise.
- Click on the Monthly Variance Reports Category.
- To view a document, simply double click on the document name in the Details Panel.
- Double click on the MARS NOA118 - YTD document.

Working with Documents: Refreshing Data



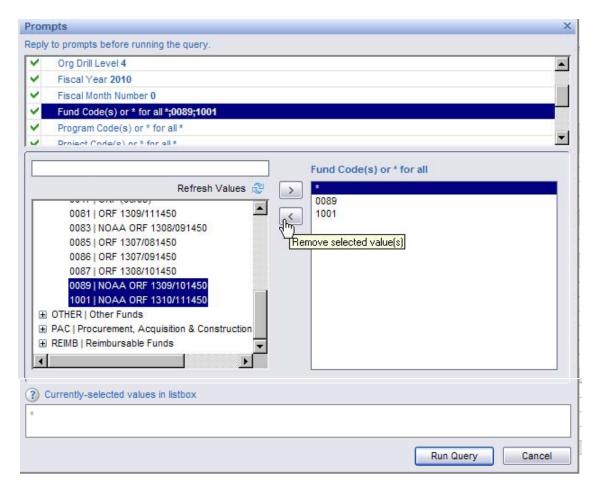
- The MARS team purges the query data before publishing reports.
- Therefore, when a corporate document opens, the report tabs will have no data in them by default.
- The user must click the Refresh Data button to retrieve the desired data.
- Upon refresh, the user may be prompted for parameters for retrieving the data.
- Click Refresh Data

Working with Documents: Filling in Prompts

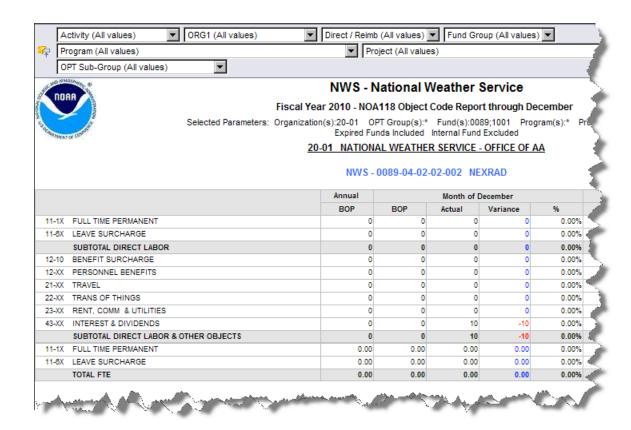


- Default values have been filled in to the prompts.
- The user will need to change any prompt that has a question mark (?).
- The user should review all other prompts to be sure only the necessary data is retrieved.
- You may need to scroll down to see all the prompts that are available.
- To change a prompt value, click on the prompt in the upper part of the screen and either type in the desired value, or select it from the list of values in the lower part of the screen
- If the list of values is empty, click the Refresh Values button.

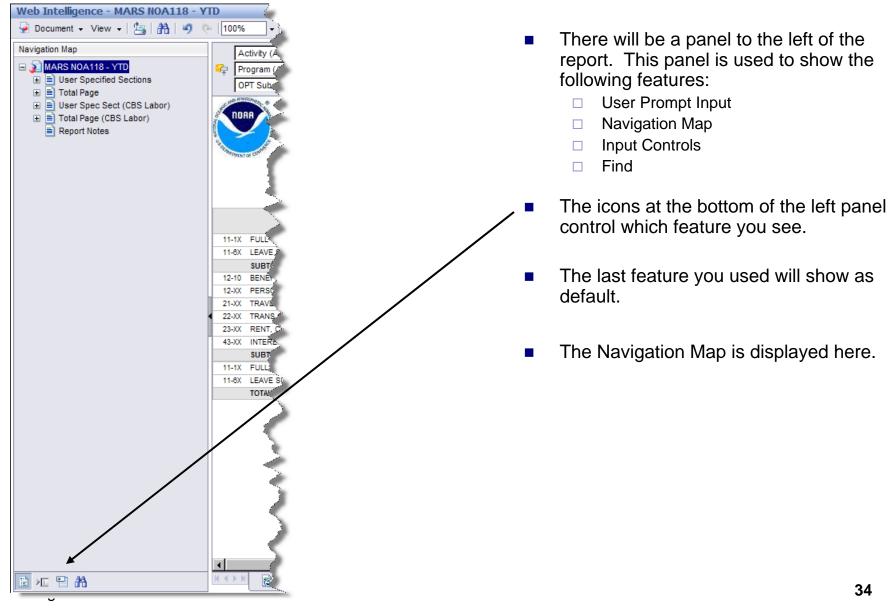
Working with Documents: Filling in Prompts



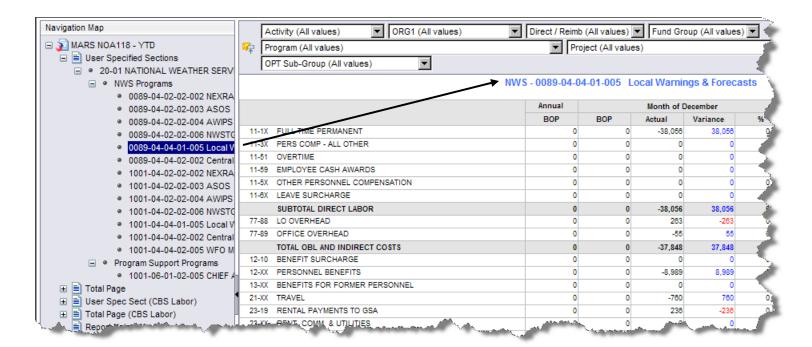
- Some prompts allow the user to select multiple values or '*' for all.
- If the user does not want all values, highlight the desired values in the list at the left, click the > button to move them to the selected values on the right.
- Be sure to remove the '*' from the selected values if you do not want all values. Use the < button to remove the '*' or any other undesired items.</p>
- Click Run Query when you have finish selecting the desired values.
- Most documents will finish refreshing in less than 60 seconds.



- The document should now have the desired data.
- If the report is still empty, click on Refresh Data again and carefully review the values entered in the prompts for potential mistakes.



- Switch to the Navigation Map.
- Click on the plus (+) signs to open up the section tree.
- Click on desired section to jump to that page.

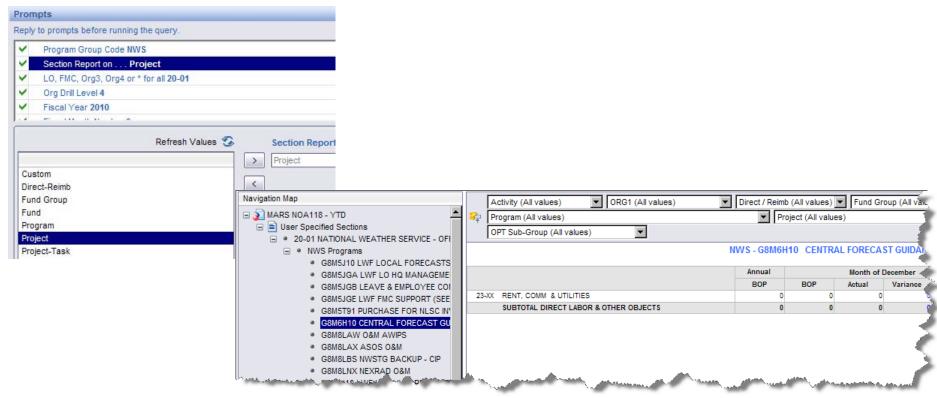




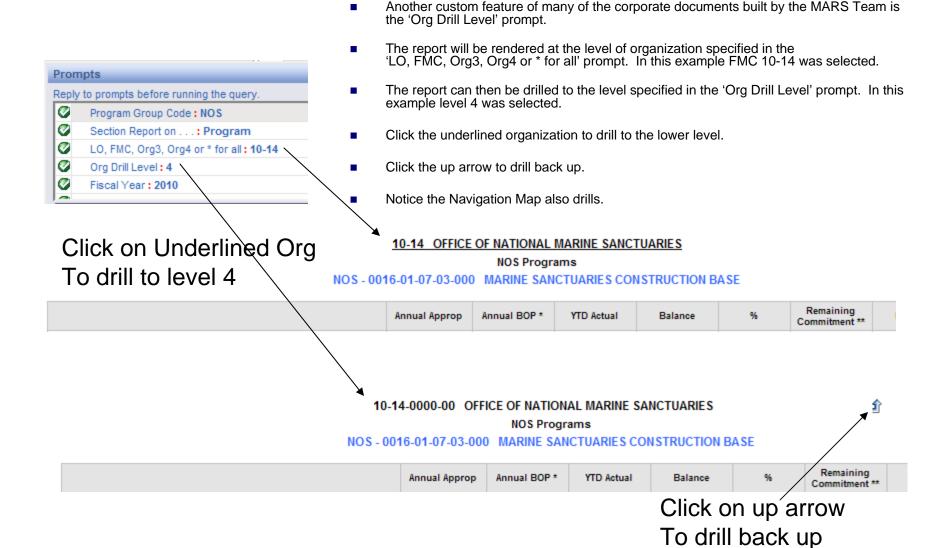
- Switch to the User Prompt Input.
- This screen shows you the prompt values that have been selected.
- You may use this panel to Refresh Data by clicking Run.
- Prompt values can be manually entered using this panel.
- To see the advanced prompt screen with the lists of values, either click Advanced from this panel, or click Refresh Data on the menu bar.

Working with Documents: Navigating Within a Document

- A custom feature of many of the corporate documents built by the MARS Team is the 'Section Report on . . .' prompt.
- The sections in the Navigation Map will change based on the user's response to this prompt.
- The default value in the MARS NOA118 YTD document was 'Program'.
- Refresh the report again and select "Project' to see how this feature works.

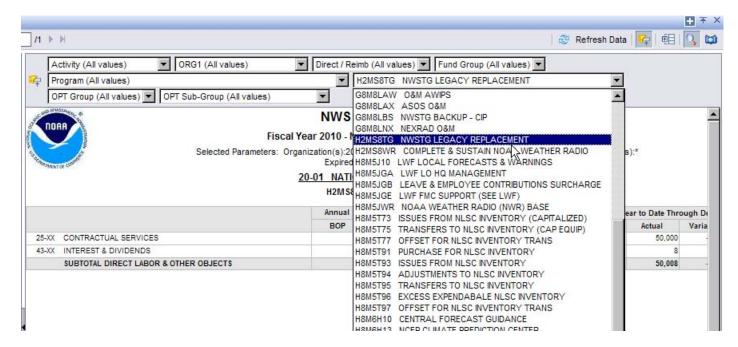


Working with Documents: Navigating within a Document

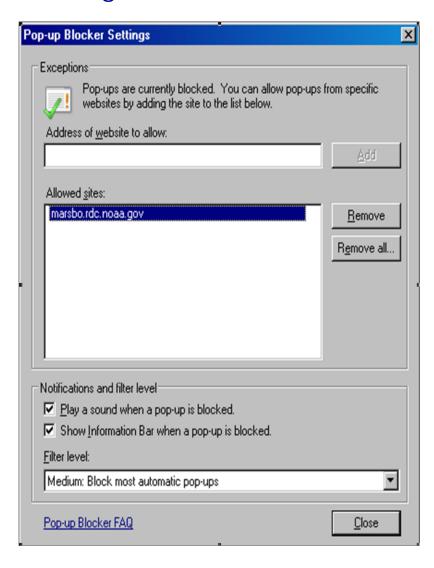


Working with Documents: Navigating within a Document

- Many of the Corporate Documents will have 'Report Filters' turned on.
- The Report Filter toolbar provides a quick method for adding simple report filters to reports.
- Simply drop down the list of values in the filter and pick from the list.
- Only one value can be picked at a time.
- To remove the filters, pick the (All Values) item at the top of each list.

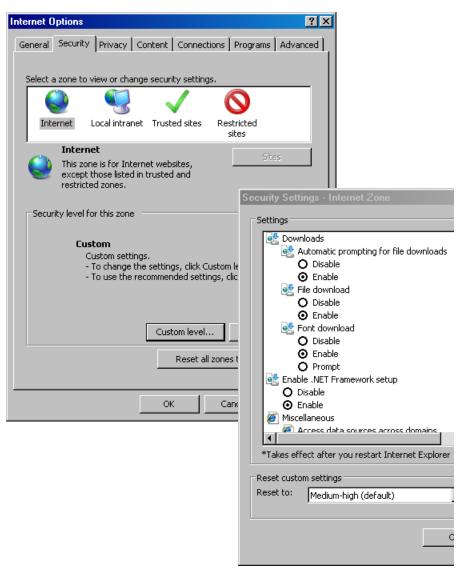


Working with Documents: Downloading to Excel – Pre-Requisite



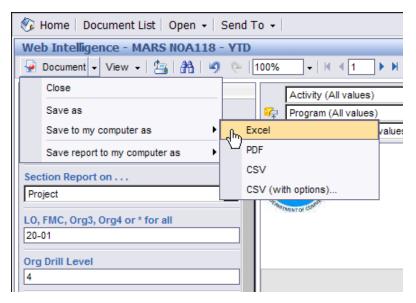
- Downloading to Excel and printing from PDF WILL NOT WORK unless you allow pop-ups for MARS:
- Either turn off pop-up blocking or allow marsbo.rdc.noaa.gov
- In Internet Explorer select:
 - □ Tools
 - □ Pop-Up Blockers
 - Turn-Off or change settings
- See your system administrator if this option is grayed out.

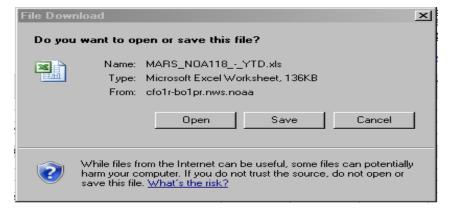
Working with Documents: Downloading to Excel – Pre-Requisite



- Downloading to Excel and printing from PDF WILL NOT WORK unless you have set the following Internet Explorer browser settings:
 - In Internet Explorer, click Tools-->Internet Options
 - □ Click Security tab
 - Click Custom Level
 - Scroll to Downloads section
 - Enable 'Automatic prompting for file downloads'
- See your system administrator if this option is grayed out.

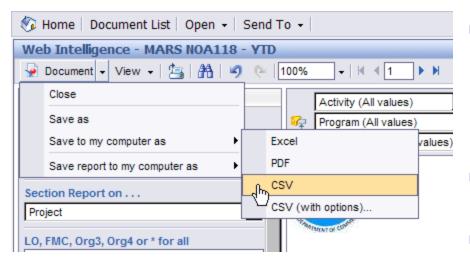
Working with Documents: Downloading to Excel - Formatted





- To download a document to MS Excel TM with the report formatting, choose the following from the menu bar:
 - Document
 - □ Save to my computer as
 - □ Excel
- The File Download prompt will then be displayed
- Choose Open to open the document in Excel
- Note that 'Save to my computer as' will save all the report tabs, whereas 'Save report to my computer as' will only save the current active report tab.

