### **Cognos Analytics Basics**

**Training and Reference Guide** 



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# **University of Missouri System**

## **Cognos Analytic Basics**

Cognos Analytics is a business intelligence tool for centralized and standardized reporting of University of Missouri data. It was selected by the University of Missouri Task Force on Reporting Strategies in 2004.

Cognos Analytics can be used for ad hoc reporting and can be used by employees who answer data questions, validatedata, or review data on a daily basis.

The topics in this training manual cover some of the basics of using Cognos Analytics. Other Cognos Analytics trainingmaterials can be found at <a href="https://www.umsystem.edu/ums/is/ibm\_cognos\_business\_intelligence">www.umsystem.edu/ums/is/ibm\_cognos\_business\_intelligence</a>.

### **Accessing Cognos Analytics**

This lesson provides an overview of the following topics:

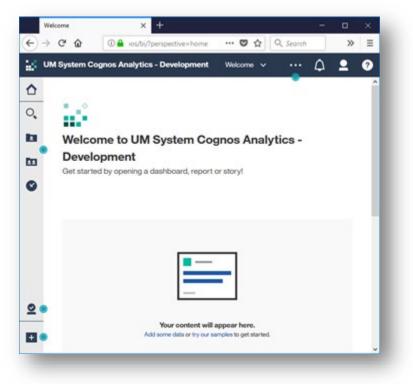
- Launching the Cognos Analytics Web Site
- Accessing Team Content
- Logging out of Cognos Analytics

#### Procedure

- 1. Open a browser and navigate to the Cognos Analytics login page, <u>https://reports.umsystem.edu</u>.
- 2. Enter your **Domain\User ID** and **password** into their respective fields, and then click the **Log in** button. *Your User ID is your domain qualified Active Directory login (example: UM-Users\username).*

do	Attention: your Active Director main\username e: UM-AD\userna	
domain\u Password	isername	
	Log in	-

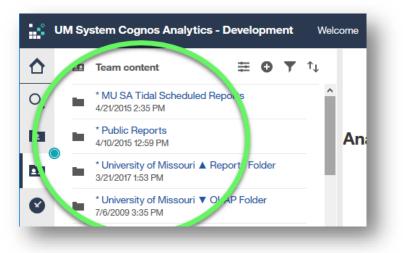
3. Cognos Analytics opens.



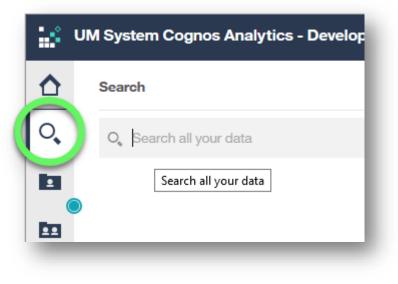
4. Click the Team Content button to display a list of public folders.



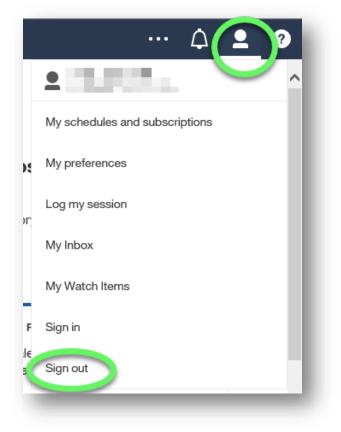
5. The team content panel expands to display a list of **Public Folders** that are available to you based upon your security and permissions.



6. If you're not sure where to find a specific report, you can click the Search button to expand the search feature.



- 7. To log off Cognos Analytics, use one of the following procedures:
  - Expand the Log On list in the upper right corner of the page, and click Log Off.
  - Click the **Personal** button ("head and shoulders" icon) to expand personal account options, and click the Sign out link.



Scott, Riotta	-	Log On	
	8	Log Off	
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#### END OF PROCEDURE. You have successfully Accessed Cognos Analytics.

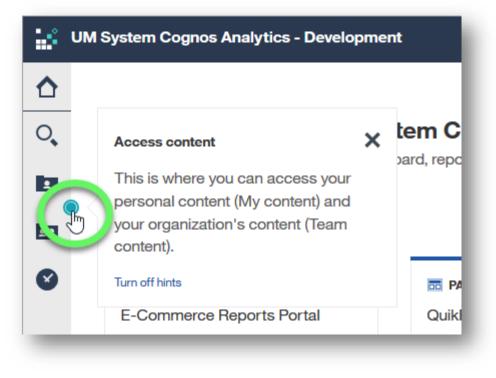
### **Navigating Cognos Analytics**

Prior to Cognos Analytics 11, Query Studio was a separate application. All features are now integrated into a single interface. The following procedures cover user menus, features, and toolbars.

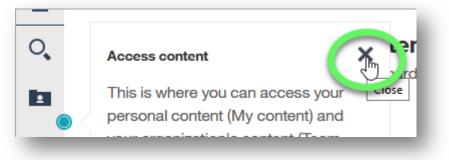
#### **Coach Marks**

**Coach Marks** are the small blue-green dots found in various locations in the Cognos Analytics interface, which help new users learn about components of the application.

1. Click the Coach Mark on the Access Content panel to reveal information (aka *hints*) about the feature.



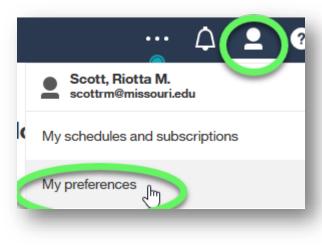
2. Click the X in the upper right corner of the hint to close it. Once you've read and closed a hint, that coach mark will no longer appear.



3. You can turn off all hints by clicking **Turn off hints** in any open hint.



4. You can turn hints on again through My preferences, found under the Personal button ("head and shoulders" icon).



5. In the **My preferences** panel, check mark **Show hints**.

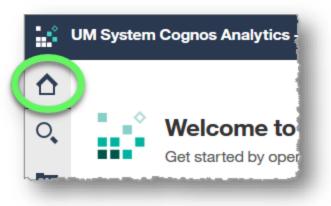
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End of Coach Marks topic.

#### **Access Content panel**

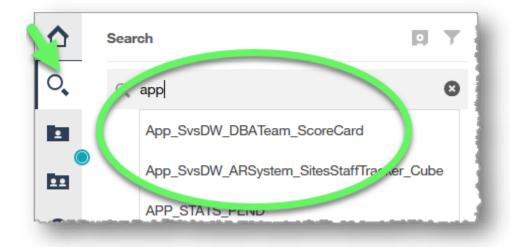
The Access Content panel contains buttons for accessing, managing, and creating content.

1. The Home button on the Access Content panel takes you back to your home page, which is the Welcome screen by default.

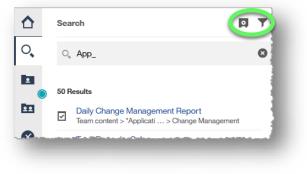


2. The **Search** feature on the Access Content panel contains features to help narrow your searches if necessary.

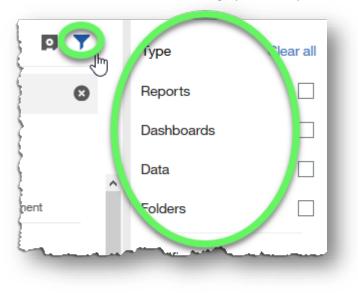
Click the **Search icon and** type a search term into the search field. Possible matches begin to appear in the Results section as you type.



#### Press Enter to return results and reveal the Save search and Filter search features.



Click the **Filter icon** to reveal filtering options for your search.



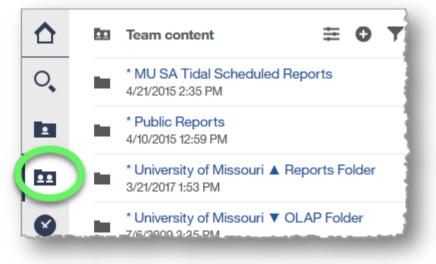
Click an empty area outside of the search and filtering options dialog panel to dismiss the features.

3. To browse for content rather than searching for it, use the **My content** and **Team content** buttons.

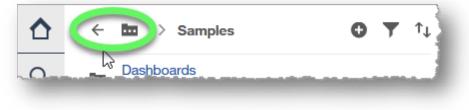
Personal content, or content that you've copied or saved into your private folder, will appear when you click the **My content** button.



University content is listed under the **Team content** section.

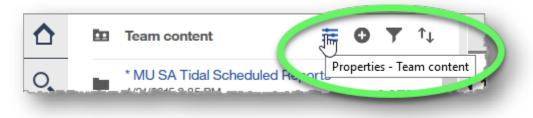


**Click links in Team content** to drill down to the desired content. Different button icons appear at the top depending on the type of content displayed.

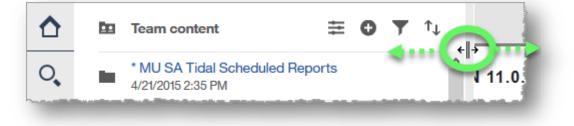


4. There are buttons for returning to previous content, filtering and sorting content, adding folders, viewing content properties, and showing collapsed content (when there's not enough room to show previous content in the breadcrumbs).

Hover the cursor over a button icon to see its label to determine its function.

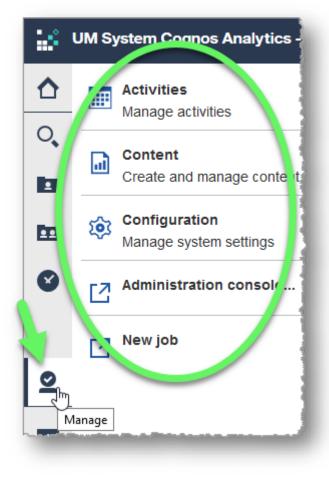


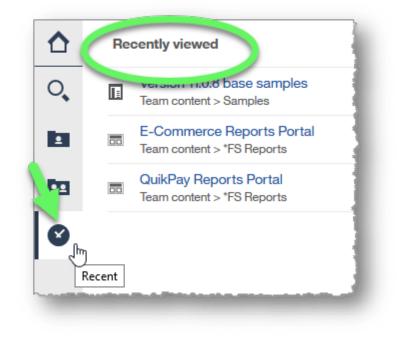
Drag the right side of the panel to increase or decrease its width. Increasing the width may reveal more breadcrumbs.



