EXAGO User Guide Version v2015.1

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About

This application is a powerful yet easy-to-use reporting tool. It runs in your web browser and does not require any downloads.

Supported Browsers

Supported browsers include:

- Firefox 3+
- Internet Explorer 8+
- Google Chrome
- Safari

Navigation

This application consists of two sections. On the left is the **Main Menu** and on the right are **Tabs**. The Main Menu displays the available reports, folders and buttons. Tabs can contain the new report wizard, report outputs, design windows, or help pages.

Main Menu					Tabs			
0 5	Number of Sales	by Employee Chart		tandard Repo	rt	and the second		1.111
Q [].	Employees	• 0-	B +	🕄 🥒 Arial	▼ ≡ :	≑ ≟ I 🗔 🔲 Σ 🛛	fx III O US	
🗐 😧 🎌 -	Address BirthDate	0.	53	B I U		≣≡∎!⊋ ⊫∎		
Financial Holdings Reports	City	Deta	Section	1	A (LastName)	B (Region)	C (Quantity)	
Retail Customers Reports	Country EmployeeID	Country		2	Employees.LastName	Employees.Region	n ={OrderDetails.Quantity}* {OrderDetails.UnitPrice}	
 Sales Reports Number of Sales by Employee C Seasonal Reports University Student Reports Wholesale Customer Reports 	HomePhone LastName Notes Photo PhotoPath PostalCode Region ReportsTo Title Title TitleOfCourtesy	Rep 4 4	ort Footer	3	Item 2 Item 3 Item 4	10 20	30 40 50	
mber of Sales by Employee art Description								

Main Menu

Through the main menu you can:

• Create new reports.



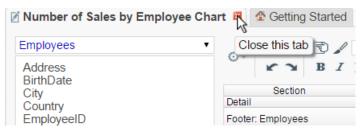
- Search for reports.
- Read report descriptions.
- Generate reports as HTML, Excel, CSV, RTF and PDF.
- Duplicate reports to save time setting up reports that are similar.
- Edit reports.
- Delete reports that are not needed
- Schedule reports to be emailed.
- Manage folders and report storage.

Click the arrows () to hide the main menu. These arrows are located between the main menu and the tabs.

Tabs

The right section is made up of tabs containing the new report wizard, reports outputs, design windows, or help pages.

Tabs can be closed by clicking the 'x' to the right of the tab name.



Tabs can also be rearranged by clicking and dragging them as desired.

Employee Information thing S	tarted	
Employees •	0-	
Address BirthDate City	0*	Sec.

Types of Reports

This application has three types of reports.



- **Express Reports** This simplified report designer enables you to quickly build reports with basic layouts and calculations. For more information see **Express** Reports.
- **Standard Reports** – This type of report uses an intuitive grid to layout data and labels. Standard reports can provide more complex sections to group data and make specialized calculations. For more information see **Report Designer**.
- **Crosstabs Reports** Crosstab reports utilize the Standard Report Designer but the report may expand both horizontally and vertically based on data. For more information see **CrossTabs**.

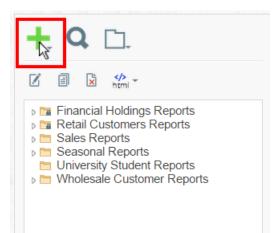
88

• **Dashboards** – An HTML canvas to combine and display reports, data visualizations, images, text and web pages. For more information see **Dashboards**.



Creating New Reports

To create a new report, click the New Report Button. This will launch the **New Report Wizard** in a new tab.

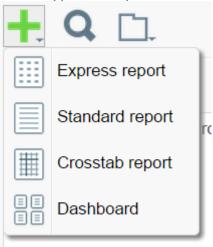


The New Report Wizard has five sub tabs. Only the Name and Categories tabs are required.

1. Name: Give the report a title and specify a folder for the report and add an optional description to display in the Main Menu.

- 2. Categories: Select the Data Categories you want to access on the report.
- 3. Sorts: (optional) Select the Data Fields you want to sort by.
- 4. Filters: (optional) Select the Data Fields you want to filter by.
- 5. Layout: (optional) Select the Data Fields you want to appear on the report.

Note: Depending on the permissions you've been given the New Report Button may open a dropdown menu to create different types of reports.





- Click the New Express Report Button (I) to create an express report. See **Express Reports**.
- Click the New Standard Report button () to create a regular report. See New Report Standard Wizard.
- Click the New CrossTab Report button ()) to create a CrossTab report. See New CrossTab Wizard.
- Click the New Dashboard button (III) to create a Dashboard. See Creating and Editing Dashboards.



New Standard Report Wizard

The New Standard Report Wizard is an interactive tool which will walk through the process of creating a new standard report. All of the selections made in the New Standard Report Wizard can be modified in the Report Designer after the report is created.

To navigate the wizard either click the desired tab or use the buttons at the bottom.

• New St	andard Repo	rt × (Setting	Started	*0
Complet	te the steps in	n the wi	zard belo	ow to cre	ate a new report
Name	Categories	Sorts	Filters	Layout	

🗶 Cancel < Previous Next > 🎘 Finish

The New Report Wizard has five sub tabs. The Name and Categories tabs must be completed while the other tabs are optional.

Name Tab

In the Name tab enter a report name and click on the Folder where the report will be saved.

The report name can be up to 255 characters. Avoid special characters such as ? : / \times " " < >.

The report's description appears at the bottom of the Main Menu when it is selected. The description text is also used when searching for a report.

Note: You cannot create a report inside a folder that is read-only (^{III}).

lame Categories Sorts	Filters Layout	
Enter the report name		
Select folder for the report		
Financial Holdings Rep		
 Retail Customers Report Sales Reports 	rts	
Seasonal Reports		
University Student Rep		
Wholesale Customer R	eports	
Fatas a dassainting for the second		
Enter a description for the report		

Categories Tab

In the Categories tab select the Data Categories that you would like to have access to on the report. It is important to understand two terms: Data Category and Data Field.

Data Category – A Data Category is a data object that has several attributes. Ex. Students is a category; each student has an ID, a major, an advisor etc.

Data Field – A Data Field is a single attribute within a category. Ex. Students.ID is the numeric value that identifies a specific student.



me	Categories	Sorts	Filters	La	yout		
elect c	ategories to include	e on report					
	Categories			*	Suppress Duplicates	Category Name	
	Customers					ors	×
	Employees EmployeeTerr					ts	×
	Region Shippers Suppliers Territories University Classes Enrollment Professors Students			•			
				0			

• To add a Data Category either drag and drop it to the 'Category Name' Column, use the 'Add' button or double-click it.

- To see what Data Fields are in a Data Category click the information button $(\mathbf{0})$.
- Check the 'Suppress Duplicate' button to suppress duplicate information from appearing on the report.
- To remove a Data Category click the delete button (\times).

Sorts Tab

In the Sorts tab specify which Data Fields will be used to determine the order of data on the report.

ame Categories	Sorts	Filters	Layout		
elect sort fields					
Students			· ·	Sort By	Sort Order
Advisor			Ţ	Students Last Name	Descending Ascending
EnrolledIn					Descending
First Name					~



• To sort by a Data Field either drag and drop it to the 'Sort By' Column, use the 'Add' button or double-click it.

- Use the up and down arrows to indicate the sort priority.
- You can sort each Data Field in ascending (A- Z) or descending (Z-A) order.
- To remove a sort click the delete button (\times) .

Filters Tab

In the Filters Tab create statements that will be used to filter the data when you run the report.

ame	Categories	Sorts	Filters	Layo	ut				
	Iter fields to inclu	de on rep	ort				Filter Du		
Stude	nts			•		\$ Students.Major	Filter By	++	×
ld	Name Name r				4 4 4	Equal To AND With Next Filter Group With Next Filter Prompt For Value	Chamistry		1
SUMM/							Human Rights and Italian Studies Italian Studies		
Studer	nts.Major = "						Literature Photography		

There is no limit to the number of filters that can be defined. Filters can be numeric (up to eight decimals) or alphanumeric.

- To filter a Data Field either drag and drop it to the 'Filter By' column, use the 'Add' button or double-click it.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times) .
- Set the operator (equal to, less than, one of, etc.) by selecting it from the operator drop-down.

• Set the filter value by either entering it manually or selecting a value from the dropdown. If the Data Field is a date the calendar and function buttons can be used to select a value.

• Select 'AND With Next Filter' to require that the selected filter and the one below it are both true. Choose 'OR With Next Filter' to require that either be true.

- Check 'Group With Next Filter' to indicate the precedence of the filters.
- Check 'Prompt for Value' to allow the filter to be modified at the time the report is executed.

Layout Tab

In the Layout tab select the Data Fields that will appear on the report. For each Data Field chosen, the report will automatically create a column header and place the Data Field in the detail section. Additionally, sub-totals, grand totals, and a page header/footer can be created.

Name	Categories	Sorts	Filters	L	ayout								
Select fi	ields to include on	report											
Stude	nts					Data Field			Summary Functio	n			
					Professors.Department Department Department						÷	÷	×
Advisor EnrolledIn First Name Id					1 Professors.Position fe No				None	•	÷	÷	×
					Students First Name				None	•	÷	÷	×
					Students Last Name Students Last Name						Ŧ	÷	×
Majo	dd				 Students Page Header 	er 🔲 Page Foot	er 🗐 Grand	то	otal				
		De	Department partment 1 partment 2 partment 3	nt	Position Position 1 Position 2 Position 3	First Name First Name 1 First Name 1 First Name 2	Last Name Last Name 1 Last Name 1 Last Name 2	e					

Display Data

• To place a Data Field on the report either drag and drop it to the 'Data Field' column, use the 'Add' button or double-click it.

• Use the up and down arrows to indicate the order the Data Fields should appear on the report. The Data Field at the top will appear on the report as the left most column.

- The Summary Function column is used to make sub-totals and grand totals. See **Sub-Totals and Grand Totals** for more information.
- To remove a Data Field click the delete button (\times) .

Using the 'Summarize By' box you can display sub-totals, grand totals or headers for each unique value of a Data Field.

Sub-Totals and Grand Totals

- To display sub-totals, check the box of the category you want sub-totals for in the Summarize By box. Then for each Data Field you want totaled select a Summary Function (see below).
- To display grand totals check the Grand Total box. Then for each Data Field you want totaled select a Summary Function (see below).

Summary Functions:

- Sum: Totals the all of the data in the Data Field.
- Count: Returns the number of rows in the Data Field.
- Average: Takes the mean of the data in the Data Field.
- Minimum: Displays the lowest value in the Data Field.
- Maximum: Displays the highest value in the Data Field.

Data Headers

A check box will appear in the Summarize By box for each Data Category in the **Sorts tab**. To display a header for each value of a Data Field click on the associated Data Category in the Summarize By box a Header Menu will appear.

- To include a Header check the box 'Include Header at the beginning'. In order to select the text that will appear as the header value, use the Header dropdown to select a Data Field or use the **Formula Editor** Button (f_{π}) to create a formula.
- Use the 'Summarize by each unique' dropdown to specify if the header should repeat based on a specific field or all the keys of a Category.
- Check the box 'Include Total at the end' to have a sub-total created for this Category.

Space	
Add space	e before each unique item
Header	
Include H	eader at the beginning
Header Text:	
Students Adv	visor 🔻 /c

Page Header

To display information on the top of each page, click 'Page Header' below the 'Summarize By' box. A Page Header Menu will appear.



Summarize By-			
Professors			
🔽 Page Header	🔲 Page Footer	Crand Total	

- Check the box 'Include Title at the top of every page' to display the name of the report on each page. If an image is also included, use the position dropdown to set where the title should appear and the number of columns it should span.
- Use the 'Change Image' button to upload an image to display at the top of each page. If a title is also included, use the position dropdown to set where the image should appear and the number of columns it should span.

 Title Include title at the top of every page 	
Position: Number of columns to span:	
Image Include image at the top of every page Position: Number of columns to span: Right I Change Image	No Image Selected

Footers

To display information on the bottom of each page, click 'Page Footer' below the 'Summarize By' box. A Page Footer Menu will appear.

Summarize By-		
Professors		
Page Header	V Page Footer	Crand Total

- Check the box 'Include page number at the bottom of every page' to display the page number on each page. If an image is also included, use the position dropdown to set where the page number should appear and the number of columns it should span.
- Use the Change Image button to upload an image to display at the bottom of each page. If the page number is also included, use the position dropdown to set where the image should appear and the number of columns it should span.



Page Number	ge
Position: Number of columns to span:	
Image Include image at the bottom of every page Position: Number of columns to span: Right I Change Image	No Image Selected

Preview

At the bottom of the layout tab a preview will display how the report will appear based on the fields that have been added. You can increase the size of the preview or hide it all together by dragging or clicking the resize button (

Number	of Students	Advised by	Professor
Department	Position	First Name	Last Name
Professors 1 Head	ier		
Department 1	Position 1	First Name 1	Last Name 1
Department 1	Position 1	First Name 2	Last Name 2
			Professors 1 Total
Professors 2 Head	ler		
Department 2	Position 2	First Name 3	Last Name 3
Department 2	Position 2	First Name 4	Last Name 4
			Professors 2 Total
Page Number			



S Finish

New CrossTab Wizard

The New CrossTab Wizard is an interactive tool which will walk through the process of creating a new report. All of the settings in the New Report Wizard can be modified in the Report Designer after the report is created.

To navigate the wizard either click the desired tab or use the buttons at the bottom.

< Previous

+ New C	rossTab Rep	ort ×		*0
Comple	te the steps i	n <mark>the w</mark> iz	ard below to create a new report	
Name	Categories	Filters	Layout	

The New Report Wizard has five sub tabs. The Name, Categories and Layout tabs must be completed while the other tabs are optional.

Next >

Name Tab

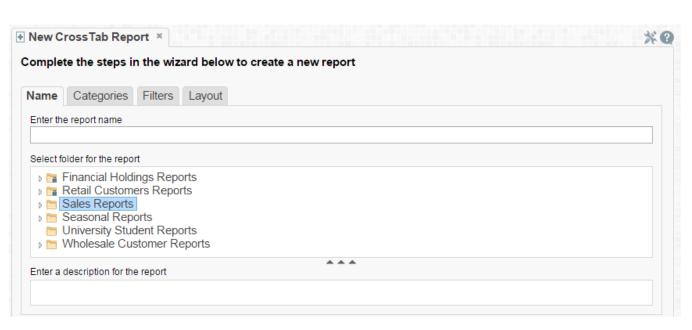
X Cancel

In the Name tab enter a report name and click on the Folder where the report will be saved.

The report name can be up to 255 characters. Avoid special characters such as ? : / \times " " < >.

A report's description appears at the bottom of the Main Menu when it is selected. The description text is also used when searching for a report.

Note: You cannot create a report inside a folder that is read-only ().



Categories Tab

In the Categories tab select the Data Categories that you would like to have access to on the report. It is important to understand two terms: Data Category and Data Field.

Data Category – A Data Category is a data object that has several attributes. Ex. Students is a category; each student has an ID, a major, an advisor etc.

Data Field – A Data Field is a single attribute within a category. Ex. Students.ID is the numeric value that identifies a specific student.

me Categori	es Filters	Layout			
elect categories to in	clude on report				
Categories		*	Suppress Duplicates	Category Name	
Customers				Students	>
Employees				Professors)
 Orders Products Region 					



- To see what Data Fields are in a Data Category click the information button $(\mathbf{0})$.
- Check the 'Suppress Duplicate' button to suppress duplicate information from appearing on the report.
- To remove a Data Category click the delete button (\times) .

Filters Tab

In the Filters Tab create statements to filter the data at runtime.

lame	Categories	Filters	Lay	/ou	t		
Select fi	Iter fields to includ	de on report					
Stude			•		Filter By Students.Major	+	
ld	ledIn Name Name				Equal To Image: Composition of the second state of the secon		X
	ld				Prompt For Value Human Rights Human Rights and Italian Studies		
🔶 Ad	ARY				Italian Studies		
SUMM	ts.Major = "				Literature		

There is no limit to the number of filters that can be defined. Filters can be numeric (up to eight decimals) or alphanumeric.

• To filter a Data Field either drag and drop it to the 'Filter By' column, use the 'Add' button or double-click it.



- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times) .

• Set the operator (equal to, less than, one of, etc.) by selecting it from the operator drop-down.

• Set the filter value by either entering it manually or selecting a value from the dropdown. If the Data Field is a date the calendar and function buttons can be used to select a value.

• Check 'Prompt for Value' to allow the filter to be modified at the time the report is executed.

• Select 'AND With Next Filter' to require that the selected filter and the one below it are both true. Choose 'OR With Next Filter' to require that either be true.

• Check 'Group With Next Filter' to indicate the precedence of the filters.

Layout Tab

In the Layout tab design the CrossTab by moving DataFields into the Row Header, Column Header and Tabulation Data panels.

ame (Categories F	ilters Layou	ut								
Orders			•		Row He	ader Source					
Custom Employe Freight	eelD		Categories.Ca Products.Prod						* Z		•
OrderD: OrderID Require ShipAdo	dDate			0.1.0.1.1	Column	Header Source					
ShipCity ShipCo ShipNar	/ untry		=Year({Orden =Month({Orde	s.OrderDate})							
Shipped ShipPos ShipReg ShipVia	stalCode gion		4 Orders Orderl		Tabulatio	on Data Source			× 12		
			Theme: Sa	ndstone	•				P	j Opi	ior
E	+111 +=						-				
•=	+ 111 + 111			OrderDate	Order	Date 1	Order	Date 2			
		joryName	ProductName	Provident and the state of the			107.000.201	T 671757 ST			
=	Categ	oryName oryName 1	ProductName 1	OrderDate			107.000.201	T 671757 ST			
	Categ			OrderDate	OrderDate 1	OrderDate 2	OrderDate 1	OrderDate 2			
+=	Categ	oryName 1	ProductName 1	OrderDate	OrderDate 1 48	OrderDate 2 24	OrderDate 1 96	OrderDate 2			

Row Headers



Row Headers expand a CrossTab vertically. A CrossTab has a row for each unique value of a Row Header. For example if you were using sales data you may have the Row Headers Category.CategoryName and Products.ProductName to provide rows for each product grouped by category (see image below).

- To add a Row Header either drag and drop it to the 'Row Header Source' panel or use the 'Add Row Header' button ($+\equiv$).
- Click the **Formula Editor** Button (f_x) to insert a formula into the Row Header.
- Click the Edit Header button (\square) to open the header options menu. In the Header Options Menu you can:
 - Set a Label for the Row Header. This label will appear at the top of the CrossTab.
 - Select a Sorting Method and direction.
 - None- Does not sort the Row Headers
 - Header Value (Text) Sorts the Row Header by its values as though they are text.
 - Header Value (Number) Sorts the Row Header by its values as though they are numbers.
 - Tabular Totals Sorts the Row Header by the totals of the Tabulation Data.

Note: If there is more than one Row Header the Header Options Menu for the top most Row Header will have Options for sub-totals of Tabulation Data.

- Select where to display subtotals by using the Placement dropdown.
 - None Does not display subtotals.
 - Top Displays subtotals above the Tabulation Data for each Row Header value.
 - Bottom Display subtotals below the Tabulation Data for each Row Header value.
- Set a label for the subtotals.
- Use the up and down arrows to rearrange the order of the Row Headers.
- To remove a Row Header click the delete button (\times) .



Header Options ×	
General Options	
Label	
CategoryName	
Sort Options	
Method Direction	
None Ascending	
V OK 🔀 Cancel	
yout	
Row Header Source	
Categories.CategoryName	f≠ 🚺 🕈 🕹

Column Headers

Column Headers expand a CrossTab horizontally. A CrossTab has a column for each unique value of a Column Header. For example if you were using sales data you may have the Column Headers 'Year({Order.OrderDate})' and 'Month({Orders.OrderDate})' to provide columns for each month grouped by year (see image below).

• To add a Column Header either drag and drop it to the 'Column Header Source' panel or use the 'Add Column Header' button (+III).

• Click the **Formula Editor**Button $(f_{\mathbf{x}})$ to insert a formula into the Column Header.

- Click the Edit Header button ($\ensuremath{\underline{\mathbb{M}}}$) to open the Header Options menu. In the Header Options Menu you can:

- Set a Label for the Column Header to appear at the top of the CrossTab.
- Select a Sorting Method and direction.
 - None- Does not sort the Column Headers
 - Header Value (Text) Sorts the Column Header by its values as though they are text.
 - Header Value (Number) Sorts the Column Header by its values as though they are numbers.



 Tabular Totals – Sorts the Column Header by the totals of the Tabulation Data.

Note: If there is more than one Column Header the Header Options Menu for the top most Column Header will have Options for sub-totals of Tabulation Data.

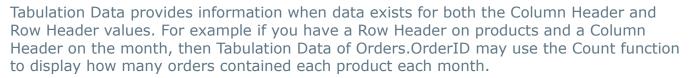
- Select where to display subtotals by using the Placement dropdown.
 - None Does not display subtotals.
 - Left Displays subtotals to the left of the Tabulation Data for each Column Header value.
 - Right Display subtotals to the right of the Tabulation Data for each Column Header value.
- \circ $\;$ Set a label for the subtotals.
- Use the up and down arrows to rearrange the order of the Column Headers.
- To remove a Column Header click the delete button (\times) .

He	ader Options
General Options	
Label	
Year	
Sort Options	
Method	Direction
Header Value (Number)) Ascending
Total Options Placement Label None Total	
🗸 ок	K 🗙 Cancel

Layout

	Row Header Source					
	Categories.CategoryName	fx.	Z	Ŧ	÷	>
	oducts.ProductName	fx.		Ŧ	÷	>
l						
	Column Header Source					
	Column Header Source =Year({Orders.OrderDate})	f _×	Ø	+	+	;

Tabulation Data



- To add a Tabulation Data either drag and drop it to the `Tabulation Data' panel or use the `Add Tabulation Data' button (+ \blacksquare).
- Click the **Formula Editor** Button (f_x) to insert a formula into the Tabulation Data.
- Click the Edit Tabulation button (\square) to open the Tabulation Options menu. In the Tabulation Options Menu you can:
 - \circ Set a Label for the Tabulation Row to appear at the beginning of each row.
 - $\circ~$ Use the Method dropdown to select the summary function to be applied to the Tabulation Data.
 - Sum: Totals the Tabulation Data.
 - Count: Counts the Tabulation Data.
 - Average: Take the mean of the Tabulation Data.
 - Minimum: Displays the lowest value in the Tabulation Data.
 - Maximum: Displays the highest value in the Tabulation Data.
 - None: Displays the value of the Tabulation Data without applying any formula.
 - $\circ\;$ Use the Value dropdown to select how the Tabulation Data should be displayed.
 - Aggregate: Display the result of the selected Method.
 - Percent of Row: Display the result of the selected method as a percentage of the row total.
 - Percent of Colum: Display the result of the selected method as a percentage of the column total.
- Use the up and down arrows to rearrange the order of the Tabulation Data.
- To remove a Tabulation Data click the delete button (\times) .