Working with Documents: Downloading to Excel - Un-Formatted



- To download the document query results (the data only—with no report formatting) to MS Excel TM, choose the following from the menu bar:
 - Document
 - □ Save to my computer as
 - □ CSV
- The File Download prompt will then be displayed
- Choose Open to open the document in Excel

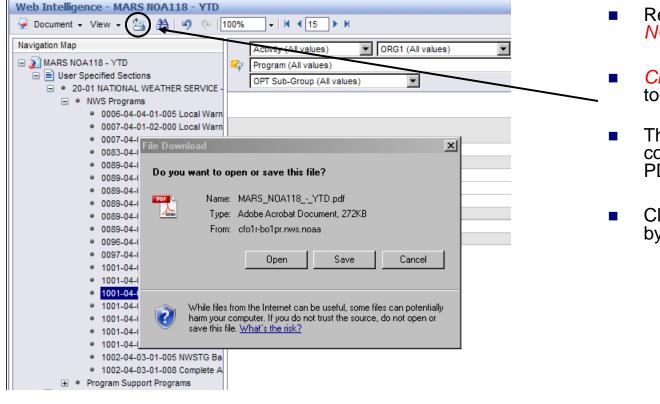


Working with Documents: Downloading to Excel Formatted vs. Un-Formatted

™ M	ARS_	NOA118YTD[1].xls				_ X	MAI	RS_NOA118	YTD[1].	CSA					
	В	С	D	Е	F	G 💂		Α	В	С	D	E	F	G	Н
1		NWS - Natio	nal Weat	her Sen	vice										
II-'-										Fund Code /					
2		Fiscal Year 2010 - NOA118 (Object Code	Report thi	rough Dece	ember	ш	Activity		Program Code /	Project Code /		Annual BOF		YTD BOP
		Selected Parameters: Organization(s):20-01 OPT Grou				n(s):* Proje		Short Name			Descr		FTE (Org)		Amount
3		Expired Funds Inc	luded Interna	al Fund Exclu	uded		1115	NWS	ORF	0089-04-04-02-002) (-	0 0
4		20-01 NATIONAL WE	ATHER SEF	RVICE - OFF	ICE OF AA		1 3	NWS	ORF	1001-04-04-02-002					0 0
5							4 	NWS NWS	ORF		H8M5JGA LWF				0 0
 6		NWS - G8M5J10 LWF	LOCAL FOR	ECASTS &	WARNING	S	1112	NWS	ORF	1001-04-04-01-005				-	0 0 0 0
7							1 2	NWS	ORF	0089-04-04-01-005				-	0 0
8			Annual		Month of			NWS	ORF	0089-04-04-01-005	G8M5JGA LWF			-	0 0
9			BOP	BOP	Actual	Variance	9	NWS	ORF		G8M5JGA LVVF			'	0 0
10	11-1X	FULL TIME PERMANENT	0	0	564	-564	10	NWS	ORF		G8M5JGA LWF			-	0 0
11	11-51	OVERTIME	0	0	0	0	11	NWS	ORF	0089-04-04-01-005	G8M5JGA LWF			-	0 0
12	11-5X	OTHER PERSONNEL COMPENSATION	0	0	0	0	12	NWS	ORF	0089-04-04-01-005				1	0 0
13	11-6X	LEAVE SURCHARGE	0	0	0	0	13	NWS	ORF	0089-04-04-01-005)	0 0
14		SUBTOTAL DIRECT LABOR	0	0	564	-564	14	NWS	ORF	0089-04-04-01-005)	0 0
15	12-10	BENEFIT SURCHARGE	0	0	0	0	15	NWS	ORF	0089-04-04-01-005	G8M5JGA LWF	l c) (0 0
16	12-XX	PERSONNEL BENEFITS	0	0	104	-104	16	NWS	ORF	0089-04-04-01-005	G8M5JGE LVVF I	F C) ()	0 0
17	21-XX	TRAVEL	0	0	0	0	17	NWS	ORF	1001-04-04-01-005	H8M5J10 LVVF L) ()	0 0
18	23-XX	RENT, COMM & UTILITIES	0	0	0	0	18	NWS	ORF	0089-04-04-01-005	G8M5T91 PURC	H C) ()	0 0
19	24-XX	PRINT & REPRODUCTION	0	0	0	0	19	NWS	ORF	0089-04-04-01-005	G8M5JGA LWF	ų c) ()	0 0
20	25-XX	CONTRACTUAL SERVICES	0	0	0	0	20	NWS	ORF	0089-04-04-01-005		_) ()	0 0
21	26-XX	SUPPLIES & MATERIALS	0	0	0	0	21	NWS	ORF		H8M5JGA LVVF) ()	0 0
22	31-XX	EQUIPMENT	0	0	0	0	22	NWS	ORF		G8M5JGA LVVF			-	0 0
23	43-XX	INTEREST & DIVIDENDS	0	0	0	0	23	NWS	ORF	0089-04-02-02-004		-		·	0 0
24		SUBTOTAL DIRECT LABOR & OTHER OBJECTS	0	0	668	-668	24	NWS	ORF	0089-04-04-01-005					0 0
25	11-1X	FULL TIME PERMANENT	0.00	0.00	0.00		25	NWS	ORF		G8M8LAVV O&M	-			0 0
26		LEAVE SURCHARGE	0.00	0.00	0.00		26	NWS	ORF	1001-04-04-01-005				-	0 0
27	•	TOTAL FTE	0.00	0.00	0.00	-0.00	27	NWS	ORF	1001-04-04-01-005				-	0 0
21		101112112	0.00	0.00	0.00	5.00	28	NWS	ORF	0089-04-04-01-005	G8M5J10 LVVFL	. 0) ()	0 0

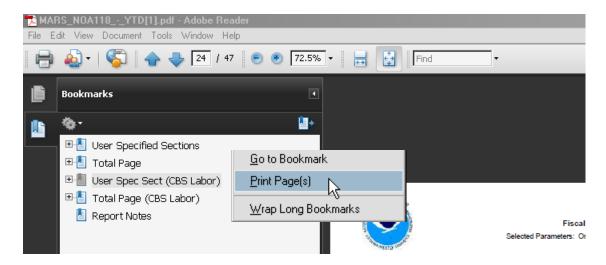
- The formatted Excel (.xls) is on the left
- The un-formatted (.csv) is on the right.
- If you plan to do your own formatting in Excel, it is better to use the download to CSV option. After the .csv file is opened, you may save it as .xls.

Working with Documents: Printing

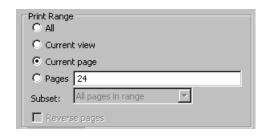


- Return to the MARS NOA118 - YTD document.
- Click the Print button in the toolbar.
- The document will be converted to Adobe Acrobat PDF format for printing.
- Click Open when prompted by the file download.

Working with Documents: Printing



- The document will be displayed in Adobe Reader.
- If you wish to print a single report tab, right mouse click on the tab's bookmark and click Print Page(s)



If you wish to print the current page you are looking at, click the *Print* button and choose *Current Page*.

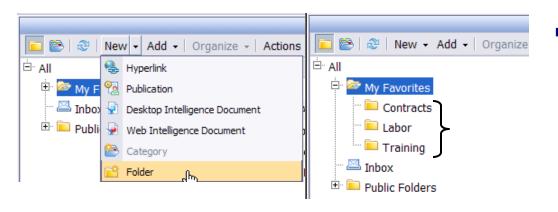
Working with Documents: Personal Folders / Categories



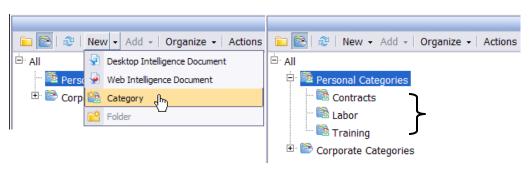
- Each user has a Personal Folder area for storing Personal Documents called My Favorites.
- Each user also has an *Inbox* folder.
- Personal Documents are either:
 - □ Created by the user
 - □ Sent by another user
 - Copies from Corporate Documents
- To see Personal Folders switch click Home or Document List and switch to Folders view.

Working with Documents: Personal Folders / Categories

 Each user can create subfolders and/or sub-categories to keep their personal documents organized.



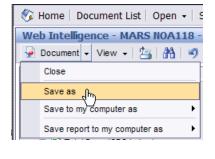
- To Create a Folder:
 - ☐ Highlight My Favorites
 - From New Menu select Folder

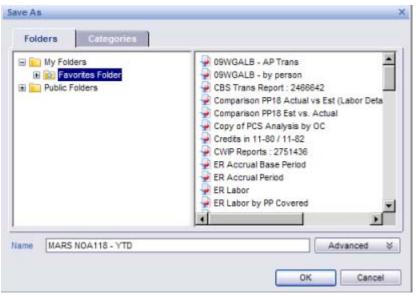


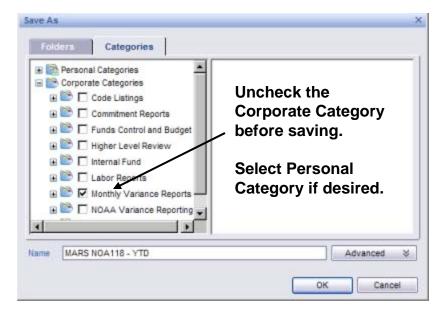
- To Create a Category:
 - ☐ Highlight Personal Categories
 - From New Menu select Category

Working with Documents: Adding a Corporate Document to Personal Folder

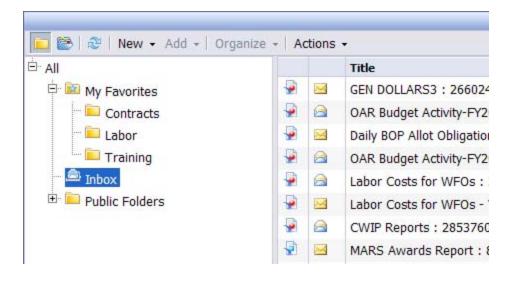
- View the Document you wish to save to your personal documents folder.
- Refresh the report with the prompts filled in as you would typically use the report.
- From the Document Menu, select Save As
- From the Save As pop-up window, select the *Personal Folder* and optionally the *Personal Category* you would like to save this report under.
- Note that the Corporate Category will still be selected under the Categories tab. You must uncheck the Corporate Category before saving, or you will get an error message and have to cancel out of the window and try to save again.







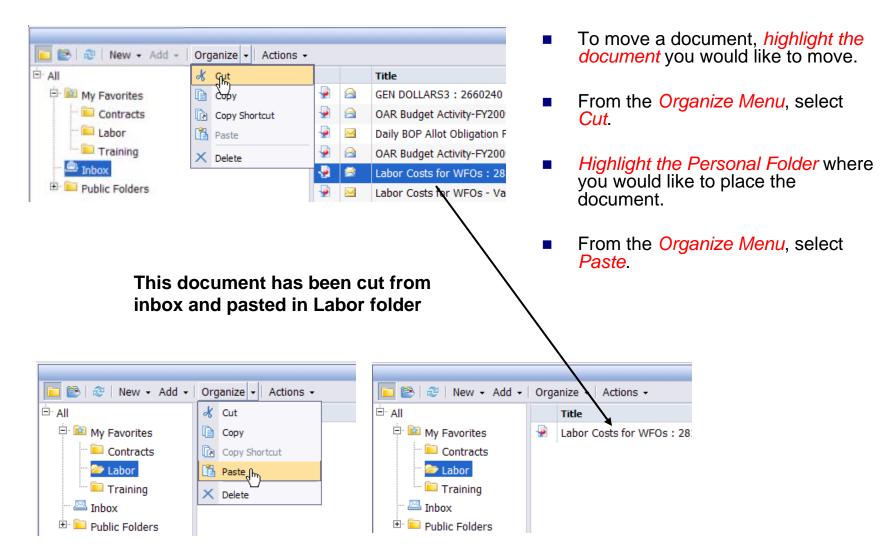
Working with Documents: Inbox Documents



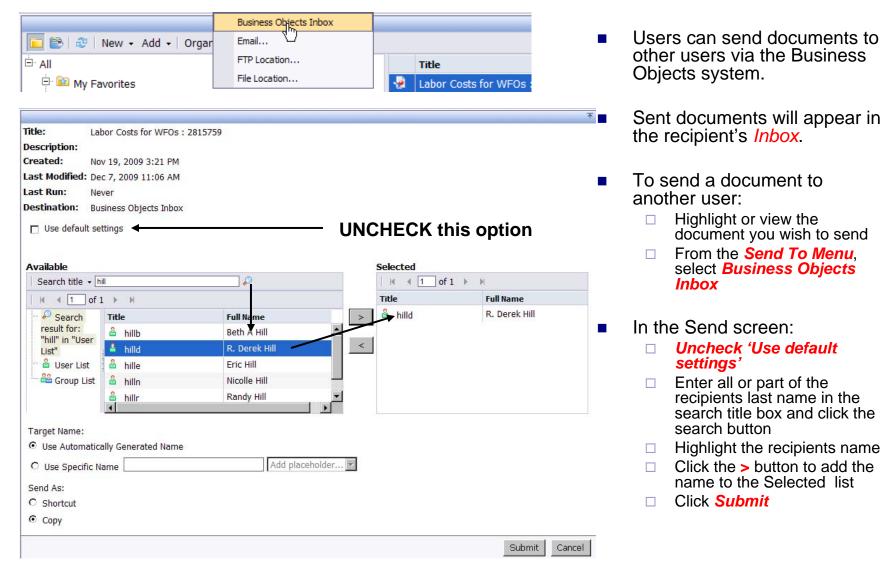
- Users that have the ability to create their own documents can share those documents by sending them via Business Objects to another user's Inbox.
- To view your Inbox, you must switch to the Folders view.
- Double click on the document you would like to view.
- Note the icon changes to an open envelope after the document has been read.
- Keeping Organized:

Instead of letting your Inbox become over-loaded with documents, make a practice of moving your Inbox documents to your Personal Folders. The next slide covers moving documents.

Working with Documents: Moving Documents

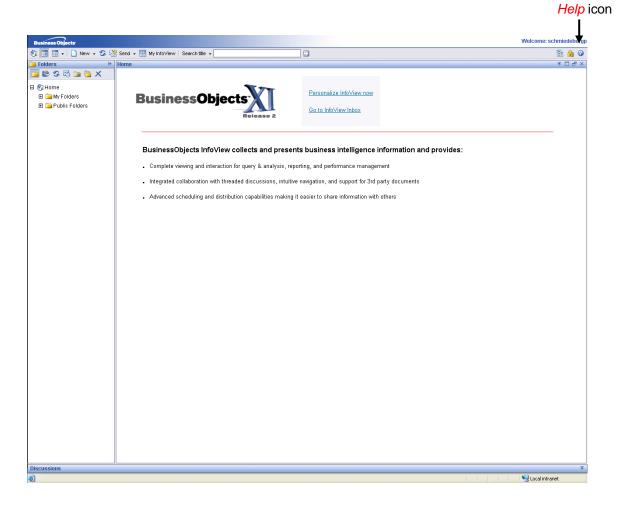


Working with Documents: Sending Documents to Other Users



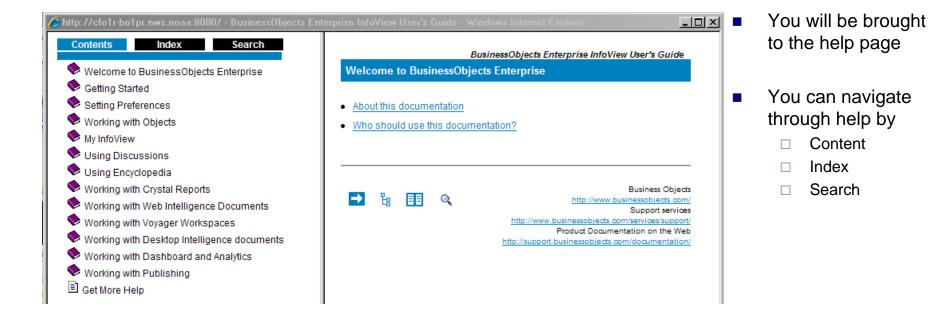
Part I - Getting Help

Getting Help



- This Querying & Reporting User Guide only brings you through the basics of using Business Objects.
- We encourage users to explore the broader functionality of the product by reading the online help.
- To get access to these resources, click Help from the Main Menu.

Getting Help





MARS Support Information

- Hours: Mon-Fri 7:30 am 5:30 pm EST
- Contact Information
 - □ Email
 - mars.support@noaa.gov
 - Phone
 - **(301) 427-8888**
 - □ Fax
 - **(301) 713-1742**

MARS Reporting & Querying User Guide

Part II: Working with Ad Hoc Documents

For the Power User

\bigcirc	Table of Contents
•	 Creating Webi Documents
	O Query Building
	O Document Storage and Organization
	O Recalling a Document
	O Editing a Document
	 Filtering Document Queries
	O Query Filters
	O Pre-Defined Filters
	O User Defined Filters
	O Complex Filters
	Report Formatting
	O Introduction
	O Page Layout
	O Cell Formatting
	O Report Tabs
	Table of Contents Continued

MARS Reporting & Querying User Guide

Part II: Working with Ad Hoc Documents

For the Power User

0	Table o	f Contents	(Continued)
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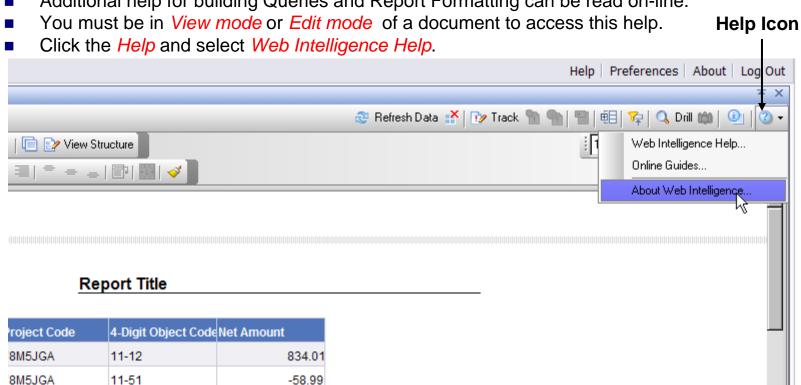
 Advanced Report Formatting
O Breaks
O Sections
O Calculations
O Sorts
O Cross-Tab (Pivot Table) Reports 146
Analytic Features
O Simple Filters
O Complex Filters
O Fold / Unfold
O Input Controls
O Data Tracking

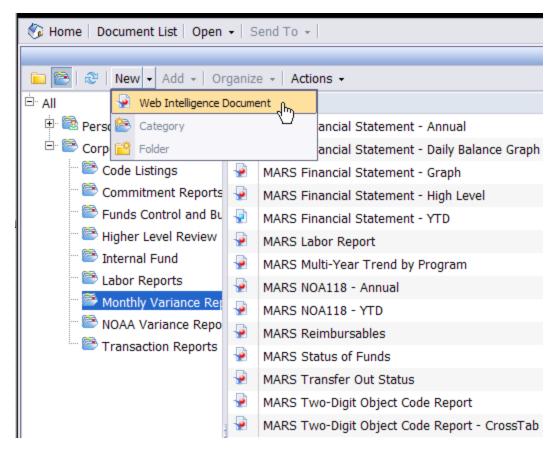
Part II - Creating Webl Documents

- The Creating Webi Documents section covers query building and document management. The resulting report is left in it's default format in this section.
- The next section called Report Formatting will teach you how to work with report formatting.