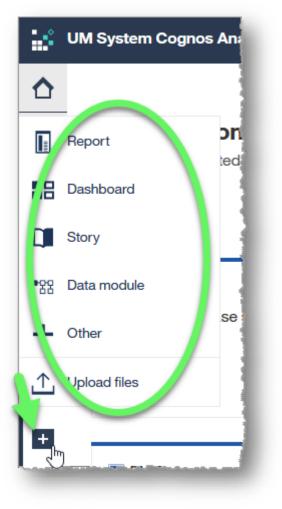
To close the section without clicking a report link, click the **Team content button** again, or click an empty area outside the dialog panel.

- 5. The **Recent** button shows content you've recently viewed.
- 6. The **Manage** button lists options for managing content.





7. The **New** button at the bottom of the Access content panel provides options for creating or adding content.



End Access Content Panel topic.

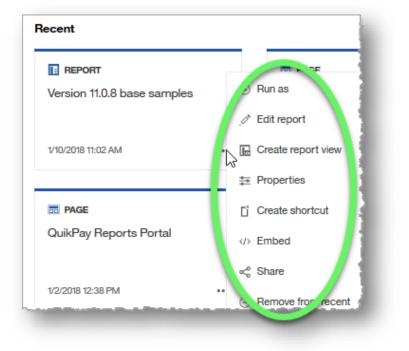
#### Cognos Analytics Basics

#### Welcome screen

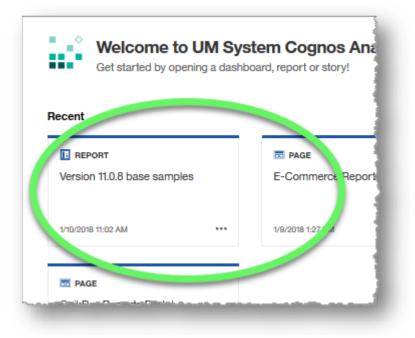
The Welcome screen is the default home screen unless and until you designate a new home screen, which we will examine in the next section of this topic.

1. The **Recent** area displays tiles for the most recent content you've opened. It displays the type of content (report, page, etc.), the name of the content, the date and time it was viewed, and an Action menu.

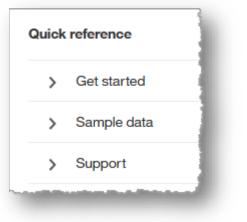
Click the **Action menu button** (ellipses icon, lower right of tile) to reveal action items for the selected content.



The listed action items vary depending upon the content type represented in the tile.



2. The **Quick reference** section provides links to help get you started in Cognos Analytics.



3. The **Drag and drop** feature usually appears at the bottom of the screen.

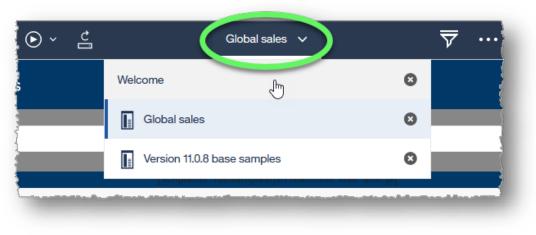
1

#### End of Welcome screen topic.

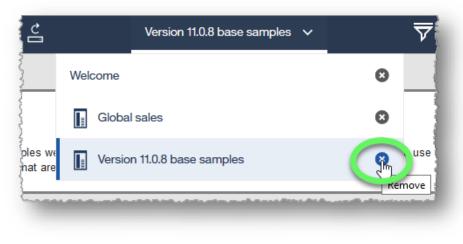
#### Header bar

The buttons available on the header bar vary depending on the content you're viewing.

1. The **Switcher**, located at the top, center of the page, allows you to switch to other open content or back to your home screen, which is the Welcome page by default.



Click the **x** next to the name of content you wish to close.



2. The **More** button (the ellipses icon in the upper right area of the page) displays options depending on the content you are currently viewing.

The **Set as home** item in the More menu allows you to set the current page as your home page, replacing the Welcome screen as home.

3. The **Notifications button**, denoted by a bell icon, lists any Notifications you've received.

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-	There are no notif	ications at this time	

	<u>)</u>	2	?
Set as home	Į.		^
Share			
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- 4. The **Personal menu** lists personal options like Preferences and access to your Inbox. It is also where you can sign in or out.
- 5. The **Help menu** displays options for information, help, and learning.

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My schedules a	and subscriptions	
My preferences	5	
Log my sessio	n	
My Inbox		
My Watch Item	S	
Sign in		
Sign out		

#### 6. The following buttons appear on the header bar when some types of content are open:



End of Header bar topic.

END OF PROCEDURE. You have successfully navigated Cognos Analytics.

## **Creating and Formatting a List Report**

A list report is a type of report that displays data as a series of tabular columns. Each column is one field, and each row is one record.

**DISCLAIMER**: The following demonstration is an example of applying formatting to a report. The formatting choices you apply to reports created with Cognos Analytics may not always correspond to this example.

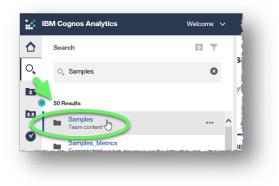
For report standardization, templates with extensive formatting can be built, saved, and then applied to the report pages and prompt pages to achieve a consistent look and feel.

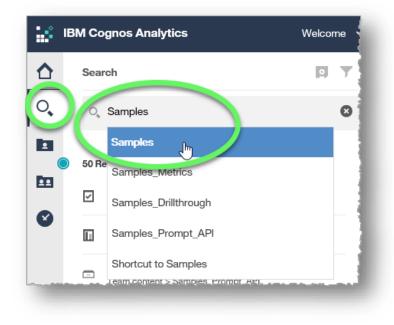
For formatting instructions specific to your own reports, consult a department style guide.

#### Procedure A: Create a report using the Search feature

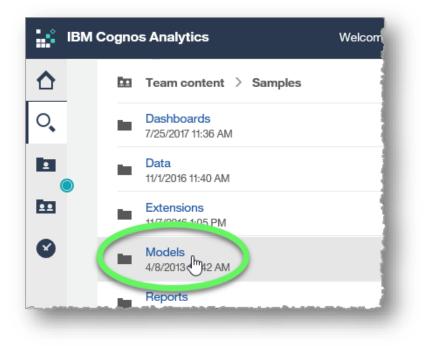
In this first procedure, we will create a report using the Search feature as a short cut.

- 1. Expand the **Search** button and type the name of the content folder in which your data resides. For this training example, type **Samples** in the search field. Possible matches appear in a list below the field; click the appropriate match (in this example, **Samples**).
- 2. Search results based on your selection appear. Click the appropriate content link, which is **Samples** in this example.





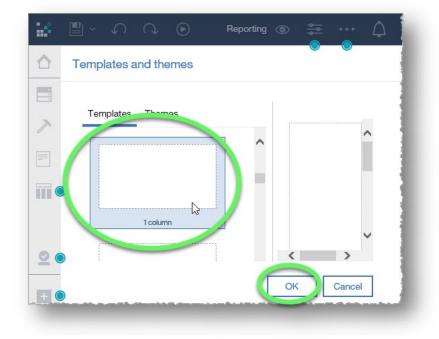
3. The data we want to use is in the **Models** folder, so click Models in the Samples content menu.



4. Hover over the appropriate link in the Models menu, **GO Sales (query)** in this example, and click the **More** button (ellipses icon) when it appears on the right side of the link. Choose **Create report** from the options that appear.



5. The **Templates and themes** page opens. Select the **1 column** template and click the **OK** button.



6. A **Plus** icon appears in the right screen area. Skip to **Procedure B, Step 5** below to continue the process of creating a report.

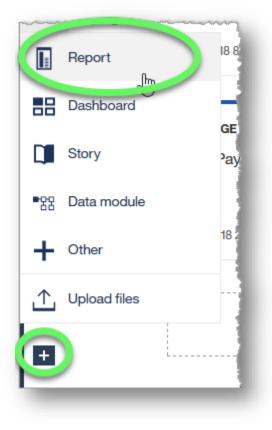


#### End of Procedure A.

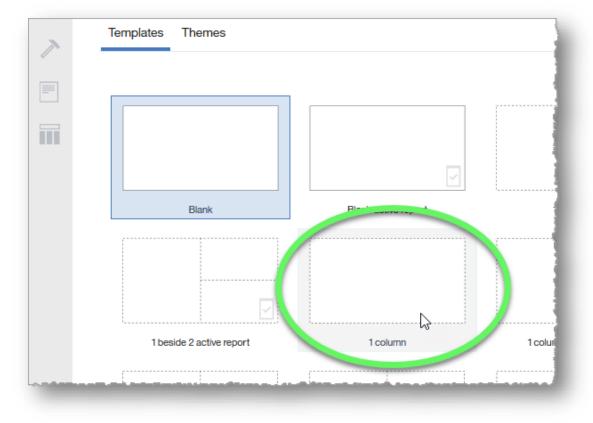
#### Procedure B: Create a report by using the New button

The following procedure involves using the New button rather than using the Search feature shortcut outlined in Procedure A above. If you've completed the steps above, you may skip to step 5.

 Click the New button at the bottom of the Access Content panel (left side of the screen) and select Report from the options that appear.



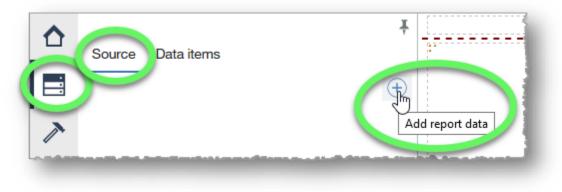
#### 2. Select a template to work with. (In this example, we will use **1 column**.)



#### Click the **OK** button.

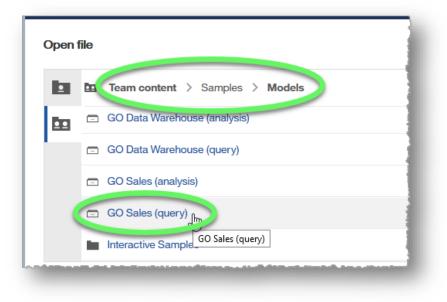


3. Choose a data source for the report. Expand the **Data** button on the Access Content panel if necessary, and click the **Add report data** button (circle plus icon).

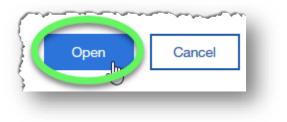


4. In the **Open file** dialog window, locate your data source.

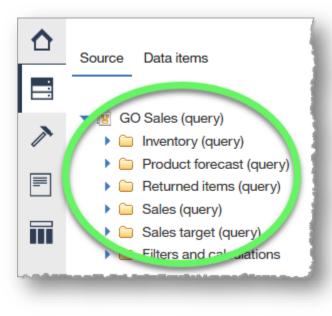
In this example we will use the GO Sales (query) sample content.