	Tabulation Options ×						
_(General Options						
L	Label						
	Tabulation Options						
	Method Value						
ſ	Count Aggregate						
	🗹 OK 🛛 💢 Cancel						
]					
0	ut						
o	ut Row Header Source						
01	Row Header Source Categories.CategoryName		ß	. 2	+	+	×
o	ut Row Header Source		j. j.		† †	++	×
o	Row Header Source Categories.CategoryName		f3 f3		† †	++	××
01	Row Header Source Categories.CategoryName		f: f3		†	++	××
o	Row Header Source Categories.CategoryName Products.ProductName Column Header Source						
0	ut Row Header Source Categories.CategoryName Products.ProductName Column Header Source =Year({Orders.OrderDate})		ß	. 🛛	+	+	
4	Row Header Source Categories.CategoryName Products.ProductName Column Header Source		ß		+	+	×
4	ut Row Header Source Categories.CategoryName Products.ProductName Column Header Source =Year({Orders.OrderDate})		ß	. 🛛	+	+	>
4 4	ut Row Header Source Categories.CategoryName Products.ProductName Column Header Source =Year({Orders.OrderDate})		ß	. 🛛	+	+	×
4	ut Row Header Source Categories.CategoryName Products.ProductName Column Header Source =Year({Orders.OrderDate})		ß	. 🛛	+	+	× ×

CrossTab Themes

The Theme dropdown can be used to quickly style the CrossTab using one of the predefined themes. Further styling can be done in the **Report Designer**.

CrossTab Options

Settings that affect the entire CrossTab are controlled in the CrossTab Options Menu. Open

the CrossTab Options Menu by clicking the Options button (Options). Using this menu you can adjust the following settings:

General



- Columns Display the Row Headers in columns from left to right in the order they are in the Row Header Source panel.
- Hierarchical Display Row Headers in a hierarchical structure using indentation to display their order.
- Check 'Repeat CrossTab Header every new page' to repeat Row Header labels and Column Headers on each new page.

Grand Total Row

• To get a total for each column, select 'Top' or 'Bottom' from the Placement dropdown in the Grand Total Row section and provide a label in the Label text box.

Grand Total Column

• To get a total for each row, select 'Top' or 'Bottom' from the Placement dropdown in the Grand Total Column section and provide a label in the Label text box.

General		
Row Headers Pla	acement	
Columns	•	
Repeat C	rossTab Header every	y new page
Grand Total	Row	
Placement	Label	
Placement Bottom	Label Total	
	Total	
	Total	

Preview

At the bottom of the layout tab a preview will display how the Crosstab will appear based on the fields that have been added. You can increase the size of the preview or hide it all together by dragging or clicking the resize button (-----).



CategoryName	ProductName	column 1	column 2
Catagon/Namo 1	ProductName 1 ProductName 2	75	60
CategoryName 1	ProductName 2	76	70
Catagon/Namo 2	ProductName 1 ProductName 2	14	49
CategoryName 2	ProductName 2	13	36
Total		178	215



Express Report Wizard

The Express Report Wizard is an interactive tool which allows you to quickly create and edit Express Reports.

To navigate the wizard either click the desired tab or use the buttons at the bottom.

To Save an Express Report click the save button.

P	Expres	ss Report ×							*0
	Name	Categories	Sorts	Filters	Layout	Options	l l	5	tml -
	Enter the	e report name							

X Cancel < Prev	ious	Next >	Save and Close
-----------------	------	--------	----------------

The Express Report Wizard has six sub tabs. The Name, Categories and Layout tabs must be completed while the other tabs are optional.

Name Tab

In the Name tab enter a report name and click on the Folder where the report will be saved.

The report name can be up to 255 characters. Avoid special characters such as ? : / \times " " < >.

A report's description appears at the bottom of the Main Menu when it is selected. The description text is also used when searching for a report.

Note: You cannot create a report inside a folder that is read-only (

🖉 New	Express Repo	rt ×								*0
Name	Categories	Sorts	Filters	Layout	Options					tml -
Enter	the report name									
Selec	folder for the repo	rt								
		ers Repo orts dent Rep	orts							
Enter	a description for th	e report			*	•	•			
🗙 Ca	ncel				< Previou	s	Next >		🍋 Save an	d Close

Categories Tab

In the Categories tab select the Data Categories that you would like to have access to on the report. It is important to understand two terms: Data Category and Data Field.

Data Category – A Data Category is a data object that has several attributes. Ex. Orders is a category; each order has an ID, a date, a customer etc.

Data Field – A Data Field is a single attribute within a category. Ex. Orders.OrderID is numeric value that identifies a specific order.

Name Categories Sorts	Filters	Layou	Options	html
Select categories to include on report				
Orders Products	*	Supp		
Region		0	Professors	×
Shippers		6	Students	×
 Territories University 				
 Classes Enrollment Professors Students 				



• To add a Data Category either drag and drop it to the 'Category Name' Column, use the 'Add' button or double-click it.

- To see what Data Fields are in a Data Category click the information button $(\mathbf{0})$.
- Check the 'Suppress Duplicate' button to suppress duplicate information from appearing on the report.
- To remove a Data Category click the delete button (\times) .

Sorts Tab

In the Sorts tab specify which Data Fields will be used to determine the order of data on the report.

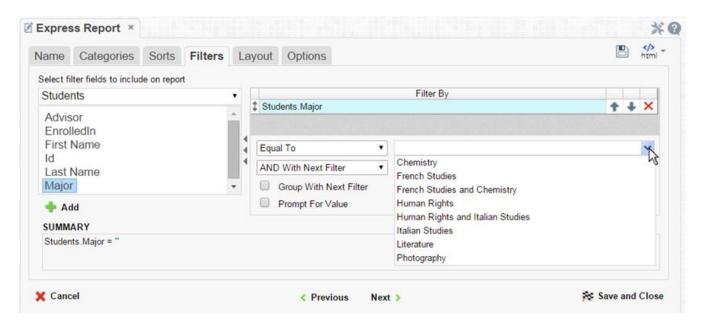
🖉 Express Report ×

Name	Categories	Sorts	Filters	Layout	Options	B	ttml
Select s	ort fields						
Profes	sors			•	Sort By	Sort Order	
First I Id				4 4	fessors.Last Name	Ascending Ascending Descending	~
🔶 Ac	bl			-			
Canc	cel				< Previous Next >	🎘 Save and	Close

- To sort by a Data Field either drag and drop it to the 'Sort By' Column, use the 'Add' button or double-click it.
- Use the up and down arrows to indicate the sort priority.
- You can sort each Data Field in ascending (A- Z) or descending (Z-A) order.
- To remove a sort click the delete button (\times) .

Filters Tab

In the Filters Tab create statements that will be used to filter the data when you run the report.



There is no limit to the number of filters that can be defined. Filters can be numeric (up to eight decimals) or alphanumeric.

- To filter a Data Field either drag and drop it to the 'Filter By' column, use the 'Add' button or double-click it.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times).
- Set the operator (equal to, less than, one of, etc.) by selecting it from the operator drop-down.
- Set the filter value by either entering it manually or selecting a value from the dropdown. If the Data Field is a date the calendar and function buttons can be used to select a value.
- Check 'Prompt for Value' to allow the filter to be modified at the time the report is executed.
- Select 'AND With Next Filter' to require that the selected filter and the one below it are both true. Choose 'OR With Next Filter' to require that either be true.
- Check 'Group With Next Filter' to indicate the precedence of the filters.

Layout Tab

In the Layout tab select which Data Fields that will appear on the report. For each Data Field chosen, the report will automatically create a column header and the Data Field. Additionally, sub-totals, grand totals, and page header/footers can be created.

ame Categories Sorts	Filters La	yout Options					htm
elect fields to include on report							
Students			Data Field		Summary Function		
		1 Professors Depar	tment	fx.	None *	44	X
Advisor		1 Professors Positi	on	fx	None •	44	X
EnrolledIn		1 Students First Na	me		None •		X
First Name		1 Students Last Na			None •		x
Last Name Major	***						
		- Summarize By					
		Professors					
📥 Add 💊	Add Blank	Page Head	er 🔲 Page Foote	er 🔲 Grand Tota	1		
Add	Add Dialik						
🖍 🗙 🖂 Arial	•	⇒ B <i>I</i> <u>U</u>	A 🕭 🕤 🗏		3 8		1
			Theme: Custom				
	Department	Position	First Name	Last Name			
	epartment 1	Position 1	First Name 1	Last Name 1			
	epartment 1	Position 1	First Name 2	Last Name 2			
L	epartment 2 Department 2	Position 2 Position 2	First Name 3 First Name 4	Last Name 3 Last Name 4			
r							

Display Data

- To place a Data Field on the report either drag and drop it to the 'Data Field' column, use the 'Add' button or double-click it.
- To add blank columns that can be typed in click the 'Add Blank' button (* Add Blank). You can enter text into the blank column.
- Use the up and down arrows to indicate the order the Data Fields should appear on the report. The Data Field at the top will appear on as the left most column of the report.
- The Summary Function column is used to make sub-totals and grand totals. See **Sub-Totals and Grand Totals** for more information.
- To remove a Data Field click the delete button (\times) .

For each Data Field added in the Sorts tab a checkbox will appear in the Summarize By box. Using the 'Summarize By' box you can display sub-totals, grand totals or headers for each unique value of a Data Field.

Sub-Totals and Grand Totals

• To display sub-totals, check the box of the category you want sub-totals for. Then for each Data Field you want totaled select a Summary Function (see below).

• To display grand totals check the Grand Total box. Then for each Data Field you want totaled select a Summary Function (see below).

Summary Functions:

- Sum: Totals the all of the data in the Data Field.
- Count: Returns the number of rows in the Data Field.
- Average: Takes the mean of the data in the Data Field.
- Minimum: Displays the lowest value in the Data Field.
- Maximum: Displays the highest value in the Data Field.

П	Data Field		Summary Function			
: 1	Professors.Department J	r ar	None 🔻	1	4	×
: 1	Professors.Position J	r ar	None 🔻		₽	
: :	Students.First Name J	ŝ.	None 🔻		₽	×
: :	Students.Last Name J	i.	Count 🔻			×
-5	Summarize By					
6	☑ Professors					
	🛿 Page Header 🛛 🔲 Page Footer 📝 Grand Total					

Data Headers

To display a header for each value of a Data Field click on the associated Data Category in the Summarize By box and a Header Menu will appear.

- To include a blank road before each unique value of the selected Data Field check the box 'Add space before each unique item'.
- To include a Header check the box `Include Header at the beginning'. In order to select the text that will appear as the header value, use the Header Text dropdown to select a Data Field or use the **Formula Editor** Button (f_x) to create a formula.
- Use the 'Summarize by each unique' dropdown to specify if the header should repeat based on a specific Data Field or if it should repeat for all of the keys of a Category.
- Check the box 'Include Total at the end' to have a sub-total created for this Category.



1	rofessors	
	Summarize by each unique:	
	Professors •	
	Space	
B	Add space before each unique item	
	Header	
P	Include Header at the beginning	
	Header Text:	
	Professors.Department 🔻 🎜	
P	└── Total ────	
P	Include Total at the end	

Page Header

To display information on the top of each page, click 'Page Header' below the 'Summarize By' box. A Page Header Menu will appear.

Summarize By-		
Professors		
Page Header	🔲 Page Footer	Crand Total

- Check the box 'Include Title at the top of every page' to display the name of the report on each page. If an image is also included, use the position dropdown to set where the title should appear and the number of columns it should span.
- Use the 'Change Image' button to upload an image to display at the top of each page. If a title is also included, use the position dropdown to set where the image should appear and the number of columns it should span.



Title	
Position: Number of columns to span:	
Image Include image at the top of every page Position: Number of columns to span: Right I Change Image	No Image Selected

Footers

To display information on the bottom of each page, click 'Page Footer' below the 'Summarize By' box. A Page Footer Menu will appear.

Summarize By-		
Professors		
🔲 Page Header	V Page Footer	Crand Total

- Check the box 'Include page number at the bottom of every page' to display the page number on each page. If an image is also included, use the position dropdown to set where the page number should appear and the number of columns it should span.
- Use the Change Image button to upload an image to display at the bottom of each page. If the page number is also included, use the position dropdown to set where the image should appear and the number of columns it should span.

Page Number	ge
Position: Number of columns to span:	
Image Include image at the bottom of every page Position: Number of columns to span: Right 1 2 Change Image	No Image Selected

Preview

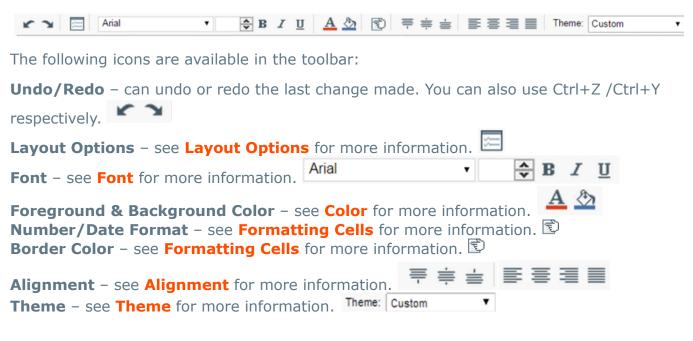


At the bottom of the layout tab a preview will display how the report will appear based on the fields that have been added. You can increase the size of the preview or hide it all together by dragging or clicking the resize button (

		Advised by	
Department	Position	First Name	Last Name
Professors 1 Head	ler		
Department 1	Position 1	First Name 1	Last Name 1
Department 1	Position 1	First Name 2	Last Name 2
			Professors 1 Total
Professors 2 Head	ler		
Department 2	Position 2	First Name 3	Last Name 3
Department 2	Position 2	First Name 4	Last Name 4
			Professors 2 Total
Page Number			

Styling Express Reports

Above the preview is a toolbar. This toolbar can be used to stylize the Express Report. In order to utilize this toolbar select the cell(s) you want to modify from the preview.



Layout Options

In Layout Options you can hide the detail information and set row shading.



• Check 'Suppress Detail Rows' to only display Sub-Totals, Grand Totals, Data Headers & Page Headers/Footers.

• To add row shading click the 'New' button and select a color from the color dropdown or enter a hex value.

Note: Row Shading is only applied to the detail rows that contain Data Fields.

Layout Options
General
Suppress Detail Rows
-Row Shading
Alternate Shading Color
#FFF1E0 ↑ ↓ ¥ Transparent ↑ ↓ ¥
Transparent 🗔 🛧 🕹 💥
New
V OK X Cancel

Express Report Themes.

The Theme dropdown can be used to quickly style the report using one of the pre-defined themes. After selecting a Theme styling can still be modified. See **Styling Express Reports** for more information.

Options Tab

The Options tab allows you to control various report option settings.

General Options

• From the 'Include Setup' menu select Top or Bottom to display the data categories, sorts and filters at either the beginning or end of the report.

• Select which type of Filter menu to display when executing a report that have prompt for value filters.

• **Default** – Display the default type of filter execution window.



- **Standard** Display the standard filter execution window.
- **Simple with Operator** Display a simplified filter execution window that only allows the operator and value to be changed.
- **Simple without Operator** Display a simplified filter window that only allows the filter value to be changed.

• Check 'Always Show Filter on Execution' to show the filter menu and allow changes to be made each time the report is run.

Expres	s Report ×						×a
Name	Categories	Sorts	Filters	Layout	Options		tri +
Gene Expo Adva	eral	Filter Ex	Setup Info	ndow Defau	llt Show Message ▼	 Always Show Filters on Execution 	

Export Options

General Export Options

- Use the Default Export Type drop-down to specify the default format for the report.
- Output types may be disabled by unchecking the boxes for 'Allowed Export Types'.

HTML Options

- Uncheck 'Show Grid' to disable grid lines.
- Uncheck 'Simulate PDF' to have the report appear as though it is not on a page.

Excel Options

• Check 'Suppress Formatting' to prevent the report formatting from exporting to Excel.

Page Options

- Specify the size of the report in the 'Page Size' drop-down. Default is Letter.
- Set the orientation for the report in the 'Orientation' menu. Default is Portrait.
- Check 'Fit to Page Width' to scale all columns to fit the width of the page.

🛛 Expres	ss Report ×									*	0
Name	Categories	Sorts	Filters	Layout	Options					html -	
Gen Expo Adva	anced	Default E Allowed - HTML Sho - Excel	Options	Default • es: 🗹 HT	ML 🗹 Excel	PDF P	RTF 🗹 CS	V	 		
		Page Siz	ze Letter v to Page Wid		Orientation Po	ortrait •					

Advanced Options

In the Advanced Options an Express Report can be converted to a Standard Report.

Warning: This CANNOT be undone.

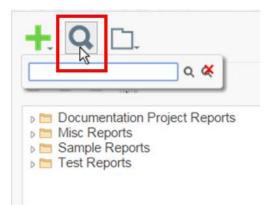
• Click the 'Convert simple report to a standard report' button to convert an Express Report to a Standard Report.

Ø	Expres	ss Report ×						*0
	Name	Categories	Sorts	Filters	Layout	Options	[ttml 🕆
	Gene Expo Adva	eral		ert Optio		a standard re	eport (this cannot be undone) 📀	



Searching Reports

To search for a specific report click the Search Button in the **Main Menu**. A search box will appear. Enter the terms that you want to search on and click the search button (\mathfrak{A}). All reports that have the search terms in either the title or the description will appear. To see all the reports click the clear button (\mathfrak{A}).

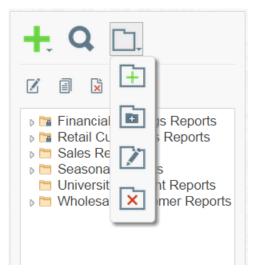




Folder Management

Note: If you do not see a Manage Folders button in the Main Menu then you do not have folder management privileges and should contact your administrator.

In the Main Menu click the Manage Folders button. A drop-down menu will appear. Use these icons to create, rename, or delete folders and sub folders.



- To create a new folder click the 'Add Root Folder' button (\square).
- To create a sub folder, first select the parent folder and then click the 'Add Sub Folder' button ().
- To rename a folder select it then click the 'Rename Folder' button. (ert).
- To delete a folder select it then click the 'Delete' button (). The folder must be empty in order to delete it.



Editing Reports

To edit an existing report:

- 1. On the **Main Menu**, select the report you want to edit.
- 2. Click the Edit button () or double click the report. For Standard Reports the **Report Designer** will open in a new tab. If you selected an Express Report the **Express Reports Wizard** will open in a new tab.

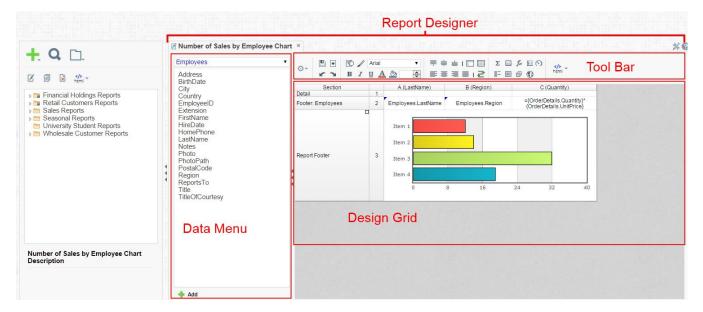
Note: You cannot edit any report that is read-only (a). You can duplicate the report into an unlocked folder and edit the duplicate.



Report Designer

The Report Designer can be used to add data, charts, formulas, sorts, filters and many other features to a report.

The Report Designer has three parts; the Design Grid, the Data Menu and the Toolbar.



Design Grid

In the design grid you can:

- Add and delete rows, columns and sections.
- Enter Data Fields, text and formulas.
- Drag and drop data and text into different sections, rows or columns.

Data Menu

Through the data menu you can:

- Drag and drop Data Fields onto the report.
 - 1

Click the arrows (•) to hide the data menu. The arrows are located between the data menu and the design grid.

Toolbar

Using the toolbar you are able to:

Exago User Guide



- Rename the report.
- Add, modify or remove sorts and filters.
- Format cells' font, font size, alignment, color and borders.
- Use the Formula Editor to create complex functions.
- Insert charts and images.
- Link reports, allowing users to drilldown for more detail.
- Save the report.
- Execute the report as HTML, Excel, CVS, RTF or PDF.

• Give a report access to new Data Categories or remove Data Categories from the report.



Design Grid

In the design grid you can:

- Add and delete rows, columns and sections.
- Enter data fields, text and formulas.
- Drag and drop fields into different sections, rows or columns.

Sections

Sections dictate how the data appears in a report. There are five types of sections: page, report, details, group and repeating group.

Page Header & Page Footer – The rows in the Page Header section appear at the top of every page of a report. Typically, the Page Header section is used to designate column headers for a report. The rows in the Page Footer section appear at the bottom of every page of a report. Typically, the Page Footer sections are used to display the page number, or confidentiality notices for a report.

Note: Formulas and calculations should not be made in the Page Footer section.

Note: If you are printing a report remember that Excel output does not have pages. Page Headers will appear only once at the beginning of the report. Reports executed as HTML will display Page Headers similarly unless 'Simulate PDF' is checked in the **Options** menu.

Report Header & Report Footer – The rows in the Report Header appear at the beginning of a report. Typically, these rows display the title of a report. Whereas the rows in the Report Footer appear at the end of a report. Typically, the Report Footer displays grand totals and summary information for the report.

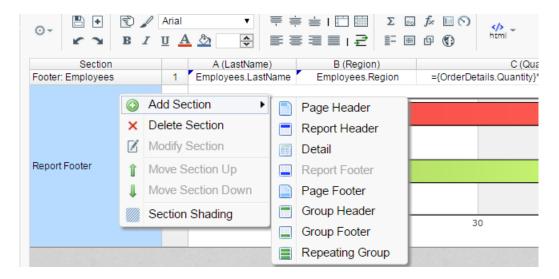
Detail – The Detail section is the main section of most reports. When the report is run the Details Section creates a row for each element in the Data Categories. For example if the Detail section contains the Data Field Orders.OrderId, the report will display each Order Id on a separate row.

Group Header & Group Footer – Group Headers/Footer sections require a sort on a Data Field. The rows in a Group Header section will appear above the Detail section for each unique value of the sorted Data Field. Typically, Group Header sections are used to display data as labels. For example a report may contain a Group Header on Orders.OrderDate and display Orders.OrderId in the Detail section. The output would display each date with orders that occurred on that date below them.

The rows in a Group Footer section will appear below the Detail section for each unique value of the sorted Data Field. Typically, Group Footer sections are used to calculate subtotals. For example a report may contain a Group Footer on Orders.OrderDate which displays the number of orders made on each date.

Note: Group Header/Footer sections can also be set to display rows for each value of a formula instead of a Data Field. (Ex. The report may be sorted on the Data Field Orders.OrderDate but the report should show subtotals for each month. A Group Footer on the formula `=Month({Orders.OrderDate})' will display rows containing subtotals for each month.)

Repeating Groups – Repeating Groups require a sort on a Data Field. Repeating Groups have their own header, details and footer subsections. Repeating Groups should only be used when the data has multiple one-to-many relationships and each should be rendered completely before the other. (Ex. Each Professor can teach multiple classes and advise multiple students. For each professor you want to see all the classes they teach and then all the students they advise.)



Using Sections

Sections can be added, deleted, modified, moved, and assigned shading.

Adding Sections

- 1. Click anywhere in the Section Column.
- 2. Hover your mouse over 'Add Section,' then select the type of section you would like to add.

Deleting Sections

- 1. In the Section Column click on the section you want to delete.
- 2. Click 'Delete Section'.

Modify Sections (Group Header/Footers and Repeating Groups only)

- 1. In the Section Column click on the section you want to modify.
- 2. Click 'Modify Section'. This will bring up a 'Modify Group Section' Menu.
- 3. Select from the drop-down the desired Data Field for the group to use.
- 4. Click okay.

Section Shading



- 2. Click 'Section Shading'. This will bring up a menu.
- 3. Click 'New' to add a color to the shading.
- 4. Click the color box to select a color or enter a hex value.
- 5. Click okay.

Alternate Sha	ding Color				
#FFFFFF		Γ.	ŧ	÷	×
#E0E0FF		—	ŧ	÷	×
New					

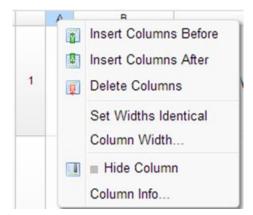
Columns and Rows

Columns and rows of cells can be added, modified or removed as described below.