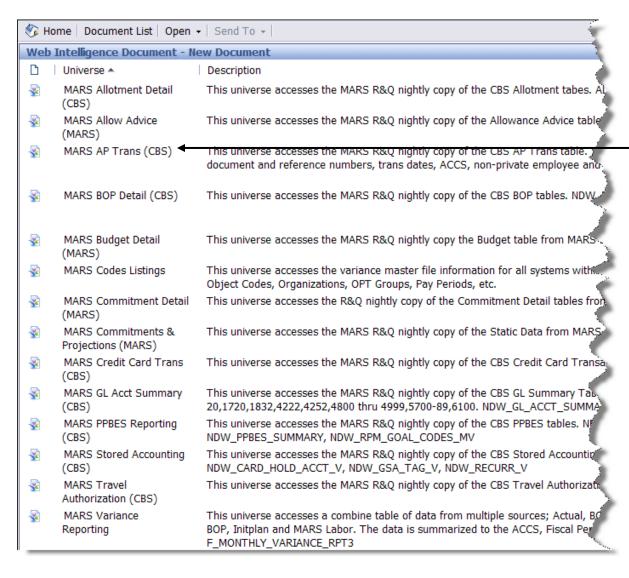
Creating Webi Documents: Getting WebIntelligence Help

Additional help for building Queries and Report Formatting can be read on-line.



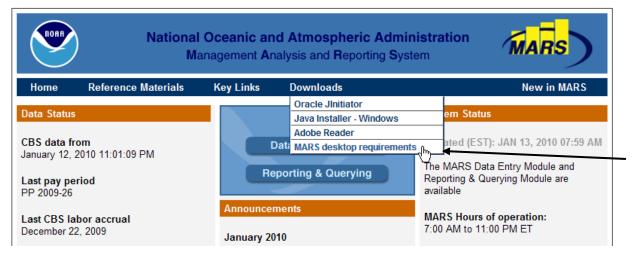


- Click Home or Document List so that the InfoView Menu Bar is displayed.
- From the New Menu select Web Intelligence Document.

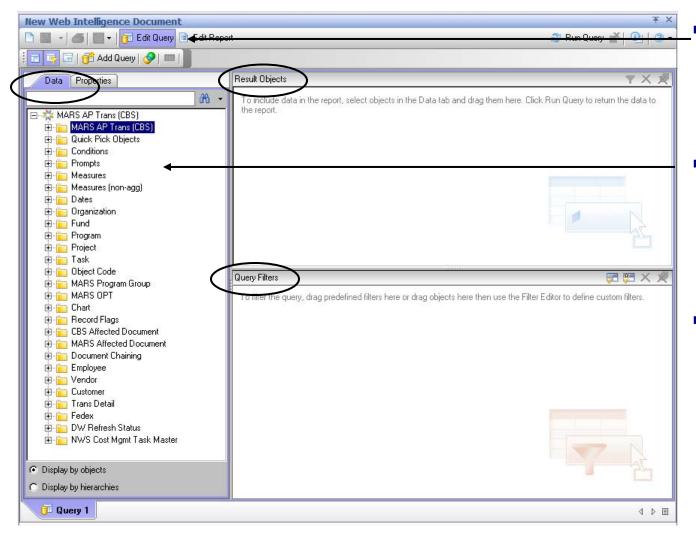


- You are presented with a list of universes.
- For this exercise choose MARS AP Trans (CBS).
- NOTE: The universes in the list is controlled by the user access rights.
- This screen is showing the universes available for use by a standard MARS user.

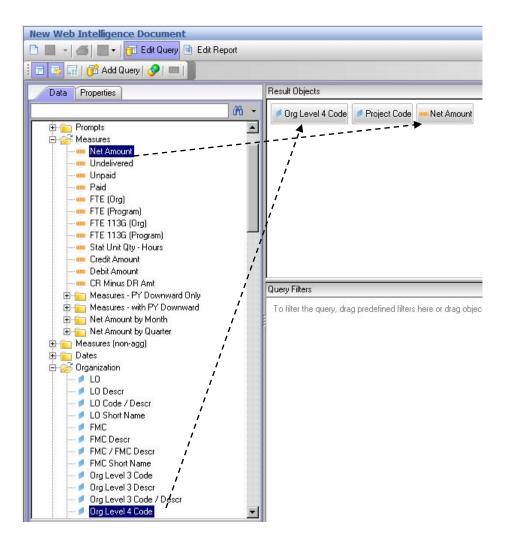




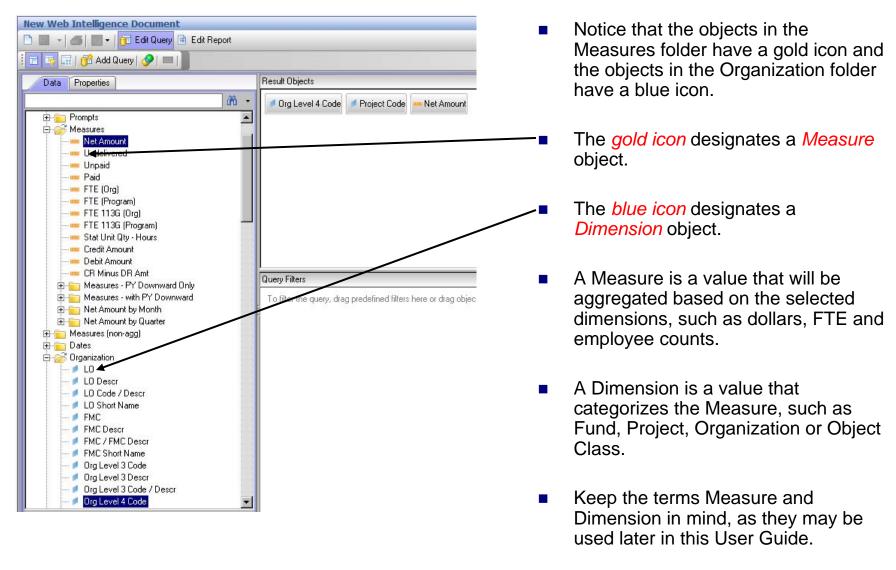
- The Webl uses Java technology.
- If you've never used a website that requires Java then you will be prompted to install Java the first time you create a new document.
 - The Java splash screen may be displayed while Java is being loaded. You may see a different depending upon the version loaded on your PC.
- NOTE: Not all versions of the Java are supported, especially newer versions right after they are release.
 - If you receive a Java error message, work with your system administrator to ensure that a supported version has been installed on your PC.

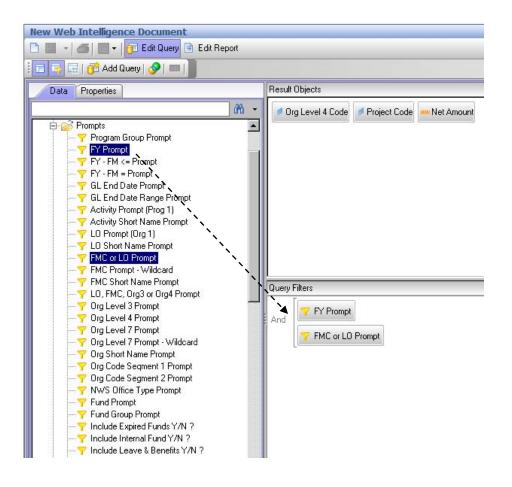


- The process of creating a document begins in Edit Query mode.
- The objects available in the Universe selected are in the folders to the left under the Data tab.
- Note that there is a Result Objects pane and a Query Filters pane.

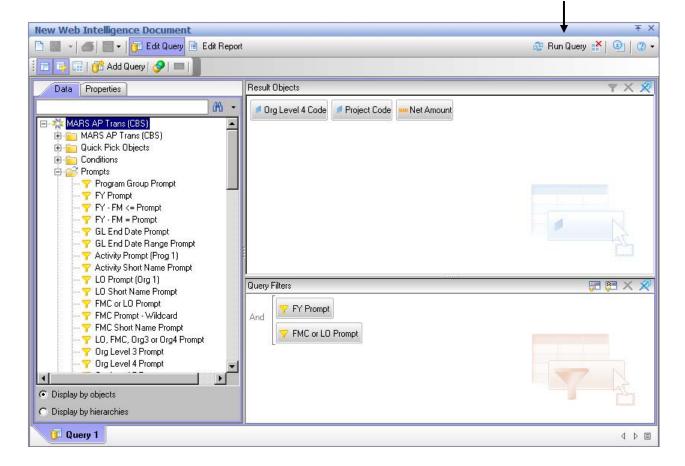


- Select desired objects to include in the document as follows:
- Click "+" to open the following folders to see the objects:
 - Measures
 - Organization
 - Project
- Click and drag (or double click) the following objects to include them on the Result Objects Pane:
 - Org Level 4 Code
 - Project Code
 - □ Net Amount

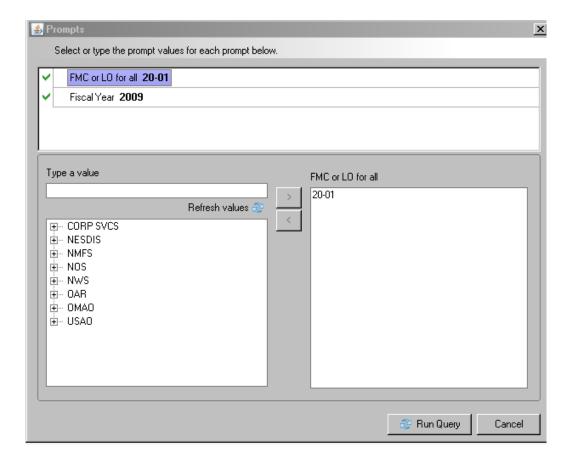




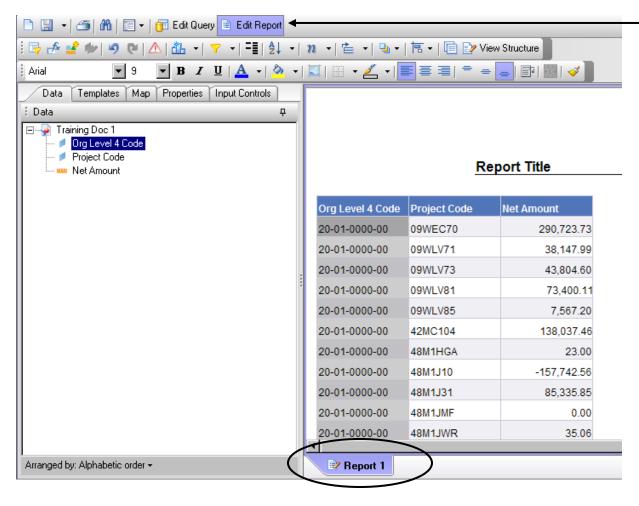
- To reduce the number of rows returned and speed up query performance, add some query filters. You will learn more about query filters later in this guide.
- Click "+" to open the following folders and see the objects:
 - Prompts
- Click and drag (or double click) the following objects to include them on the Query Filters Pane:
 - □ FY Prompt
 - ☐ FMC or LO Prompt



Click Run Query to execute the query.

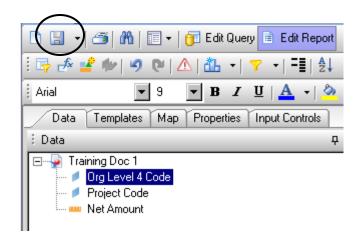


- When the Prompts screen appears, click on the prompt text in the upper part of the screen and either type in the desired value or select it from the list of values in the lower part of the screen.
- If the list of values is empty, click the Refresh Values button.
- Click Run Query to execute the query with the select parameter.
- If the Run Query button is not available, it is because you have not answered all the prompts.

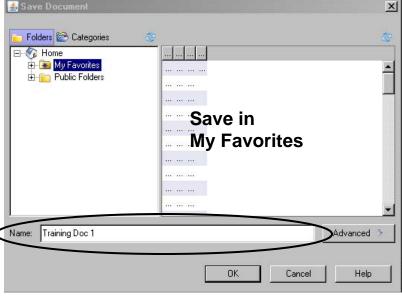


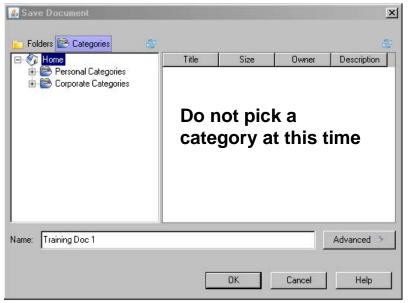
- The query is processed and your are switched to the Edit Report mode.
- The results of the query are placed in a report tab (Report 1) in the default report format.
- The only time objects are placed in a report tab is the first time you run a query. New objects added to the query will have to be moved to the report tab(s) manually.
- Note that the rows going down are sorted first by column 1 (FCM), then column 2 (Project Code), etc. Column order and row sorting can be modified and will be covered in the Report Formatting section.

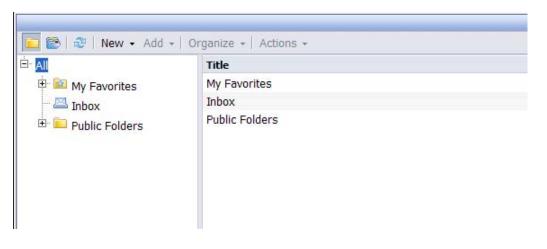
Creating Webl Documents: Document Storage and Organization



- Click Save (Diskette Icon) to save your document.
- The first time you click save, you will be prompted to select a folder and document name. Optionally you can specify a personal category.
- From the Save Document pop-up window, select My Favorites and do not select a Personal Category at this time.
- In the *Name* field, enter '*Training Doc 1*'.

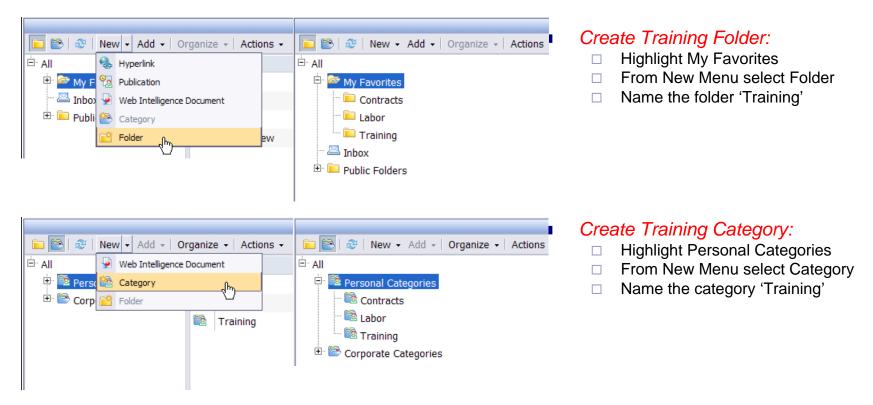


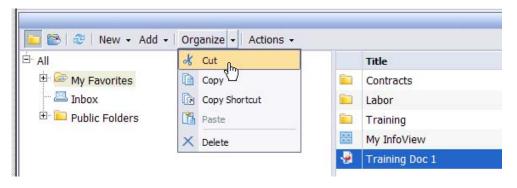


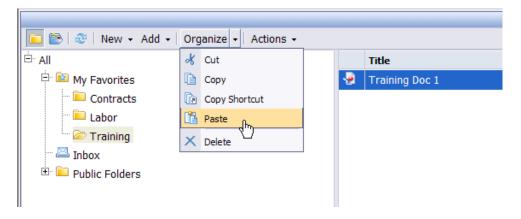


- Each user has a Personal Folder area for storing Personal Documents called My Favorites.
- Personal Documents are either:
 - □ Created by the user
 - □ Sent by another user
 - Copies from Corporate Documents
- To see Personal Folders click Home or Document List and switch to Folders view.