#### Click the **Open** button.



The data is displayed in the **Data** pane.

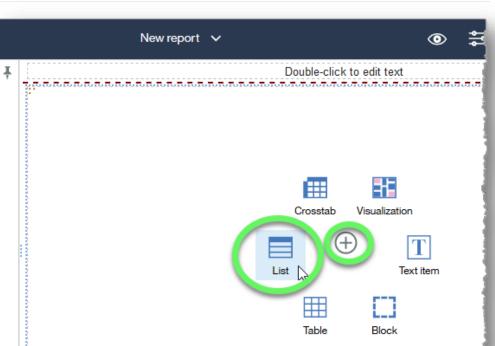


5. Choose a report type by clicking the plus icon in the table cell in the right pane of the screen, and then clicking the **List** icon when the options appear.

The **Object and query name** dialog window appears.

Name:				
List1				
Query Name	e:			$\oplus$
Query1			~	
Show thi	s dialog in the	future		
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6. Type a name in the **Name** field. In this training example, we want to list all sales representatives by region and position, so we will name the list **Sales Reps**.

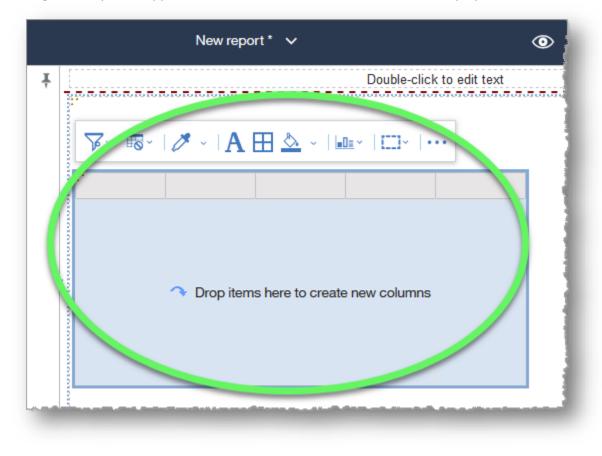


Name:		
Sales Reps		
Con Name		

Click the **OK** button.



7. A drag-and-drop table appears, as well as a contextual toolbar, which is displayed whenever the table is selected.

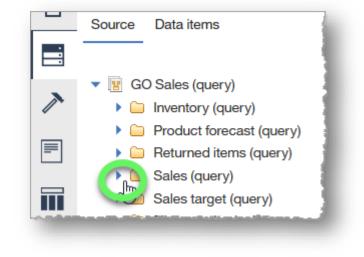


9. Add data to the table.

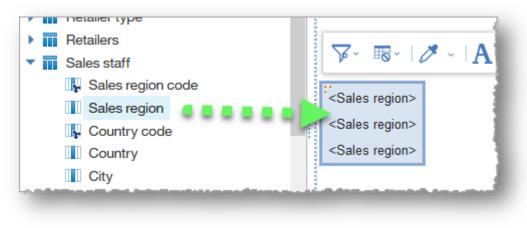
Click to expand **Sales (query)** in the data source pane.

#### Under Sales (query) expand Sales staff.



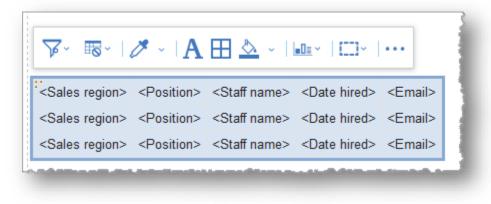


Double-click Sales region to add it to the table.

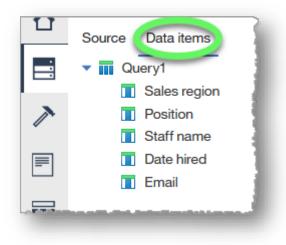


#### Add Position, Staff name, Date hired, and Email.

*Note*: In addition to double-clicking an item to add it to the table, you can right-click and choose *Insert*, or click, drag, and drop an item onto the table.

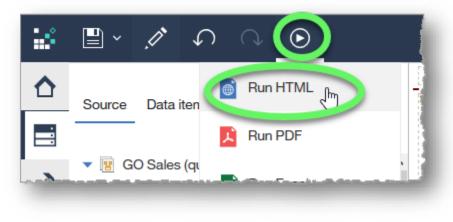


10. Click the **Data items** tab to view the query you've created.



Click the **Source** tab to return to the full list of available data items.

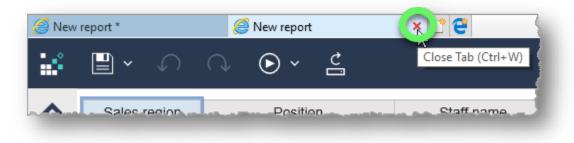
#### 11. Click the **Run options** button in the header bar to expand its options, and choose **Run HTML**.



The report opens in a new tab.

	₽ - ∽	○ • • 🖆		New report	
$\mathbf{A}$	Sales region	Position	Staff name	Date hired	
	Southern Europe	Level 2 Sales Representative	Silvano Allessori	Jun 27, 2012 12:00:00 AM	SAlle
0	Northern Europe	Level 2 Sales Representative	Anders Nilsson	Dec 9, 2008 12:00:00 AM	ANils
Ť	Americas	Level 3 Sales Representative	Donald Chow	Jan 28, 2008 12:00:00 AM	DCh
2	Americas	Branch Sales Manager	Alex Rodriguez	Sep 8, 2006 12:00:00 AM	ARo
	A	Provide Delac Managerar	della Oliver	Aug 45 0000 40-00-00414	101

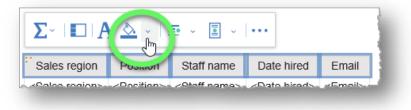
Observe that the report ran with the default formatting. **Close the new tab** in which the report was run; we will format the report next.



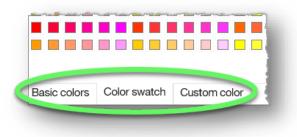
12. Select the cells in the header row in the List Report (select **Sales region** and then Shift-click **Email**). A blue border indicates that a cell is selected.

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Sales region	Position	Staff name	Date hired	Email
<sales region.<="" td=""><td>Desitions</td><td><staff names<="" td=""><td>Det inter</td><td>&lt;⊏mail&gt;</td></staff></td></sales>	Desitions	<staff names<="" td=""><td>Det inter</td><td>&lt;⊏mail&gt;</td></staff>	Det inter	<⊏mail>
<sales region=""></sales>	<position></position>	<staff name=""></staff>	<date hired=""></date>	<email></email>
<sales region=""></sales>	<position></position>	<staff name=""></staff>	<date hired=""></date>	<email></email>

13. In the contextual toolbar, click the arrow beside the paint bucket icon to expand the **Background color options**.



The Background color options dialog window has three tabs: Basic colors (16 common swatches), Color swatch (216 swatches), and Custom color (color ramp).



14. Click a color from any of the three options.

**Note:** If you choose a **Custom color**, you must click the **Apply** link once you've made your choice. If you click a color swatch from **Basic colors** or **Color swatch**, the dialog window closes, and the selected cells are painted with the chosen color.

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Sales region	Position	Staff name	Date hired	Email
<sales region=""></sales>	<position></position>	<staff name=""></staff>	<date hired=""></date>	<email></email>
<sales region=""></sales>	<position></position>	<staff name=""></staff>	<date hired=""></date>	<email></email>
<sales region=""></sales>	<position></position>	<staff name=""></staff>	<date hired=""></date>	<email></email>

15. With the header row cells still selected, click the **Font** button to open the Font dialog window.



16. Choose options for font, size, etc., and then click the **Foreground Color** link.

Arial Black' Andale WT		Size:	~	Weight: (Default) Normal	Style: (Default) Normal	
Arian Arian	^	10pt 11pt	^	Bold	Italic	
Arial Unicode MS		14pt				
Effects	Prev	iew				
Underline Overline Line-through			Ar	ial Black		
(		Foreground	l Cq	lor		

17. In the **Foreground Color** dialog window, choose a color that contrasts well with your background color choice so that the headings are easily readable.

Click the **OK** button to close the Foreground Color window and return to the Font window.

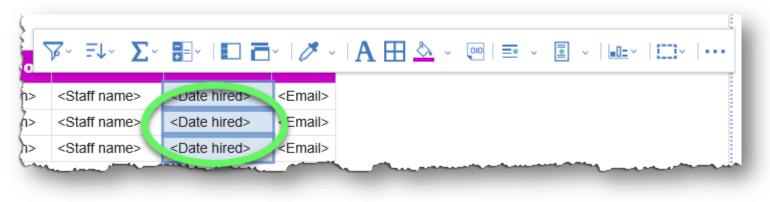


Foreground	l Color	
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Basic colors	Color swatch	Cust
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18. Click the **OK** button on the **Font** window to close the dialog and return to the report.

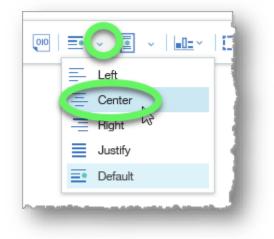
Foreg	round Color	********		
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19. Click a cell under the **Date Hired** heading to select the data cells for that heading.

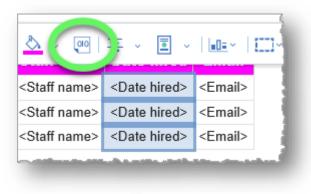


Note that the toolbar contains more options for data cells than heading cells. We will examine those options in later lessons.

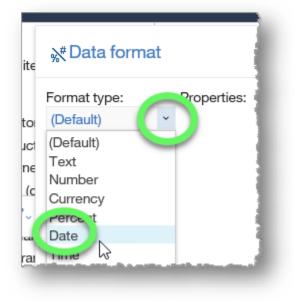
20. Expand the Horizontal alignment options list, and choose Center.



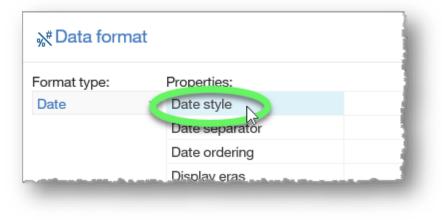
21. Click the Data format button (curled page icon with % symbol) in the contextual toolbar.