Columns

- To select a group of columns, hold the SHIFT key and then click the beginning and ending column.
- Non-contiguous columns can be selected by holding the CTRL key and clicking the desired columns.
- A column can be resized by dragging its right edge horizontally.
- Clicking on a column (or selected group) will display a menu where you can:
 - Insert a new column.
 - Delete the selected column.
 - \circ $\;$ Set its width to be identical with the other selected columns.
 - Hide the selected column.
 - Set Column Info to make the label the column and/or make it sortable on HTML reports.





Sorting by Columns on HTML

While viewing reports run to HTML, a user can click the bar at the top of the report to **sort by a column**. For Express Reports this is handled automatically but must be enabled for Standard and Crosstab Reports.

To make a column sortable in HTML

- Click on the column and select Column Info...
- Provide the column with a label that will appear in the **Interactive HTML Dock**.
- From the Sort dropdown select the Data Field to be used for sorting, or provide a formula by clicking the formula button (f_x) .

Note: Html Column Sorts are applied AFTER any sorts defined in the **Sorts Menu**.

	Column	Information	×
Label:			1
Sort:			
None		• fz	
	🗸 ок	X Cancel	
	🗸 ок	🗙 Cancel	

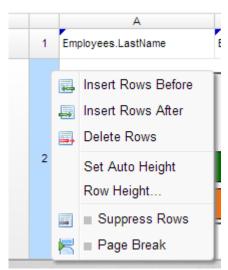
• Click on the column again to set a default sort direction.



A (Emply	ee)	B (Number of Sa	ales)	
Emplo		Insert Columns Before Insert Columns After	iles	
Employees.Las mployees.Firsth	Ţ	Delete Columns	s.Ord	eriD})
otal Number		Set Widths Identical Column Width	s.Or	rderl D})
		Hide Column		
	₽.	Column Sort Column Info	A	✓ None ■ Ascending
			Z i	Descending

Rows

- To select a group of rows, hold the SHIFT key then click the top and bottom row.
- Non-contiguous rows can be selected by holding the CTRL key and clicking the desired rows.
- A row can be resized by dragging its bottom edge vertically.
- Clicking on a row (or selected group) will display a menu where you can:
 - Insert a new row.
 - Delete the selected row.
 - Set its height to be automatically controlled.
 - Suppress the row from appearing on the report
 - Insert a page break. Note: Please see Using Page Breaks





Cells

Cells are the containers for all the information in a report. Cells may contain text, images, charts, or links to other reports.

- To enter text into a cell, double-click and a text field will appear.
- To select cells by either click or use the arrow keys.

• Groups of cells can be selected by holding the SHIFT key and clicking on another cell. All the cells in between the two will be selected.

• Non-contiguous cells can be selected by holding the CTRL key and clicking the desired cells.

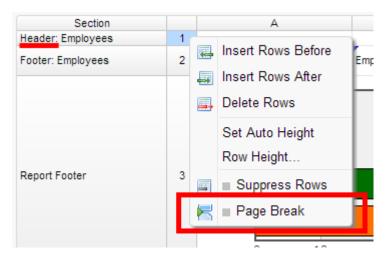
• A cell can be copied by holding the CTRL key while you dragging and drop it over a new cell.

• Adjacent cells can be merged and unmerged using the Merge/Split Cell buttons in the **Toolbar**.



Using Page Breaks

For a Page Break to occur at the beginning of each element of a Data Field, place a page break on the top row of Group Header Section for that Data Field. See **Sections** for more detail on Group Headers Sections.





Data Menu

The data menu holds the data that you can put into a report.

Adding Data Fields to a Report

To add a Data Field to a report, select the appropriate Data Category at the top of the menu. Drag and drop the Data Field from the menu to a cell in the Design Grid.

Employees Order DetailCustomerID EmployeeID FreightOrdergan OrderDate OrderIDOrderDate OrderIDOrderID OrderIDRequiredDate ShipAddress ShipCityOrderlon ShipCityOrderID ShipCity	Orders 🔹	Orders •
ShipCountryShipCountryShipNameShipNameShippedDateShipPodDateShipPostalCodeShipPostalCodeShipRegionShipRegion	Employees Order Detail OrderDate OrderDate OrderID RequiredDate ShipAddress ShipCity ShipCountry ShipName ShippedDate ShipPostalCode	CustomerID EmployeeID Freight OrderDate OrderID RequiredDate ShipAddress ShipCity ShipCountry ShipPostalCode

Alternatively, a Data Field can be put into a cell by typing Data Category Name (dot) Data Field Name. (Ex. Orders.OrderID).

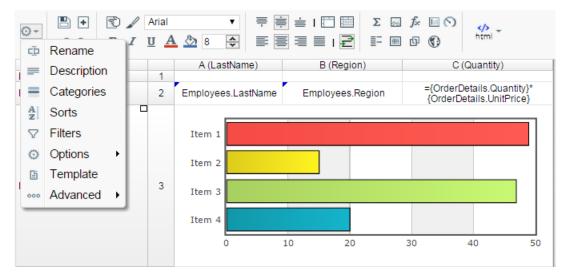
To access other Data Categories see the section on **Data Categories**.



Toolbar

The toolbar contains the buttons and menus used to modify the report. Modifications can include aesthetic formatting, inserting formulas and images, linking reports and much more.

The toolbar begins with a drop-down menu. This menu controls changes that affect the entire report such as renaming or filtering. All other buttons on the toolbar require a cell (or cells) in the design grid be selected.



Saving Reports

The report can be saved by clicking the save button (\blacksquare). The report will also be saved anytime it is run.

Undo/Redo

Any action on a report can be undone by click (\checkmark) or pressing CTRL + Z. Undone actions can be redone by clicking (\checkmark) or pressing CTRL + Y.

Font & Alignment Options

The text of each cell can be formatted using drop-down menus and buttons in the toolbar. A cell or multiple cells must be selected for these tools to be used.

Font

• To change the font use the drop-down (Arial). The font names appear in the style that they represent.

• The buttons **B**, *I* and <u>U</u>, make the font bold, italicized and underlined, respectively.

• Text size can be controlled using the up and down arrows on font size menu ($\square \diamondsuit$).

Color

• To change the text color, click the Foreground Color button (Δ) and then select a color or enter a hex value into the Foreground box. Click the clear button to revert to the default color (\bowtie).

• To change the background color, click the Background Color button (2) and then select a color or enter a hex value into the Background box. Click the clear button to revert to the default color (\swarrow).

Alignment

• Text can be aligned to the top, center, or bottom of a cell using the vertical alignment buttons.



• Text can be centered, justified or aligned to the left or right of a cell using the horizontal alignment buttons.



• The wrap text button ($\vec{\Xi}$) will begin a new line if the text is longer than the width of cell.

Formatting Cells

Cells can be formatted in the Cell Format Window. To open the window click the format cell button (\mathbb{E}). The window has three tabs: Number, Border and Conditional.

Note: Cell formatting can be copied using the Format Paintbrush. Select the format you want to copy, click the format paintbrush button () then click the cell you want to apply the formatting to.

Number

The Number tab allows you to set the format of numbers and dates.

- General: General format automatically applies formatting to cell values.
- Number:



 $\,\circ\,$ Using the arrows you can specify how many decimals to display. You can also set the symbol to separate decimals from whole numbers.

• Check the box 'Use 1000 Separator' to separate every 3 digits. You can set which symbol is used to separate digits.

 \circ $\,$ Check `Use Currency Symbols' to have the currency sign appear in front of the number.

- Check 'Append Percent Sign' to have the symbol '%' appear after the number.
- Check 'Blank When Zero' to leave the cell(s) blank if the value is zero.

 $\,\circ\,\,$ Check 'Show '-' Symbol' to have a negative sign display in front of the number if it is negative.

- Check 'Show Parenthesis' to put () around the number if it is negative.
- Selecting a color will make the number that color if it is negative.
- Date:

 $_{\odot}\,$ From the menu select the time/date format. (Ex. MM-yy will display a date as `Jun-97').

• Text: Text format does not apply formatting to cell values.

	Format Cells	×	Format Cells	×
Number Category General Number Date Text	Border Conditional Decimal Places 2 🗢 Symbol .	×	Number Border Conditional Category Date/Time Format Date MM/dd/yyyyy Text MM/dd/yy M/d/yy M/dd/yy M/dd/yy M/d d-MMM d-MMM d-MMM-yy dddd, MMMM dd, yyyy MMMM-yy MMMM-yy MMMM-yy	
	V OK K Cancel		MMMM d, yyyy	•

Border

The Border tab allows you to alter the width and color of the cell edges.

- Uncheck 'Make Borders Uniform' to modify specific edges.
- To widen the borders either key in a value or use the arrows in the width box.

• To change the color either select a color from the drop-down or enter a Hex value.

Format Cells	×
Number Border Conditional	
Select color and width for each side of the cell. Check 'Make Borders Uniform' to apply color and width to all sides.	
Make Borders Uniform	
0	
#FF8F00 ↓ 2 ◆ 2 ◆	
#000000 	
]
V OK X Cancel	

Conditional Formatting/Suppression

The Conditional Formatting tab allows you to set or modify the format of a cell based on formula you create.

- Click the Add button (Add) to create a new conditional format. Each format must have an Action, and a Formula that evaluates to True or False. Some Actions require an Attribute such as a color or a number.
- Select an Action from the dropdown. This action will occur if the formula evaluates to True.

Actions include:

- **Foreground Color** –Sets the foreground color of the cell. Attribute: Color.
- Background Color Sets the background color of the cell. Attribute: Color.
- **Font Size** Sets the size of the text. Attribute: Number
- Bold Bolds the text of the cell. No Attribute
- Italic Italicizes the text of the cell. No Attribute



- Underline Underlines the text of the cell. No Attribute
- **Horizontal Alignment** –Aligns the text of the cell horizontally. Attributes: Left, Center, Right, or Justify.
- **Vertical Alignment** Aligns the text of the cell vertically. Attributes: Top, Bottom or Middle
- Suppress Row Suppresses the row the cell is in. No Attribute
- Suppress Section Suppresses the entire section that contains the cell. No Attribute
- Page Break Starts a new page. No Attribute
- Click the **Formula Editor** Button (f_x) to set the condition for the formula.

Note: The formula must evaluate to True or False.

Note: For conditional formatting the Formula Editor will have an add 'Cell Value'

(**Cell Value**) button. This button adds the function CellValue() to the formula. This function returns the value of the cell that conditional format is being applied to.

Note: The formula is still calculated with respect to the section of the cell. For example for a cell in a report footer the formula $\{\text{Order.Profit}\} > 1000 \text{ will return True if the last Order of the detail section profited more than 1,000. To make the condition see if the total profit was greater than 1,000 use the formula 'Sum(<math>\{\text{Order.Profit}\}$)>1000'.

- Use the up and down arrows to change the order of formats. If two formats share a common action and are both True then the lower condition will be applied.
- To remove a format click the delete button (\times).

			Format (.ells				
Number	Border	Co	nditional					
	Action		Att	ribute				
Foregrou	und Color	•	#FF8F00		fx	1	♣	××××
Bold		•			fx	1	₽	×
Vertical.	Alignment	•	Bottom	•	fx	1	4	×
💠 Ada	1							



AutoSum

To quickly get a total on a Data Field, place the field in a Report or Group Footer and click Autosum button (Σ). Alternatively, a sum can be created with the *aggSum* or *Sum* functions. See **Formulas** for more information.

Note: Do not use AutoSum on a cell with an aggregate formula such as *aggSum*.

0-	•	Đ,	Tahom	a	▼ ₹ ±		Σ 🖾 🏂 🔟 🛇)
	K Y	BI	<u>u</u> A	8		■ I ₹	I 🖽 🗗 🚯	ntmi
	Section				A (OrderID)		B (Quantity)	
Dago H	loador		1					
Page Header		2		OrderID		Quantity		
Detail			3		Orders.OrderID		OrderDetails.Quan	
Report	Footer		4		Total Quantity		Order Detail.Quar	
			C	rderID		Quantity	v	
		10792			10			
		10792			3			
		10792			15			
		10870			3			
		10870			2			
		10906			15			
		10998			12			
		10998			7			
		10998			20			
		10998			30			
		11044			12			
		Total Qu	antity		129			

Images

An image from your computer can be added to a cell using the Insert Image button (\square). This brings up the insert image window. Select the image you would like to insert and click `Ok'.

Functions

Complex calculations can be done using **Formulas**. A formula can be added to a cell by keying it in manually or using the **Formula Editor**. To open the Formula Editor click the Formula Editor Button ($\frac{f_{s}}{r}$).

Select Fields		
Employees Address BirthDate City Country EmployeeID Extension FirstName HireDate HomePhone LastName Notes Photo Photo PhotoPath	 Aggregate Operators Logical Date Financial Database and Data Type Arithmetic and Geometric String Formatting Other 	
Add	✓ OK X Cancel	

Suppress Duplicates

You can suppress duplicate values of a Data Object from being displayed. Select the cell and click the Suppress Duplicate button (\equiv). As an example the two reports below are identical, except the right image has suppressed duplicates of the customer column.

Rep	ort Title	5	Rep	Report Title					
Customer	Order Number	Date Ordered	Customer	Order Number	Date Ordered				
Alfreds Futterkiste	10643	08/25/1997	Alfreds Futterkiste	10643	08/25/1997				
Alfreds Futterkiste	10692	10/03/1997		10692	10/03/1997				
Alfreds Futterkiste	10702	10/13/1997		10702	10/13/1997				
Alfreds Futterkiste	10835	01/15/1998		10835	01/15/1998				
Alfreds Futterkiste	10952	03/16/1998		10952	03/16/1998				
Alfreds Futterkiste	11011	04/09/1998		11011	04/09/1998				
Antonio Moreno Taquería	10365	11/27/1996	Antonio Moreno Taquería	10365	11/27/1996				
Antonio Moreno Taquería	10507	04/15/1997		10507	04/15/1997				
Antonio Moreno Taquería	10535	05/13/1997		10535	05/13/1997				
Antonio Moreno Taquería	10573	06/19/1997		10573	06/19/1997				
Antonio Morono Taguaría	10677	00/22/1007		10677	00/22/1007				

Charts

A chart can be displayed in a report to give a visual interpretation of the data. To insert a chart select a cell and then click the Insert Chart button (\square). The Chart Wizard will appear. The Chart Wizard has three tabs; Appearance, Data and Labels.

Note: Charts should only be placed into a Group Header, Group Footer, Report Header or Report Footer sections.



		Ch	art Wizard	×
Complete the	steps i	n the wiz	ard below to create a chart	
Appearance	Data	Lahels		

Appearance

In the Appearance tab select the type of chart, its size, its colors and where to display the Chart Wizard

Appearance Data Lab	bels	
_ Туре		
Use 3D Style		
Dimensions		
Height Width	-	
194 💠 393 💠 🕊	C Fit to Cell	
Colors		
Colors		
Default	Previous Next >	😤 Finisi
	Previous Next >	😤 Finisi
Default		🎓 Finisi
Default		🈤 Finisi
Default	Item 1	Pinis
Default	***	r≋ Finis
Default	Item 1	r≋ Finis
Default	Item 1 Item 2 Item 3	r Finis
Default	Item 1 Item 2	r Finis

legend.

- Select the chart type by clicking the icon that represents it. Check the 'Use 3D Style' box to make the chart three dimensional.
- There are three ways to the size of the chart.
 - Enter the height and width in the dimension boxes.
 - Resize the chart by dragging the lower right corner in the preview.
 - Check the box 'Fit to Cell'.
- In the color drop-down either select a color theme or specify a linear range of colors.

Note: There are two types of charts; single series and multi-series.

Single Series



Pie, Doughnut, Funnel, Pareto and Pyramid charts utilize a single Data Field to visually compare each element to the whole. (Ex. Each section of a pie chart may represent a region and the size of the section indicates how many people live in that region).

Pareto charts are a special type of single series chart generally used to highlight the most important element amongst a group. The bars of a Pareto chart will display in descending order while a line show the cumulative percentage of the total. You can read more about Pareto Charts **here**.

Multi-Series

Bar, Column, Line, and Spline charts display the values of one Data Field for each element of another Data Field. (Ex. A column chart will have a series of columns whose height indicates the number of customers in each region for each company).

		Chart Wizard	
omplete the steps in the	wizard below to create a chart		
Appearance Data Lab	els		
Туре			
Use 3D Style			
Dimensions Height Width			
194 💠 393 💠 🖉	Fit to Cell		
Colors			
Default 🔻			
Default			
	(< Previous Next >	🎘 Finish
	(Previous Next >	R Finish
	Item 1		🎋 Finish
			R Finish
	Item 1 Item 2		R Finish
	Item 1 Item 2 Item 3		Refinish
Cancel	Item 1 Item 2		Refinish

Data

Use the Data tab to set specific data values and data labels for the chart.

- Use the Data Values drop-down to select the cell that contains the numeric value for the chart.
- From the Data Labels drop-down select the cell containing the Data Field that names each element of the chart.
- From the Series Labels select the cell that contains the Data Field with the name of the series elements.
- Use the 'Sort data by' dropdowns to specify how the order of the chart data.



- $\circ~$ Report Order The chart will follow the order of the information on the report.
- Data Labels The chart will be sorted by the data labels (either alphabetically or numerically).
- Data Values The chart will be sorted by the data values.
- To ignore values that are too large or too small, enter a value into 'Exclude values less/greater than/' boxes.
- To manually set the axis values enter a value into the 'Data Axis Minimum/Maximum Value' boxes.
- Check the 'Align Data Labels Across Series' if you have multi-series data with common data labels among series.

Note: For example, consider charting house values as a function of location and building type. We choose location as the series labels and building type as data labels. Since each location uses the same building types, we check the 'Align Data Labels Across Series' box to align like data labels in the chart. On the other hand, if we want to chart city populations where we use country name as the series labels and city name as the data labels, we leave the box unchecked. This is because the data labels (city name) used for one series (country name) have no relation to those used in others.

	Chart Wizard	
omplete the steps in the	e wizard below to create a chart	
ppearance Data Lab	els	
	Fill out the fields below to select which data to use for the chart	
Data Values	={Order Detail.Quantity}*{Order Detail.UnitPrice}	•
Data Labels	Employees.LastName	•
Series Labels	None	۲
Exclude values less than	Exclude values greater than	
Data Axis Minimum Value	Maximum Value	
•		j≹ Finis
	A V	(Pé Finis
•	Previous Next >	(Pe Finis
•	Previous Next >	(Pe Finis
•	Previous Next >	Prints
•		Per Finis
•	Previous Next > Item 1 Item 2 Item 3	Pe Finis

Labels

In the Labels tab set the visual options of the Chart.

- **Chart Title**: Enter the text you want to appear in at the top of the chart.
- **X-Axis Title**: Enter the text you want to appear on the bottom of the chart.
- **Y-Axis Title**: Enter the text you want to appear on the left of the chart.
- **Point Labels**: Use the dropdown to display the values of each element of the chart.
- **Legend Position**: Use the dropdown to specify where to show the legend on the chart.
- **Number Format..**: Use the number format button menu to open specify how data and axis labels should be formatted.

Note: Single Series charts only have a Chart Title. Multi-series charts additionally have X and Y Axis titles.

omplete the steps in the wizard below to create a chart ppearance Data Chart Tële X-Axis Tële Y-Axis Tële Point Labels None							L	hart Wiz	ard			
Titles Chart Title X-Axis Title Y-Axis Title Other Labels Other Labels	omplete the	e steps	in the w	izard belov	w to create	e a chart						
Chart Title X-Axis Title Y-Axis Title Other Labels Point Labels	ppearance	Data	Labels									
Chart Title X-Axis Title Y-Axis Title Other Labels Point Labels	Titles											
Point Labels			×	-Axis Title		Y-Axis Title	,					
Point Labels					_							
Point Labels											 	
None												
	None	•										
19 Number Farmat	Number I	Format										
Number Format	* Number i	Format										
_												
_												
Cancel	Cancel						< Prev	vious	Next >			🎘 Finis
Cancel Next > Finit	Cancel						< Prev		Next >			🎓 Finisi
	Cancel						< Pres		Next >			🎓 Finis
	Cancel				Item 1		< Prev		Next >			🎋 Finis
	Cancel				Item 1		< Pres		Next >			🍂 Finis
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Item 1 Item 2	Cancel				Item 2		< Pres		Next >			🎓 Finis
	Cancel				Item 2		< Pres		Next >			🎓 Finis
Item 1 Item 2 Item 3	Cancel				Item 2 Item 3		< Prev		Next >			
Item 1 Item 2 Item 3 Item 4	Cancel				Item 2 Item 3 Item 4							Pe Finis
Item 1 Item 2 Item 3	Cancel				Item 2 Item 3 Item 4					40		🎓 Finisi

Single-Series Example

Take the following report as an example.

Note: The report designer here is making use of a Group Footer section to get a count of orders per customer. See **Sections** for more information.



Section		A	В						
	1	Charting Example							
Page Header	2								
	3	CompanyName	OrderID						
Footer: Customers	4	Customers.CompanyName	=aggcount({Orders.OrderID})						

The subsequent steps show how to create a 3D Pie Chart in this report. The chart will be display the number of orders each customer has made:

- Add a Report Footer section to the report, select all the cells in the Report Footer and click the merge cell button (\Box).
- Select the merged cell and click the Insert Chart icon (\square).
- In the Appearance tab:
 - Set the type, size, and color.

Appearance Data Labels	
Туре	
✓ Use 3D Style	
Dimensions Height Width 150 490 Image: State of the state of	
Colors Default	

- In the Data tab:
 - Set Data Values to be the cell `=aggcount({Orders.OrderID})'.
 - Set Data Labels to be the cell 'Customer.CompanyName'.



	the fields below to select which data to use for the chart	
Data Values	=aggcount({Orders.OrderID})	
Data Labels	Customers.CompanyName	
Other Options		
Sort data by	Ascending T	

• In the Labels tab, enter the text 'Number of Orders by Customer' in the Chart Title. Also set the point Labels to 'Data Values' and the Legend Position to 'Right'.

ppearance	Data	Labels		
Chart Title Number of	Orders by	' Cus		
Other La			Legend Position	
Data Value	s	•	Right 🔻	
Mumber F	ormat			

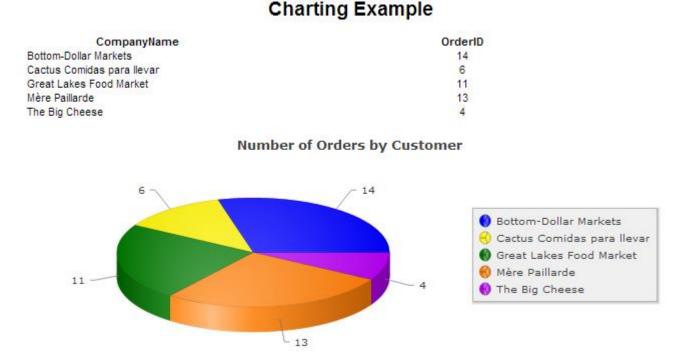
• Click Finish and execute the report as HTML.

Report Designer:

Section		A	B
	1	Chart	ing Example
Page Header	2		
	3	CompanyName	OrderID
Footer: Customers	4	Customers.CompanyName	=aggcount({Orders.OrderID})
Report Footer	5	A7	19 19 19 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10



Chart on HTML Export:



Multi-Series Example

Take the following report as an example.

Note: The report designer here is making use of a Group Footer section and two sorts to get a count of orders by customer per employee. See **Sections** for more information.