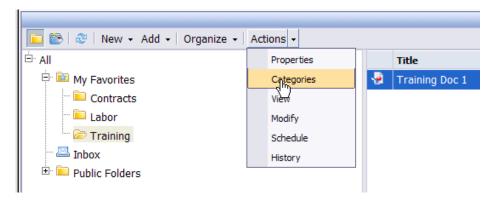
- Each user can create subfolders and/or sub-categories to keep their personal documents organized.
- Personal documents and folders are stored on the Business Objects server at the ITC, not locally on the user's PC.
- Note that the subfolders under the Public Folders folder are hidden by design. Users are unable to save to Public Folders or Corporate Categories.





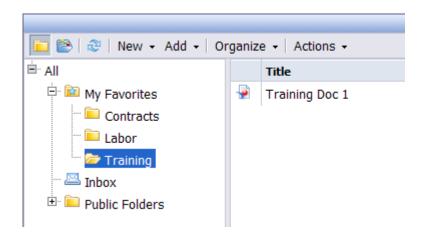


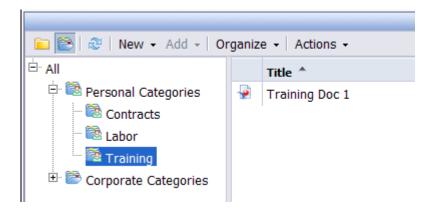
- Your document has been saved in the My Favorites folder.
- To find your document, click Home or Document List and switch to Folders view. Click on the My Favorites folder.
- You can move a document using the Cut and Paste options under the Organize Menu.
- Move Training Doc 1 . . .
- Cut from My Favorites
 - Click on My Favorites
 - ☐ Click on the 'Training Doc 1'
 - □ From the Organize Menu, select Cut
- Paste into Training
 - ☐ Click on the + next to My Favorites
 - ☐ Click on the Training folder
 - □ From the Organize Menu, select Paste





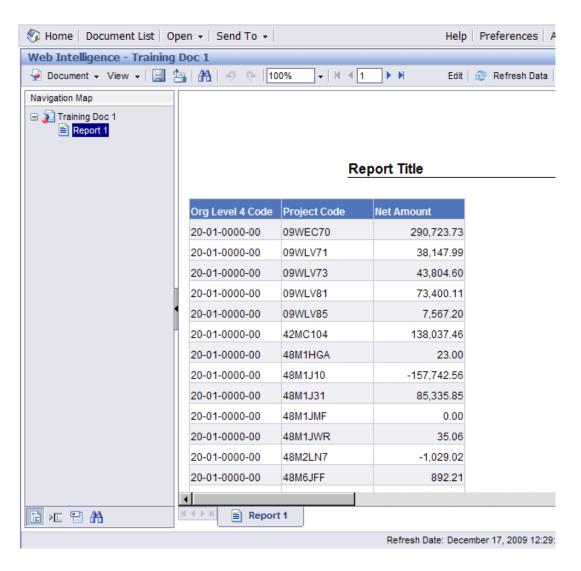
- When you saved Training Doc 1, you were instructed not to specify a category.
- In a subsequent step, you created the Training category.
- Assign Training Doc 1 to the Training category as follows:
 - ☐ From the Actions Menu, select Categories
 - Open Personal Categories and click on Training
 - □ Click OK



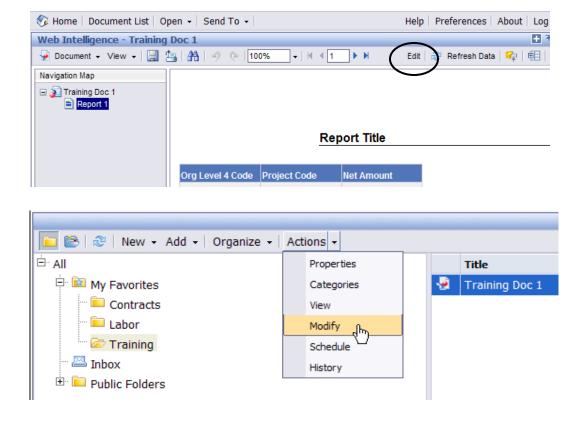


- Now you should be able to find your document in both the *Training folder* and the *Training category*.
- Typically, there would be no need to have both a category and folder for the same subject.
- You may choose to use only folders for organizing your documents, or you may choose to put all your documents in one folder and use categories to keep organized. Both were created in this exercise purely for training purposes.

Creating Webl Documents: Recalling a Document



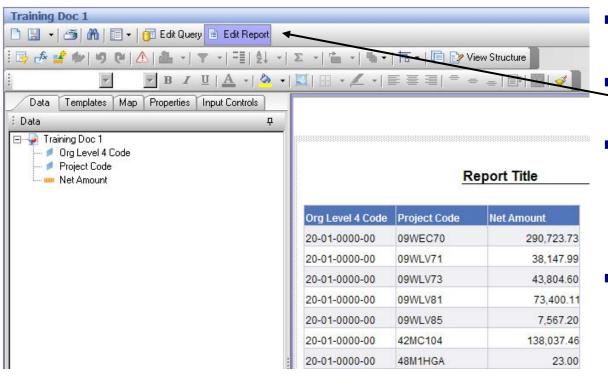
- To use the document you have just saved, simply navigate to the appropriate folder or category and double click on the document name.
- The document will be opened in view mode. You cannot change the query or report layout in view mode.
- The data you see when you open a document is the data from the last time the document was saved.
- Open Training Doc 1
- Click Refresh Data to retrieve the latest data and/or change the prompt parameters.



- To make changes to the query of report layout you must open the document for editing in one of two ways:
- While in view mode
 - Double click the document to return to view mode
 - □ Click on the *Edit* option

Or . . .

- From the Detail Panel
 - Highlight the document in the Detail Panel
 - From the Actions Menu, select Modify

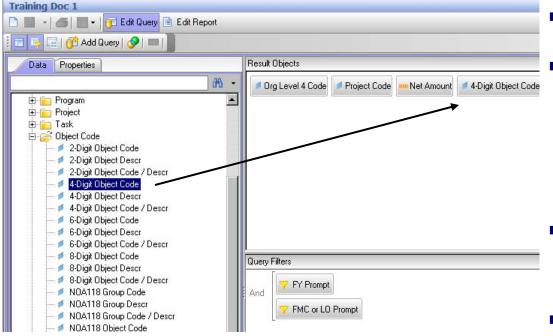


Open Training Doc 1 for editing.

You will be in *Edit Report* mode.

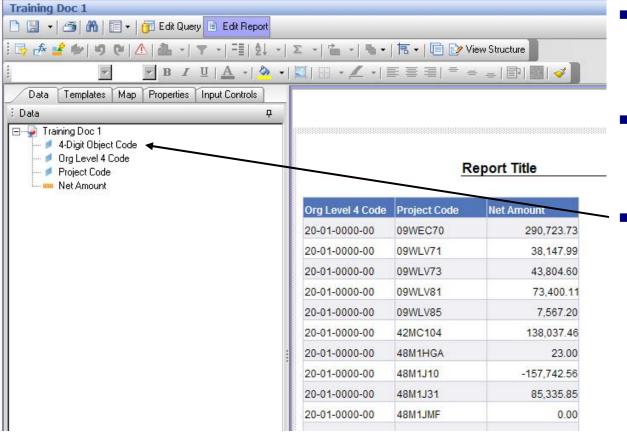
It is from the Edit Report mode that you will be able to do the advanced report structuring and formatting that is covered in later sections.

For this lesson you will learn how to add and delete columns from the query and report.

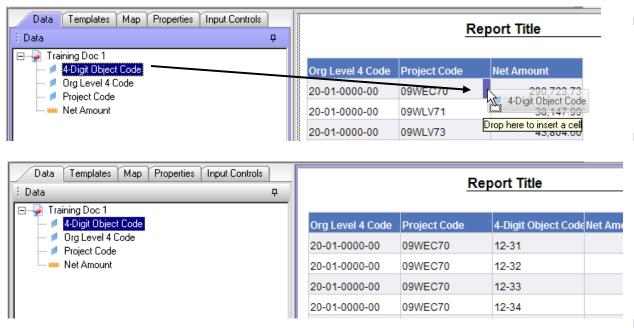


Switch to the Edit Query mode.

- Add 4-Digit Object Code to your query as follows:
 - Open the Object Code folder
 - Click and drag (or double click) the 4-Digit Object Code so that it appears in the Result Objects
 - □ Click Run Query
- To remove objects from your query, simply click and drag them out of the Result Objects panel.
- Alternatively, you can highlight the object and press the delete key.



- The query is processed and your are switched to the Edit Report mode.
 - Note that the newly added object does not appear automatically in the report.
 - The newly added 4-Digit Object Code object is available in the Data tab.

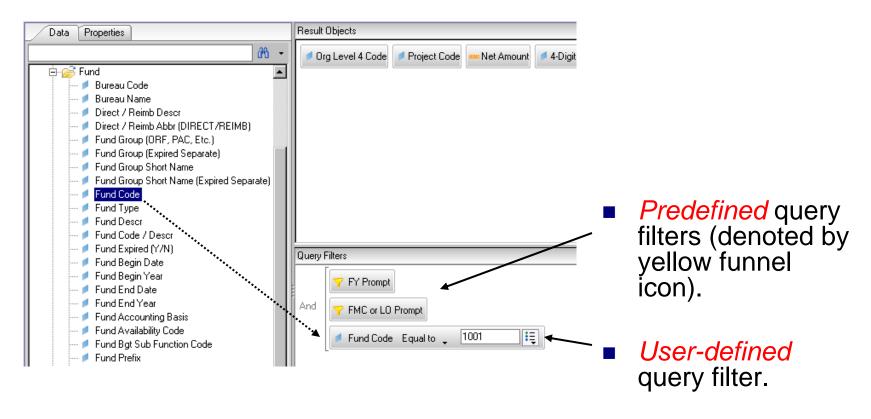


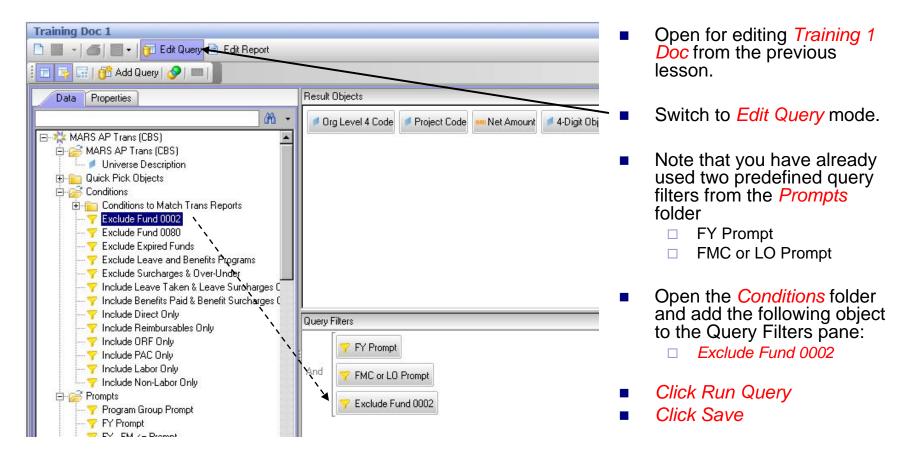
- To add objects from Data tab to report, drag and drop onto appropriate place in the report.
- As you drag object over table, a tooltip will display, indicating the correct place to drop data object. The tooltip in the screen shown says 'Drop here to insert a cell'. It is also possible to replace a cell.
- Drag and drop the 4-Digit Object Code between Project Code and Net Amount.
- Save your document after each change by clicking the Save button.

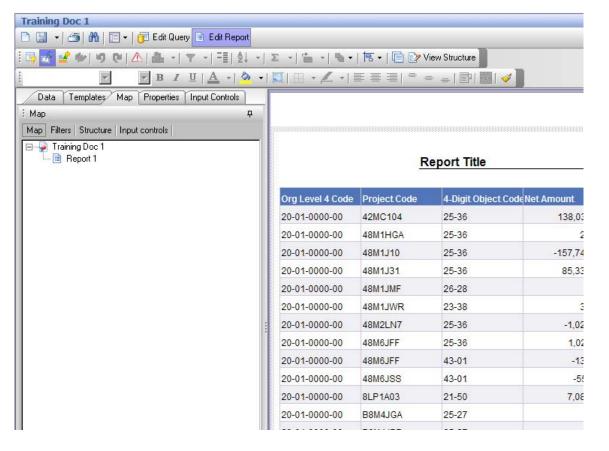
Part II - Filtering Document Queries

- o What Are They?
 - Restrictions or conditions OPTIONALLY added to queries to limit data retrieved from data sources
- o Why Use Them?
 - To retrieve only pertinent data
 - Generally reduces query time

- Two Types
 - Predefined
 - OBuilt by MARS administrators
 - OAvailable in all universes for use in document creation
 - OCan be found in Prompts and Conditions folders
 - User-Defined
 - OBuilt within a document
 - OApplicable only in that document







- Note that the report no longer includes project codes from the Internal Fund (fund code 0002).
- Click Save

- The pre-defined filters in the Conditions folder filter the data as stated in the object name, for example: 'Exclude Fund 0002'.
- The pre-defined filters in the *Prompts folder* filter the data based on a value or values supplied by the user of the document.
- It is quicker to double click a pre-defined filter than it is to build a user-defined filter. Be sure to browse through these folders to see what is available. Every MARS Universe has a Conditions and Prompts folder.

- Query Filters—Different Types
 - Single Value
 FMC Equal to 20-01
 - Multi Value
 FMC In List 20-10; 20-20
 - Prompted Value
 FMC Equal to ("Enter FMC")
 Prompted Values can be required or optional
 - Complex

 Fund Code Equal to 0085
 OR
 (Fund Code Fiscal Year Equal to 2005
 AND Fund Code Equal to 0036)

 Query Filters (including Predefined filters) have three components

Object Operator Operand

Example: LO Equal to '20'

- 1) Object: Object from the Universe
- 2) Operator: Identifies relationship to operand
 - O (e.g. Equal to, Less Than, Matches Pattern, etc.)
- 3) Operand: A value
 - Can be explicit value, user supplied value (prompt), another object, or another query (subquery)

o Operators (page 1 of 2)

Operator	Description	Example
Equal to	Exactly matches value	FMC Equal to 20-01
Not Equal To	Anything other than value	FMC Not Equal To 20-01
Greater than	Greater than value	FMC Greater than 20-01
Greater than or equal to	Greater than or equal to value	Net Amount Greater than or equal to 10,000
Less than	Less than value	Trans Date Less than 9/1/2006
Less than or equal to	Less than or equal to value	Net Amount Less than or equal to 10,000
Between	Between the two values specified, also including the two values specified	FMC Between 20-10 and 20-60
Not Between	Not between TWO values specified nor equal to either value	FMC Not Between 20-10 and 20-60

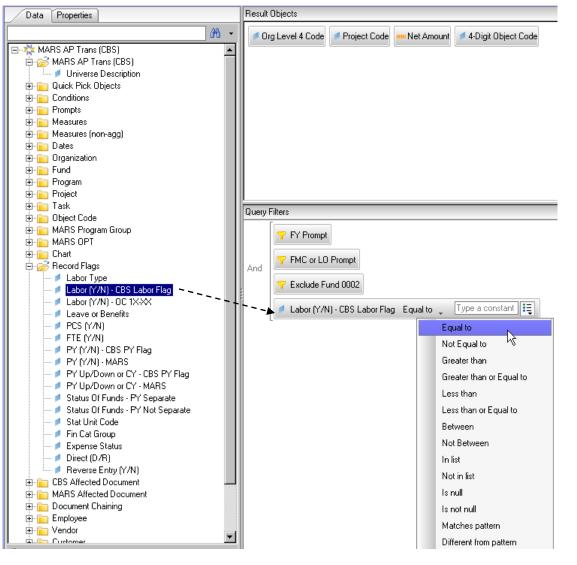
o Operators (page 2 of 2)