22. In the Data format dialog window, expand the **Format type** field and choose **Date**.



23. In the **Properties** field, choose **Date style**.



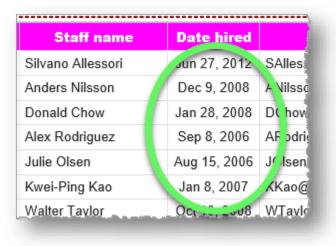
#### 24. Expand the **Date style** options, select **Medium**, and click the **OK** button.

Properties:	
Date style	Medium 🗸
Date separator	(Default)
Date ordering	Short
Display eras	Medium
Display years	Full
Display months	
Display weekdays	
Display days	
Calendar type	~
Missing value charactore	
Date style Specifies the date style. The determined by the language only numbers. Medium use	
Long uses complete word	

25. Rather than run the report again, we'll check our results by changing the Page view. Click the **Page views** (eye) icon on the right side of the header bar to expand its options, and then click **Page preview**.



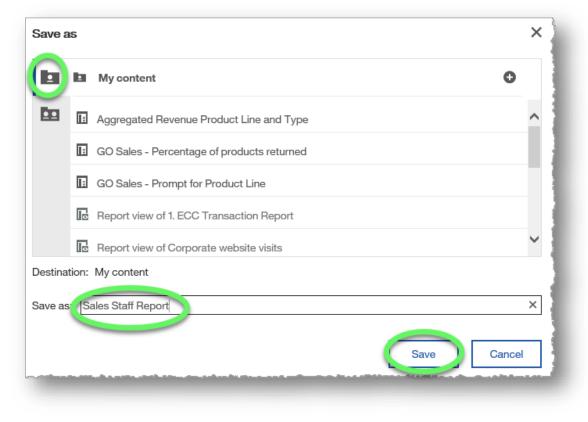
26. The Hire dates are center aligned in the chosen date format.



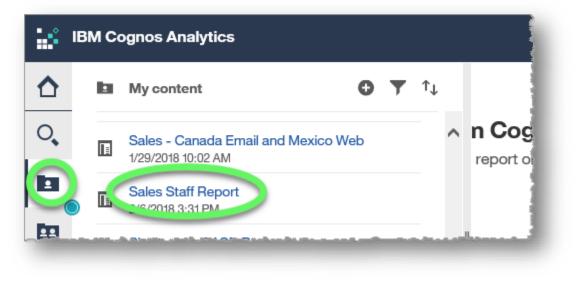
#### 27. Click the **Save** button to save your report.



28. In the **Save as** dialog window, click the **My content** icon, type a name for the report in the **Save as** field, and click the **Save** button.



29. Hereafter, the report can be quickly accessed in **My content**.



#### END OF PROCEDURE.

You have successfully created and formatted a List Report.

# **Sorting Lists**

The ability to sort lists is important, especially with large reports. Cognos Analytics makes it very easy to sort by the information in a column.

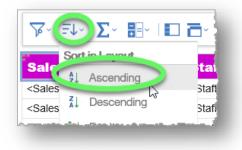
## **Procedure:**

In this exercise, we will sort the Sales Rep report we created in the previous procedure by Sales Region.

1. With the report you created in the previous lesson open in **Page design view**, click the **Sales region** heading to reveal the contextual toolbar.



2. Click the **Sort** icon to expand its options and click **Ascending** to sort the sales regions alphabetically from A to Z.



Observe that the Sales region heading now has an upward-pointing arrowhead icon to the right of its title, indicating that the column is sorted in Ascending order.



**Cognos Analytics Basics** 

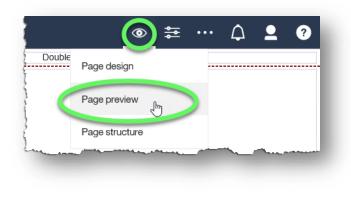
Training/Reference Guide

3. Rather than run the report again, we'll check our results by changing the Page view.

Click the **Page views** (eye) icon on the right side of the header bar to expand its options, and then click **Page preview**.

Observe that the **Sales region** column is sorted with "Americas" appearing first but note that the arrowhead icon is gone.

		Double-click to e	dit text	
Sales	Position	Staff name	Date hired	Email
Americas	Branch Sales Manager	Alex Rodriguez	Sep 8, 2006 12:00:00 AM	ARodriguez@grtd123.com
Americas	Branch Sales Manager	Bayard Lopes	Mar 5, 2010 12:00:00 AM	BLopes@grtd123.com



- 4. To change the sort order to Descending, click the column heading to activate the contextual menu and change the sort using the Sort feature. This can be done in either Page preview or Page design view, and will remain when switching between views.
- 5. If you want to sort by a different column, expand the sort options on the currently-sorted column and choose **Don't sort** before applying a sort order to another column.

#### END OF PROCEDURE.

You have successfully sorted a list.

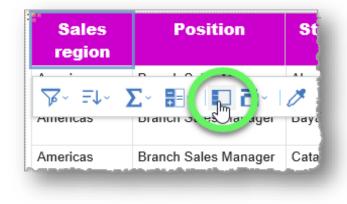
## **Grouping Lists**

Grouping lists is another feature that makes it easier to locate and read specific data in a report.

## Procedure

In this exercise, we will group the data in the **Sales Reps** report that we created in the *Creating List Reports* procedure by Sales Region and by Position. We will work in **Page preview** to see our results instantly, but you can apply grouping in **Page design** view as well.

- 1. Sort the column that you wish to group in either Ascending or Descending order.
- 2. With the **Sales region** column heading still selected, click the **Group/Ungroup** button. Since the column is not yet grouped, this action will group identical data in the column.



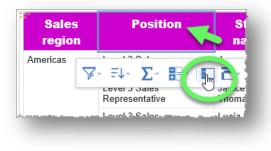


4. The **Sales Region** column displays **Americas** only once now that it is grouped.

Use the page controls located under the report to confirm that the various Sales regions have been appropriately grouped.

Sales region	Position	Staff name	Date hired	Email	
Americas	Branch Sales Manager	Alex Rodriguez	Sep 8, 2006 12:00:00 AM	ARodriguez@grtd123.com	
	Branch Sales Manager	Bayard Lopes	Mar 5, 2010 12:00:00 AM	BLopes@grtd123.com	
	Branch Sales Manager	Catarina Couto	Nov 5, 2008 12:00:00 AM	CCouto@grtd123.com	
	Branch Sales Manager	Corey Wright	Jan 22, 2008 12:00:00 AM	CWright@grtd123.com	
	Branch Sales Manager	Georges Saint- Germain	Sep 5, 2007 12:00:00 AM	GSaint- Germain@grtd123.com	
•	Branch Sales Manager	Gepetto Perez	Jul 29, 2009 12:00:00 AM	GPerez@grtd123.com	
	Branch Sales Manager	Julie Olsen	Aug 15, 2006 12:00:00 AM	JOIsen@grtd123.com	~

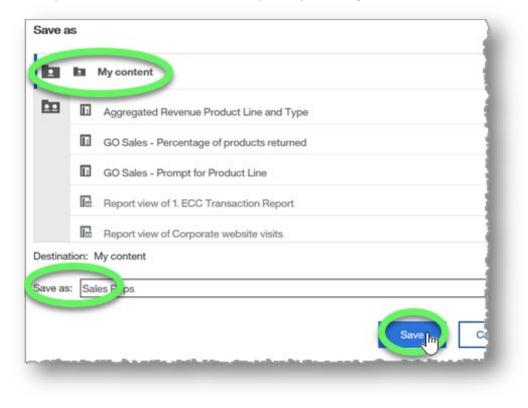
5. Select the **Position** column heading and click the **Group/Ungroup** button to group the positions within each sales region.



Observe that the report is still grouped by **Sales region**, and that **Positions** within each sales region are appropriately grouped as well.

Sales region	Position	Staff name	Date I
Americas	Branch Sales Manager	Alex Rodriguez	Sep 8, 2006 1
		Bayard Lopes	Mar 5, 2010 1
		Catarina Couto	Nov 5, 2008 1
		Corey Wright	Jan 22, 2008
	Level 1 Sales Representative	Georges Saint-Germain	Sep 5, 2007 1
		Gepetto Perez	Jul 29, 2009 1
		Julie Olsen	Aug 15, 2006
		Sally White	Mar 4, 2009 1
		Samantha Floyd	May 2, 2006 1
		Anna Valdez	Aug 10, 2011 1
		Beatriz Couto	Mar 15, 2010
		Brendon Pike	Feb 24, 2009
		Carole Claudel	Jan 2, 2010 1
		Elaine Varney	Nov 17, 2009
		Harold Germaine	Apr 18, 2009 1

6. As always, click the **Save** button and save your report in **My content**.



END OF PROCEDURE. You have successfully grouped lists.

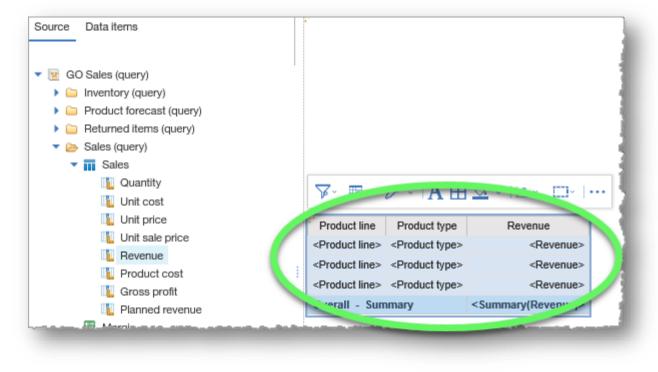
# **Aggregating Lists**

Aggregating data makes it possible to examine trends, make comparisons, and reveal information and insights that would be difficult to discern if viewing the data elements in isolation.

## Procedure

In this example, we will aggregate data to view average revenue data by product line and type.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Product line** and **Product type** (from the Products data item), and **Revenue** (from the Sales data item).



2. Select the **Product line** column header and click the **Group/Ungroup button**.

Change the page view to **Page preview**.

 Page design		
Page preview		
Page structure		
Page structure		

Product line	Product type	Revenue
Product lin	<product type=""></product>	<revenue></revenue>
<product line=""></product>	<product type=""></product>	<revenue></revenue>
<product line=""></product>	<product type=""></product>	<revenue></revenue>
Overall - Sum	nmary	<summary(revenue)></summary(revenue)>

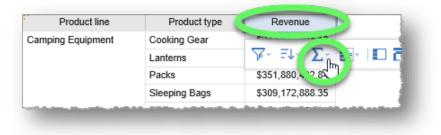
The data are grouped by Product line, but we need to also group them by **Product type**.