Section		A	В	С
	1	Chart Example		
Page Header	2			
	3	Company Name	Employee Name	Order Id
Footer: Employees	4	Customers.CompanyName	Employees.LastName	=aggCount({Orders .OrderID})

The subsequent steps show how to create a Column Chart in this report. The chart will be display the number of orders made by each customer and which employee took the order:

- Add a Report Footer section to the report, select all the cells in the Report Footer and click the merge cell button (□).
- Select the merged cell and click the Insert Chart icon (\square).
- In the Type tab:
 - Set the type, size and color.



Appearance Data Labels
Туре
Use 3D Style
Dimensions Height Width 200 ♀ 300 ♀ Fit to Cell
Colors Crayola

- In the Data tab:
 - Set Data Values to be the cell `=aggcount({Orders.OrderID})'.
 - Set Data Labels to be the cell 'Employees.LastName'.
 - Set Series Labels to be the cell 'Customer.CompanyName'.

]	Fill out the fields below to select which data to use for the c	hart
Data Values	=aggCount({Orders.OrderID})	
Data Labels	Employees.LastName	
Series Labels	Customers.CompanyName	
Other Options Sort data by Report Order V	Ascending V	
Sort data by Report Order V	han Exclude values greater than	
Sort data by Report Order V Exclude values less th		

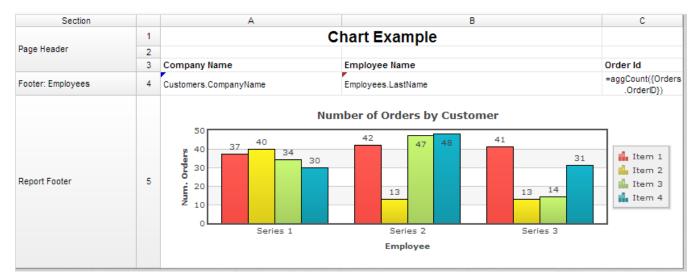
• In the Labels tab:



- Set the Chart title to 'Number of Orders by Customer'
- Set the X-Axis Title to Labels to 'Employee'.
- Set the Y-Axis Title to 'Num. Orders'.
- \circ Set the point Labels to 'Data Values' and the Legend Position to 'Right'.

Chart Title	X-Axis Title	Y-Axis Title	
Number of Orders by Cus	Employee	Num. Orders	
Other Labels			
	d Position		

• Click Finish and execute the report as HTML.



Report Designer:

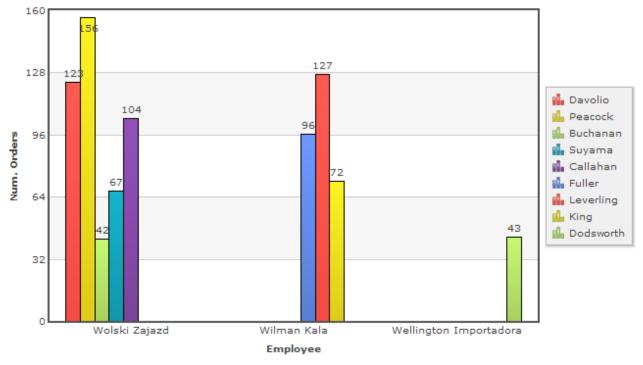
Chart on HTML Export:



Chart Example

Company Name	Employee Name	Order Id
Wolski Zajazd	Davolio	123
Wilman Kala	Fuller	96
Wilman Kala	Leverling	127
Wolski Zajazd	Peacock	156
Wolski Zajazd	Buchanan	42
Wolski Zajazd	Suyama	67
Wilman Kala	King	72
Wolski Zajazd	Callahan	104
Wellington Importadora	Dodsworth	43





Maps

A Map can be displayed in a report to give a visual representation of geographic data. To insert a Map, select a cell and click the Insert Map button (*). The Map Wizard will appear. The Map Wizard has three tabs: Type, Locations and Data.

Note: Maps should only be placed into a Group Header, Group Footer, Report Header or a Report Footer section.

Comple	te the steps	in the	wizard below to create a map	
Туре	Locations	Data		

Туре



In the Type tab select the initial view, size, colors and where to display the legend.

- Use the Initial View drop-down to select the location that initially displays on the Map. You may either select the world, a continent, or a country.
- There are three ways to the size of the Map.
 - \circ $\;$ Enter the height and width in the dimension boxes.
 - Resize the chart by dragging the lower right corner in the preview.
 - Check the box 'Fit to Cell'.
- In the Color drop-down either select a color theme or specify a linear range of colors.
- Check the 'Show Legend' box to display the legend.

Туре	Locations	Data				
Initial V		•				
- Dir Hei 29		🔹 🗆 Fit to	Cell			
	lors Irnt Orange	•				
🖉 si	how Legend					

Locations

In the Locations tab specify which geographic locations should display on the Map.

- Use the Location Values drop-downs to select the cells that contain the geographic information for the Map. To utilize Region information, such as states/provinces, Country information must be provided. Similarly, City information requires Region and Country information.
- The 'Show last Location type as' drop-down specifies how to display the lowest level of information. You can either select circular markers (see image in Data tab) or shaded geographic regions (see image below).



Location Type		Location Values	
Country	Customers.Country		•
Region	Customers.Region		•
City	Customers.City		,

Data

In the Data tab specify which data determines the color of each country/region/city and the size of each marker.

For each Data Value:

- Use the Data Values drop-down to specify which cells on the report should be used to determine the color and the size of each marker. Setting a cell for the size of marker is optional.
- Enter a label in the Data Labels column. Labels will appear in the hover effects of Dynamic Maps.
- Use the Aggregation drop-down to select a method to perform on the data.
 - Sum: Totals the Data Value for each location.
 - Count: Counts all instances of the Data Value for each location.
 - Distinct Count: Counts all unique instances of the Data Value for each location.
 - Average: Takes the arithmetic mean of the Data Value for each location.
 - Minimum: Displays the lowest value in the Data Value for each location.
 - Maximum: Displays the highest value in the Data Value for each location.
- Use the Display Format drop-down to specify how to display the data.
 - Default: displays the values without any formatting.
 - \circ $\,$ Currency: prepends the currency symbol on the values.
 - Percent: multiplies the Data Value by 100 and appends a percent symbol (%) to the values.
 - Scientific Notation: displays the values in scientific notation.
 - Ex. If Decimal Places is set to 2 then 123.45 would appear as 1.23 E2.
- For each Data Decimal Places: the number of decimal places to display.



	Places
Color of Locations Customers.CompanyName Vumber of Custo	mers Distinct Count 🔻 Default 🔻 0
Size of Markers Orders.OrderID V Number of Order	s Distinct Count 🔻 Default 🔻 0

Example

Take the following report as an example.

Section		A	B	С	D	E
	1		Мар	Example		
Page Header	2					
	3	CompanyName	Region	Country	City	OrderID
Detail	4	Customers.CompanyName	Customers.Region	Customers.Country	Customers.City	Orders.OrderID

The subsequent steps show how to create a Map in this report. The Map will be colored based on the number of customers in each location and the markers will be sized based on how many orders have been placed in each location:

- Add a Report Footer section to the report, select all the cells in the Report Footer and click the merge cell button (□).
- Select the merged cell and click the Insert Map icon (\mathfrak{O}) .
- In the Type tab:
 - Set the initial view, size and color.

Type Locations Data	
Initial View	
World ▼ Dimensions	
Height Width 400 🗘 600 🗘	Fit to Cell
Colors Burnt Orange ▼	
Show Legend	

• In the Locations tab, set the field Customers.Country for Country information, Customers.State for Region, and Customers.City for City information. Also set the 'Show last location type as' drop-down to Markers.



pe Locations Data		
Add data fields to specify w Location Type	hich locations to map Location Values	
Country	Customers.Country	
Region	Customers.State	
City	Customers.City	

- In the Data tab:
 - Set the field Customers.CompanyName for Color of Locations. Provide a label such as 'Num. of Customers' and set the Aggregate Type to Distinct Count.
 - Set the field Orders.OrderId for the Size of Markers. Provide a label such as 'Num. of Orders' and set the Aggregate Type to Count.

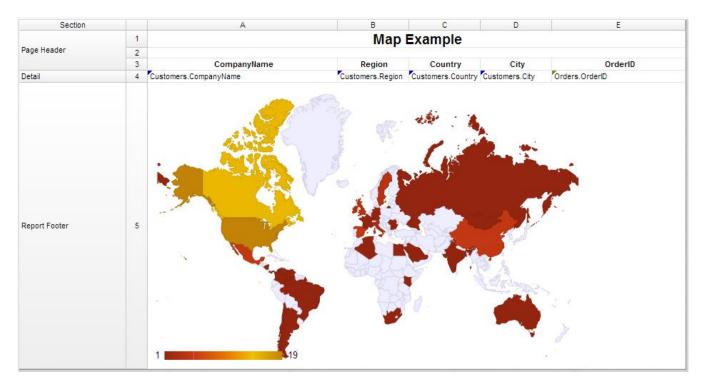
Type Locations	Data				
Add data fields to s	pecify which data to display wit	h eac	h location, and how it aggregates		
	Data Values		Data Labels	Aggregate Type	
Color of Locations	Customers.CompanyName	-	Num. of Customers	Distinct Count	-
Size of Markers	Orders.OrderID	-	Num. of Orders	Count	-

• Click Finish and execute the report as HTML.

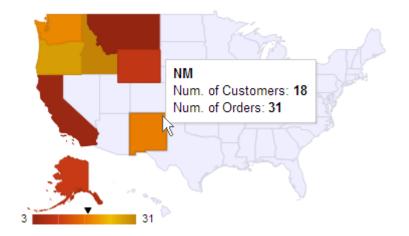
Report Designer:

Note: In the report designer the map is always represented by the same image regardless of the size, color or world view of the map that will be generated on the report.





Map on HTML Export:



Linked Reports

The ability to create drill downs can be added by linking reports. Linked reports are only available for **HTML** output.

• To link a report, select a cell and click the Linked Reports button (Φ). The Linked Report window will appear displaying the available reports. Select the report you want to link and press `OK.'

• To unlink a report select the cell and open the Linked Report window. Click the 'Remove Link' button.



Linked Report	×
Select report to link to Employee Reports\Number of Sales by Employee	×
 ▶ The second second	
V OK X Cancel	

When a link is set on a cell, the unique key of the information being displayed is used to automatically filter the linked report. In the example below the linked report is filtered for information where Category equals 'Meat/Poultry' because that was the Category clicked on.

Category	Numbe	r of Sales	
Beverages		31.00	
Condiments		252.00	
Confections		92.00	
Dairy Products		174.00	
Grains/Cereals		18.00	
Meat/Rg		402.20	
Prodù-			
Total North	Wind	Produc	ts by Category
Meat/Poultry			
Meat/Poultry Product ID	Product Name	Unit Price	Quantity Per Unit
	Product Name Alice Mutton	Unit Price 39.00	Quantity Per Unit 20 - 1 kg tins
Product ID			20 - 1 kg tins 18 - 500 g pkgs.
Product ID 17 9 55	Alice Mutton Mishi Kobe Niku Pâté chinois	39.00	20 - 1 kg tins
Product ID 17 9	Alice Mutton Mishi Kobe Niku	39.00 97.00	20 - 1 kg tins 18 - 500 g pkgs.
Product ID 17 9 55	Alice Mutton Mishi Kobe Niku Pâté chinois	39.00 97.00 24.00	20 - 1 kg tins 18 - 500 g pkgs. 24 boxes x 2 pies
Product ID 17 9 55 53	Alice Mutton Mishi Kobe Niku Pâté chinois Perth Pasties Thūringer	39.00 97.00 24.00 32.80	20 - 1 kg tins 18 - 500 g pkgs. 24 boxes x 2 pies 48 pieces

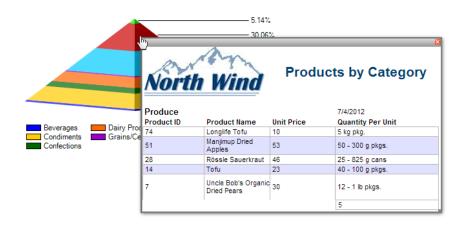


Chart Drilldowns

Chart drilldowns can also be created by using the linked reports menu. Chart drilldowns are only available for **HTML** output.

• To create a drilldown, select a cell that contains a chart and click the Linked Reports button (\square). The Linked Report window will appear displaying the available reports. Select the report you want to link and press 'OK.'

• To remove a drilldown select the chart and open the Linked Report window. Click the 'Remove Link' button.



Gauges

A Gauge can be displayed in a report to give a visual representation for the scale of a value. To insert a Gauge, select a cell and click the Insert Gauge button ($^{\circ}$). The Gauge Wizard will appear. The Gauge Wizard has two tabs: Appearance and Data.

Note: Gauges can be placed in any section of the report.

Complete the	steps ir	the wizard below to create a gauge
Appearance	Data	

Appearance

In the Appearance tab select the Type and Dimension of the Gauge.

- Type Select the icon representing the type of gauge. Available types include: Angular, Linear, Bulb and Thermometer.
- There are three ways to the size of the Gauge.
 - \circ $\;$ Enter the height and width in the dimension boxes.



- Resize the gauge by dragging the lower right corner in the preview.
- Check the box 'Fit to Cell'.

	Gauge Wizard	
omplete the steps in the wizard be Appearance Data	low to create a gauge	
Type		
Dimensions Height Width 123 🔷 442 🗢 Fit to Cell		
Cancel	< Previous Next >	🎘 Finis
	500,000	
	250,000 750,000	
	o 🔤 🖉 🛄 1,000,000	

Data

In the Data tab select the Data Values and Color Ranges for the Gauge.

- Use the Data Values drop-down to select the cell that contains the numeric value for the Gauge.
- Use the 'Provide range as' buttons to specify if the Min and Max values for the Gauge should be static numbers or come from cells on the report.
- In the Color Ranges, use the 'Color By' buttons to specify if colors ranges should be percentages of the Max value, static numbers or come from cells on the report.

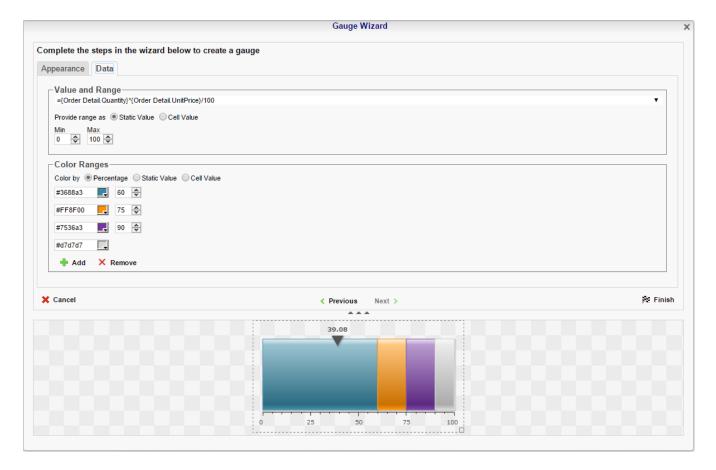
Note: Percent Color Ranges must be in ascending numeric order.

Use the Add (Add) and Remove (Remove) buttons to create additional colors.

Note: Thermometer Gauges can only have one color.

• To change a color either select use the drop-down (\square) or enter a Hex value.

Exago User Guide



CrossTabs

Crosstabs allow the report to expand both horizontally and vertically based on data values and displays summary information where each column and row meets. A CrossTab consists of three parts; **Row Headers, Column Headers** and **Tabulation Data**. Additional settings for CrossTabs can be found in the **CrossTab Options Menu**.

Note: For the section a CrossTab is in, all the cells below and to the right of a CrossTab must be empty.

Section		A	В	С	D	E	F
	1			Year	=Year({Order	s.OrderDate})	
Report Footer	2	Category	Product	Month	=Month({Ord ers.OrderDa te})	Annual Total	Total
	3	Categories.C	ategoryName				
	4		Products.Prod	ductName	Orders.OrderID	Orders.OrderID	Orders.OrderID
	5		Category To	tal	Orders.OrderID	Orders.OrderID	Orders.OrderID
	6	Total			Orders.OrderID	Orders.OrderID	Orders.OrderID

Row Headers



Row Headers expand a CrossTab vertically. A CrossTab has a row for each unique value of a Row Header. For example if you were using sales data you may have the Row Headers Category.CategoryName and Products.ProductName to provide rows for each product grouped by category (see image below).

- To add a Row Header either drag and drop it to the 'Row Header Source' panel or use the 'Add Row Header' button ($+\equiv$).
- Click the **Formula Editor** Button (f_x) to insert a formula into the Row Header.
- Click the Edit Header button (${\ensuremath{\mathbb I}}$) to open the Deader Options Menu. In the Header Options Menu you can:
 - $\circ~$ Set a Label for the Row Header. This label will appear at the top of the CrossTab.
 - Select a Sorting Method and direction.
 - None- Does not sort the Row Headers
 - Header Value (Text) Sorts the Row Header by its values as though they are text.
 - Header Value (Number) Sorts the Row Header by its values as though they are numbers.
 - Tabular Totals Sorts the Row Header by the totals of the Tabulation Data.

Note: If there is more than one Row Header the Header Options Menu for the top most Row Header will have Options for sub-totals of Tabulation Data.

- Select where to display subtotals by using the Placement dropdown.
 - None Does not display subtotals.
 - Top Displays subtotals above the Tabulation Data for each Row Header value.
 - Bottom Display subtotals below the Tabulation Data for each Row Header value.
- Set a label for the subtotals.
- Use the up and down arrows to rearrange the order of the Row Headers.
- To remove a Row Header click the delete button (\times) .



Header Options	×	
General Options		
Label		
CategoryName		
Sort Options		
Method Direction		
None Ascending	•	
V OK 🔀 Cancel		
yout		
Row Header Source		
Categories.CategoryName	<i>f</i> ∞ 🗹 🕈 🗸	
		ŀ

Column Headers

Column Headers expand a CrossTab horizontally. A CrossTab has a column for each unique value of a Column Header. For example if you were using sales data you may have the Column Headers 'Year({Order.OrderDate})' and 'Month({Orders.OrderDate})' to provide columns for each month grouped by year (see image below).

• To add a Column Header either drag and drop it to the 'Column Header Source' panel or use the 'Add Column Header' button (+III).

• Click the **Formula Editor**Button $(f_{\mathbf{x}})$ to insert a formula into the Column Header.

- Click the Edit Header button (${\ensuremath{\mathbb Z}}$) to open the Header Options Menu. In the Header Options Menu you can:

- Set a Label for the Column Header to appear at the top of the CrossTab.
- Select a Sorting Method and direction.
 - None- Does not sort the Column Headers
 - Header Value (Text) Sorts the Column Header by its values as though they are text.
 - Header Value (Number) Sorts the Column Header by its values as though they are numbers.



• Tabular Totals – Sorts the Column Header by the totals of the Tabulation Data.

Note: If there is more than one Column Header the Header Options Menu for the top most Column Header will have Options for sub-totals of Tabulation Data.

- Select where to display subtotals by using the Placement dropdown.
 - None Does not display subtotals.
 - Left Displays subtotals to the left of the Tabulation Data for each Column Header value.
 - Right Display subtotals to the right of the Tabulation Data for each Column Header value.
- \circ $\;$ Set a label for the subtotals.
- Use the up and down arrows to rearrange the order of the Column Headers.
- To remove a Column Header click the delete button (\times) .

He	eader Option	าร
General Options		
Label		
Year		
Sort Options		
Method		Direction
Header Value (Numbe	r) 🔻	Ascending •
Total Options Placement Label None Total		
🗸 0	K 🗙 Car	ncel

Layout

1	Row Header Source					
	Categories.CategoryName	f×.		Ŧ	÷	×
ſ	Products.ProductName	f×.		Ŧ	÷	×
	Column Header Source					
	Column Header Source =Year({Orders.OrderDate})	f×.	Ø	+	+	×

Tabulation Data

Tabulation Data provides information when data exists for the Column Header and Row Header values. For example if you have a Row Header on products and a Column Header on the month, then Tabulation Data of Orders.OrderID may use the Count function to display how many orders contained each product each month.

• To add a Tabulation Data either drag and drop it to the 'Tabulation Data' panel or use the 'Add Tabulation Data' button (+ \blacksquare).

• Click the **Formula Editor** Button (f_x) to insert a formula into the Tabulation Data.

• Click the Edit Tabulation button (\square) to open the Tabulation Options menu. In the Tabulation Options Menu you can:

- Set a Label for the Tabulation Row to appear at the beginning of each row.
- Use the Method dropdown to select the summary function to be applied to the Tabulation Data.
 - Sum: Totals the Tabulation Data.
 - Count: Counts the Tabulation Data.
 - Average: Take the mean of the Tabulation Data.
 - Minimum: Displays the lowest value in the Tabulation Data.
 - Maximum: Displays the highest value in the Tabulation Data.
 - None: Displays the value of the Tabulation Data without applying any formula.
- $\circ~$ Use the Value dropdown to select how the Tabulation Data should be displayed.
 - Aggregate: Display the result of the selected Method.
 - Percent of Row: Display the result of the selected method as a percentage of the row total.
 - Percent of Colum: Display the result of the selected method as a percentage of the column total.
- Use the up and down arrows to move the Tabulation Data order.
- To remove a Tabulation Data click the delete button (\times) .



Та	abulation Options	×						
-General Option	ns	,						
Label								
- Tabulation Op	tions	-						
Method	Value							
	Aggregate ·							
		-						
		_						
~	OK 🗙 Cancel							
v	OK 🗙 Cancel							
out	•••							
out Categories.Category	Row Header Source			f×.		+	+	×
	Row Header Source			fx fx		†	++	××
Categories.Category	Row Header Source			fx fx		+ +	++	××
Categories.Category	Row Header Source /Name me			fx fx		†	+	××
Categories.Category Products.ProductNa	Row Header Source Name Ime Column Header Source					- 7		
Categories.Category Products.ProductNat	Row Header Source /Name me Column Header Source Date})			f×.	Z	+	+	×
Categories.Category Products.ProductNa	Row Header Source /Name me Column Header Source Date})			f×.		+	+	×
Categories.Category Products.ProductNat	Row Header Source /Name me Column Header Source Date})			f×.	Z	+	+	×
Categories.Category Products.ProductNat	Row Header Source /Name me Column Header Source Date})			f×.	Z	+	+	×

CrossTab Themes

The Theme dropdown can be used to quickly style the CrossTab using one of the predefined themes. Further styling can be done to the cells of the CrossTab in the **Report Designer**.

CrossTab Options

Settings that affect the entire CrossTab are controlled in the CrossTab Options Menu. Open

the CrossTab Options Menu by clicking the Options button (Options). Using this menu you can adjust the following settings:



General

- Use the Row Headers Placement dropdown to determine how the Row Headers are displayed.
 - Columns Display the Row Headers in columns from left to right in their order in the Row Header Source panel.
 - Hierarchical Display Row Headers in a hierarchical structure using indentation to display their order.
- Check 'Repeat CrossTab Header every new page' to repeat Row Header labels and Column Headers on each new page.

Grand Total Row

• To get a total for each column, select 'Top' or 'Bottom' from the Placement dropdown in the Grand Total Row section and provide a label in the Label text box.

Grand Total Column

• To get a total for each row, select 'Top' or 'Bottom' from the Placement dropdown in the Grand Total Column section and provide a label in the Label text box.