Operator	Description	Example
In List	Matches at least one of the values listed	FMC In List 20-10; 20-20
Not In List	Different from the values listed	FMC Not In List 20-10; 20-20
Is null	Has no value, as when a data column is empty	Affected Reference No Is null
Is not null	Has a value, as when a column contains data	Downward Net Amount Is not null
Matches pattern	Includes the specified string	Project Code Matches pattern 8MIJ%
Different from pattern	Does not include the specified string	Org Level 7 Code Different from pattern 209%

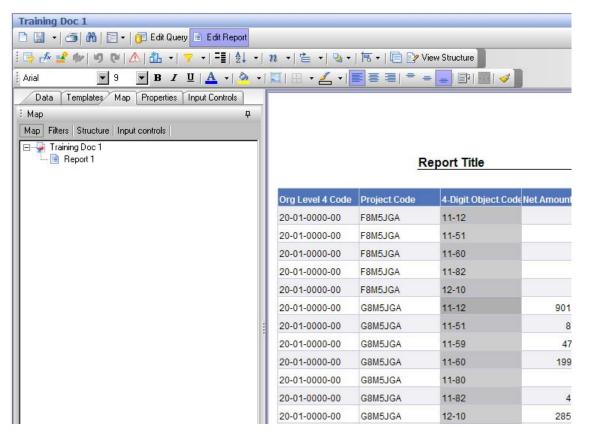
- Operators —A Few Notes
 - The following operators can be applied to strings (character data), numbers and dates:
 - O Greater than / Greater than or equal to
 - O Less than / Less than or equal to
 - O Between / Not Between
 - The following operators can be applied to strings only!
 - Matches pattern / Different from pattern
 - Matches pattern / Different from pattern are only useful when used with wildcard patterns.
 - O '%' represents ZERO, one, or more characters
 - Example: Last Name Matches pattern '%N%G' can return the last names NG, MANNING, and NEIBERG
 - O '_' represents one, and only one, character
 - Example: Org Level 7 Code Matches pattern 20-___-9%

o Operands:

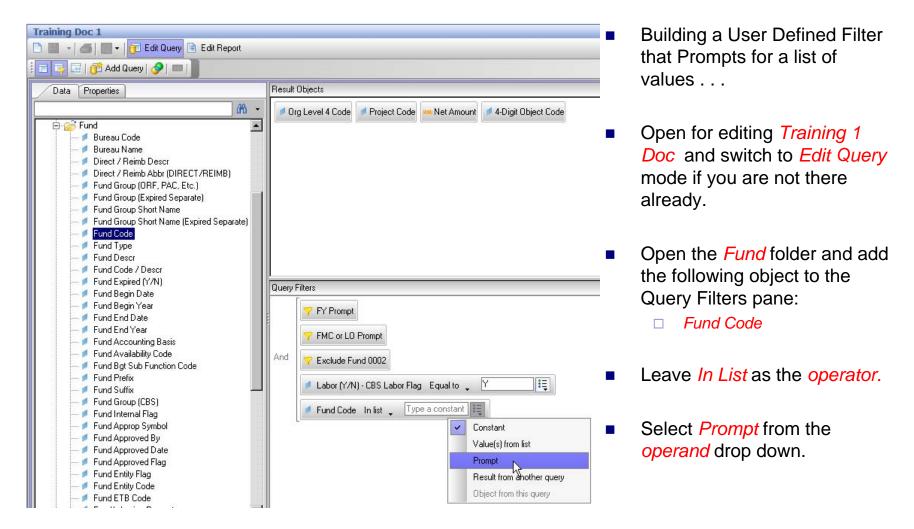
- Constant (default)
 - O Document builder will enter a specific value (e.g. Fiscal Year Equal To 2008)
- Value(s) from list
 - O Document builder will select values from a list of possible values for the object (e.g. Fiscal Year In List (2008; 2009)
- Prompt
 - O Document builder will enter text describing the type of value the <u>Document user</u> should enter at document runtime (e.g. Fiscal Year Equal To "Enter Fiscal Year")
- Result from another query (Any)
 - O Document builder will create an additional query to use as a filter for the main query.
- Object from this query
 - O Document builder will specify another object (e.g. Fiscal Year Equal To Fund Code Fiscal Year)

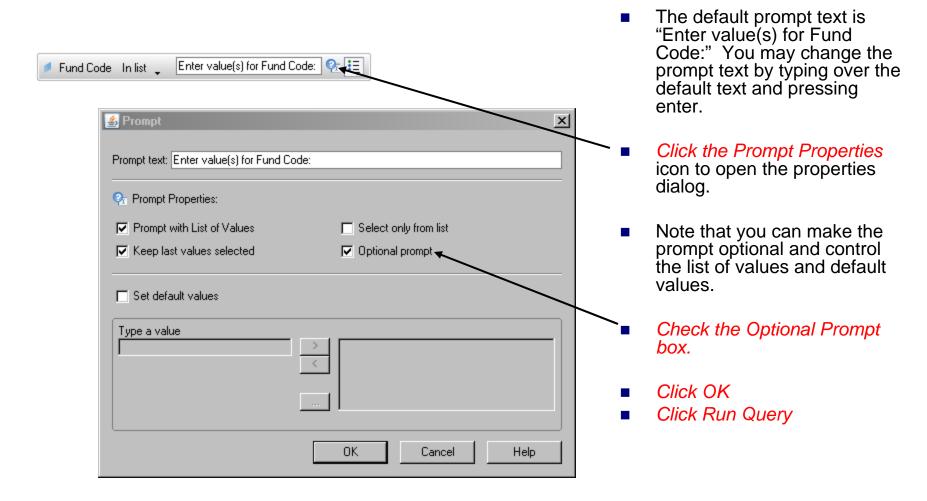


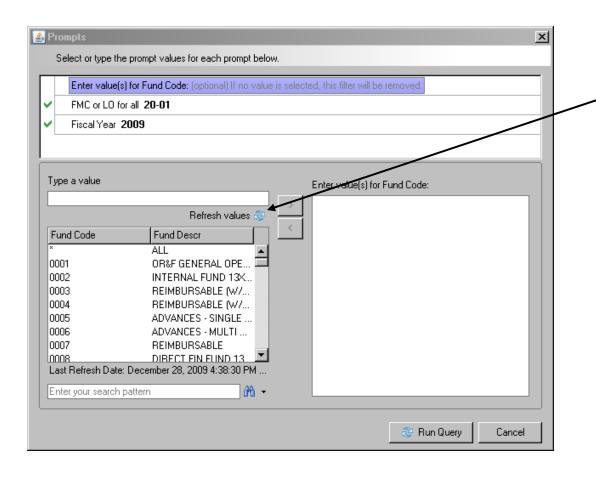
- Open for editing *Training 1 Doc* and switch to *Edit Query*mode, if you are not there
 already.
- Open the Record Flags folder and add the following object to the Query Filters pane:
 - □ Labor (Y/N) CBS Labor Flag
- Drop down the list of operators
 - □ Select equal to
- In the operand box the default is 'Type a constant'
 - □ Type Y
- Click Run Query
- Click Save



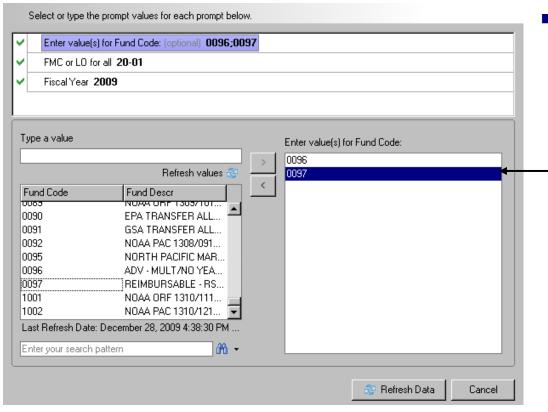
- Note that the report no longer contains object codes that are not labor.
- Click Save



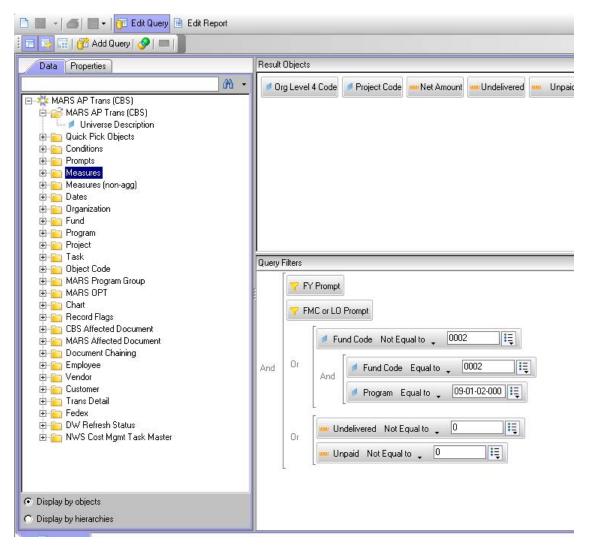




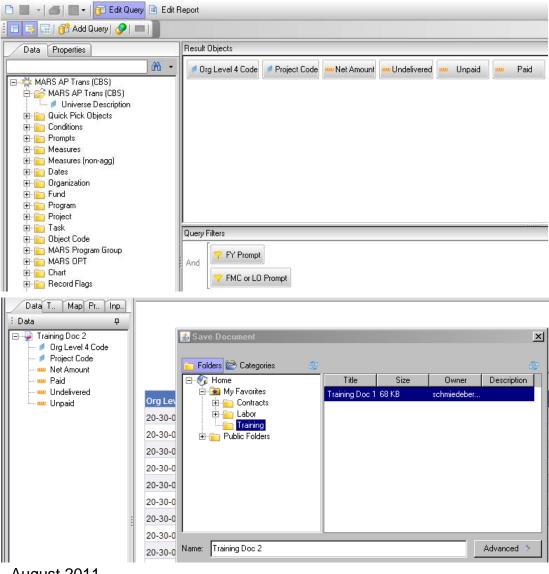
- When the query is run, the prompt box will be displayed.
- If the List of Values does not appear, click Refresh Values.
- With the new optional prompt you can either
 - Not select any funds
 - Select one fund
 - Select multiple funds
- Note the "*" for All will not work with a User Defined Prompt. If you want all funds, do not select any funds.
- Do not select any funds
- Click Run Query
- Click Save



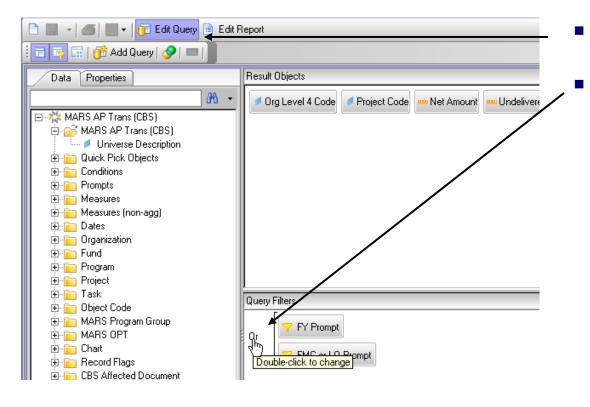
- Each time you run this query, you may choose to
 - select all funds by leaving the fund prompt blank
 - or pick particular funds you are currently analyzing



- Filters are joined together with AND and OR conjunctions.
- The AND operator requires that both filters/filter groups be true.
- The OR operator requires that either filter/filter group be true.
- Groups of filters can be prioritized to be evaluated before other filters. This is designated by right indentation.

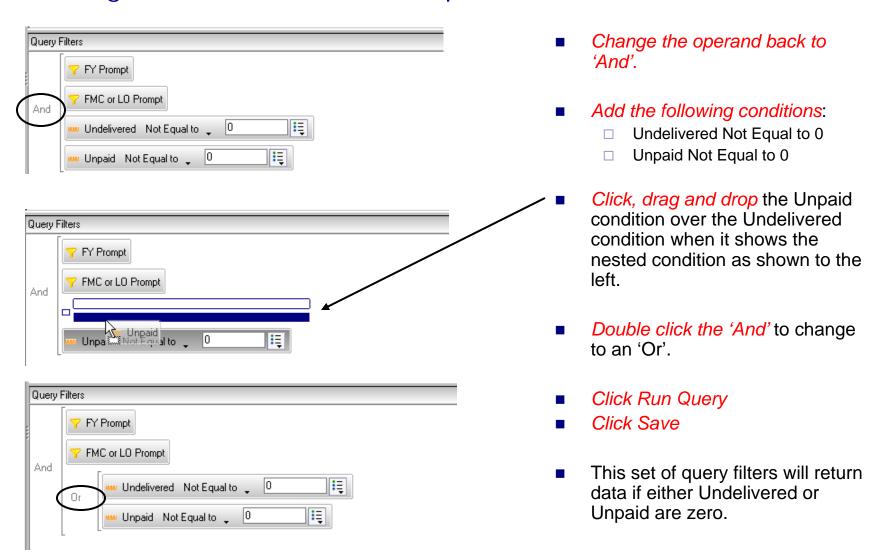


- Create a new WebIntelligence document using the MARS AP Trans (CBS) universe.
- Include the following objects:
 - Org Level 4 Code
 - Project Code
 - Net Amount
 - Undelivered
 - Unpaid
 - □ Paid
 - □ FY Prompt
 - ☐ FMC or LO Prompt
- Click Run Query
- Fill in prompts
- Click Save
- Name the document Training Doc 2



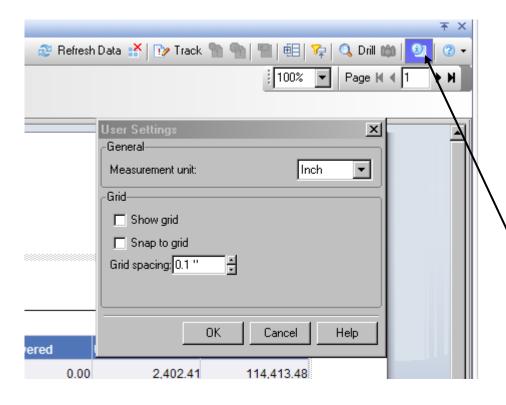
Go to the *Edit Query* panel.

Practice changing the 'And' to 'Or' and back again by doubling clicking on it.



Part II – Report Formatting

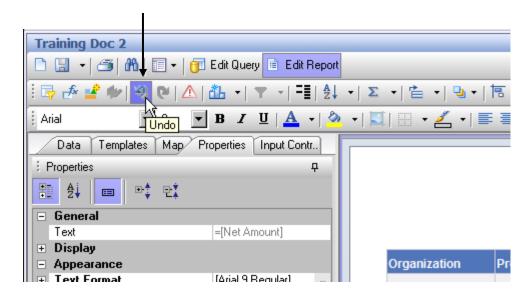
Report Formatting: WebIntelligence User Settings



- The following exercises will use 'Inch' as the measurement unit.
- The choices are:
 - □ Pixel
 - □ Inch
 - Centimeter
- You may change this setting again later to meet your individual needs.
- Open for editing Training 2 Doc.
- Click the Show User Settings button.
- Change the Measurement Unit to Inch.
- Click OK.
- This setting only needs to be changed once. It will apply to all new and saved documents for your user ID.

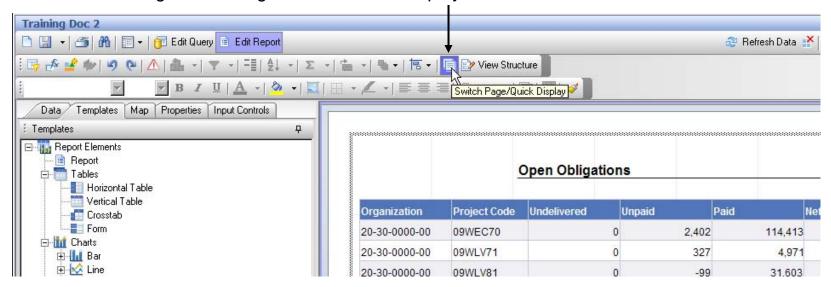
Report Formatting: Undo Formatting

- If you make a mistake while formatting a report, you can click the Undo button.
- Be sure to Undo before you save. Saving clears the undo cache.