Product line	Product type	Revenue
Camping Equipment	Cooking Gear	\$272,835,984.18
	Lanterns	\$126,925,660.64
	Packs	\$351,880,402.84
	Sleeping Bags	\$309,172,888.35
	Tents	\$528,221,728.02
Camping Equipment - Sur	\$1,589,036,664.03	
Golf Equipment	Golf Accessories	\$51,514,343.88
	Irons	\$254,814,337.99
	Putters	\$106,184,271.37
	Woods	\$313,898,414.65
Golf Equipment - Summar	У	\$726,411,367.89
Mountaineering Equipment	Climbing Accessories	\$81,096,582.48

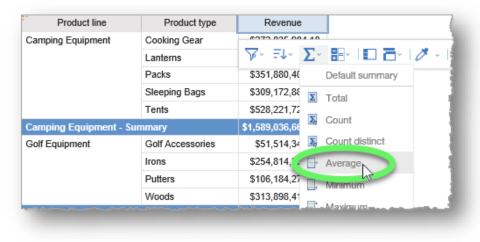
3. Select the **Product type** column header and click the **Group/Ungroup button**.



4. Select the **Revenue** column header and click the **Summarize** button in the contextual toolbar to expand its options.



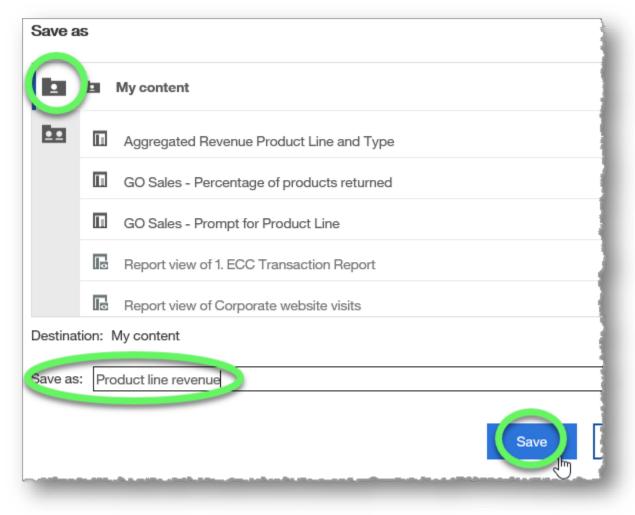
#### Choose Average.



#### 5. The report displays the average data as required.

Product line	Product type	Revenue
Camping Equipment	Cooking Gear	\$272,835,984.18
	Lanterns	\$126,925,660.64
	Packs	\$351,880,402.84
	Sleeping Bags	\$309,172,888.35
	Tents	\$528,221,728.02
Camping Equipment - Summary		\$1,589,036,664.03
Camping Equipment - Average		\$317,807,332.81
Golf Equipment	Golf Accessories	\$51,514,343.88
	Irons	\$254,814,337.99
	Putters	\$106,184,271.37
	Woods	\$313,898,414.65
Golf Equipment - Summar	У	\$726,411,367.89
Golf Equipment - Average		\$181,602,841.97
Mountaineering Equipment	Climbing Accessories	\$81,096,582.48
Statistics in the second s	and the second se	

6. As always, click the **Save** button and save your new report in **My content**.



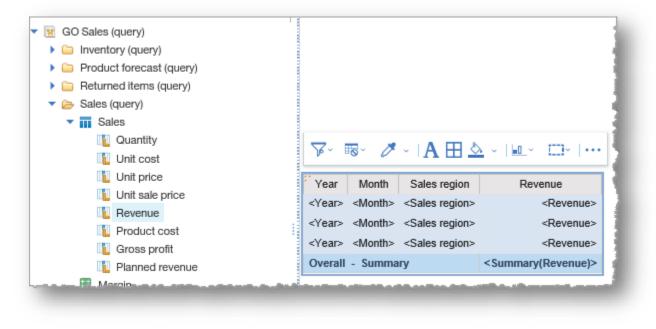
#### END OF PROCEDURE. You have successfully aggregated lists.

## **Applying Conditional Formatting**

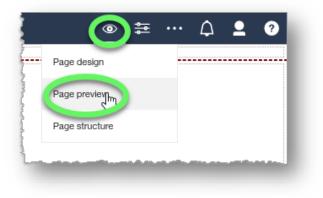
Conditional formatting enables you to highlight exceptional data and draw attention to specific rows.

In this training example, Marketing wants to determine which sales regions have generated the most monthly revenue over the years. They would like to see, at a glance, any region that generated over \$15 million in any given month. We will use conditional formatting to highlight the specific data that Marketing wants to see.

1. Create a report from the sample GO Sales (query): Sales (query) data that includes **Year** and **Month** (from the Time data item), **Sales region** (from the Sales staff data item), and **Revenue** (from the Sales data item).



2. Change the page view to **Page preview** so that we can see our results instantly.



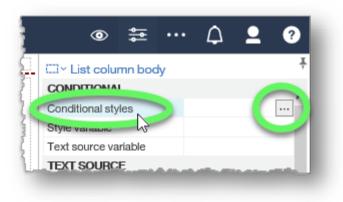
3. Select the cells in the **Revenue** column.

Year	Month	Sales region	Revenue
2010	November	Americas	\$1,002,7- 86
2011	July	Americas	¢18,903,026.2.
2011	September	Americas	\$19,593,162.26
2012	December	Americas	\$25,996,212.79
2012	November	Americas	\$24,500,780.36
2013	June	Americas	\$32,533,800.6
2012	October	Asia Pacific	\$. 4,366,940 3
2011	September	Asia Pacific	\$17,057,095.04

4. Click the **Show properties** button on the right side of the header bar to open the **Properties** pane.



5. In the Properties pane, click the **Conditional styles** link to reveal its options button, and then click the button to open the Conditional styles dialog window.

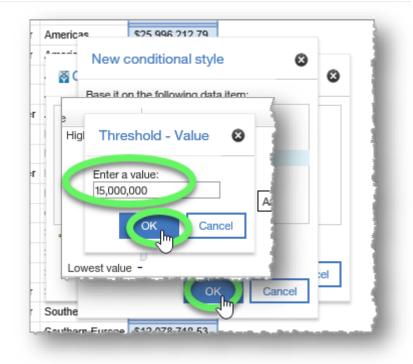


6. Click the New conditional style button (+ icon) in the Conditional Styles window to expand its options, and choose New Conditional Style...

			٦
1×4 L			
New Conditional Style.	ĸ	Cance	el
Use Existing Conditional Style			

- 7. In the **New conditional style** dialog window, select the appropriate data item, which is **Revenue** in this example, and then click **OK**.
- 8. In the **Conditional style numeric range** dialog window, click the **New value** button (+ icon).

Americas	010,002,102.00
Conditional sty	yle - numeric range
Based on the follow Name:	ing: Revenue
Conditional Style 1	
Range	Style
nignesi	(Defauit) · AaBbCc 🥖
Lowest	value -
Missing values	(Default) v AaBbCc 🥖
	OK Cancel
	Conditional sty Based on the follow Name: Conditional Style 1 Range Highest



- 9. In the **Threshold Value** dialog window, type the value that you want to base the condition on, which is \$15,000,000 in this example, and then click **OK**.
- 10. Back in the **Conditional style numeric range** window, click the top **(Default)** in the Style section to expand its contents, and then choose **Excellent**, which applies a green background style to any cells in the Revenue column that are above \$15,000,000.

Co	nditional style - r	numeric range
Base Name	d on the following: Re a:	evenue
Conc	litional Style 1	
	Range	Style
×	15,000,000	(Default) / BbCc / (Default) Excellent Average Below average Poor
Mis	sing values	(Default) v AaBbCc 🥖
+		OK Cancel

#### 11. Click **OK**.

	Excellent	V AaBbCc 🥖
× 15,000,000	(Default)	v AaBbCc 🥖
Lowest value -		
Missing values	(Default)	<ul> <li>AaBbCc 🥖</li> </ul>
+		OK Cancel

12. The new Conditional style appears in the **Conditional styles** dialog window.

Note that you can edit or delete selected styles (and rearrange their order if there is more than one listed) in the buttons under the list box.

We will edit the name of the conditional style before we close the dialog.

With Conditional Style 1 selected, click the Edit button (pencil icon).

Conditional styles	8
R Conditional Style 1	
÷ 💦 🎗 🕆 🕂	
	OK Cancel

#### 13. In the **Conditional style - numeric range** window, type a descriptive name into the **Name** field, and then click **OK**.

lame: 5millionExcellence	ng: Revenue	6
Range	Style	
Highest	Excellent	• AaBbCc 🥖
<b>X</b> 15,000,0	(Default)	× AaBbCc 🥖
Lowest		
Missing values	(Default)	<ul> <li>AaBbCc 🥖</li> </ul>
+	C	OK Cancel

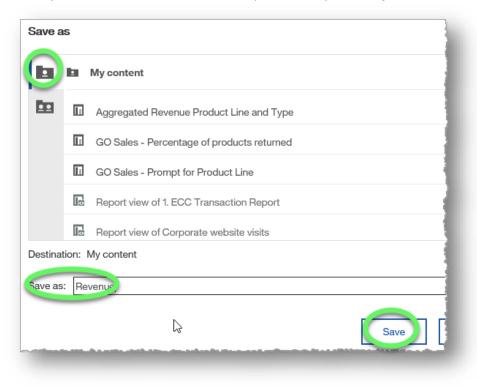
14. The new descriptive name appears in the Conditional styles list, which will make it easier to find if or when you add more conditional styles.

Click **OK** to close the window.

Conditional styles	0
15millionExcellence	
+· / X 🕆 🖟	
ОК	Cancel
outhern Europe \$4,881,706,53	0

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- 15. Revenue that is in the "Excellent" range is now highlighted with a green background.
- 16. As always, click the **Save** button and save your new report in **My content**.



Year	Month	Sales region	Revenue
2010	November	Americas	\$15,882,732.86
2011	July	Americas	\$18,903,026.27
2011	September	Americas	\$19,593,162.26
2012	December	Americas	\$25,996,212.79
2012	November	Americas	\$24,500,780.36
2013	June	Americas	\$32,533,800.65
2012	October	Asia Pacific	\$24,366,940.73
2011	September	Asia Pacific	\$17,057,095.04
2012	February	Northern Europe	\$9,931,585.47
2013	March	Northern Europe	\$13,845,407.39
2011	September	Northern Europe	\$7,352,203.04
2011	August	Northern Europe	\$7,409,979.58
2012	February	Central Europe	\$52,583,329.23
2011	August	Southern Europe	\$6,458,905.49

### END OF PROCEDURE.

You have successfully applied conditional formatting.