C	
General —	
Row Headers F	Placement
Columns	•
Repeat (CrossTab Header every new page
Grand Tota	Row
Placement	Label
Bottom •	Total
Grand Tota	I Column
Placement	Label
Right •	Total
and the second sec	

Renaming Reports



	Report Name	×
	Enter the report name	
- 🖻 🕂 🕄 .	Select folder for the report	
p Rename	Financial Holdings Reports E Retail Customers Reports	
Description	Sales Reports	
Categories	Seasonal Reports	
Sorts	 University Student Reports Wholesale Customer Reports 	
7 Filters		
) Options		
j Template		
Advanced +	V OK X Cancel	

Changing Description

The report description appears at the bottom of the **Main Menu**. Though report descriptions are optional they are utilized when searching reports. To change a report description click 'Description' in the Toolbar drop-down menu. Fill in the description and click 'OK.'

⊙• ¢	Rename
=	Description
=	Categories
A	Sorts
∇	Filters
0	Options +
ß	Template
000	Advanced +

Changing Data Categories

Before explaining how to make Data Categories accessible it is important to clarify two terms: Data Category and Data Field.

Data Category – A Data Category is an object that has a group of attributes. Ex. Orders is a category; each order has an ID, a date, a customer etc.

Data Field – A Data Field is a single attribute within a Data Category. Ex. Orders.OrderID is numeric value that identifies a specific order.

To modify the Data Categories click 'Categories' in the Toolbar drop-down menu.

- To add a Data Category to a report either drag and drop it to the 'Category Name' panel, use the 'Add' button or double-click it.
- To see what Data Fields are in a Category click the information button $(\mathbf{0})$.
- Check the 'Suppress Duplicate' button to prevent duplicate information from appearing on the report.
- To remove a selected Category click the delete button (\times) .

				Re	port Categories	×
<u>۰</u>		Select categories to include on report				
¢þ	Rename	Categories		Suppress Duplicates	Category Name	
		Customers Employees			Categories	×
-	Description	Employee Territories			Products	×
_	A	OrderDetails			OrderDetails	×
-	Categories	Orders			Orders	×
A	Sorts	Products Region	4 4 4			
∇	Filters	Shippers Suppliers				
0	Options +	Diversity				
ß	Template	🔶 Add	0			
000	Advanced +			v (OK 🗶 Cancel	

Changing Sorts

To modify the sort criteria of a report click 'Sorts' in the Toolbar drop-down menu.

• To sort by a Data Field either drag and drop it to the 'Sort by' panel, use the 'Add' button or double-click it.

- Use the up and down arrows to indicate the sort priority.
- You can sort each field in ascending (A- Z) or descending (Z-A) order.
- To remove a sort click the delete button (\times) .



		Report Sorts >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		Select sort fields
		Categories Sort By Sort Order
0-		CategoryID CategoryName Description
ςþ	Rename	Picture
-	Description	
1.00		•
=	Categories	
Az	Sorts	
∇	Filters	
0	Options +	
ß	Template	💠 Add
000	Advanced +	V OK 🗙 Cancel

Changing Filters

To modify the filter criteria of a report click 'Filters' in the Toolbar drop-down menu. There are three types of filters: **Standard**, **Interactive** and **Group**. Standard filters are based on values you specify. Interactive filters can be applied after running the report to HTML. Group filters are based on the minimum or maximum value in the Data Field.

Standard Filters

There is no limit to the number of filters that you can define. Filters can be numeric (up to eight decimals) or alphanumeric.

- To filter a Data Field either drag and drop it to the 'Filter By' panel, use the 'Add' button or double-click it.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times).
- Set the operator (equal to, less than, one of, etc.) by selecting from the operator dropdown.

• To set the value to filter on either enter it manually or select from the drop-down. If the Data Field is a date you may use the calendar or function buttons to select a value.

- To allow the filter to be modified at the time the report is executed check `Prompt for Value.'

• Use the And/Or drop-down to specify the relationship between filters. Choose AND to require that the selected filter and the one below it are both true. Choose OR to require that either be true.

• Check 'Group with next filter' to indicate the precedence of the filters.



Interactive Filters

Interactive Filters can be created in the Interactive HTML Options Menu. These filters can be enabled, disabled or modified after executing the report to HTML. For more information see **Interactive HTML Options**.

Group (Min/Max) Filters

Group filters are based on the minimum or maximum value in the Data Field. To modify group filters click 'Switch to Group(MIN/MAX) filters. There is no limit to the number of group filters you may define.

• To filter a Data Field's minimum or maximum value either drag and drop it to the 'Filter By' panel, use the 'Add' button or double-click it.

- Specify Minimum or Maximum from the operator drop-down.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times) .

			Report Filters	×
		Select filter fields to include on report		Switch to GROUP (MIN/MAX) Filters
		Orders	Filter By	
÷	Rename Description Categories	CustomerID EmployeeID Freight OrderDate OrderDD RequiredDate ShipAddress ShipCity ShipCountry ShipName ShippedDate ShipPedDate ShipPostalCode ShipRegion	Drders.ShipCountry	↑ ↓ X
Az	Sorts	ShipVia	Equal To	~
-			AND With Next Filter	
∇	Filters		Group With Next Filter	
-	Ortions	4 Add	Prompt For Value	
0	Options +	SUMMARY		
ß	Template	Orders.ShipCountry = 'Brazil'		
000	Advanced +		V OK X Cancel	

General Options

Hover over 'Options' in the Toolbar drop-down and then click on 'General' menu to open the Report Options Window. This window allows you to control various settings including default export type and page orientation.

General Options

- Use the Default Export Type drop-down to specify the default format for the report.
- From the 'Include Setup' menu select Top or Bottom to display the data categories, sorts and filters at either the beginning or end of the report.
- Output types may be disabled by unchecking the boxes for 'Allowed Export Types'.



• Use the 'Filter Execution Window' drop-down to select which type of Filter menu displays when executing a report that have prompt for value filters.

- **Default** Display the default type of filter execution window.
- **Standard** Display the standard filter execution window.
- **Simple with Operator** Display a simplified filter execution window that only allows the operator and value to be changed.
- **Simple without Operator** Display a simplified filter window that only allows the filter value to be changed.
- Check 'Always Show Filter Execution' to show the filter menu and allow changes to be made each time the report is run.

• Use the 'No Data Qualify Display Mode' to select what to display if no data qualifies for the report.

- **Show Message** Display the standard no data qualified message.
- Show Report Display the Page Header, Page Footer, Report Header and Report Footer sections of the report. Any cells containing Data Fields will not be displayed.

Excel Options

• Check 'Suppress Formatting' to prevent the report formatting from exporting to Excel.

Page Options

- Specify the size for the report in the 'Page Size' menu. Default is letter.
- Set the orientation for the report in the 'Orientation' menu. Default is Portrait.
- Check `Fit to Page Width' to scale all columns to fit the width of the page.



	Report Options ×
Image: Orgonic state Image: Orgonic state	General Options Default Export Type Default Allowed Export Types: HTML Allowed Export Types: HTML Filter Execution Window Default Always Show Filters on Execution No Data Qualify Display Mode Show Report Excel Options Suppress Formatting Page Options Page Size Letter Page Orientation Portrait
⊙ Options → ⊙ General	Fit to Page Width
Template Advanced	V OK 🔀 Cancel

Interactive HTML Options

Hover over 'Options' in the Toolbar drop-down and then click on 'HTML' menu to open the Interactive HTML Options Menu. This window allows you to control what interactive capabilities a user has when viewing HTML reports.

		1	Report	HTML Options x
Or Arial	General	Categories	•	Filter
CD Rename Image: Constraint of the second s	Sorts	CategoryID CategoryName Description Picture		Title
Options O General Imi Template ✓ Html				Type Value Sort Direction
→ Advanced → Item . Item 4		🔶 Add		Single Choice Ascending Ascending Ascending Ascending Ascendi
			🗸 ок	X Cancel

General

- Uncheck 'Show Grid' to disable grid lines.
- Uncheck 'Simulate PDF' to have the report appear as though it is not on a page.
- Uncheck 'Allow Hide/Show Columns on Execution' to disable the **Hide Columns** tools.



	Report HTML Options	×
General Filters Sorts		
	🗸 OK 🛛 🗶 Cancel	

Filters

Interactive Filters are filters created on either Data Fields or Formulas and then enabled after executing a report to HTML.

• To filter a Data Field either drag and drop it to the 'Filter' panel, use the 'Add' button or double-click it. To filter by a formula first add a Data Field then use the formula button (f_x) to open the **Formula Editor**.

- In the Title box provide a name for the interactive filter.
- Use the Type dropdown to specify what kind of interactive filter to display:
 Single Choice: A dropdown with the possible values of the filter.

Ξ	Filters	٢
Numbe	er of Products	×
1		•

 $_{\odot}$ Multiple Choice: All possible values for the filter presented with check boxes to select a one or more values.

	Filters	\bigcirc
Number o	of Products	×
1		
2		
3		
4		-

• Single Slider: Select the filter value by sliding a point along a scale.





• Range Slider: A scale that displays values between two points.

	Filters	٢
Numbe	er of Products	×
1		5

- Click the Format button () to open the format menu and specify how the filter values should be displayed.
- If filtering on an **Aggregate** formula such as AggSum() use the 'Calculate Value Ever' dropdown to select on which sorted field or category the aggregate should be applied.
- Use the 'Value Sort Direction' to specify if the filter values should display in ascending or descending order.
- Check the 'Initially Display Filter on Panel' box to have the filter enabled automatically when the report is executed to html.

General	Employees	•		ilter	-		-	
Sorts	Address BirthDate City Country EmployeeID Extension FirstName HireDate HomePhone LastName Notes Photo PhotoPath PostalCode Region ReportsTo Title TitleOfCourtesy		Image: Title Year Hir Value Sort Direction Ascending Image: The second se	Type Single Choic	9	•		×

Sorts

Interactive sorts can be used to change the direction of a report's **Sorts** while viewing the report as HTML.

- Uncheck 'Display sorts on Execution' to hide interactive sorts in the HTML Dock.
- In the Title column provide a name for each interactive sort.

General	Display sorts on Execution		
liters	Sort	Title	
Sorts	Employees.Region	Region	
	Employees.LastName	Last Name	
	Employees.FirstName	First Name	

Advanced Options

Click 'Advanced' in the Toolbar drop-down menu to open the Advanced Options window. This window allows you to specify additional information about how the Data Categories relate to each other.

If a report has two or more Data Categories, then information will only appear if it matches both categories. Using the check boxes, specify information that you want displayed even if it only exists in one of the Data Categories. For example if a report has two Data Categories, Orders and Customers, then only customers who have made orders will appear. By checking the appropriate box you can include information on customers that have not made orders.

	Joins	
	Select options below Advanced Options	
⊙ - 🖹 • 🗊 / Arial	In addition to OrderDetails data that has matching Orders data, include: OrderDetails data that does not have Orders data Orders data that does not have OrderDetails data 	Z :
Construction	In addition to Orders data that has matching Employees data, include: Orders data that does not have Employees data Employees data that does not have Orders data	2:
Categories 2 Sorts 4		
v Filters 4		
⊙ Options ►		
Template Advanced Advanced	Add C Recreate	
••• Advanced • >- Joins	V OK 🔀 Cancel	

More Advanced Options



If you have been given permissions, additional options are available in the Advanced Menu. Before explaining how to use these options it is important to clarify the definition of a join.

Join – A join defines how two Data Categories are related. Each join has a 'From' Category and a 'To' Category. The From and To object must have one (or more) Data Fields that contain the same information.

Ex. A join exists between two Data Categories: *Orders* and *Customers*. The join goes 'From' Customers 'To' Orders. In this example, when a customer makes an order that customer's ID is saved with the order. Thus, the Orders Category has the Data Field CustomerID. This Data Field matches the Data Field CustomerID in the Customers Category. This join assures that each customer is paired with the orders that they have made.

- To add a new join click the Add button (+ Add).
- To edit a join click the edit button ($\ensuremath{\sc M}$).
- Restore the default joins by clicking the Recreate button (C Recreate).
- To remove a join click the delete button (\times) .

In addition to OrderDetails data that has matching Orders data, include:		
OrderDetails data that does not have Orders data	Z	×
Orders data that does not have OrderDetails data		
In addition to Orders data that has matching Employees data, include:	100	
Orders data that does not have Employees data		×
Employees data that does not have Orders data		

When you click the Add or Edit buttons the Report Join Menu will appear. In this menu you can create or modify a Join for the report.

• To set the From Category select a Data Field from the Category and drag it into the

'Join From' panel or use the 'Add From' button (+ Add From).

To set the To Category select a Data Field from the Category and drag it into the 'Join To' panel or use the 'Add To' button (Add To').

• Use the Up and Down Arrow buttons (↑ ↓) to reorder the Data Fields. The position of each Field in `Join From' should match the position of its corresponding Field in `Join To'. Ex. In the image below Customers.CustomerID corresponds to Orders.CustomerID so both Fields are at the top of their sections.

		Report Join	
Select join fields			
Employees	•	Join From	
Address BirthDate City Country EmployeeID Extension FirstName HireDate HomePhone LastName Notes Photo PhotoPath PostaICode Region ReportsTo TitleOfCourtesy		Order Detail.OrderID Join To Orders.OrderID	+ + ×

Document Template

Reports can also be used to fill in PDF, RTF or Excel templates such as internal or government documents. Click 'Templates' in the drop-down menu to open the 'Document Template' window.

- Before using the Templates window put your data into the cells of your report.
- From the top drop-down select the template you want to use.
- In the 'Report Field' column specify which cell of the report corresponds to each 'Template Field'.

Once the fields are complete, **running the report** in the same format as the template will produce a filled in template.

The example below shows the fields being set in the Document Template window and the output when the report is run as a PDF.



	w9.pdf	ect a template from the list		Ť
	wa.pui			
	Template Field		Report Fiel	d
ess		Detail: Emp	loyees.Address	
ness N	lame	Detail: Nort	hWind Food Suppliers Inc	2.
State,	, Zip		nployees.City} & ', ' & {Em es.PostalCode}	nployees.Region}& ', '
e		Detail: ={En me}	nployees.LastName} & ', '	& {Employees.FirstN
•		VOK 🗙 Cance	i Maria da la secona da se	
Departn	December 2011) ment of the Treasury Revenue Service Name (as shown on your income tax return)	Request for Taxpaye tion Number and Cer		Give Form to the requester. Do not send to the IRS.
(Rev. D Departn Internal	December 2011) ment of the Treasury Revenue Service Name (as shown on your income tax return) Buchanan, Steven	tion Number and Ce		requester. Do not
(Rev. D Departn Internal	December 2011) ment of the Treasury Revenue Service Name (as shown on your income tax return)	tion Number and Ce		requester. Do not
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(Rev. D Departn Internal	December 2011) ment of the Treasury Revenue Service Name (as thown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification:	tion Number and Ce	rtification	requester. Do not send to the IRS.
(Rev. D Departn Internal	December 2011) ment of the Treasury Revenue Service Name (as thown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification:	tion Number and Cer bove	Trust/estate	requester. Do not
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(Rev. D Departn Internal	December 2011) Identificat met of the Tressury Revenue Service Name (as thown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification: Individual/sole proprietor Check appropriate box for federal tax classification: C Corporation Limited liability company. Enter the tax classification Other (see instructions) > Address (number, street, and pat, or suite no.)	tion Number and Cer bove	Trust/estate	Exempt payee
Print or type Specific Instructions on page 2.	becember 2011) becember 2011) becember 2011) Brevense View Buchanan, Steven Buchanan, Steven Buchanan, Steven Buchanan, Steven bushess name/disregarided entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for foderal tax classification: Limited liability company. Enter the tax classification Limited liability company. Enter the tax classification Other (see instructions) Address (number, street, and apt. or suite no.) 14 Garrett Hill	tion Number and Cer bove	rtification	Exempt payee
(Rev. D Departn Internal	December 2011) Identificat met of the Tressury Revenue Service Name (as thown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification: Individual/sole proprietor Check appropriate box for federal tax classification: C Corporation Limited liability company. Enter the tax classification Other (see instructions) > Address (number, street, and pat, or suite no.)	tion Number and Cer bove	rtification	Exempt payee
Print or type Specific Instructions on page 2.	becember 2011) Identificat Revenue Service Name (as shown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification: Address (number, street, and apt. or suite no.) 14 Garrett Hill Chy, state, and ZIP code	tion Number and Cer bove	rtification	Exempt payee
Print or type See Specific Instructions on page 2.	December 2011) Identificat Revenue Service Name (as shown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification: Check appropriate	tion Number and Cer bove S Corporation Partnership (C=C corporation, S=S corporation, P=p	rtification	Exempt payee
Buint or type Beactige Instructions on page 5. See Specific Instructions on page 5.	December 2011) Identificat Revenue Service Name (as shown on your income tax return) Buchanan, Steven Business name/disregarded entity name, if different from a NorthWind Food Suppliers Inc. Check appropriate box for federal tax classification: Check appropriate	tion Number and Čei bove S Corporation Partnership (C=C corporation, S=S corporation, P=p (TIN) ust match the name given on the "1 coial security number (SSN). Howe Part I instructions on page 3. For	Trust/estate artnership)► Requester's name and address Varme" line ver, for a	equester. Do not send to the IRS.



Duplicating Reports

Duplicating reports can save time. This feature is used to create a new report that is similar to an existing one. Instead of creating the new report from scratch, you can duplicate an existing report, rename it, and make your changes.

- 1. On the **Main Menu**, select the report you want to duplicate.
- 2. Click the Duplicate button. The Rename Report Window will open.
- 3. Type the name of the new report into the Report Name field.
- 4. Select the folder where the report will be saved.
- 5. Click OK.



Deleting Reports

Deleting a report removes the report and all of its components.

To delete an existing report:

1. On the **Main Menu**, select the report you want to delete.

2. Click the Delete button ($\textcircled{\sc b}$). A dialog box displays asking if you are sure you want to proceed.

3. Click OK on the dialog box. The report is deleted.

Important: Once the report is deleted, there is **no way** to restore it.

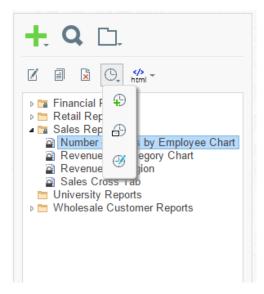


Scheduling Reports

Reports can be scheduled to be emailed. A scheduled report can be run and emailed immediately or scheduled to be emailed on a recurring basis. The Scheduler Menu lets you schedule and email reports or edit existing schedules.

To open the Scheduler Menu:

- 1. In the Main Menu, select the report you want to schedule/email.
- 2. Click the Scheduler Menu button ($^{\bigcirc}$). The Schedule Menu will appear.



- a. To Schedule a report click new schedule button (⁴). The **Schedule Report Wizard** will open in a new tab.
- b. To email a report click email button (). The **Email Report Menu** will appear.
- c. To edit existing schedules click the edit schedule button ($\overset{\textcircled{}}{\textcircled{}}$). The **Schedule Manager** will open in a new tab.

Note: If you do not see a Schedule Report button in the Main Menu then you do not have Report Scheduler permissions and should contact your administrator.



Schedule Report Wizard

The Schedule Report Wizard has four sub tabs. The Recurrence and Recipients tab are required.

- 1. Recurrence: Specify the name and format of the report and when the report should be sent out.
- 2. Parameters: (optional) Set values for any parameters used by the report.
- 3. Filters: (optional) Add filters to the report.
- 4. Recipients: Specify the recipient addresses, subject and body text of the email.

4	Schedule Re	eport ×			
	Complete the	steps in the w	izard bel	ow to sched	ule a report
	Recurrence	Parameters	Filters	Recipients	

Click Finish and Report Schedule Wizard tab will be saved and the tab will close.



Recurrence Tab

In the Recurrence Tab, give the schedule a name and format. Set the frequency you want the report to be run and sent out. This recurrence can be a one time, a daily, a weekly, a monthly, or a yearly delivery. A date range can also be set to give the report delivery a defined start and end date.

- Give the Schedule a Name and select an export type from the drop-down.
- For PDF reports a password may be set. The password may require a minimum number of upper/lowercase letters or numbers. To find out the required password strength, hover the mouse over the Password box.
- To execute and send the report immediately, check the box 'Execute Immediately'.
- Schedule Time
 - $\circ~$ Set the time of day the report should be run by entering a time in the Schedule Time box.
 - Check 'Repeat every' and then specify a time interval to have the schedule be sent on a recurring basis on the day(s) specified in as the Recurrence Pattern.
- Recurrence Patterns
 - Once Specify to run the report on a specific day or immediately.
 - Daily Send the report every weekday or every set number of days
 - Weekly Send the report on specific days of the week.
 - Monthly Set the day of the month to send the report.
 - Yearly Set the day of the year to send the report.
- Range of Recurrence
 - Use the Range of Recurrence section to set a start day and an end day for the report schedule.

ecurrence P	arameters Filters Recipients
Schedule Nan	ne
Basic Report	
Export Type	Excel Password (optional) Confirm Password
Export Type	Excel Password (optional) Contirm Password
Execute Ir	mmediately
CSchedule Ti	ime
Schedule Ti	ime 11:24 am 😋 📃 Repeat Every
	1 nur(s) 0 nur(s), until
Recurrence	Pattern
Once	
O Daily	Recur every 3 🚔 week(s) on:
· · ·	
	Contrady Contrady Contractional Contractions
	Saturday Saturday
● Yeany	
 Weekly Monthly 	y Thursday Friday Saturday
Yearly	

Parameters Tab

In the Parameters tab enter a value for each of the parameters listed.

Note: The Parameters Tab will only be visible if the report is utilizing parameters. See **Parameters** for more information.

4	Schedule R	eport ×				*0
(Complete the	steps in the v	vizard be	low to schedule a re	port	
	Recurrence	Parameters	Filters	Recipients		
		Para	ameter Nam	e	Value	
	Company I	D				

Filters Tab

In the Filters Tab create statements to filter the data at runtime. There are two types of filters: **Standard** and **Group**. Standard filters are based on values you specify. Group filters are based on the minimum or maximum value in the Data Field.

Standard Filters

There is no limit to the number of filters that you can define. Filters can be numeric (up to eight decimals) or alphanumeric.



- To filter a Data Field either drag and drop it to the 'Filter By' panel, use the 'Add' button or double-click it.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times).
- Set the operator (equal to, less than, one of, etc.) by selecting from the operator dropdown.
- To set the value to filter on either enter it manually or select from the drop-down. If the Data Field is a date you may use the calendar or function buttons to select a value.
- To allow the filter to be modified at the time the report is executed check `Prompt for Value.'

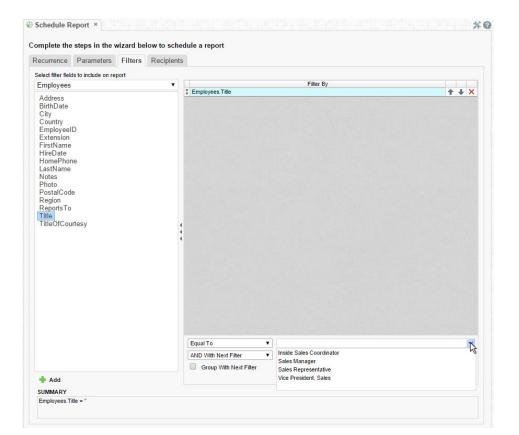
• Use the And/Or drop-down to specify the relationship between filters. Choose AND to require that the selected filter and the one below it are both true. Choose OR to require that either be true.

• Check 'Group with next filter' to indicate the precedence of the filters.

Group (Min/Max) Filters

Group filters are based on the minimum or maximum value in the Data Field. To modify group filters click 'Switch to Group(MIN/MAX) filters. There is no limit to the number of group filters you may define.

- To filter a Data Field's minimum or maximum value either drag and drop it to the 'Filter By' panel, use the 'Add' button or double-click it.
- Specify Minimum or Maximum from the operator drop-down.
- Use the up and down arrows to indicate the filter priority.
- To remove a filter click the delete button (\times).