Report Formatting: Page Mode / Structure Mode

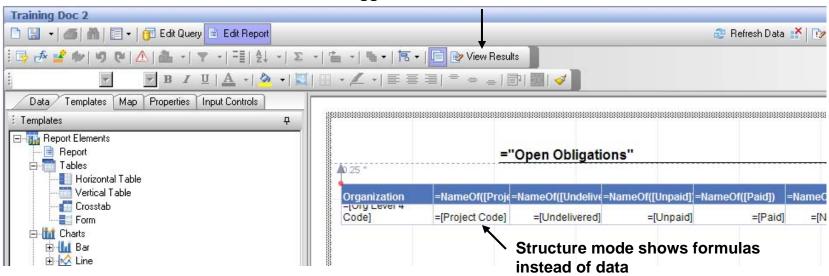
- Before we begin formatting, it is important to note the modes in which you may work on a report.
 - Page mode vs. Quick Display mode
 - View Results mode vs. View Structure mode
- Page mode vs. Quick Display mode:
 - Use Page mode to see how the report will look on the printed page.
 - Quick Display mode will show you more information on a page because there will not be any page breaks or margins displayed
 - ☐ Change to Page mode by clicking the Switch Page/Quick Display button.
 - ☐ The button will appear darker when Page mode is on.
 - □ Click again to change back to Quick Display mode.



Report Formatting: Page Mode / Structure Mode

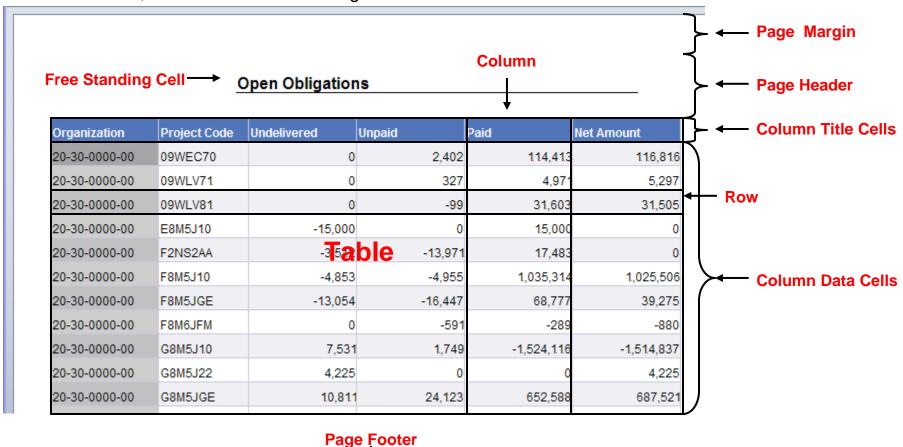
- View Results mode vs. View Structure mode:
 - □ View Results mode will show you the data from the query
 - ☐ Structure mode will show you formulas instead of data.
 - ☐ Use Structure mode to see clearly report headers, footers, sections and formulas.
 - ☐ Change to View Structure mode by clicking the *View Structure* button.
 - ☐ The button text will change to View Results when Structure mode is on.

Toggle View Results / View Structure



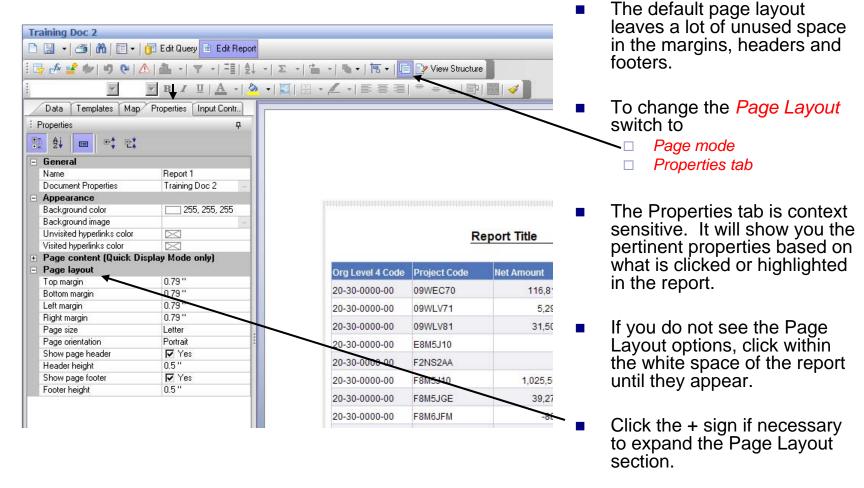
Report Formatting: Components of a Report

- Before we begin changing formats, it is important to understand the components of the report.
- It is especially important to understand that you sometimes must click on the Column Data Cell(s) rather than the Column Title Cell(s) in order to apply certain formats such as Breaks and Sections, which we will be covering later.

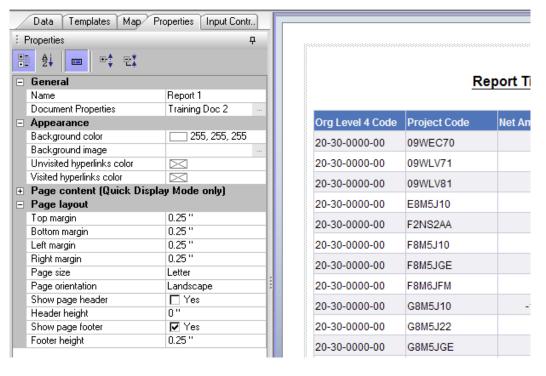


Page Footer

Report Formatting: Page Layout



Report Formatting: Page Layout



- Change the Page Layout settings as follows:
 - □ Top Margin 0.25"
 - Bottom Margin 0.25"
 - Left Margin 0.25"
 - ☐ Right Margin 0.25" ☐ Page size Letter
 - □ Page size Letter
 - Page orientation Landscape
 - Show page header UncheckHeader height 0"
 - Show page footer Check Yes
 - □ Footer height 0.25"
- The Measurement Unit for page margins should be in Inches if you have changed your User Settings as specified in the previous section.
- Click Save.

Report Formatting: Changing Column Titles

- Change the Column Titles by double clicking in the Org Level 4 Code Table Title cell.
- Change title to 'Organization" by typing over the text in the cell.
- Click Save.

Open Obligations

=NameOf([Org Level 4 Code]]		Net Amount	Undelivered	Unpaid	Paid	
Press Ctrl+Enter to show Formula Editor:		116,815.89	0.00	2,402.41	114,413.48	
20-30-0000-00	09WLV71	5,297.45	0.00	326.50	4,970.95	

Open Obligations

Organization	Project Code	Net Amount	Undelivered	Unpaid	Paid
20-30-0000-00	09WEC70	116,815.89	0.00	2,402.41	114,413.48
20-30-0000-00	09WLV71	5,297.45	0.00	326.50	4,970.95

Report Formatting: Moving Columns

- Move columns by clicking, dragging and dropping. WATCH THE TOOPTIPS!
- Move Net Amount after the Paid column. Click, drag and drop the column when the tooltip says 'Drop here to insert a cell'.
- Click Save.
- Note this technique can also be used to swap columns. The tooltip will read "Drop here to replace cell".

Open Obligations

Organization	Project Code	Net Amount	Undelivered	Unpaid	Paid		
20-30-0000-00	09WEC70	116,815.89	0.00	2,402.41	,		
20-30-0000-00	09WLV71	5,297.45	0.00	326.50	4,970 Dro	\(\frac{\dagger}{\text{v}} = [Net Amount] \\ \text{privere to insert a cell} \\ \text{Too}	ltip
20-30-0000-00	09WLV81	31,504.76	0.00	-98.50	31,603.26		•

Open Obligations

Organization	Project Code	Undelivered	Unpaid	Paid	Net Amount
20-30-0000-00	09WEC70	0.00	2,402.41	114,413.48	116,815.89
20-30-0000-00	09WLV71	0.00	326.50	4,970.95	5,297.45
20-30-0000-00	09WLV81	0.00	-98.50	31,603.26	31,504.76

Report Formatting: Deleting Columns

- To delete a column, *right click* on the column you wish to delete.
- Right click on the Project Code column.
- Right clicking opens a Shortcut Menu.

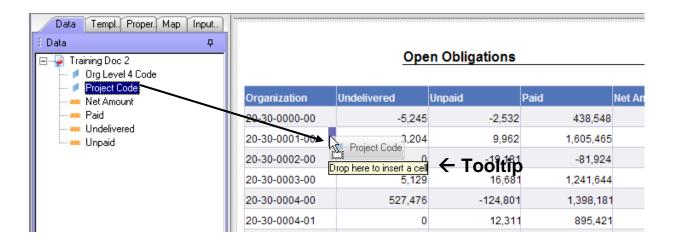
O---- Oblinetiese

- Select Remove / Remove Column.
- Click Save.

		0	pen Obligation	ons	•					
Organization	Project Code	е	Undelivered	U	npaid		Paid			Net Amount
20-30-0000-00	09WEC70			0		2,402		114	,413	11
20-30-0000-00	09WLV71	=	Set as Section			327		4	,971	
20-30-0000-00	09WLV81		Insert		<u> </u>	-99		31	,603	3
20-30-0000-00	E8M5J10		Copy as text			0		1.5	,000	
20-30-0000-00	F2NS2AA		Clear		•	-13,971		1.7	,483	
20-30-0000-00	F8M5J10		Remove		•	Remov	ve Row		,314	1,02
20-30-0000-00	F8M5JGE	ī,	Turn To			Remov	ve Column	N	777	3
20-30-0000-00	F8M6JFM	A	Format Text			Remov	ve Table	M	289	
20-30-0000-00	G8M5J10	f _x	Formula Toolbar			1,749	-1	1,524	,116	-1,51
20-30-0000-00	G8M5J22		Format		•	0			0	
20-30-0000-00	G8M5JGE		Hyperlinks		<u> </u>	24,123		652	,588	68
20-30-0000-00	G8M6JFM		Sort		•	538		1.4	,534	•

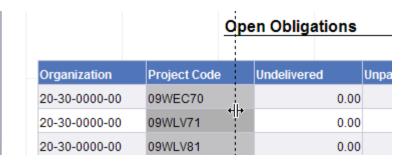
Report Formatting: Adding Columns

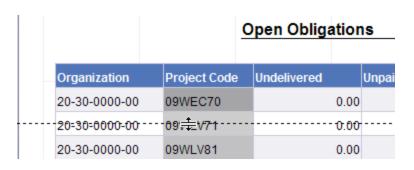
- If you add new objects to your query, they will not be automatically added to your report.
- Add columns from the Data Tab by clicking, dragging and dropping.
- Put the Project Code back in the report after the Organization column.
- Click and drag the column and drop when the tooltip says 'Drop here to insert a cell'.
- Click Save.



Report Formatting: Change Column Width / Row Height

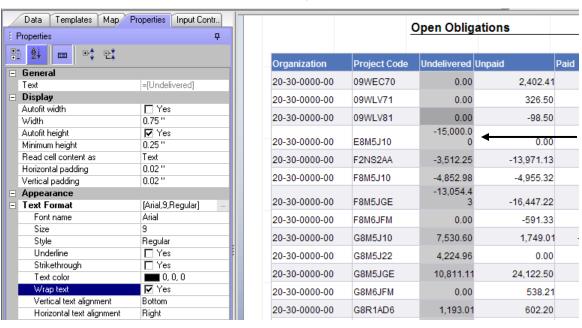
- There are two ways to change Column Width and Row Height.
 - 1) Click and drag to resize
 - 2) Change the properties by typing the desired size
- Practice changing the width and height of the Project Code column by clicking and dragging.





Report Formatting: Change Column Width / Row Height

- The standard for MARS Corporate Reports is to use the following settings:
 - □ Fixed column widths (each sized appropriately so all columns fit the page width)
 - □ Autofit height checked (minimum height of 0.17" 0.25" depending on font size)
 - Wrap text checked
- This standard ensures that the data does not go off the page as it might with Autofit widths. It also ensures that all data will be displayed even if the fixed width is not wide enough.
- The example below shows the standard settings and how it would impact the Undelivered column if it were not wide enough.



Text is wrapped and column height is adjusted

Report Formatting: Free Standing Cells

- Single cells that stand alone in a report
- Often used in headers and footers
 - Report Title
 - Page Number
 - Last Refresh Date
 - Logos/Images
 - User Responses to Prompts

Report Formatting: Changing the Report Title

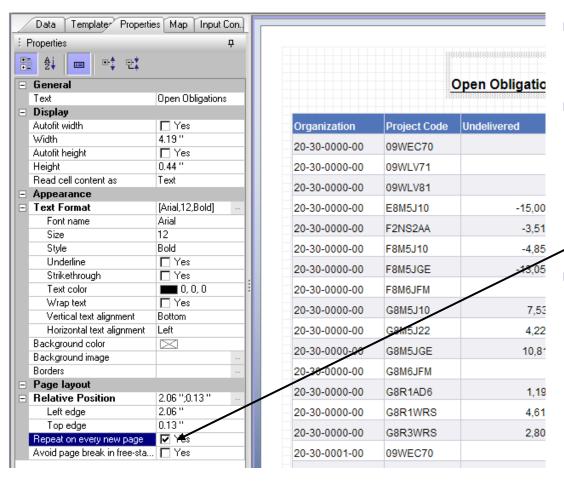
- Change the *Report Title* by double clicking in the *Free Standing Cell* containing the report title.
- Change the report title to 'Open Obligations".
- Click Save.



Open Obligations

Org Level 4 Code	Project Code	Net Amount	Undelivered	Unpaid	Paid
20-30-0000-00	09WEC70	116,815.89	0.00	2,402.41	114,413.48
20-30-0000-00	09WLV71	5,297.45	0.00	326.50	4,970.95

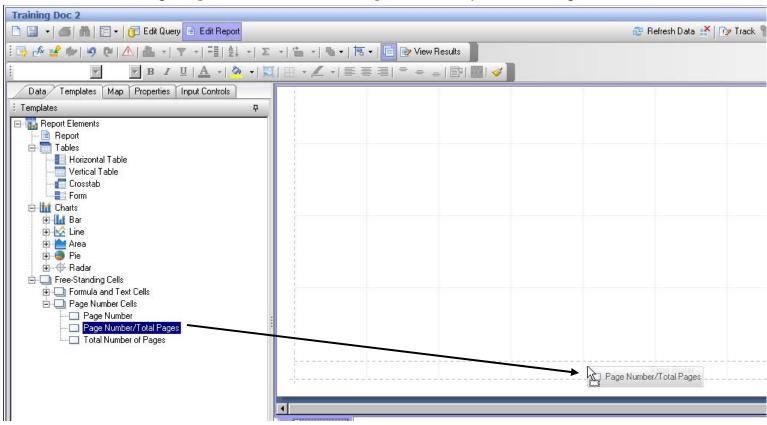
Report Formatting: Repeat on Every Page New Page



- Free Standing Cells like the Report Title will not repeat on every page by default.
- If you would like the title on every page
 - Highlight the title cell by clicking on it
 - Check the Repeat on every new page option in the properties tab
 - This setting should be considered each time you place a cill in the header of the report.

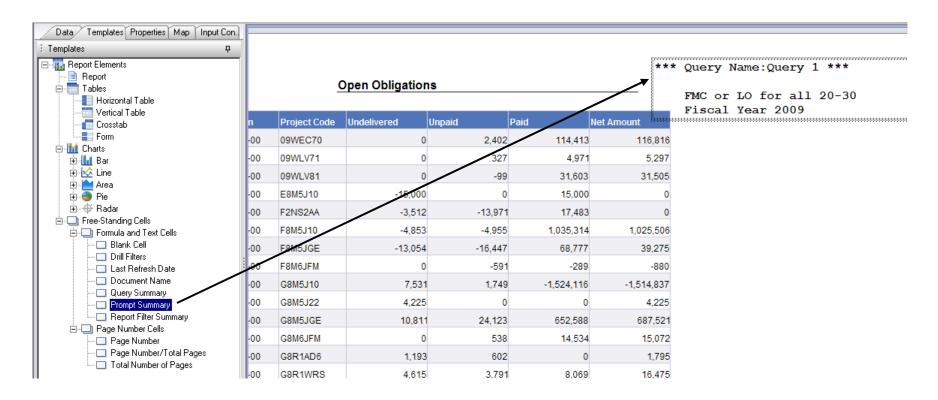
Report Formatting: Free-Standing Cell Templates

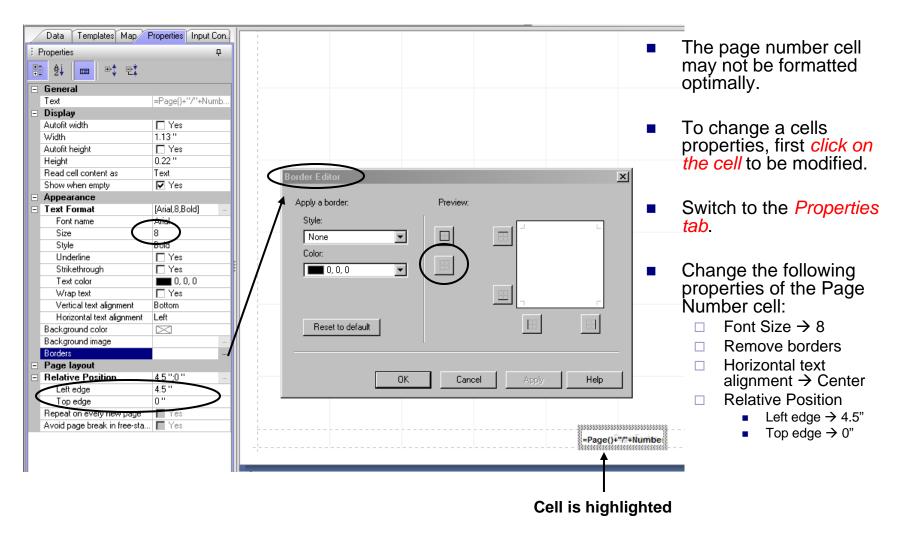
- Page Numbers can be added to the footer section of the page.
- It is easiest to see the footer section while in Page mode and Structure mode.
- Switch to Page mode and Structure mode.
- Scroll down to the bottom of the page to see the report footer.
- In the *Templates Tab*, open up the *Free-Standing Cells / Page Number Cells* folders.
- Click and drag Page Number / Total Pages and drop on the Page Footer.