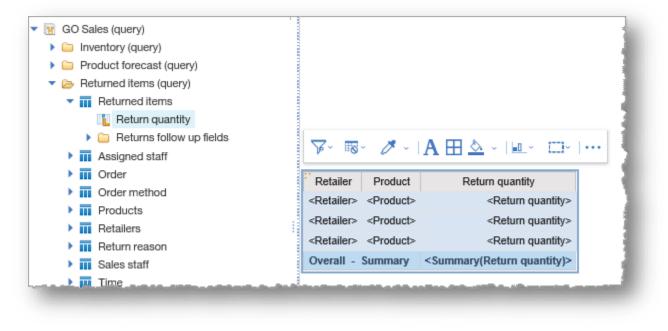
## **Sectioning Lists**

Sectioning lists is another way to make reports easier to read.

## Procedure

In this training example, we will develop a list report that organizes products and return quantity by retailer.

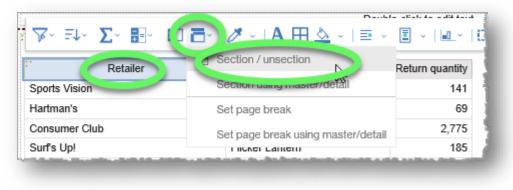
1. Create a list report from the sample GO Sales (query): Returned Items (query) data that includes **Retailer** (from the Retailers data item), **Product** (from the Products data item), and **Return quantity** (from the Returned Items data item) columns.



2. Change the page view to **Page preview** so that we can see our results instantly.



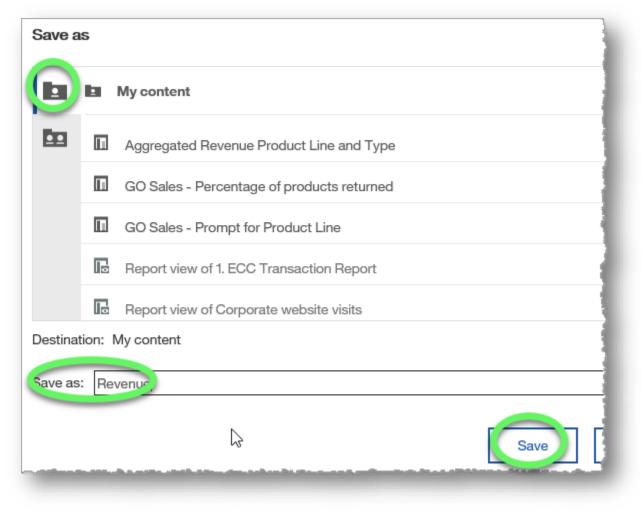
3. Divide the report by each retailer by selecting the **Retailer** column heading, clicking the **Section/Unsection** button in the contextual toolbar to expand its options, and then choosing **Section/Unsection** from the list.



4. The information is sectioned by Retailer.

r rouget		Return quan	tity
Canyon Mule Extreme Backpa		56	
Cat Eye		1	05
Dante			14
Fairway		1	87
nferno			7
nfinity			11
Legend			32
Maximus			9
Opera Vision		8	
Sun Shelter 15		875	
Sun Shelter 30		1,016	
Frail Star	8		
Frendi		105	
Zone		229	
for 4. Secto abon - Summa	iry	2,6	62
etailer: 4 Golf only			
Product	Re	turn quantity	
Astro Pilot		22	
Blue Steel Max Putter		67	
Cat Eye		92	
Course Pro Golf and Tee Set		479	

5. As always, click the **Save** button and save your new report in **My content**.



END OF PROCEDURE. You have successfully sectioned lists.

# **Filtering Lists**

Filtering lists enables you to focus analysis, exclude irrelevant data, and reduce processing time.

### Procedure

In this example, the marketing staff wants one report that shows gross profit and revenue data for the retailer that generated the most camping equipment revenue in 2013. They want a second report that shows product types for that retailer as well, but only shows product lines that generated over \$5 million in revenue. We will use filters to create these reports.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Product line** (from the Products data item), **Year** (from the Time data item), **Retailer** (from the Retailers data item), **Revenue** and **Gross profit** (both from the Sales data item).

î					
(-	Product line	Year	Retailer	Revenue	Gross profit
	SELVE	<year></year>	<retailer></retailer>	<revenue></revenue>	protit>
1				<revenue></revenue>	<gross profit=""></gross>
			STOLUTOP		<summary(gross profit)=""></summary(gross>
	^	<product line=""> <product line=""></product></product>	<pre><product line=""> <year></year></product></pre>	<pre><product line=""> <year> <retailer> <product line=""> <year> <retailer> <product line=""> <year> <retailer></retailer></year></product></retailer></year></product></retailer></year></product></pre>	Strive       (Year> <retailer> <revenue> <product line=""> <year> <retailer> <revenue> <product line=""> <year> <retailer> <revenue></revenue></retailer></year></product></revenue></retailer></year></product></revenue></retailer>

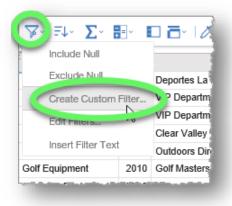
2. Switch to the **Page preview** view so that we can see the report change as we work.



3. Select the Product line column heading, where we will add our first filter.



4. Click the Filter button in the contextual toolbar to expand its options list, and then click the Create Custom Filter... option.



5. In the **Filter condition** dialog window for Product line, make sure that "**Keep these values**" is selected.

Hover your mouse over **Camping Equipment** to reveal its **Add** button (plus icon), and click it to add Camping Equipment as a value that will be kept when the report is run.

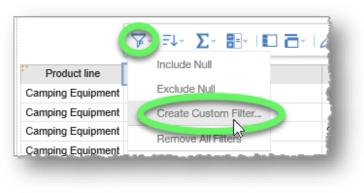
Filter condition - Pro	duct line
Specific values	
	Keep these values     Locate uncer values
Find Camping Equipment	
Golf Equipment	

Also make sure that "**Apply to individual values in the data source**" is checked, and then click the **OK** button.

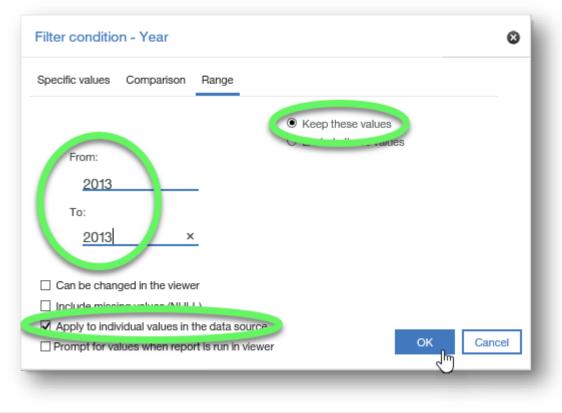
Find			~~~~
Camping Equipment	^	Camping Equipment	Θ
Golf Equipment			
Mountaineering Equipment			
Out-to-an Destantion	*		
0 Selected			
Can be changed in the viewer			
Include missing (MULL)			
Apply to individual values in the data	a source		
Prompt for values when report is fur	in viewe	ОК	Cancel

- 6. Now select the **Year** column heading, expand the **Filter** button, and click **Create Custom Filter...**
- Since Year is numeric, we will specify a range. Click the Range tab.

Filter condition - Year
Specific values Comparison Range



 We want to return results for 2013 only, so type 2013 in both the To and From fields, and make sure that both "Keep these values" and "Apply to individual values in the data source" are selected. Click the OK button.



Copyright ©2021 University of Missouri Modified July 29, 2021 9. Select the **Revenue** column heading and sort the column in **descending** order.

	<b>v</b>	💷 Σ* 🔡 🗖 🖓	🖉 - I A 🖽 🖄
Product line	Year	Sort in Layout	Revenue
Camping Equipment	2013		Vu
Camping Equipment	201	Fa 👬 Descending	\$3,282,242.67
Camping Equipment	2013	M OL Don't sort	\$2,004,572.40
Camping Equipment	2013		\$325,365.88
Camping Equipment	2013	Other Sort Options	\$1,569,025.78
Camping Equipment	2013	Edit Layout Sorting	\$960,038.66
Camping Equipment	2013	Eye Dimensions	\$27,515.88

The report is sorted by Revenue in descending order, revealing that Extreme Outdoors generated the most camping equipment revenue in 2013.

Product line	Year	Retailer	Revenue
Camping Equipment	2013	Extreme Outdoors	\$8,465,561.94
Camping Equipment	2013	Chen Yu Enterprise Co.,	\$7,608,235.66
Camping Equipment	2013	Second Wind Sports	\$5,758,057.73
Camping Equipment	2013	Artículos de Campismo El Aquila, S.A. de C.V.	\$5,728,880.77
Camping Equipment	2013	Naranco de Bulnes	\$5,661,505.41
Camping Equipment	2013	Arjan Aitta	\$5,631,535.96
Camping Equipment	2013	Edward's Department Store	\$5,039,287.83
Camping Equipment	2013	Kanga Kampers	\$4,854,103.51
Camping Equipment	2013	Grand choix	\$4,711,232.36
Camping Equipment	2013	Beach Beds Pty Ltd.	\$4,505,365.18
Oranda - Printe - ant	-2642	The Print of the P	24.015.450.00.

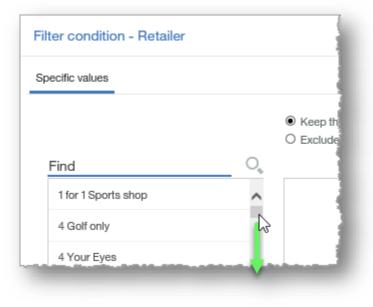
10. Create a custom filter on the **Retailer** column.

ine Year	Retailer	Revenue
2042 E.t.		CD 405 504 04
)↓- Σ- ⊞-	🛄 🗗 -   🖉 -   A 🖽 💩 -	≞ - ፤ - ⊨
Include Null	Wind Sports	\$5,758,057.73
E INCOMENTATION OF THE PARTY OF	de Campismo El Aquila, S.A. de C.V.	\$5,728,880.77
	Bulnes	\$5,661,505.41
N	f	\$5,631,535.96
hum u	3 Department Store	\$5,039,287.83
Edit Filters	ampers	\$4,854,103.51
Ineart Filter Tayt	noix	\$4,711,232.36
	↓ ∑ ■ Include Null Create Custom Filte	↓       ∑       Image: All and All

11. In the **Filter condition** dialog window, records are sorted in ascending order in the **Find** list, and you can scroll down to locate the record you wish to use in the filter.