Recipients Tab

In the Recipients Tab determine how the schedule will be delivered and list the email address(s) the report should be sent to. Email addresses should be separated by a semicolon (;).

- Check 'Email Results' to have the report sent via email. Uncheck this option to have it saved to a repository.
- In the To field set the email address(s) that the report will be delivered to.
- In the Cc field set any address(s) to be carbon copied.
- In the Bcc field set any address(s) to be blind carbon copied.
- Set the subject of the email in the Subject field.
- In the Body field enter the text of the email to be sent with the report. To reference the report name use `@reportName@'.

exa

Exago User Guide



ecurrence	Parameters	Filters	Recipients	
				Email Results
To:	email@	@address.	com	
Cc:				
Bcc:				
		shodulod re	enort 'Number of Sal	es by Employee Chart' has been completed.
Subject:	The so	Inequied re	eport reamber of Oal	es by Employee chait has been completed.
Subject:	The so	neuuleu le	eport Number of Oa	es by Employee chart has been completed.
Subject:	The so			es by Employee chart has been completed.
Subject:	The so			es by Employee chart has been completed.
Subject:	The so			es by Employee chart has been completed.

Email Report

In the **Scheduler Menu** use the icon ($\textcircled{\textcircled{B}}$) to email a report. An input field and execute button will appear.

- In the input field enter the email address.
- Click the drop-down arrow to change the format of the report.
- Click the execute button to run and email the report.

Note: You cannot email reports as HTML format.

Image: Apple of the second	
Retail Rep Retail Rep Sales Rep Number Revenue Revenue Revenue Revenue Revenue	s.com
 Sales Cross Tab University Reports Wholesale Customer Reports 	, pdf ≡≡ rtf
	X. CSV



Manage Scheduled Reports

Scheduled Reports can be monitored, edited and removed using the Manage Scheduled Reports tab. To open the tab click the scheduler icon ($^{\textcircled{}}$) in the **Main Menu** then click ($^{\textcircled{}}$). The Manage Scheduled Reports tab will appear.

C Refresh	🗍 Flush						
lser Id	Schedule Name	Туре	Report Name	Last Run Date	Next Run Date	Status Run Count	

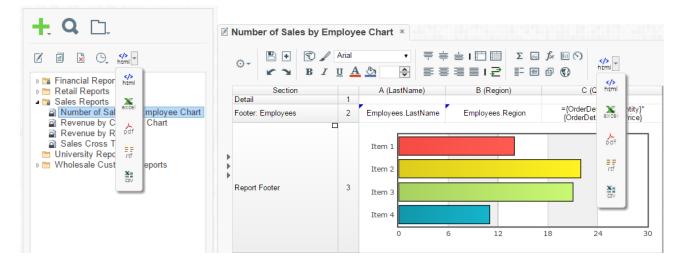
- Click at the top of a column to sort the scheduled reports by that column.
- To update the status and list new schedules click the Refresh button.
- To removed completed schedules click the Flush button.
- Click the Edit icon ($\ensuremath{\underline{\mathbb{M}}}$) to open the Schedule Report Wizard and modify the report.
- To delete a schedule click the delete icon (\times).



Running Reports

Reports can be run from the **Main Menu** or the **Report Design Tab**.

In the Main Menu select the report you want to run by clicking on it. With the report highlighted click the Run Report button. To change the output format click the drop-down and select from the available formats (HTML, Excel, PDF, RTF, or CSV).



In the Design Tab click the Run Report button. To change the output format click the dropdown and select from the available formats (HTML, Excel, PDF, RTF, or CSV). See **Report Options** to change the default format for the report.

Interacting with HTML Reports

After running a report to HTML you can make further modifications such as adjusting styles, resizing columns, applying filters, conditional formatting and more. These changes can be exported to other formats, saved to report or saved as a separate copy of the report.

For these interactions to be available they must be enabled in the **Interactive HTML Options Menu** in the report designer.

Changing Styling

While viewing an html report right click a cell to open the style menu. Using this menu you can change font, size, foreground and background color, bold, italic, underline and alignment options.



	B <i>I</i> Tahoma	<u>u A</u>	8 🖄	•		
ProductNyme		Unit	Price	Q)uantity	
Mozzarella di Giovari 🕅			34.80			5

Resizing Columns

The columns of an html report can be resized by dragging the light grey bar at the top of the page to the desired size.

		+	•		
		c	order Info		
OrderID	Order Date	ProductName	UnitPrice	Quantity	LastName
10248	04/07/96	Mozzarella di Giovanni	34.80	5	Buchanan, Steven
		Queso Cabrales	14.00	12	Buchanan, Steven
		Singaporean Hokkien Fried Mee	9.80	10	Buchanan, Steven
10249	05/07/96	Manjimup Dried Apples	42.40	40	Suyama, Michael
		Tofu	18.60	9	Suyama, Michael
10250	08/07/96	Jack's New England Clam Chowder	7.70	10	Peacock, Margaret
		Louisiana Fiery Hot Pepper Sauce	16.80	15	Peacock, Margaret
		Manjimup Dried Apples	42.40	35	Peacock, Margaret

Applying Interactive Filters

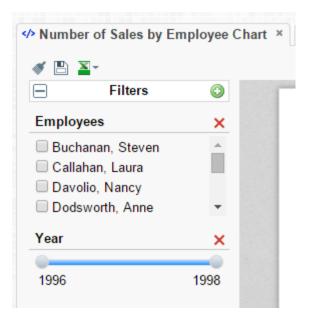
Any available interactive filters can be enabled by clicking the plus button (\bigcirc) in the Filters section of the HTML dock which is located next to the report.

Note: Interactive filters must be defined in the **Interactive HTML Options Menu**. Additional filters can be created directly on the html report by right clicking. See **Conditional Filters** for more details.



After enabling a filter use the checkbox, dropdown or slider to select what values should appear on the report. After selecting a value the report will refresh with the filter applied.

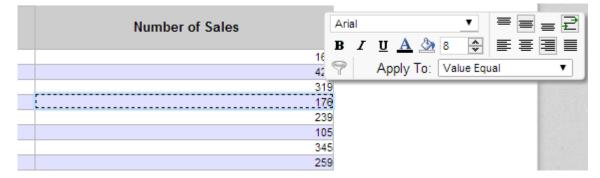
Click the minus button (\times) to remove an active filter. Again the report will refresh to deactivate the filter.



Conditional Filters

While viewing an HTML report you can set filters on specific values in addition to the predefined **interactive filters**.

To create a conditional filter right click on a cell of the report, choose and operator from the 'Apply To' dropdown then click the filter button (\Im).

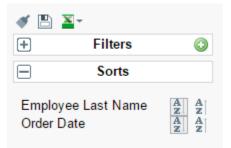


The conditional filter will appear in the Dock below the interactive filters and sorts.

ø 🗄	- ×	
+	Filters	0
+	Sorts	
	Conditional Filters	•
Valu	es Greater Than	×
194.6	5	

Changing Sorts

In the dock next to the report you can change the direction of any sorts on the report by clicking the ascending $\begin{pmatrix} \mathbf{A} \\ \mathbf{z} \end{pmatrix}$ and descending $\begin{pmatrix} \mathbf{A} \\ \mathbf{z} \end{pmatrix}$ buttons.



Additionally, you can sort by individual columns of the report by clicking on the light grey bar at the top of the page.



Employee	Number of Sales
Buchanan, Steven	77
Callahan, Laura	191
Davolio, Nancy	230
Dodsworth, Anne	75
Fuller, Andrew	174
King, Robert	127
Leverling, Janet	230
Peacock, Margaret	287
Suyama, Michael	122
Total Number of Sales	1513.00

Hiding Columns

In the dock next to the report you can show/hide the columns of the report by checking/unchecking the column names.

۴.	X -	
÷	Filters	٢
÷	Sorts	
Ξ	Columns	
Re	nployee gion venue	S S S



Saving & Clearing Changes

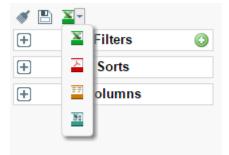
Changes styling, column sizes, sorts and filters can be saved in a number of ways.

In the toolbar above the report:

- Using the Clear dropdown (\checkmark) you can remove any changes made to the report.
- Use the Save button (\blacksquare) to save interactive changes onto the report.
- Use the Save as New Report button (\square) to make a copy of the report with the changes.
- Use the Save Changes as User Report button (⅔) to save your changes as a User Report. The changes will be applied each time you run the report but not when other users run the report.
- Use the Delete User Report button (★) remove any changes that were saved as User Report.

Exporting to Other Formats

From the HTML viewer you can export a report, including any interactive changes, to other formats such as Excel, PDF, RTF, or CSV. To do so use the export button in the toolbar above the report and selected the export format.

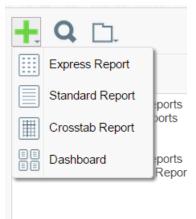




Creating and Editing Dashboards

Dashboards provide an HTML canvas that can display reports, data visualizations, images, text and web pages.

To create a new dashboard, click the New Dashboard icon in the **Main Menu**. The **Dashboard Designer** will appear in a new tab.



Dashboard Designer

The Dashboard Designer can be used to add reports, text, images and web pages to a dashboard.

The Dashboard Designer has four components; the Design Canvas, Tool Box, Data Fields and the Toolbar.





Dashboard Canvas

Within the Dashboard Designer you can:

- Move and resize Dashboard Items
- Style Dashboard Items with alignment, borders, colors, etc.
- Edit Dashboard Items such as Reports, Data Visualizations and Text

Toolbox

By dragging Dashboard Items from the Toolbox onto the canvas you can add the following:

- Reports
- Data Visualizations
- Text
- Images
- Web Pages
- Interactive Filters

Data Fields

After dragging a Data Visualization from the Toolbox on to the Canvas you can add Data Fields by dragging them over the Data Visualization.

Toolbar

Using the toolbar you are able to:

- Rename the Dashboard and modify its description.
- Set the Dashboard to automatically run when entering this tool.
- Change the background color of the canvas.
- Format the font, font size, alignment, color and borders of text.
- Save the dashboard.
- Execute the dashboard as HTML.

Dashboard Items

By dragging Dashboard Items onto the canvas you can add the following items to the dashboard:



- Reports
- Dashboard Visualizations
- Text
- Images
- Web Pages
- Interactive Filters

Adding Reports

To add an existing report to the dashboard drag and drop the Report Button (\square) over the Dashboard Canvas. The Report Properties menu will appear. The Report Properties menu has four tabs: Report, Filters, Parameters and Options.

Report

In the Reports tab select the report you want to display on the dashboard.

		Report Prop	erties	×
Report Filters Parameters	Options			
Select the report that will fill this dashb	ard item.			
 Thiancial Reports Retail Reports Sales Reports Number of Sales by En Revenue by Category G Revenue by Category G Sales Cross Tab University Reports Wholesale Customer Re 	Chart			
		🗸 ок 🗙	Cancel	

Filters

If the selected report has any Prompt for Value Filters, those filters will appear in the Filters tab. In this tab you can specify how to prompt for these filter values.

For each Filter:

- Use the Action dropdown to select how the filter should prompt.
 - Dashboard Prompt When the dashboard executes, you will be prompted for a value that is used by all of the reports on the dashboard that filter using this Data Field.
 - **Report Prompt** When the dashboard executes you will be prompted for a value to filter this specific report.



- **Assign Value** Assign the filter a specific value. This filter will not prompt when the dashboard executes.
- In the 'Data (Prompt Text or Value)' column enter a value if the Action is Assign Value; if the Action is Dashboard or Report Prompt, enter text to use for the prompt.

eport Filters Parameters	Options		
ssign how to handle a report's prom	otable filters.		
Report Filter Prompt	Action	Data (Prompt Text or Value)	
Orders.OrderDate	Dashboard Prompt V	Specify value for Orders.OrderDate:	
		V OK X Cancel	

Parameters

If the selected report has any Prompting Parameters, those parameters will appear in the Parameters tab. In this tab you can specify how to prompt for these parameter values.

For each Parameter:

- Use the Action dropdown to select how the parameter should prompt.
 - **Dashboard Prompt** When the dashboard executes, you will be prompted for a value that is used by all of the reports on the dashboard that parameter.
 - **Report Prompt** When the dashboard executes you will be prompted for a value that is used by this specific report.
 - **Assign Value** Assign the parameter a specific value and do not prompt when the dashboard executes.
- In the 'Data (Prompt Text or Value)' column enter a value if the Action is Assign Value; if the Action is Dashboard or Report Prompt, enter text to use for the prompt.



eport	Filters	Parameters	Options						
		a report's prompt							
company		eter Prompt	Actio Dashboard F		. Cno	cify value for companyld	Data (Prompt Te	ext or Value)	
company	yiu		DasinDuaru P	Tompt	· spe	city value for companyio			

Options

In the Options tab specify settings for how the report displays on the dashboard.

Execute

- In the Title Text box, provide a title for the report. This title will be displayed in on the canvas when editing the dashboard.
- Check 'Allow scrolling' to allow scrolling on the dashboard if the report is larger than the designated size on the canvas.
- Set the number of seconds at which to re-execute the report. Set to 0 to only execute the report when the dashboard is first run.

Design

• Check the 'Only execute report in design screen when report is manually refreshed' to prevent the report from being executed while editing the dashboard.

			Report	Properties		
eport Filters	Parameters	Options				
Execute Report Label:						
 Allow searce Allow scrol 						
Reload Interval	in Seconds (0 means	"never reload")				
Design — Only execu	te report in design sci	reen when report is	s manually refreshe	đ		



Adding Data Visualizations

To create a new Visualization on the dashboard drag and drop the Data Visualization icon (()) onto the Dashboard Canvas. A Data Visualization item will appear.



With the Data Visualization item you can:

- Drag Data Fields onto the item to create a chart or a tabular report.
- Use the Options Menu ([◎]) to filter, name or modify other settings of the Visualization.
- Modify how the Data Fields are grouped and summarized, by opening the Data Model Menu (℃).
- Save the Data Visualization as a new **Standard Report** (•).

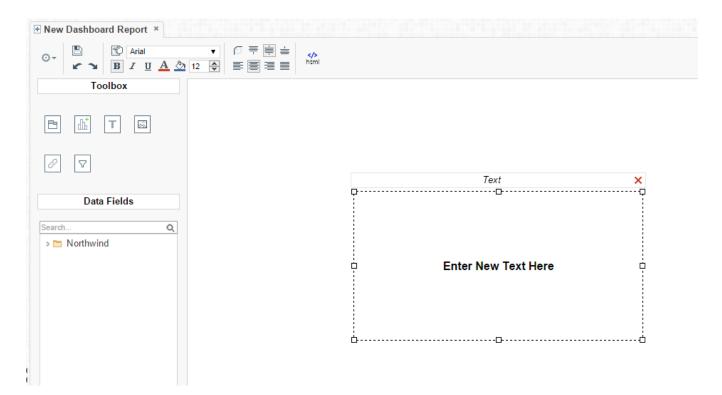
Note: Subsequent changes in the Standard Report Designer will not be reflected on the Data Visualization. To have those changes appear on the dashboard **add the new report** to the dashboard.

• Convert from a chart to tabular report (or vice versa) by selecting 'Convert to Chart' in the right-click menu.

Note: A Data Visualization must have at least two Data fields in order to display a chart, one of which must be numeric.

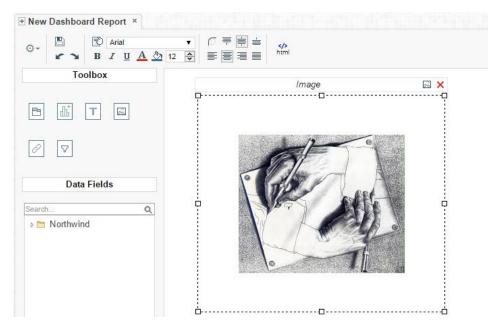
Adding Text

To add text to the dashboard drag and drop the Text icon (\square) over the Dashboard Canvas. A text box will appear. Type the desired text in this box. Use the **Toolbar** to format the text.



Adding Images

To add an image to the dashboard drag and drop the Image icon (\square) over the Dashboard Canvas. An image box will appear. Click the insert image button (\square) and select the image to upload.



Adding Web Pages



To add a web page to the dashboard drag the URL Button (

Canvas. A URL menu will appear. Entire the desired URL and press Ok (\checkmark).

Note: Some web pages will not appear as they do not permit being embedded within another web page.

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Toolbox		
	URL	×
	Location:	
Data Fields	V OK 💥 Cancel	

Adding Interactive Filters

To add an interactive filter to the dashboard drag and drop the Filter icon (\square) over the Dashboard Canvas. The Filter Properties menu will appear. The Filter Properties menu has two tabs: Reports and Filter.

Reports

In the Reports tab select which reports and data visualizations the filter should apply to by checking the box in the Controlled column.

Note: The all of the reports and visualizations being controlled by the filter must share at least one common Data Category.

board I	tonio	Filter				
ontrolled	orts that th	s filter will control.	Daebba	ard Item Name		
Introlled	E Deur	enue by Category Chart	Dashbo	ard item Name		-
		alization 1				
-	En VISUA					



Filter

In the Filter tab specify what data should be used filtered how the interactive filter should appear on the dashboard.

• Use the Filter value dropdown to select the data field that should be filtered.

Note: The filter can be applied to a calculation instead of a data field by using the formula button (f_x) .

- Use the Type dropdown to specify what kind of interactive filter to display:
 - Single Choice: A dropdown with the possible values of the filter.



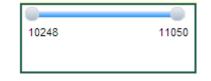
• Multiple Choice: All possible values for the filter presented with check boxes to select a one or more values.

0248	0249	
0250	10251	
10252	10253	

• Single Slider: Select the filter value by sliding a point along a scale.



 \circ Range Slider: A scale that displays values between two points.



- In the style dropdown specify if the filter should be vertically or horizontally oriented.
- In the Value Sort Direction specify if the filter values should appear from least to greatest (ascending) or vice versa (descending).
- Click the Format button () to open the format menu and specify how the filter values should be displayed.



Filter Properties	×
Dashboard Items Filter	
Fitter Value CategoryName ▼ ∫5c	
Type Style Single Choice V Horizontal V	
Value Sort Direction	
受) Filter Value Format	
V OK 🗙 Cancel	

Toolbar

The toolbar contains the buttons and menus used to modify the dashboard.

Saving Dashboards

The dashboard can be saved by clicking the save button (\square).

Undo/Redo

Any action on a dashboard can be undone by clicking (\checkmark) or pressing CTRL + Z. Undone actions can be redone by clicking (\checkmark) or pressing CTRL + Y.

Borders

To create borders around a dashboard item, select it and click the Format icon (\Box) .

- Uncheck 'Make Borders Uniform' to modify specific edges.
- To widen the borders either key in a value or use the arrows in the width box.
- To change the color either select a color from the drop-down or enter a hex value.



	Borders		X
Select color and width 'Make Borders Uniform			
	lake Borders Unit	form	
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0		0	
	0		
·	OK 🗶 Cance	9	

Borders can be rounded by clicking the 'Rounded Edges' button (\square) in the toolbar.

Formatting Dashboard Text

Text items can be formatted using buttons in the toolbar. A text item must be selected for these changes to be applied.

Font

To change the font use the font drop-down (Arial). The font names appear in the style that they represent.

- The **B**, *I* and <u>U</u> icons make the font bold, italicized and underlined, respectively.
- Text size can be controlled using the up and down arrows on font size menu (8 e).

Color

• To change the text color, click the Foreground Color button (Δ) and then select a color or enter a hex value into the Foreground box. Click the clear button to revert to the default color (\bowtie).

• To change the background color, click the Background Color button ($^{(2)}$) and then select a color or enter a hex value into the Background box. Click the clear button to revert to the default color (\swarrow).

Alignment

 Text can be aligned to the top, center, or bottom of a cell using the vertical alignment buttons.



• Text can be centered, justified or aligned to the left or right of a cell using the horizontal alignment buttons.



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		≣	

Renaming Dashboards

To change the name of a dashboard click 'Rename' in the Toolbar drop-down menu. Modify the name and select the folder where the Dashboard will be saved. Click 'OK'.

Dan aut Mana

	Report Name	- X
New Dashboard Report ×	Enter the report name	
	Select folder for the report	
Or Arial	 ▷ The Financial Reports ▷ The Reports 	
🛱 Rename 🛛 🖞 A 🖄 8	 Tail Sales Reports University Reports Wholesale Customer Reports 	
■ Description		
 Options 		
	V OK X Cancel	

Changing Description

The dashboard description appears at the bottom of the **Main Menu**. Though dashboard descriptions are optional they are utilized when searching reports. To modify a dashboard description click 'Description' in the Toolbar drop-down menu. Fill in the description and click 'OK.'

	Report Description ×
New Dashboard Report ×	Enter a description for the report
O - P Arial ▼	
≡ Description	
Options	
	V OK 🗙 Cancel

Dashboard Options

Click 'Options' in the Toolbar drop-down menu to open the Dashboard Options Window.

General Options



- To change the background color of the dashboard canvas, select a color or enter a hex value.
- Check 'Show report title bar on execution' to allow reports on an executed dashboard to be selected and modified.

New Dashboard Report *	Dashboard Options 🛛 🗙
O - C Arial - C Rename ■ Description Arial I <u>U</u> A A 8 ♀ 8 ♀	General Options Background Color: #FFFFF Prompt user for filters and/or parameters on execution: Default V Show report title bar on execution
Options	
	V OK 🔀 Cancel

Executing Dashboards

Dashboards can be run from the **Main Menu** or the **Toolbar**. To run a dashboard from the Main Menu first select the dashboard you want to run and click the HTML button. When editing a dashboard simply click the HTML button to execute the dashboard.

Note: Dashboards can only be executed as HTML

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Formulas

Formulas allow you to do calculations, parse strings, insert images, and much more. Formulas are the composition of functions, parameters, Data Fields and references to other cells.

Functions

Functions must begin with an '=' sign. You can use more than one function in each cell. Additionally there are logical functions that allow for if/then/else conditional statements. Functions include date, financial, information, logical, mathematical, statistical, text and data.

Note

Function names **are not** case sensitive (aggSum is the same as AggSum).

For a complete list of functions, including description, remarks and examples, refer to **Full Description of Functions.**

Parameters

To call a parameter, enter its name between $\@'$ signs. Parameters can be used in functions or alone in a cell following an =' sign.

Note

Parameters **are** case sensitive (pageNumber is not the same as pagenumber).

Parameters names should not contain the '@' symbol.

For a list of parameters, including a description see **Full Description of Parameters**. Your administrator has the ability to create additional parameters.

Data Fields

To use a Data Field as part of a function enter the name between curly brackets (Ex.{Orders.OrdersID}).

Referencing a Cell

To reference another cell's value enter the column name with a capital letter and the row number between square brackets (Ex. [A2]). A cell reference can be used in functions or alone in a cell following an =' sign.

Note: Cell references will update if rows or columns are added or deleted however dragging a cell to a will not update cell references. This may cause errors in your formulas.



Using Formulas

Formulas can either be entered in the Formula Editor or by manually written into cells.

Formula Editor

- 1. Navigate to the **Report Designer**.
- 2. Click in the cell you want the formula to be in.
- 3. Click the Formula Editor Button (f_x) .

	Formula Editor	×
Select Fields Employees	Y Aggregate	
Address BirthDate City Country EmployeeID Extension FirstName HireDate HomePhone LastName Notes Photo PhotoPath PostalCode Region ReportsTo Title	 Aggregate Operators Logical Date Financial Database and Data Type Arithmetic and Geometric String Formatting Other 	
TitleOfCourtesy	+ Add	
Formula		
	V OK 🗶 Cancel	

4. Create the desired formula by selecting the desired functions and clicking add or drag and dropping into the Summary box.