Report Formatting: Free Standing Cell Templates

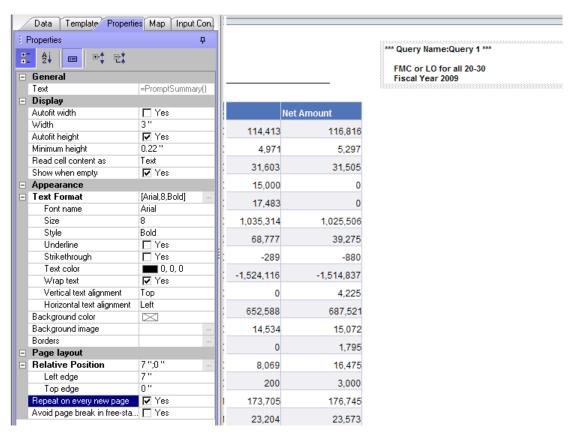
- The answers to the query prompts can be added to the heading of the report.
- In the *Templates Tab*, open up the *Free-Standing Cells / Formula and Text Cells* folders.
- Click and drag Prompt Summary and drop next to the report title.







- Much of the formatting you have been changing via the Properties tab, can also be changed via the Formatting Toolbar.
 - 1. Font
 - 2. Font size
 - 3. Bold
 - 4. Italicize
 - 5. Underline
 - 6. Font color
 - 7. Background color
 - 8. Background image
 - 9. Borders
 - 10. Border color
 - 11. Horizontal alignment
 - 12. Vertical alignment
 - 13. Wrap text
 - 14. Merge/Split Cells
 - 15. Format painter

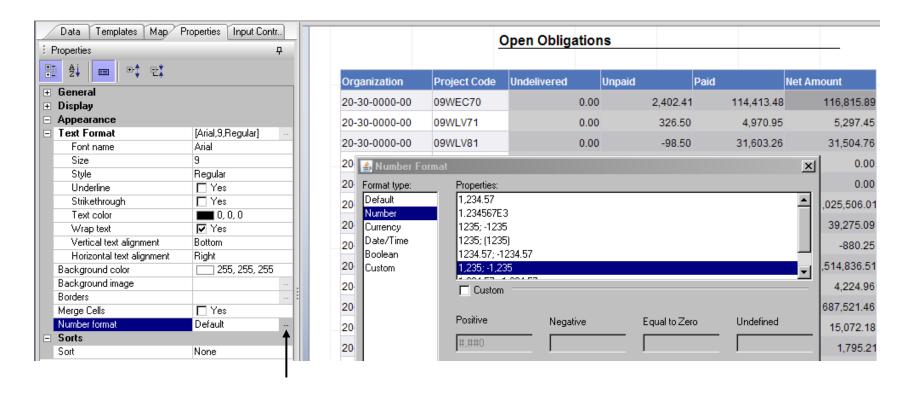


- The prompt summary cell may not be formatted optimally.
- To change a cells properties, first click on the cell to be modified.
- Use the Formatting Toolbar to change the following cell properties:
 - □ Font → Arial
 - □ Font Size → 8
- Use the Properties tab to change the following cell properties:
 - □ Width \rightarrow 3"
 - Relative Position
 - Left edge → 7"
 - Top edge → 0"
 - Check Repeat on every new page
- This cell would extend past the right margin if these settings were not adjusted.
- Click Save

- Formatting changes can be made to multiple columns at one time.
- Hold down your CTRL key and single click on the cell(s) you would like to format.
- Single click on the data cells in the Undelivered column so that it is highlighted.
- Hold CTRL key and click on the data cells in the Unpaid, Paid and Net Amount columns.

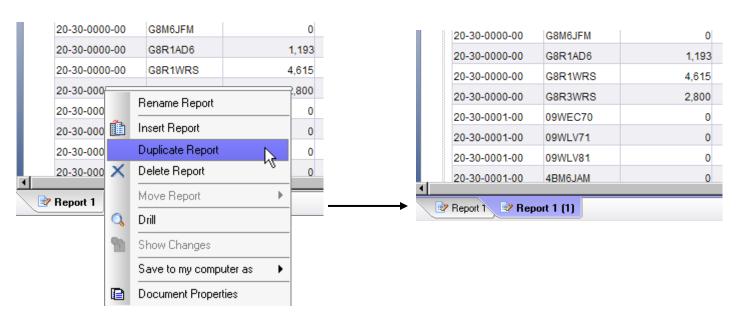


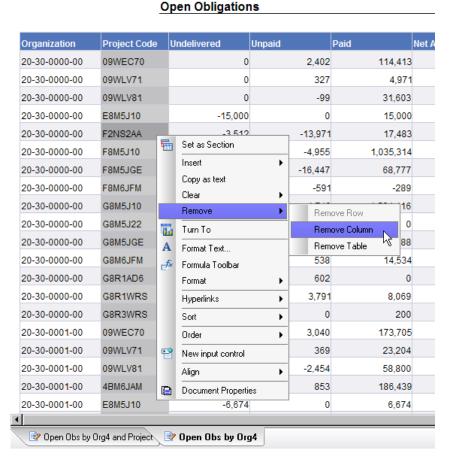
- Once all cells have been highlighted, any properties changed will impact all selected cells.
- To change the Number Format click "..." next to the Default setting.
- From the Number Format dialog select the 1,234;-1,234 format which will show the number without the decimals.
- Click OK.
- Click Save.



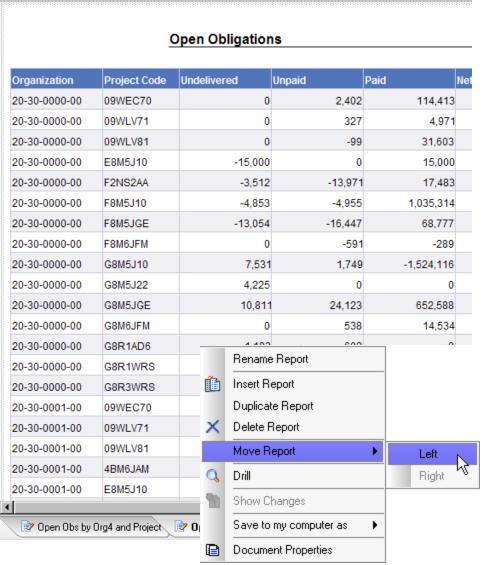
- Report Tabs allow you to present the data from the report query or queries in a variety of formats.
- When a report is refreshed, all the report queries are run at once and all the report tabs are updated with the new data.
- Each report tab could show similar information but at a different level of detail.
- Each report tab could be identical in formatting, but differ in the filters that are applied.

- Similar to an Excel worksheet, a Web Intelligence document can have multiple reports (aka tabs).
- Frequently new report tabs are created by duplicating an existing tab.
- To create a copy of Report 1, *right click on the Report 1 tab*.
- From the Shortcut Menu, select Duplicate Report.





- To rename the Report Tabs, right click on the Report and select Rename Report.
- Change the names as follows:
 - □ Report 1 → Open Obs by Org4 and Project
 - □ Report 1(1) → Open Obs by Org4
- Remove Project Code from the Open Obs by Org4 tab
 - right click on the data in the project code
 - select Remove / Remove Column from the Shortcut Menu
- Now you have an additional tab with the data summarized by Org4.
- Click Save



- In addition to Rename, the other Report Tab functions are:
 - □ Insert
 - Duplicate
 - Delete
 - Move (Left / Right)
- Try moving a Report. Right click on the Report Tab and select Move Report / Left.
- Click Save.

Advanced Report Formatting

Breaks

 Used to group report data within a table and provide a header and footer for each break value. The footer is used for placing sums and other calculations.

Sections

 Used to split report information into smaller, more comprehensible parts. Sections generate a navigation map used to jump from one section to another.

Calculations

 Calculations such as sum, min, max, average, percent can be applied to tables, breaks and sections.

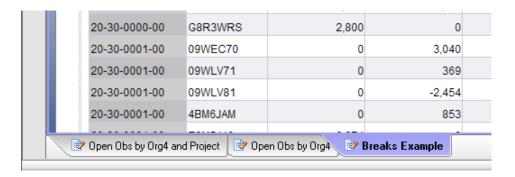
Sorts

 Apply sorts to the values displayed in tables, breaks or sections. Sort in ascending, descending or customized sort order.

Cross-Tabs (Pivot Tables)

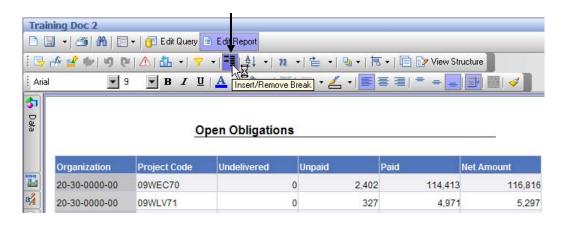
 Crosstabs display values for dimensions across the top axis and on the left axis. The body displays the values of a measure that correspond to the cross-section of the dimensions.

Advanced Report Formatting: Breaks



- Open for editing *Training Doc 2*.
- Duplicate the first tab to create a tab where you can practice applying Breaks.
- Switch to the Open Obs by Org4 and Project tab.
- Right Click on the tab name to open the Shortcut menu.
- Click Duplicate Report.
- Right Click on the tab name to open the Shortcut menu.
- Click Rename Report.
- Change the name to Breaks Example.
- Click Save.

Advanced Report Formatting: Breaks

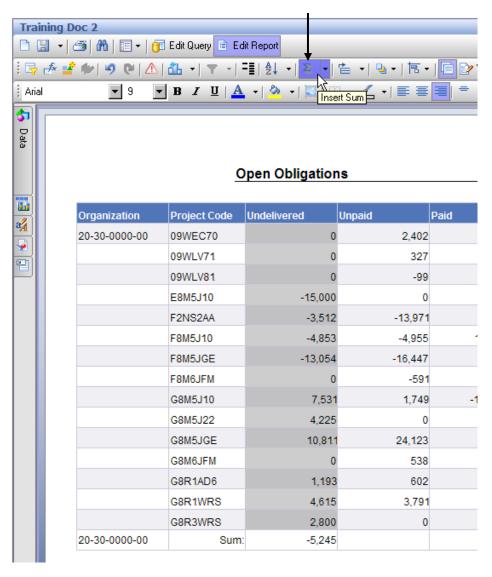


Net Amount Organization Project Code Undelivered Unpaid Paid 20-30-0000-00 0 2,402 114,413 09WEC70 116,816 09WLV71 327 0 4.971 5.297 09WLV81 -99 31.505 31,603 -15.000 15.000 E8M5J10 F2NS2AA -3.512 -13.97117,483 F8M5J10 -4.853 -4.955 1.035,314 1.025.506 F8M5JGE -13.054 -16.447 68,777 39.275 0 F8M6JFM -591 -289 -880 G8M5J10 7,531 1.749 -1.524.116 -1.514.837 G8M5J22 4,225 4,225 G8M5JGE 10,811 24,123 652,588 687,521 G8M6JFM 0 538 14,534 15,072 G8R1AD6 1.193 602 0 1.795 3,791 G8R1WRS 4,615 8,069 16,475 G8R3WRS 2.800 200 3.000 20-30-0000-00

- Switch to the Breaks Example tab.
- To apply a Break to the Organization column, click on the column data in the Organization column.
- Click the Insert / Remove Break button.
- Notice the following changes:
 - Header is repeated for each change in the break value
 - □ Break values are suppressed
 - Break Footer is added
- Click Save.

Break footer

Advanced Report Formatting: Breaks w/Calculations



- Switch to the Breaks Example tab.
- To apply a Sum in the Break Footer, click on the data cells in the Undelivered column.
- Click the *Insert Sum* button.
- Notice the Sum has been placed in the Break Footer.
- Continue to insert Sums on the Unpaid, Paid and Net Amount columns.
- Scroll down to the last page and note that a Table Footer has been created with a Sum for all Organizations.
- Click Save.

Advanced Report Formatting: Sections

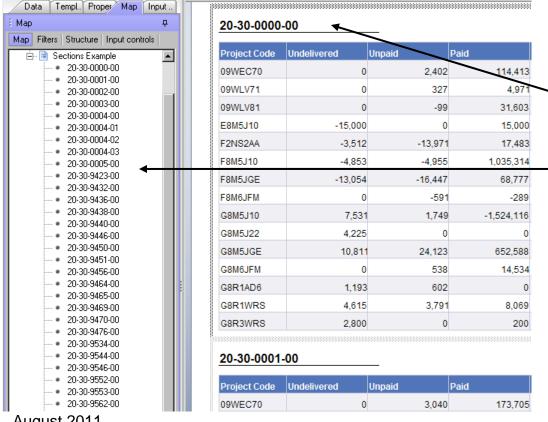


- Duplicate the first tab again to create a tab where you can practice applying Sections.
- Rename the new tab Sections Example.
- Click Save.

Advanced Report Formatting: Sections



- Switch to the Sections Example tab.
- To apply a Section to the Organization column, right click on the data cells in the Organization column to open the shortcut menu.
- Select Set as Section.
 - Notice the following changes:
 - The Sectioned values is moved outside of the table into a Free Standing Cell
 - A Navigation Map is generated
- If you would like the Free Standing Cell for the Section to display on every page, be sure to check the Repeat on every new page option in the properties tab.
- Click Save.



August 2011

Advanced Report Formatting: Sections w/Calculations

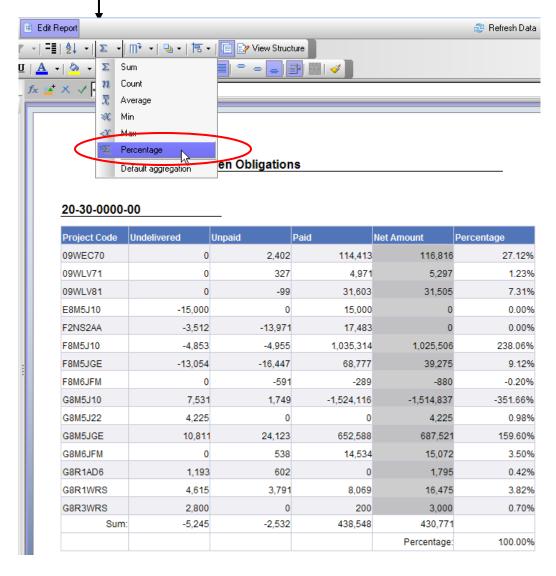


20-30-0000-00

Project Code	Undelivered	Unpaid	Paid	Net Amount
09WEC70	0	2,402	114,413	116,816
09WLV71	0	327	4,971	5,297
09WLV81	0	-99	31,603	31,505
E8M5J10	-15,000	0	15,000	0
F2NS2AA	-3,512	-13,971	17,483	0
F8M5J10	-4,853	-4,955	1,035,314	1,025,506
F8M5JGE	-13,054	-16,447	68,777	39,275
F8M6JFM	0	-591	-289	-880
G8M5J10	7,531	1,749	-1,524,116	-1,514,837
G8M5J22	4,225	0	0	4 225
G8M5JGE	10,811	24,123	652,588	687,521
G8M6JFM	0	538	14,534	15,072
G8R1AD6	1,193	602	0	1,795
G8R1WRS	4,615	3,791	8,069	16,475
G8R3WRS	2,800	0	200	3,000
Sum:	-5,245	-2,532	438,548	430,771

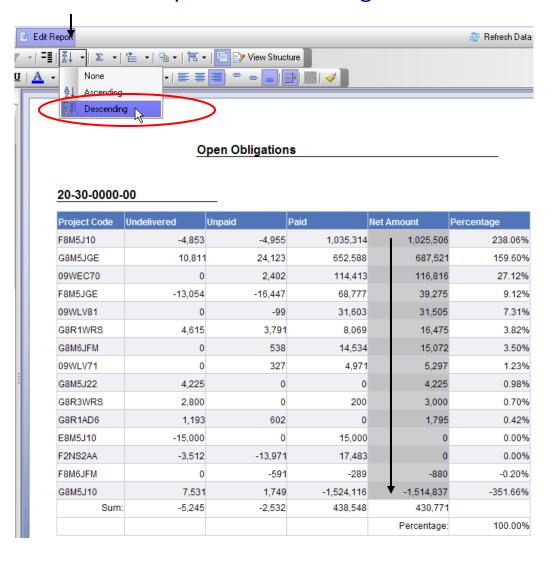
- Switch to the Sections Example tab.
- To apply a Sum at the bottom of each section, click on the data cells in the Undelivered column.
- Click the *Insert Sum* button.
- Notice the Sum has been placed in the Table Footer cell.
- Continue to insert Sums on the Unpaid, Paid and Net Amount columns.
- Click Save.