You can scroll to locate **Extreme Outdoors** in the list, or click the word **Find** and begin typing the value you wish to locate. The dialog returns results as you type.

Extrem!		
Extreme Out	doors	



- 12. Hover the desired record to reveal the **Add** button (plus icon) and click it to add the record name as a condition.
- 13. Verify that "Keep these values" and "Apply to individual values in the data source" are checked, and then click the **OK** button.

pecific values		
	<ul> <li>Keep these values</li> </ul>	
	(×)	es
extre Extrem!	Extreme Outdoors	Θ
Extreme Outdoors		
0 Selected		
U Selecied		
] Can be changed in the viewer		
missing values (NULL)		
Apply to individual values in the	data source	OK Cancel

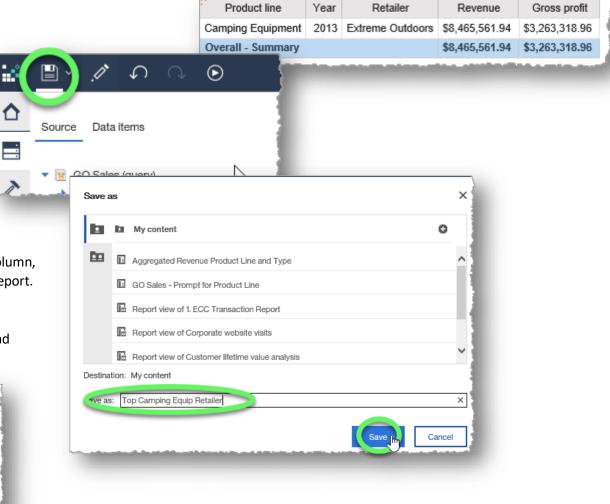
Extrem!		
Extreme Outdoors	<b>₽</b> (⊕	

14. The first report that Marketing requested is complete.

 $\mathbf{C}$ 

- 15. Click the **Save** button in the upper left corner of the page to open the Save as dialog.
- 16. Choose a destination, type a name, and click the Save button.
- 17. The second report requested by Marketing should include product types for Extreme Camping, and only show product lines that generated over \$5 million in revenue. We will add the Product type column, and edit the filters to create the second report.
- 18. Select any column heading, click the Filter button to expand its options, and choose Edit Filters...



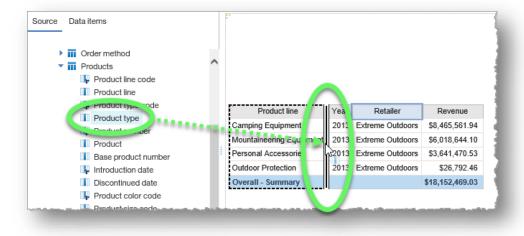


Cognos Analytics Basics

19. In the **Filters** dialog window, select **[Product Line] includes ['Camping Equipment']** and click the **Delete** button (red X icon). Click the **OK** button to close the dialog window and return to the report.

**Note:** Alternatively, you could click the **Edit** button (pencil icon) and add or remove specific products to the filter. In this report, we don't want to filter any of the product lines, so deleting the filter is the more efficient step.

20. Click and drag **Product type** (from the Products data item) from the source pane to the report, releasing the mouse when a black, vertical line appears between the **Product** line and **Year** columns. (This is another way to add columns to a report.)



21. Select the **Product line** heading and click the **Group** button from the contextual toolbar.





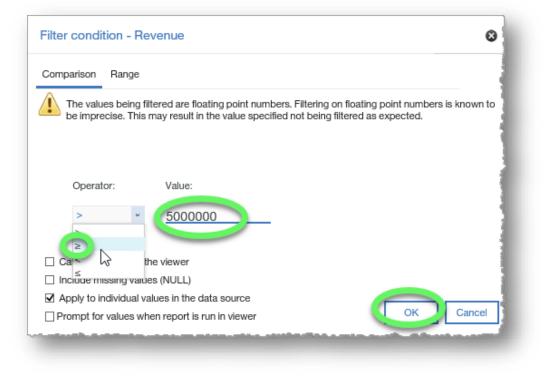
22. Select any report cell to display the contextual toolbar, expand the Filter icon, and click Edit Filters...

Γ↓- Σ- 문- ( Include Sleeping Bags	1 100001 () PO
Exclude Sleeping Bags	nts cks
Include Null	eping Bags
Exclude Null	oking Gear
Create Custom Filter	nterns iry
Remove All Filters	ols
Edit Filters	pe mbing Accesso
ountaineering Equipment	fety t - Summary
utdoor Protection	Insect Repellents

23. In the Filters - Query dialog window, click the Summary Filters tab and then click the Add (+ icon) button.

<b>T</b> Filters - 0	Query1	
Detail Filter ,	Summary Filters	
		-1
<b>R</b> /		

- 24. In the **Create filter** dialog window that appears, select **Revenue** from the **Custom based on data item** list, and then click **OK**.
- 25. In the **Filter condition Revenue** dialog window that appears, type **5,000,000** in the **Value** field, and select the **Greater than or equal to** (≥) **symbol** from the **Operators** options list and then click **OK**.

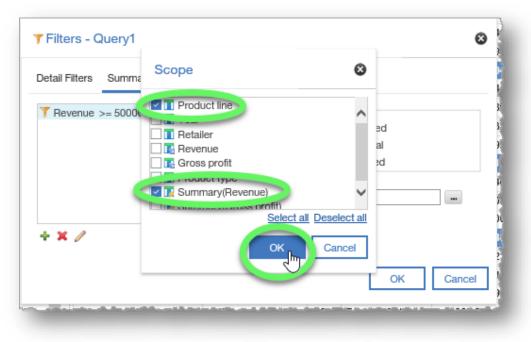




26. In the **Filters - Query1** dialog window that reappears, click the **Scope** list button.

Usage
Required
Optional
Obisabled
Scope:

27. Put check marks beside **Product line** and **Summary(Revenue)** and then click the **OK** button.

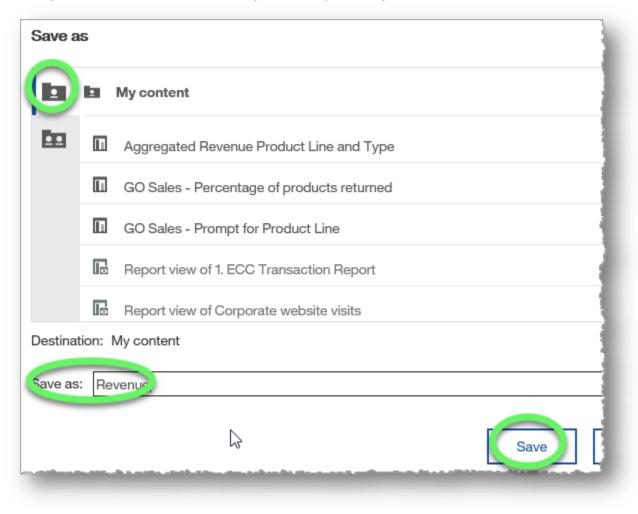


- 28. Verify that the summary filter includes the options necessary to create the desired filter, and then click the **OK** button.
- 29. The report now lists product types for the top seller, showing only product lines that generated over \$5 million in revenue, as requested by the marketing staff.

Detail Filters Summary Filters	
Y Revenue >= 5000000	Usage
+ × /	(Defined)

Product line	Product type	Year	Retailer	Revenue	Gross profit	
Camping Equipment	Tents	2013	Extreme Outdoors	\$2,517,185.19	\$821,193.93	
	Packs	2013	Extreme Outdoors	\$2,037,985.88	\$829,912.62	
	Sleeping Bags	2013	Extreme Outdoors	\$1,784,106.50	\$723,281.17	
	Cooking Gear	2013	Extreme Outdoors	\$1,406,200.40	\$573,260.76	
	Lanterns	2013	Extreme Outdoors	\$720,083.97	\$315,670.48	
Camping Equipment - Sur	nmary			\$8,465,561.94	\$3,263,318.96	
Mountaineering Equipment	Tools	2013	Extreme Outdoors	\$2,171,189.41	\$907,479.73	
	Rope	2013	Extreme Outdoors	\$1,384,416.39	\$438,319.81	
	Climbing Accessories	2013	Extreme Outdoors	\$1,376,780.35	\$705,515.85	
	Safety	2013	Extreme Outdoors	\$1,086,257.95	\$427,427.23	
Mountaineering Equipmer	nt - Summary			\$6,018,644.10	\$2,478,742.62	
Overall - Summary				\$14,484,206.04	\$5,742,061.58	

30. As always, click the **Save** button and save your new report in **My content**.



#### END OF PROCEDURE. You have successfully filtered lists.

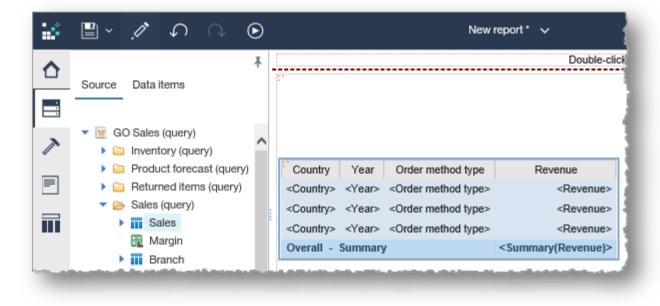
# **Filtering Lists Using Boolean Filters**

Using Boolean logic in filtering data allows you to limit, widen, or define parameters for returning results by using Boolean operators such as AND and OR.

## Procedure

In this training example, the marketing staff would like to see one report that shows revenue data for Web sales in Mexico and Email sales in Canada. This report will require using Boolean filters and grouping.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Country** (in the Branch data item), **Year** (Time data item), **Order method type** (Order method data item), and **Revenue** (Sales data item).



2. Switch to **Page preview** to more easily view the changes we make to the report in the upcoming steps.

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c	Page design					
	Page preview Page structure	ſm	>			
à						-

3. Select any item in the list report to reveal the contextual toolbar, expand the Filter options and choose Edit Filters...