Note

When embedding functions begin with the outermost function and add them moving inward. (ex. To get =TRUNCATE(SQRT(162)), first add Truncate then the square root function.)

5. Click Ok.

Manual Formulas

To manually add formulas:

1. Navigate to the **Report Designer**.



- 2. Double click in the desired cell.
- 3. Enter the formula.
- 4. Save the report.



Full Description of Parameters

pageNumber:

Description	
Description	Returns the number of the current page.
Remark	
	For RTF output, pageNumber cannot be used with other formulas.
Example	
	=@pageNumber@ will display the current page number for all output types.
	='Pg. ` & @pageNumber@ will display 'pg.' followed by the page number for HTML and PDF output.

reportName:

Description	Returns the name of the report.
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reportFullName:

Description	Returns the file path of the report.
Example	For a report named Transcripts in a Folder named Student Documents @reportFullName@ would return Student Documents/Transcripts.



Quick List of Functions

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Aggregate:		
AggAvg	Arithmetic &	String:
AggCount	Geometric:	Concatenate
AggDistinctCount	Absolute	Left
AggMax	Acos	Len
AggMin	Acosh	Lower
AggSum	Asin	Mid
Financial:	Asinh	NewLine
DB	Atan	Replace
DDB	Atan2	Right
Fv	Atanh	Trim
Intrate	Ceiling	Upper
Ipmt	Cos	Value
Nper	Cosh	Oreveteve
Npv	Even	Operators:
Pmt	Exp	&
Ppmt	Fixed	+
Pv	Floor	- *
Rate	Int	1
SIn	Ln	/
Syd	Log	Logical
	Log10	Logical: And
Date:	Mod	False
Date	Odd	If
DateAdd	Pi	Not
DateDiff	Power	Or
DateValue	Product	Switch
Day	Quotient	True
Days360	Rand	Irue
GlobalDateFormat	Sin	Database & Data Type:
GlobalDateTimeForma	Sinh	DBNull
t	Sqrt	IsBlank
Hour	Tan	IsError
Minute	Tanh	IsEven
Month	Truncate	IsLogical
Now		IsNonText
Second	Formatting:	IsNull
Time	Bold	IsNumber
TimeFormat1	Italic	IsOdd
TimeValue	Underline	IsText
Today		Null
Year		Туре
		. / F -

Other:

FilterValue LoadImage StripHtmlTag



Full Description of Functions

This section provides detailed information on the available functions.

Types of Functions:

- Aggregate Functions
- Logical Functions
- Date Functions
- Financial Functions
- Database and Data Type Functions
- Arithmetic and Geometric Functions
- String Functions
- Formatting Functions
- Other Functions

Aggregate Functions

Aggregate functions can be executed on non-numeric fields.

AggAvg:

Description	Returns the average of the values in the field.
Remark	Only accepts Data Fields as input.
Example	Ex. <i>aggAvg({OrderDetail.Quantity})</i> - returns the average quantity of sales orders.

AggCount:

Description	Returns the number of unique entities in the Data Category.
Remark	The aggCount function uses the Data Category, not the Data Field. For example, the function "aggCount({Officer.Salary})" counts the number of Officers. You could replace "Officer.Salary" with any other field in the Officer Data Category and the function would still count the number of officers. Only accepts Data Fields as input.
Example	Ex. <i>aggCount({Orders.ProductPrice})</i> - returns the number of sales orders.

AggDistinctCount:

Description	Returns the number of unique values in the Data Field.
Remark	Unlike aggCount, aggDistinctCount returns the number of unique values of the Data Field.
	Only accepts Data Fields as input.
Example	Ex. <i>aggDistinctCount({OrderDetail.Quantity})</i> - returns the number distinct quantities in an order.

AggMax:

Description	Returns the maximum value in the field.
Remark	Only accepts Data Fields as input.
Example	Ex. aggMax({OrderDetail.Discount}) - returns the largest discount.

AggMin:

Description Returns the minimum value in the field.



Remark	Only accepts Data Fields as input.
Example	Ex. aggMin({OrderDetail.Discount}) - returns the smallest discount.

AggSum:

Description	Returns the sum of the values in the field.
Remark	Only accepts Data Fields as input.
Example	Ex. aggSum({OrderDetail.Quantity}) - returns the total quantity of units ordered.

Logical Functions

Logical functions can be used to handle conditional information.

And:

Description	Returns TRUE if all its arguments are TRUE ; returns FALSE if any argument is FALSE .
Remark	The arguments must evaluate to TRUE or FALSE .
	Note: The And function can take more than two arguments as input.
Example	Ex. AND(2+2=4, 4+0=4, 2+3=6) - returns FALSE.

False:

Description	Returns the logical value FALSE.
Remark	You can also type the word FALSE directly onto the worksheet or into a formula; it is interpreted as the logical value FALSE .
Example	

If:

Description	Takes three arguments as input. Returns the second argument if the first evaluates to TRUE . Otherwise returns the third argument.
Remark	The first input must evaluate to TRUE or FALSE .
Example	Ex. if({OrderDetail.Price}= 0,'FREE',{OrderDetail.Price}) - returns FREE if the price is 0, otherwise it returns the price.

Not:

Description	Reverses the value of its argument.
Remark	Argument should evaluate to TRUE or FALSE .
Example	Ex. Not(FALSE) - returns TRUE.

Or:

Description	Returns TRUE if any argument is TRUE.
Remark	The arguments must evaluate to logical values such as TRUE or FALSE .
	Note: The Or function can take more than two arguments as input.



Example		
-	Ev	$OP(2 \pm 2 = 4$

Ex. OR(2+2=4, 4+0=8, 2+3=6) - returns TRUE.

Switch:

Description	This functions should be used instead of placing if() function inside of if() functions.
	Takes any even number of inputs arguments.
Remark	The 1 st argument will be the test value to compare to.
	The 2 nd argument will be returned if none of the comparisons return true.
	The 3^{rd} , 5^{th} , 7^{th} arguments will be compared to the 1^{st} argument. When the first match occurs the following argument will be returned.
	For example if argument 3 matches argument 1 then the 4^{th} argument will be returned.
Example	Ex. Switch({Categories.CategoryName},"NOT FOUND", "Beverages", "Drink up!", "Condiments", "Enhance", "Confections", "Sweet Tooth") – returns a string based on the Category Name.

True:

Description	Returns the logical value TRUE .
Remark	You can also type the word TRUE directly onto the worksheet or into a formula; it is interpreted as the logical value TRUE .
Example	



Date Functions

Date functions can be used to do calculations and formatting on Date values.

Date:

Description	Creates a date value from three numeric values.
Remark	This function should be used to represent a date to other functions instead of representing a date as text.
Example	Ex. Date(2012,7,4) – returns the date July 4th , 2012.

DateAdd:

Description	Returns the sum of a date and a quantity of time.
Remark	DateAdd takes three input arguments. A string representing the interval you want to add. The interval can be. "yyyy" (year), "y" (days), "d" (days), "w" (weeks), "m" (months), "h" (hours), "n" (minutes), "s" (seconds), "ww" (weeks of year), or "q" (quarters). A real number representing how much time you want to add to the date. A DateValue.
Example	Ex. DateAdd('h',1,Now()) – returns the date and time 1 hour from now.

DateDiff:

-	
Description	Returns the amount of time between two dates.
Remark	DateDiff takes three input arguments. A string representing the interval you want to add. The interval can be. "yyyy" (year), "y" (days), "d" (days), "w" (weeks), "m" (months), "h" (hours), "n" (minutes), "s" (seconds), "ww" (weeks of year), or "q" (quarters).
	The first date value. The second date value.
Example	Ex. DateDiff("yyyy", date(1787,9,17), now())- returns the number of years since the signing of the United States' Constitution

DateValue:

Description	Converts a date represented as text (e.g. '30-jan-2008') to a date value.
Remark	Any time information in the Date_text is ignored. The ticks returned always represent a time-of-day of Midnight (in the server's local time).



	If the year portion of Date_text is omitted, DATEVALUE uses the current year on the server.
	Use this function when comparing two dates.
Example	Ex. DateValue(30-jun-2011) – returns the date object 6/30/2011.
	<pre>Ex. DateValue({Orders.OrderDate}) > DateValue(Today()) - compares the order date to today.</pre>

Day:

Description	Returns the day portion of a date as a whole number.
Remark	Values returned by the YEAR , MONTH and DAY functions will be Gregorian Calendar values regardless of the display format for the supplied date value.
Example	Ex. Day({Appointment.Date}) - returns the day of the appointment.

Day360:

Description	Returns the number of days between two dates based on a 360-day year.
Remark	Often used in accounting applications.
	Date360 takes three input arguments.
	The first date value.
	The second date value.
	Optional: True/False indicating to use European or American method of computation. If not included the American method is used.
Example	Ex. Day360({Appointment.Date},today())- returns the number of days between today and the appointment date.

GlobalDateFormat:

Description	Returns a DATE value whose format is based on the session format.
Remark	Only accepts data objects as input.
Example	Ex. GlobalDateFormat({Appointment.Date}) - returns the date of the appointment based on the session format.

GlobalDateTimeFormat:

ч		
	Description	Returns a DATETIME value whose format is based on the session format.
	Remark	Only accepts data objects as input.



	Example	Ex. GlobalDateTimeFormat({Appointment.Date})- returns the date and time of the appointment based on the session format.
Hour:		
	Description	Returns the hour of a time value ranging from 0 (12:00 AM) to 23 (11:00 PM).
	Remark	Times may be entered as text strings within quotation marks or a date time value.
	Example	Ex. Hour("2:50:05PM") - returns 14.

Minute:

Description	Returns the Minute of a time value ranging from 0 to 59.
Remark	Times may be entered as text strings within quotation marks or a date time value.
Example	Ex. Minute("2:50:05PM") – returns 50.

Month:

Description	Returns the month portion of a date as a whole number, ranging from 1 (January) to 12 (December).
Remark	Values returned by the YEAR , MONTH and DAY functions will be Gregorian Calendar values regardless of the display format for the supplied date value.
Example	Ex. Month({Appointment.Date})- returns the month of the appointment.

Now:

Description	Returns today's date and time (in local server time).
Remark	If embedding in other functions use Now('false').
Example	Ex. Now() - returns the current date and time. Now('false') returns the current date and time formatted MM/dd/yyyy hh:mm:ss.

Second:

Description	Returns the seconds of a time value ranging from 0 to 59.
Remark	When a time omits seconds, 0 (zero) is assumed. Times may be entered as text strings within quotation marks or a date time value.
Example	Ex. Second("2:50:05PM") - returns 5.

Time:

Description	
	Returns the number of ticks in a period of hours, minutes and seconds.



Remark	This function should be used to represent a time to other functions instead of representing a time as text.
	Time takes three input arguments. Hours Minutes Seconds
Example	Ex. Time(14,50,5) – returns 534050000000.

TimeFormat1:

Description	Returns the time component of a DATETIME input formatted as 'hh:mm tt'.
Remark	This function should be used to represent a time to other functions instead of representing a time as text.
Example	Ex. Timeformat1({Appointment.Date}) – returns the appointment date in the format as 'hh:mm tt'.

TimeValue:

L L			
	Description	Convert a time represented in text (<i>i.e.,</i> "HH-mm-ss") into time values that can be passed to other functions.	
	Remark	Acceptable formats include "5:55 PM" and "17:55". A time separator is mandatory ("17:00" is acceptable, "1700" is not). If AM/PM is not present AM is assumed. When specifying AM or PM, do not use periods ("A.M." or "P.M." will return an error).	
	Example	Ex. TimeValue(Time(14,50,5))- returns the time object 14:50:05.	

Today:

Description	Returns today's date with no time component.
Remark	If embedding in other functions use Today('false'). See the <i>Now()</i> function to get today's date <i>with</i> its time component.
Example	Ex. Today()- returns the current date. Today('false') returns the current date formatted as MM/dd/yyyy.

Year:

Description	
	Returns the year portion of a date as a whole number, ranging from 1 to 9999.
Example	Ex. Year(today()) – returns 2011.



Financial Functions

DB:

Description	Returns the depreciation of an asset for a specified period using the <i>fixed-declining balance</i> method. Cost is the initial cost of the asset. Salvage is the value at the end of the depreciation (sometimes called the <i>salvage value</i> of the asset). Life is the <i>number of periods</i> over which the asset is being depreciated (sometimes called the <i>useful life</i> of the asset). Period is the <i>period</i> for which you want to calculate the depreciation. Period must use the same units as life . Month is the number of months in the first year. If month is omitted, it is assumed to be 12.
Remark	The fixed-declining balance method computes depreciation at a fixed rate. DB uses the following formulas to calculate depreciation for a period: (cost - total depreciation from prior periods) * rate where: rate = $1 - ((salvage / cost) ^ (1 / life))$, rounded to three decimal places. Depreciation for the first and last periods is a special case. For the first period, DB uses this formula: cost * rate * month / 12. For the last period, DB uses this formula: ((cost - total depreciation from prior periods) * rate * (12 - month)) / 12.
Example	 Data Assumptions: Initial cost=1,000,000 (A2); Salvage value=100,000 (A3); Lifetime in years=6 (A4). Ex. DB([A2],[A3],[A4],1,7) - Depreciation in first year, with only 7 months calculated (186,083.33). Ex. DB([A2],[A3],[A4],2,7) - Depreciation in second year (259,639.42). Ex. DB([A2],[A3],[A4],3,7) - Depreciation in third year (176,814.44). Ex. DB([A2],[A3],[A4],4,7) - Depreciation in fourth year (120,410.64). Ex. DB([A2],[A3],[A4],5,7) - Depreciation in fifth year (81,999.64). Ex. DB([A2],[A3],[A4],6,7) - Depreciation in sixth year (55,841.76). Ex. DB([A2],[A3],[A4],7,7) - Depreciation in seventh year, with only 5 months calculated (15,845.10).

DDB:

Description	Returns the depreciation of an asset for a specified period using the double- declining balance method or some other method you specify. Cost is the initial cost of the asset. Salvage is the value at the end of the depreciation (sometimes called the salvage value of the asset). Life is the number of periods over which the asset is being depreciated (sometimes called the useful life of the asset). Period is the period for which you want to calculate the depreciation. Period must use the same units as life . Factor is the rate at which the balance declines. If factor is omitted, it is assumed to be 2 (the double-declining balance method). Note that all five arguments must be positive numbers.
Remark	The double-declining balance method computes depreciation at an accelerated rate. Depreciation is highest in the first period and decreases in successive periods. DDB uses the following formula to calculate depreciation for a period: ((cost-salvage) - total depreciation from prior periods) * (factor/life). Change factor if you do not want to use the double-declining balance method. Use the VDB function if you want to switch to the straight-line depreciation method when depreciation is greater than the declining balance calculation.
Example	<pre>Data Assumptions: Initial cost=2400 (A2); Salvage value=300 (A3); Lifetime in years=10 (A4). Ex. DDB([A2],[A3],[A4]*365,1) - First day's depreciation. Ex. DDB([A2],[A3],[A4]*12,1,2) - First month's depreciation (40.00). Ex. DDB([A2],[A3],[A4],1,2) - First year's depreciation (480.00).</pre>

FV:



	Ex. DDB([A2],[A3],[A4],10) - Tenth year's depreciation.
	Note that the results are rounded to two decimal places.
Description	Returns the future value of an investment based on periodic, constant payments and a constant interest rate.
Remark	For a more complete description of the arguments in FV and for more information on annuity functions, see PV (Above). Rate is the interest rate per period. Nper is th total number of payment periods in an annuity. Pmt is the payment made each period; it cannot change over the life of the annuity. Typically, pmt contains principa and interest but no other fees or taxes. If pmt is omitted, you must include the pv argument. Pv is the present value, or the lump-sum amount that a series of future payments is worth right now. If pv is omitted, it is assumed to be 0 (zero), and you must include the pmt argument. Type is the number 0 or 1 and indicates when payments are due. If type is omitted, then it is assumed to be 0. Make sure that you are consistent about the units you use for specifying rate and nper . If you make monthly payments on a four-year loan at 12 percent annual interest, use 12%/12 for rate and 4*12 for nper . If you make annual payments on the same loan, use 12% for rate and 4 for nper . For all the arguments, cash you pay out, such as deposits to savings, is represented by negative numbers.

Example	
	Data Assumptions: Annual interest rate=6% (A2); Number of payments=10 (A3); Amount of the payment=-200 (A4); Present value=-500 (A5); Payment is due at the beginning of the period=1 (A6)(see above).

Ex. **FV([A2]/12, [A3], [A4], [A5], [A6])** – returns future value of an investment with these terms (2,581.40).

Intrate:

Description	Returns the interest rate for a fully invested security. Note that dates should be entered by using the DATE function, or as results of other formulas or functions. For example, use DATE(2008,5,23) for the 23rd day of May, 2008. Problems can occur if dates are entered as text. Settlement is the security's settlement date. The security settlement date is the date after the issue date when the security is traded to the buyer. Maturity is the security's maturity date. The maturity date is the date when the security expires. Investment is the amount invested in the security. Redemption is the amount to be received at maturity. Basis is the type of day count basis to use.
Remark	The settlement date is the date a buyer purchases a coupon, such as a bond. The maturity date is the date when a coupon expires. For example, suppose a 30-year bond is issued on January 1, 2008, and is purchased by a buyer six months later. The issue date would be January 1, 2008, the settlement date would be July 1, 2008, and the maturity date would be January 1, 2038, which is 30 years after the January 1, 2008, issue date. Settlement, maturity , and basis are truncated to integers. If settlement or maturity is not a valid date, INTRATE returns the #VALUE! error value. If investment = 0 or if redemption = 0, INTRATE returns the #NUM! error value. If basis < 0 or if basis > 4, INTRATE returns the #NUM! error value.
Example	Data Assumptions Settlement date=February 15, 2008 (A2); Maturity date=May 15, 2008 (A3); Investment=1,000,000 (A4); Redemption value=1,014,420 (A5); Actual/360 basis (see above)=2 (A6).

Ipmt:

Nper:



	Ex. INTRATE([A2],[A3],[A4],[A5],[A6]) - returns discount rate, for the terms of the bond above (0.05768 or 5.77%).
Description	
Description	Returns the interest payment for a given period for an investment based on periodic, constant payments and a constant interest rate. For a more complete description of the arguments in IPMT and for more information about annuity functions, see PV . Rate is the interest rate per period. Per is the period for which you want to find the interest and must be in the range 1 to nper . Nper is the total number of payment periods in an annuity. Pv is the present value, or the lump-sur amount that a series of future payments is worth right now. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, it is assumed to be 0 (the future value of a loan, for example, is 0). Type is the number 0 or 1 and indicates when payments are due. If type is omitted, it is assumed to be 0.
Remark	Make sure that you are consistent about the units you use for specifying rate and nper . If you make monthly payments on a four-year loan at 12 percent annual interest, use 12%/12 for rate and 4*12 for nper . If you make annual payments or the same loan, use 12% for rate and 4 for nper . For all the arguments, cash you pay out, such as deposits to savings, is represented by negative numbers; cash yo receive, such as dividend checks, is represented by positive numbers.
Example	Data Assumptions: Annual interest=10% (A2); Period for which you want to find the interest=1 (A3); Years of Ioan=3 (A5); Present value of Ioan=8000 (A6).
	Ex. IPMT([A2]/12, [A3]*3, [A4], [A5]) - Interest due in the first month for a loan with the terms above (-22.41). Note that the interest rate is divided by 12 to get a monthly rate. The years the money is paid out is multiplied by 12 to get the number of payments.
Description	Returns the number of periods for an investment based on periodic, constant payments and a constant interest rate. For a more complete description of the arguments in NPER and for more information about annuity functions, see PV (above). Rate is the interest rate per period. Pmt is the payment made each particulate its parts of the payment because the big of the payment particulate.

	(above). Rate is the interest rate per period. Pmt is the payment made each period; it cannot change over the life of the annuity. Typically, pmt contains principal and interest but no other fees or taxes. Pv is the present value, or the lump-sum amount that a series of future payments is worth right now. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, it is assumed to be 0 (the future value of a loan, for example, is 0). Type is the number 0 or 1 and indicates when payments are due.
Remark	
	Set Type equal to 0 (or omitted) if payments are due at the end of the period; Set type equal to 1 if payments are due at the beginning of the period.
Example	
	Data Assumptions: Annual interest rate=12% (A2); Payment made each period=-100 (A3); Present Value=-1000 (A4); Future Value=10000 (A5); Payment is due at the beginning of the period=1 (A6).
	Ex. NPER([A2]/12, [A3], [A4], [A5], 1) - Periods for the investment with the above terms (60).
	Ex. NPER([A2]/12, [A3], [A4], [A5]) - Periods for the investment with the



Npv:

Description	Calculates the net present value of an investment by using a discount rate and a series of future payments (negative values) and income (positive values). Rate is the rate of discount over the length of one period. Value1, value2,are 1 to 29 arguments representing the payments and income. Value1, value2,must be equally spaced in time and occur at the end of each period. NPV uses the order of value1, value2,to interpret the order of cash flows. Be sure to enter your payment and income values in the correct sequence. Arguments that are numbers, empty cells, logical values, or text representations of numbers are counted; arguments that are error values or text that cannot be translated into numbers are ignored. If an argument is an array or reference, then only numbers in the array or reference are counted.
Remark	The NPV investment begins one period before the date of the value1 cash flow and ends with the last cash flow in the list. The NPV calculation is based on future cash flows. If your first cash flow occurs at the beginning of the first period, the first value must be added to the NPV result, not included in the values arguments. For more information, see the example below. NPV is similar to the PV function (present value). The primary difference between PV and NPV is that PV allows cash flows to begin either at the end or at the beginning of the period. Unlike the variable NPV cash flow values, PV cash flows must be constant throughout the investment. For information about annuities and financial functions, see PV . NPV is also related to the IRR function (internal rate of return). IRR is the rate for which NPV equals <i>zero: NPV(IRR(),)</i> = 0 .
Example	 Data Assumptions: Annual discount rate=10% (A2); Initial cost of investment one year from today=-10,000 (A3); Return from first year=3,000 (A5); Return from second year=4,200 (A6). Ex. NPV([A2], [A3], [A4], [A5], [A6]) - Net present value of this investment (1,188.44)In the preceding example, you include the initial \$10,000 cost as one of the values, because the payment occurs at the end of the first period.
Description	Calculates the payment for a loan based on constant payments and a constant interest rate. For a more complete description of the arguments in PMT , see the PV function. Rate is the interest rate for the loan. Nper is the total number of payments for the loan. Pv is the present value, or the total amount that a series of future payments is worth now; also known as the principal. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, it is assumed to be 0 (zero), that is, the future value of a loan is 0. Type is the number 0 (zero) or 1 and indicates when payments are due.
Remark	The payment returned by PMT includes principal and interest but no taxes, reserve payments, or fees sometimes associated with loans. Make sure that you are consistent about the units you use for specifying rate and nper . If you make monthly payments on a four-year loan at an annual interest rate of 12 percent, use 12%/12 for rate and 4*12 for nper . If you make annual payments on the same loan, use 12 percent for rate and 4 for nper .
Example	Data Assumptions: Annual interest rate=8% (A2); Number of months of payments=10 (A3); Amount of loan=10000 (A4). Ex. PMT([A2]/12, [A3], [A4]) - Monthly payment for a loan with the above terms (-1,037.03).