Advanced Report Formatting: Sections w/Calculations



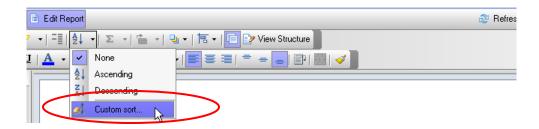
- Switch to the Sections Example tab.
- To show the Percentage of a measure, click on the data cells in the Net Amount column.
- Click the down arrow next to the *Insert Sum* button and select *Percentage*.
- Notice the Percentage has been placed next to the Net Amount and 100% in the Table Footer cell.
- Also available are Count, Average, Min and Max.
- Click Save.

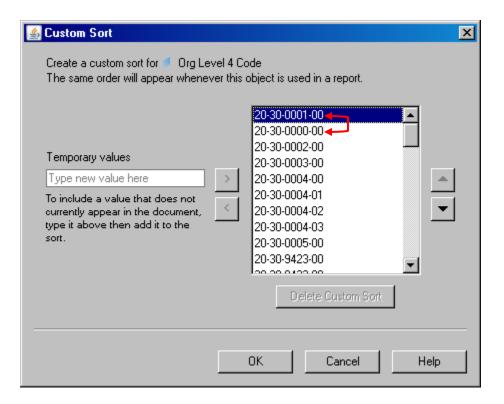
Advanced Report Formatting: Sorts



- Switch to the Sections Example tab.
- By default, the data in a Table is sorted by the Dimensions in the table from left to right. In this case the report is sorted by Project Code.
- You may override the default sort. For example, you may wish to have the rows with the largest Net Amount appear at the top of the table.
- Click in the data cells of the Net Amount column.
- Click the down arrow next to the Sort button. Select Descending.
- Notice the data is now sorted in Descending order by Net Amount.
- Click Save.

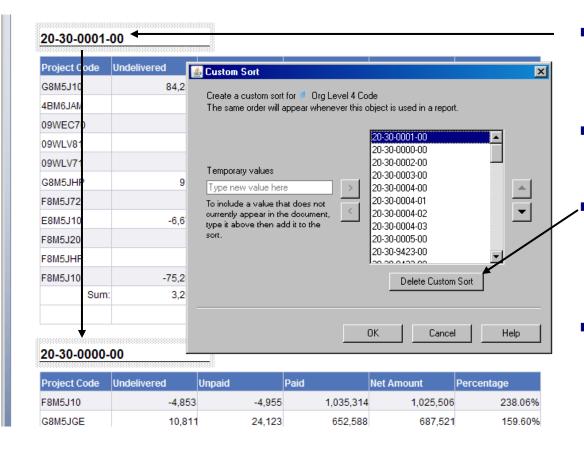
Advanced Report Formatting: Sorts





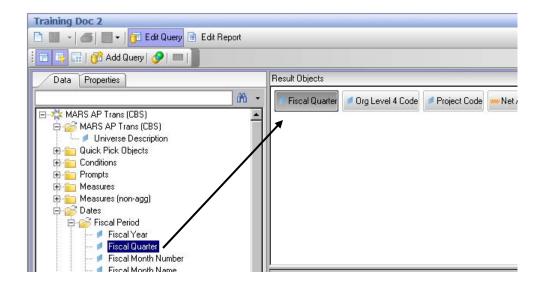
- In addition to Ascending and Descending, you can create a Custom Sort. For example, you may want to see all Organizations, but always have your Organization show at the top of the list.
- Click in the data cells of the Organization section cell.
- Click the down arrow next to the Sort button. Select Custom.
- From the Custom Sort panel you can use the up and down arrows to move the values around in any order. For this exercise move the second value to the first position.
- Click OK. Click Save.

Advanced Report Formatting: Sorts



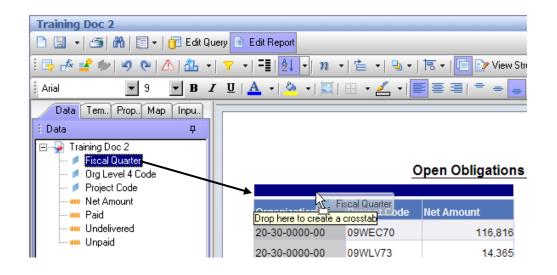
- Note that the first two Organizations are now switched on the report.
- Custom Sorts are applied to all report tabs.
 - To *remove* a Custom Sort you must go back to the Custom Sort panel and click the *Delete Custom Sort* button.
- Simple Ascending and Descending sorts are only applied to the report tab they are applied on.

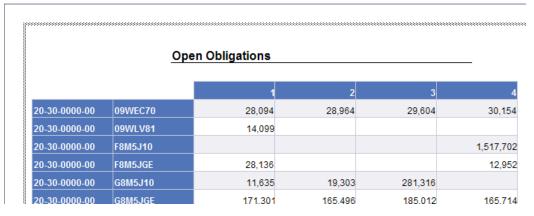
Advanced Report Formatting: Cross-Tabs



- Cross-Tab reports are similar to Microsoft Excel Pivot Tables.
- In this example you will cross-tab by Fiscal Quarter.
- You must first add Fiscal Quarter to the Query.
- Open Training Doc 2.
- Edit Query.
- Open the Dates / Fiscal Period folder.
- Drag and drop Fiscal Quarter to the Results panel.
- Click Run Query.
- Click Save.

Advanced Report Formatting: Cross-Tabs





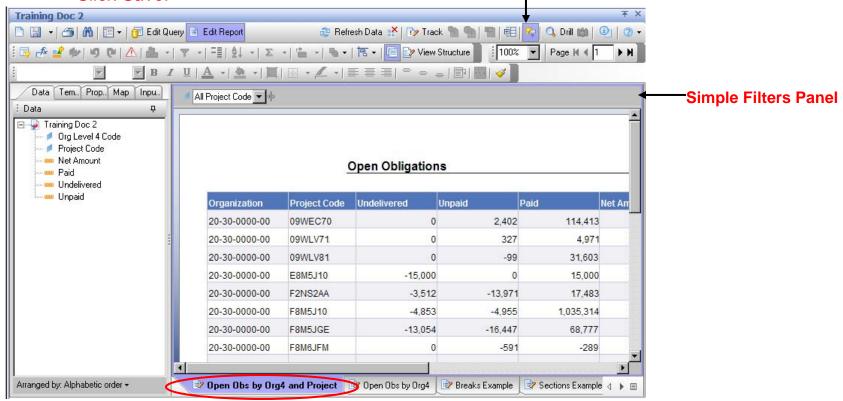
- Duplicate the first tab and call the new tab Cross-Tab Example.
- Remove the following columns from the table leave only Organization, Project Code and Net Amount:
 - □ Undelivered
 - Unpaid
 - □ Paid
- Click and drag the Fiscal Quarter object and drop it above the table title.
- Wait until you see the Tooltip that says "Drop here to create a crosstab".
- Click Save.

Analytical Features

- Simple Filters
- Complex Filters
- Fold / Unfold
- Input Controls
- Data Tracking

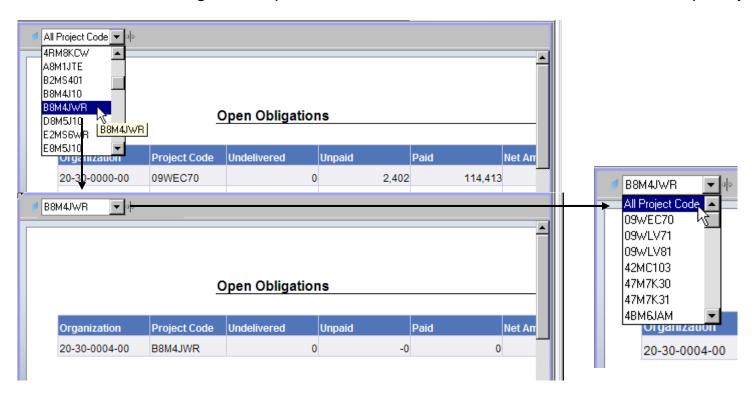
Analytical Features: Simple Filters

- Switch to the Open Obs by Org4 and Project tab.
- Click the Show/Hide Report Filter Toolbar.
- Drag and drop the Project Code object into the Simple Filters panel.
- Click Save.



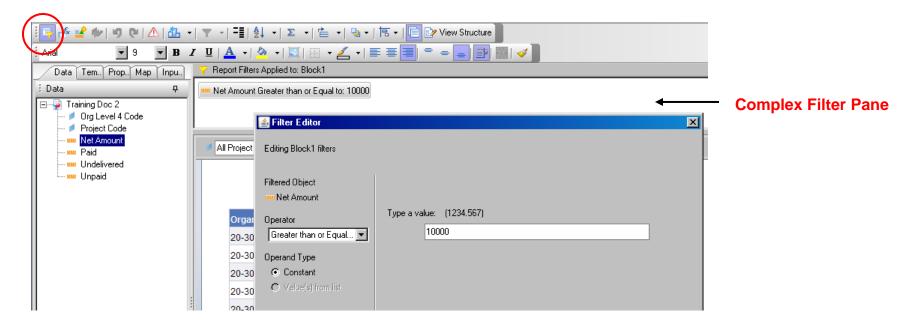
Analytical Features: Simple Filters

- Select a Project from the drop down list.
- Select *All Project Code* from the drop down list to show all Projects.
- Click and drag and drop the filter into the Data Tab to delete the filter completely.

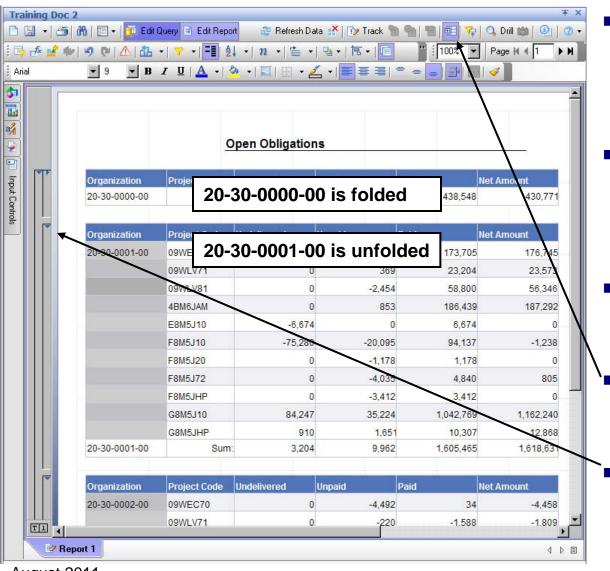


Analytical Features: Complex Filters

- For more complex filter conditions, click the Show/Hide Filter Pane button.
- Click and drag the object to base the filter on into the Filters pane and the Filter Editor will open.
- In this example, drag Net Amount to the Filters pane.
- Select Greater than or Equal to as the Operator and 10000 as the value.
- Click Save.



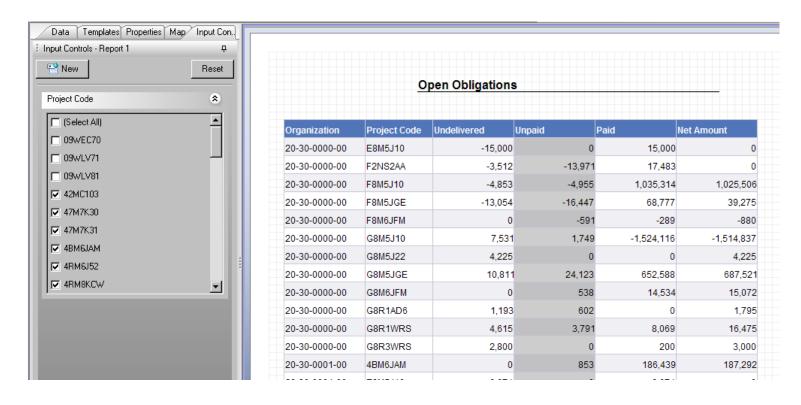
Analytical Features: Fold / Unfold



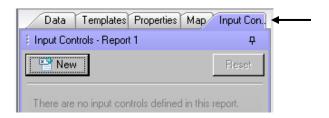
- If you don't need to see the detail rows within certain sections of your report you can use the Fold / Unfold toolbar.
- When a table or break is folded, the rows are concealed and headers and footers only are displayed.
- Tables must have headers and footers to be folded and unfolded.
 - To turn on the *Fold / Unfold* toolbar click this button.
 - To fold a break, first click within the table, then *click the arrows* in the toolbar to the left.

Analytical Features: Input Controls

Input controls provide a convenient, easily-accessible method for filtering and analyzing report data. You define input controls using standard windows controls such as text boxes and radio buttons. You associate these controls with report elements such as tables or section headers, and use the controls to filter the data in the report elements. When you select values in the input control, Web Intelligence filters the values in the associated report elements.

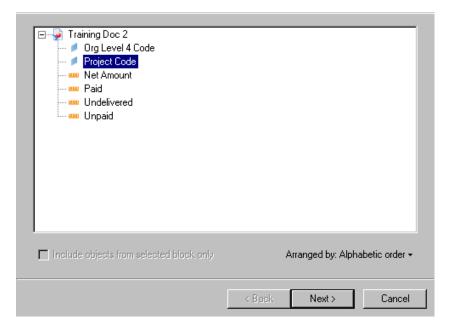


Analytical Features: Input Controls



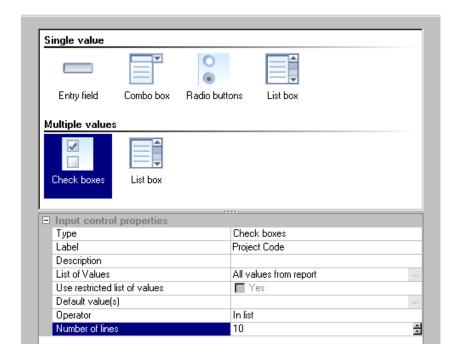
Select Report Object

Select the report object assigned to the input control

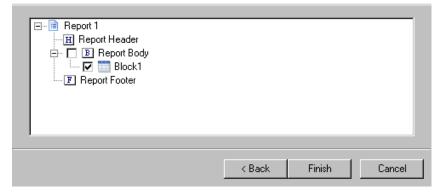


- To create an input control, switch to the *Input Control* tab.
- Click New
- Select an object to be assigned to the input control.

Analytical Features: Input Controls



- First decide if the control will allow a Single Value or Multiple Value.
- Second pick a Control Type.
- The example on the previous page used a Multiple Value Check Box.



 Finally, determine which Report Elements the Input Control will apply to.

Analytical Features: Data Tracking

- When you track data changes, you select a particular data refresh as a reference point. When you display the data changes on subsequent report refreshes, Web Intelligence places your current data in context by showing how it relates to the reference data.
- To turn on Data Tracking, click the *Track* button.
- Determine if you want the reference data to be updated with each refresh, or to use a particular refresh date a fixed reference point.
 - Check Refresh Now to see changes.

 Edit Refresh Data Track

 Activate Data Tracking

 Set the reference data for data tracking

 Auto-update the reference date with each data refresh

 Use the current data as reference data (data on December 28, 2009 4:54:59 PM GMT-05:00)

 You need to refresh the document to see changed data

 Refresh now

 More Information

 Use this dialog box to set the reference data for data tracking.

Analytical Features: Data Tracking

- You can control the Data Tracking Options:
 - Insertions
 - Deletions
 - Changes
 - Increased Values
 - Decreased Values