(-1,037.03). Ex. **PMT([A2]/12, [A3], [A4], 0, 1)** - Monthly payment for a loan with the above

Pmt:



		terms, except payments are due at the beginning of the period (-1,030.16).
Ppmt:		
	Description	Returns the payment on the principal for a given period for an investment based on periodic, constant payments and a constant interest rate. For a more complete description of the arguments in PPMT , see PV (above). Rate is the interest rate per period. Per specifies the period and must be in the range 1 to nper . Nper is the total number of payment periods in an annuity. Pv is the present value—the total amount that a series of future payments is worth now. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, it is assumed to be 0 (zero), that is, the future value of a loan is 0. Type is the number 0 or 1 and indicates when payments are due.
	Remark	Make sure that you are consistent about the units you use for specifying rate and nper . If you make monthly payments on a four-year loan at 12 percent annual interest, use 12%/12 for rate and 4*12 for nper . If you make annual payments on the same loan, use 12% for rate and 4 for nper .
	Example	 Data Assumptions: Annual interest rate=10% (A2); Number of years in the loan=2 (A3); Amount of loan=2000 (A4). Ex. PPMT([A2]/12, 1, [A3]*12, [A4]) - Payment on principle for the first month of loan (-75.62). Note the interest rate is divided by 12 to get a monthly rate. The number of years the money is paid out is multiplied by 12 to get the number of payments.
Pv:		
	Description	
		Returns the present value of an investment. The present value is the total amount that a series of future payments is worth now. For example, when you borrow money, the loan amount is the present value to the lender. Rate is the interest rate per period. For example, if you obtain a car loan at a 10% annual interest rate and make monthly payments, your interest rate per month is 10%/12, or 0.83%. You would enter 10%/12, or 0.83%, or 0.0083, into the formula as the rate. Nper is the total number of payment periods in an annuity. For example, if you get a four-year car loan and make monthly payments, your loan has 4*12 (or 48) periods. You would enter 48 into the formula for nper . Pmt is the payment made each period and cannot change over the life of the annuity. Typically, pmt includes principal and interest, but no other fees or taxes. For example, the monthly payments on a \$10,000, four-year car loan at 12 percent are \$263.33. You would enter -263.33 into the formula as the pmt . If pmt is omitted, you must include the fv argument. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, then it is assumed to be 0 (the future value of a loan, for example, is 0). For example, if you want to save \$50,000 to pay for a special project in 18 years, then \$50,000 is the future value. You could then make a conservative guess at an interest rate and determine how much you must save each month. If fv is omitted, then you must include the pmt argument. Type is the number 0 or 1 and indicates when payments are due.
	Remark	Make sure that you are consistent about the units you use for specifying rate and nper . If you make monthly payments on a four-year loan at 12 percent annual interest, use 12%/12 for rate and 4*12 for nper . If you make annual payments on the same loan, use 12% for rate and 4 for nper . In annuity functions, cash you pay out, such as a deposit to savings, is represented by a negative number; cash you receive, such as a dividend check, is represented by a positive number. For example, a \$1,000 deposit to the bank would be represented by the argument -1000 if you are the depositor and by the argument 1000 if you are the bank.



	the number of years the money will be paid out (A4). Ex. Pv([A3]/12, 12*[A4], [A2], , 0) - Present value of an annuity with the stated terms (-59,777.15). The result is negative because it represents money that you would pay in an outgoing cash flow. If you are asked to pay (\$60,000) for the annuity, you would determine this would not be a good investment because the present value of the annuity (59,777.15) is less than what you are asked to pay. NOTE that the interest rate is divided by 12 to get a monthly rate. The years the money is paid out is multiplied by 12 to get the number of payments.
Description	Returns the interest rate per period of an annuity. RATE is calculated by iteration and can have zero or more solutions. If the successive results of RATE do not converge to within 0.0000001 after 20 iterations, RATE returns the #NUM! error value. For a complete description of the arguments nper , pmt , pv , fv , and type, see PV . Nper is the total number of payment periods in an annuity. Pmt is the payment made each period and cannot change over the life of the annuity. Typically, pmt includes principal and interest but no other fees or taxes. If pmt is omitted, you must include the fv argument. Pv is the present value—the total amount that a series of future payments is worth now. Fv is the future value, or a cash balance you want to attain after the last payment is made. If fv is omitted, it is assumed to be 0 (the future value of a loan, for example, is 0). Type is the number 0 or 1 and indicates when payments are due.
Remark	Guess is your <i>guess</i> for what the rate will be. If you omit guess , it is assumed to be 10 percent. If RATE does not converge, try different values for guess . RATE usually converges if guess is between 0 and 1. Make sure that you are consistent about the units you use for specifying guess and nper . If you make monthly payments on a four-year loan at 12 percent annual interest, use 12%/12 for guess and 4*12 for nper . If you make annual payments on the same loan, use 12% for guess and 4 for nper .
Example	 Data Assumptions: Years of the loan=4 (A2); Monthly payment=-200 (A3); Amount of the loan=8000 (A4). Ex. Rate([A2]*12, [A3], [A4]) - Monthly rate of the loan with the stated terms (1%). Note that the number of years of the loan is multiplied by 12 to get the number of months.

SIn:

Rate:

Description	Returns the straight-line depreciation of an asset for one period.
Remark	Cost is the initial cost of the asset. Salvage is the value at the end of the depreciation (sometimes called the salvage value of the asset). Life is the number of periods over which the asset is depreciated (sometimes called the useful life of the asset).
Example	Data Assumptions: Cost=30,000 (A2); Salvage value=7,500 (A3); Years of useful life=10 (A4). Ex. Sin([A2], [A3], [A4]) - The depreciation allowance for each year (2,250).

Syd:

Description	Returns the sum-of-years' digits depreciation of an asset for a specified period.
Remark	Cost is the initial cost of the asset. Salvage is the value at the end of the depreciation (sometimes called the salvage value of the asset). Life is the number of periods over which the asset is depreciated (sometimes called the useful life of



	the asset). Per is the period and must use the same units as life.
Example	Data Assumptions: initial cost=30,000 (A2); Salvage value=7,500 (A3); Lifespan in years=10 (A4). Ex. Syd([A2], [A3], [A4], 1) - Yearly depreciation allowance for the first year (4,090.91). Ex. Syd([A2], [A3], [A4], 10) - Yearly depreciation allowance for the tenth year (409.09).



DataRowCount:

	Description	Returns the number of rows retrieved from the data source when executing the report.
	Example	Suppose report is run to retrieve basic information on 10 employees
		Ex. DataRowCount() should return 10.
DBNull:		

	Description	Returns DBNULL.	
IsBlank:	IsBlank:		
	Description	Checks if a cell is empty.	
	Example	Ex. IsBlank([A1]) – returns TRUE if the cell [A1] is blank, FALSE otherwise.	

IsError:

Description	Checks if a value is an error value.
Remark	Error values include (#N/A, #VALUE!, #REF!, #DIV/0!, #NUM!, #NAME?, or #NULL!).
Example	Ex. IsError([A1]) – returns TRUE if the cell [A1] contains an error value, FALSE otherwise.

IsEven:

	Description	Checks if a value is an even number.
	Example	Ex. IsEven([A1]) – returns TRUE if the cell [A1] contains an even number, FALSE otherwise.
IsLogica	l:	

Description	Checks if a value is TRUE or FALSE.
Example	Ex. IsLogical([A1]) – returns TRUE if the cell [A1] contains TRUE/FALSE, FALSE otherwise.

IsNonText:

Description	Checks if a value is not text.
Remark	Non Text values include dates, numbers, images and blank cells.
Example	Ex. IsNonText([A1]) – returns TRUE if the cell [A1] contains non text, FALSE otherwise.

IsNoDataQualified:

EХ



	Description	Returns True if no data qualified for the report execution. Otherwise it returns false.
	Example	Suppose report is run to retrieve basic information on 10 employees
		Ex. IsNoDataQualified() returns false.
IsNull:		
	Description	Checks whether a value is null (Nothing in VB).
IsNumbe	er:	
	Description	Checks if a value is a number.
	Remark	Does not convert text to numbers. Ex IsNumber("19") returns FALSE.
	Example	Ex. IsNumber([A1]) – returns TRUE if the cell [A1] contains a number, FALSE otherwise.
IsOdd:		
	Description	Checks if a value is odd.
	Example	Ex. IsOdd([A1]) – returns TRUE if the cell [A1] contains an odd number, FALSE otherwise.
IsText:		
	Description	Checks if a value is text.
	Example	Ex. IsText([A1]) – returns TRUE if the cell [A1] contains text, FALSE otherwise.
Null:		
	Description	Returns a null value (Nothing in VB).
Type:		
	Description	Returns the type of value.
	Remark	Returns 1 if the value is a number, 2 if it is text.
	Example	Ex. Type("John Smit") – returns 2.



Arithmetic & Geometric Functions

+, -, *, /:		
- , , , , , ,	Description	Basic mathematical functions.
Abs:		
	Description	Returns the absolute value of a number.
	Remark	
	Example	Ex. Abs(-23.1) – returns 23.1.
Acos:		
	Description	Returns the <i>arccosine</i> , or <i>inverse cosine</i> , of a number.
	Remark	The input must be from -1 to 1 .
		The returned angle is given in radians in the range 0 (zero) to pi . If you want to convert the result from <i>radians</i> to <i>degrees</i> , then <i>multiply it by 180/PI()</i> or use the DEGREES function.
	Example	Ex. Acos(231) – returns 1.80390168255052.
Acosh:		
	Description	Returns the <i>inverse hyperbolic cosine</i> of the given number.
	Remark	The input must be a real number greater than or equal to 1.
	Example	Ex. Acosh(10) – returns 2.993223.
Asin:		
	Description	Returns the arcsine of the given number in radians, in the range $-Pi/2$ to $Pi/2$.
	Remark	

Asinh:

Example

÷		
	Description	Returns the inverse hyperbolic sine of a number.
	Remark	The input can be any real number.
		Note: asinh(sinh(n)) returns n.
	Example	Ex. Asinh(-2.5) – returns -1.64723.

Ex. Asin(-0.5) - returns 0.5236.

The input is the sine of the angle you want and must be in the range from -1 to 1.

Atan:



Description	Returns the arctangent, inverse tangent of a number.
Remark	The input can be any real number. Atan returns an angle given in radians in the range -Pi/2 to Pi/2.
Example	Ex. Atan(1) – returns 0.785398 (pi/4).

Atan2:

Description	Returns the angle from the x-axis to a line containing the origin $(0, 0)$ and a point with coordinates (x,y) .
Remark	The input requires two values, the x and y coordinates. Note : If both x,y are 0 then Atan2 will return the error #Div/0! A negative result represents a clockwise angle.
Example	Ex. Atan2(1, 1) – returns 0.785398 (pi/4).

Atanh:

Description	
	Returns the inverse hyperbolic tangent of a number.
Remark	
	The input must be from -1 to 1 .
	Note: Atanh(tanh(n)) returns n.
Example	Ex. Atanh(.76159416) – returns 1 (approximately).

Ceiling:

Description	Returns the number rounded up, away from zero, to the nearest multiple of significance.
Remark	The input requires two values, the number to be rounded and the multiple of significance. Regardless of the sign of number, a value is rounded up when adjusted away from zero.
	Note : If the argument is non-numeric, then Ceiling returns the error #VALUE!
Example	Ex. Ceiling(4.42,.05) – returns 4.45.

Cos:

Description	Returns the cosine, of an angle in radians.
Remark	The returned angle is given in radians in the range 0 (zero) to pi . If you want to convert the result from <i>radians</i> to <i>degrees</i> , then <i>multiply it by 180/PI()</i> or use the DEGREES function.



	Example	Ex. Cos(1.047) – returns 0.500171.
Cosh:		
	Description	Returns the <i>hyperbolic cosine</i> of a number.
	Example	Ex. Cos(4) – returns 27.30823.
Even:		
	Description	Returns a number rounded up to the nearest even integer.
	Remark	Regardless of the sign of number, a value is rounded away from zero.
		Note: If the number is non-numeric, then EVEN returns the error #VALUE!
	Example	Ex. Even(1.5) – returns 2.
Exp:		
	Description	Returns <i>e</i> raised to the power of the input.
	Remark	Exp is the inverse of Ln, the natural logarithm.
	Example	

Fixed:

Description	Returns the first argument rounded to the number of decimal places specified in the second argument.
Remark	 Takes three input: The number you want to round. The number of digits to the right of the decimal to include. OPTIONAL: TRUE/FALSE whether to omit commas. The default is FALSE (includes commas as normal).
Example	Ex. Fixed(1234.5678, 2) - returns 1,234.56.

Ex. **Exp(1)** – returns 2.718282 (the approximate value of e).

Floor:

Description	Rounds the number down, toward zero, to the nearest multiple of significance.
Remark	The input requires two values, the number to be rounded, and the multiple of significance.
	Regardless of the sign of number, a value is down toward zero. Note : If the argument is non-numeric, then Floor returns the error #VALUE!
Example	Ex. Floor(2.6, .5) – returns 2.5.

Int:



Description	Rounds a number down to the nearest integer.
Remark	The input must be a real number.
Example	Ex. Int(2.6) – returns 2.

Ln:

Description	Returns the natural logarithm of a number.
Remark	LN is the inverse of the EXP function.
Example	Ex. Ln(86) – returns 4.454347.

Log:

Description	Returns the logarithm of a number to the base you specify.
Remark	The first input is the number and the second is the base (if omitted base 10 used).
Example	Ex. Log(100) – returns 2.

Log10:

Description	Returns the base 10 logarithm of a number.
Remark	
Example	Ex. Log10(86) - returns 1.934498451.

Mod:

Description	Returns the remainder after first argument is divided by the second argument.
Remark	The second argument must not be 0.
Example	Ex. Mod(27,5) – returns 2.

Odd:

Description	Returns a number rounded up to the nearest odd integer.
Remark	The input must be a real number. Odd always rounds away from zero.
Example	Ex. Mod(1.5) – returns 3.

Pi:

Description	
	Returns the number 3.14159265358979 , the mathematical constant <i>pi</i> , accurate to 15 digits.
	to 15 digits.



	Remark	
	Example	Ex. Pi() – returns 3.14159265358979.
Power:		
	Description	Returns the result of the first argument raised to the second argument.
	Remark	The operator ^ may be used instead of this function
	Example	Ex. Power(5,2) – returns 25.
Product:		
	Description	Returns the product of the arguments.
	Remark	The * symbol may be used in place of product
		Arguments must be numbers, cell references or text representations of numbers.
	Example	Ex. Product(5,2) – returns 10. Also 5 * 2 - returns 10.
Quotient		
	Description	Returns the integer portion of a division.
	Remark	The / symbol may be used in place of product
		This function discards the remainder of the division.
	Example	Ex. Quotient(5,2) – returns 2. Also 5/2 – returns 2.
Rand:		
	Description	Returns an evenly-distributed random number between 0 and 1 (inclusive).
	Remark	To generate a random real number between a and b , use: RAND()*(b-a)+a .

Example	
-	Ex. Rand() – returns a random number between 0 and 1.

Round:

Description	Returns a rounded number.
Remark	Takes one or two input: The number to round. 2. The number of decimal places desired.
Example	Ex. Round(5.236, 2) – returns 5.24

RunningSum:



Description	Returns a running total of the input field.
Remark	Takes one or two input:
	The Data Field you want to sum. 2. OPTIONAL: A Data Field or Category. The running sum will reset to 0 whenever there is a new value for this Data Field or Category.
	Note: RunningSum should not be used with the AutoSum feature.
Example	Ex.
	1. RunningSum({Employees.Salary}) – returns running total of all the employee's salary.
	 RunningSum({Employees.Salary}, {Employees.Region}) – returns a running total of employee's salary for each region.
	3. RunningSum({Employees.Salary}, {Company}) – returns a running total of employee's salary for each Company.

Sin:

Description	Returns the <i>sine</i> of the given angle.
Remark	The returned angle is given in radians in the range 0 (zero) to pi . If you want to convert the result from <i>radians</i> to <i>degrees</i> , then <i>multiply it by 180/PI()</i> or use the DEGREES function.
Example	Ex. Sin(1.047) - returns .0865926611287823.

Sinh:

Description	Returns the hyperbolic sine of a number.
Remark	
Example	Ex. Sinh(4) – returns 27.1899171971278.

Sqrt:

Description	Returns the positive square root of the argument.
Remark	If the input is negative Sqrt returns the error #NUM!.
Example	Ex. Sqrt(25) – returns 5.

Tan:

Description	Returns the tangent of the given angle.
Remark	The returned angle is given in radians in the range 0 (zero) to pi . If you want to convert the result from <i>radians</i> to <i>degrees</i> , then <i>multiply it by 180/PI()</i> or use



	the DEGREES function.
Example	Ex. Tan(.785) – returns .99920.

Tanh:

Description	Returns the hyperbolic tangent of a number.
Remark	
Example	Ex. Tanh(-2) – returns .96403.

Truncate:

Description	Truncates a number to an integer by removing the fractional part of the number.
Remark	INT and TRUNC are different only when using negative numbers: TRUNC (-4.3) returns -4, but INT (-4.3) returns -5 because -5 is the lower number.
Example	Ex. Truncate(9.9) – returns 9.



String Functions

Concatenate:

Description	Joins several text strings into one text string.
Remark	The "&" operator can be used instead of CONCATENATE to join text items.
Example	Ex. Concatenate("This ", "is ", "one string!") - returns This is one string!

Left:

Description	Returns the first character(s) of a text string.
Remark	The first argument is the string you want to display. The second argument is number of characters you want.
Example	Ex. Left("example", 2) – returns ex.

Len:

Description	Returns the number of characters in a text string.
Example	Ex. Len("example") – returns 7.

Lower:

Description	Converts all uppercase letters in a text string to lowercase.
Example	Ex. Lower("EXAMPLE") – returns example.

Mid:

Description	Returns a specific number of characters from a text string starting where you specify.
Remark	Mid takes three input arguments: 1. The text string. 2. The place you want to start. 3. The number of characters you want to display.
Example	Ex. Mid("example", 2, 3) – returns xam.

NewLine:

 Description
 Begins a new line of text.

 Replace:
 Description

 Replaces part of a text string.

 Remark
 Replace takes four input argurments:



		 The text string to partially replaced The place you want to start replacing. The number of characters to replace. The string you want to substitute.
	Example	Ex. Replace("example", 2, 3, "*") - returns e*ple.
Right:		
	Description	Returns the last characters in a text string.
	Remark	The first argument is the string you want to display. The second argument is number of characters you want.
	Example	Ex. Right("example", 2) – returns le.
Trim:		
	Description	Removes all spaces from text except for single spaces between words.
	Example	

Upper:

Description	Converts text to uppercase.
Example	Ex. Upper("example") – returns EXAMPLE.

Ex. **Trim("This sentence has weird spacing.", 2)** – returns This sentence has weird spacing.

Value:

Description	Converts a text string that represents a number to a number.
Example	Ex. Value("\$1,000") – returns 1000.



Formatting Functions

Bold:

Description	Applies the bold formatting to the input.
Remark	Can be used to bold part but not all of the text in a cell. An entire cell can be made bold using the bold button in the toolbar or ctrl + B.
Example	Ex. ='The second half of '& bold('this sentence is bold.') - returns 'The second half of this sentence is bold.'

Italic:

Description	
Description	Applies the italic formatting to the input.
Remark	Can be used to italic part but not all of the text in a cell. An entire cell can be italicized using the italic button in the toolbar or ctrl + I.
Example	Ex. = 'The second half of '&italic ('this sentence is italic.') – returns 'The second half of <i>this sentence is bold.'</i>

Underline:

Description	Applies the underline formatting to the input.
Remark	Can be used to underline part but not all of the text in a cell. An entire cell can be underlined using the underline button in the toolbar or ctrl + U.
Example	Ex. = `The second half of `&underline (`this sentence is underlined.') – returns `The second half of <u>this sentence is underlined</u> .'



Other Functions

CellValue:

Description	Returns the value of the current cell.
Remark	This function is only used in Conditional Formatting .
Example	Suppose a cell of a report displays the price of products. Ex. CellValue()> 150 returns True if the price of the product is greater than 150.

FilterValue:

Description	Returns the current value of a filter.
Remark	 Takes three arguments. 1. The index of the filter. 2. The sub-index used for filters that contain multiple values (i.e. between or one of). 3. (Optional) a true/false indicator if the value should be formatted following the users culture settings. This is used for numbers and dates. If there are no filters the function will return an Index out of Range message. Indexes begin with 1.
Example	Suppose the filter summary is "Order Detail.UnitPrice > '3.6' and Products.ProductName is one of ('Boston Crab Meat', 'Tofu')". Ex. FilterValue(2,2) returns Tofu.

Hyperlink:

Description	Creates a hyperlink to an external website.
Remark	Takes two arguments.
	1. The URL of the website.
	2. (Optional) the text to display in the cell.
	If display text is omitted the URL will display.
	Note : If PDF exports open in a tab within this application, then clicking the hyperlink may direct a user to leave the application.
Example	Ex. Hyperlink('www.fakeWebSite.com', 'click here') returns a hyperlink that displays the text 'click here' . Clicking this text will open http://www.fakeWebSite.com.

LoadImage:



Description	Loads a server side image based on the input path into the cell.
Remark	Can be used to load an image dynamically in place of the insert image feature. The path to the image must be in quotation marks. The entire path of the image is not required if your administrator has set a 'LoadImage' Prefix.
Example	Ex. LoadImage("c:/StaryNight.JPG") will return

StripHtmITags:

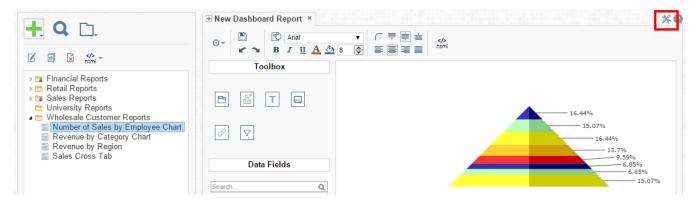
Description	Removes any html tags from the input string.
Remark	The input must be a string in between quotation marks.
Example	Ex. StripHtmlTags("<h1>This is heading 1</h1>") - returns This is heading 1.



Other

User Preferences

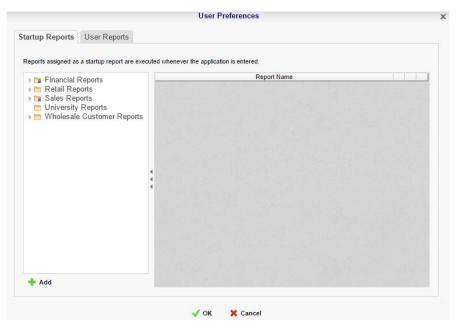
If given permission by your administrator the User Preferences button will appear in the top right corner. Click the User Preferences button (\gg) to open the User Preferences menu.



Startup Reports

In the User Preferences menu set your preferences such as which reports should run at startup and/or what User Reports should be applied.

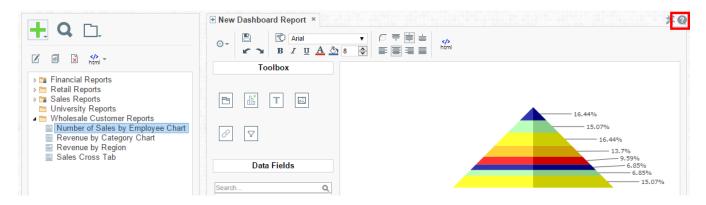
- To execute a report on startup either drag and drop it to the 'Report Name' panel, use the 'Add' button or double-click it.
- To disable a user report click the delete button (×).





Context Sensitive Help

Context sensitive help is available at any point in the application. Click the help button ((2)) and documentation will appear in a new tab. The guide will automatically open to the section discussing the feature you are using.







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