In a local a bit				× - I A ⊞ ≾
Include N			tethod type	Revenue
Exclude N	lull		sit	\$13,404,470.75
Create Cu	istom	Filter	ne	\$44,969,491.53
Edit Filters	4.5			\$4,766,294.80
	6		sit	\$218,828.98
In-	-			\$79,529,412.44
ited States	2011	Mail		\$4,346,724.58

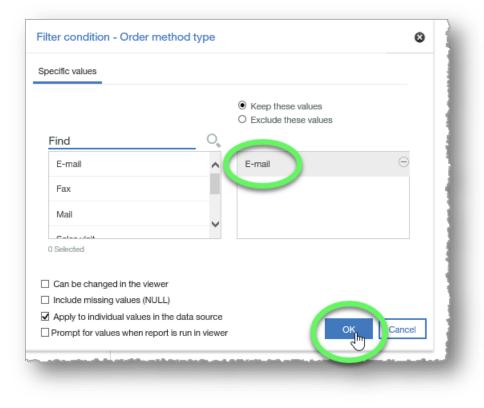
4. In the **Detail Filters** section of the Filters dialog window, click the **Add** (+ icon) button.

		Usage Required
		Optional
		Obisabled
		Application
		Before auto aggregation
		O After auto aggregation
30		
1		Can be changed in the viewer
		OK Cancel

5. In the **Create filter** dialog window, select **combined** and click **OK**.

Create filter	🙁 je-
O Custom based on data i	tem ptic
	* isa
Combined	icat
C manual	efo
COK C	Cancel
	Can be
	Gambe

- 6. The **Combined filter** dialog window opens and instantly launches another **Create filter** dialog window. Expand the list and choose **Order method type**, and then click **OK**.
- 7. In the **Filter condition Order method type** dialog window, add **E-mail** as a filter and then click **OK**.

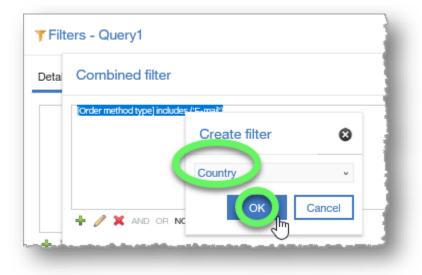


Deta	Combined filter		
	No conditions defined. Click	Create filter	8
		Order method type	
			ancel

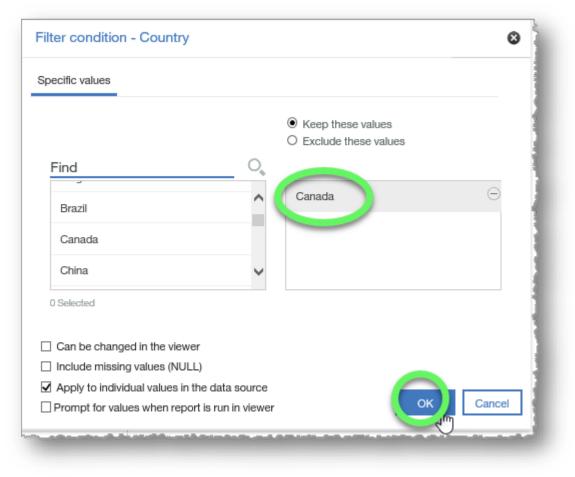
8. In the **Combined filter** dialog window, click the **Add** button (+ icon) to add another condition.



9. In the **Create filter** dialog window, select **Country** from the list, and click **OK**.



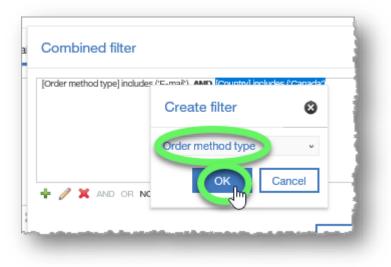
#### 10. In the Filter condition - Country dialog window, add Canada and click OK.

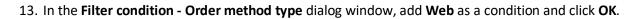


11. Observe that the **AND** operator separates the two filter conditions. Click the **Add** button (+ icon) again.

▼ Filters - Query1	
Deta Combined filter	8
[Order method type] includes ('E-mai') AND [Country] includes ('Canada')	
AND OF NOT	-
	K Cancel a

12. In the **Create filter** dialog window, expand the list and select **Order method type** and then click **OK**.





Specific values	Filter condition - Order method type		8
Can be changed in the viewer Include missing values (NULL) Apply to individual values in the data source	Specific values		
Special   Telephone   Web     O Selected     Can be changed in the viewer   Include missing values (NULL)   Apply to individual values in the data source			
Special   Telephone   Web     Web     O Selected     Can be changed in the viewer   Include missing values (NULL)   Apply to individual values in the data source			
Web O Selected Can be changed in the viewer Include missing values (NULL) Apply to individual values in the data source	~	Web	Θ
O Selected  Can be changed in the viewer Include missing values (NULL)  Apply to individual values in the data source	Telephone		
<ul> <li>□ Can be changed in the viewer</li> <li>□ Include missing values (NULL)</li> <li>☑ Apply to individual values in the data source</li> </ul>	Web		
<ul> <li>☐ Include missing values (NULL)</li> <li>☑ Apply to individual values in the data source</li> </ul>	0 Selected		
<ul> <li>☐ Include missing values (NULL)</li> <li>☑ Apply to individual values in the data source</li> </ul>	Can be changed in the viewer		
Prompt for values when report is run in viewer	Apply to individual values in the data source		
	Prompt for values when report is run in viewer		ancel

14. In the **Combined filter** dialog window, the new condition was added behind another **AND** operator.

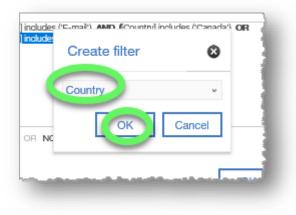
Click to select the second **AND** and then click the **OR** button to change the operator.

Detai	Combined filter	8
	[Order method type] includes ('E-mail') AND [Country] includes ( [Order method type] includes ('Web')	Cana a' AND
÷÷		OK Cancel

#### 15. Click the **Add** button to add the final condition.

FIITE	ers - Query1	
Detai	Combined filter	8
<b>7</b> ((	[Order method type] includes ('E-mai') AND ([Country] includes ('Canada') (Order method type] includes ('Web'))	OR
	AND OF NOT	
		OK Cancel ar
		OK Cance

#### 16. Choose **Country** and click **OK**.



- Filter condition Country ۲ Specific values Keep these values
   A second secon O Exclude these values O, Find vapan Θ Mexico  $\sim$ Korea Mexico V Netherlands 0 Selected Can be changed in the viewer Include missing values (NULL) Apply to individual values in the data source Cancel Prompt for values when report is run in viewer
- 17. In the Filter condition Country dialog window, add Mexico as a condition and click OK.

18. Check the filter for accuracy. The report should filter for (E-mail AND Canada) OR (Web AND Mexico). Observe that the parentheses are not positioned correctly in our combined filter.



19. Use Ctrl + click to select the first two filter conditions, E-mail and Canada, and click the **AND** button.



20. Repeat the steps for next two filter conditions, Web and Mexico, and make sure the operator separating the two combined filter conditions is OR.



21. Click **OK** to close the **Combined filter** dialog window.

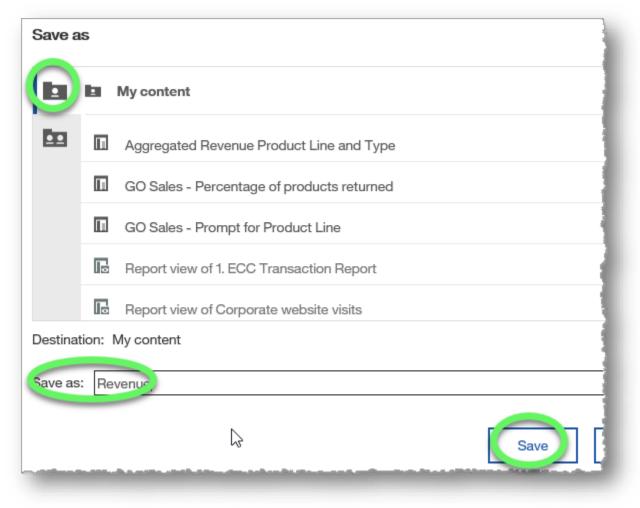


- 22. Click **OK** to close the **Filters** dialog window as well.
- 23. The filters have been combined to return a report that only lists Email revenue for Canada, and Web revenue for Mexico. Group the **Country** column to better view the results.

Country	Year	Order method type	Revenue
Canada	2010	E-mail	\$20,309,137.51
	2011	E-mail	\$9,403,869.06
	2012	E-mail	\$6,480,589.74
	2013	E-mail	\$4,403,161.66
Canada -	- Summ	iary	\$40,596,757.97
Mexico	2010	Web	\$4,251,899.15
	2011	Web	\$13,886,304.99
	2012	Web	\$43,724,327.72
	2013	Web	\$32,341,116.79
Mexico -	Summ	агу	\$94,203,648.65
Overall -	Summ	агу	\$134,800,406.62
	-		

Filters - Query1	
Detail Filters Summary Filters	
Y (([Order method type] includes ('E-mail')) AND ([Country] i	Usage Required
	Optional
	Olisabled
	Application
	Before auto aggregation
	After auto aggregation
+ × /	
	Can be changed in the viewer
	OK Cancel

24. As always, click the **Save** button and save your new report in **My content**.



END OF PROCEDURE. You have successfully filtered lists using Boolean Filters.

# **Setting up Prompts**

A prompt is a filter that is satisfied at report run time.

## Procedure

In this training example, the call center representatives need a report that allows them to quickly view product information for a particular product line.

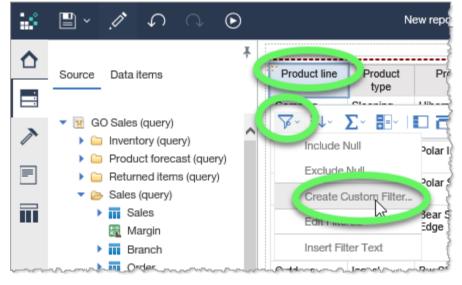
1. Create a report from the sample GO Sales (query): Sales (query): with the following columns: **Product line**, **Product type**, **Product**, **Introduction date**, **Product description** (all from the Products data item).

~		¥				Double-click to e	
Ч	Source Data items				maaaannno		
	<ul> <li>GO Sales (query)</li> </ul>						
$\nearrow$	Inventory (query)						
	Product forecast (query)						
=	🕨 🧀 Returned items (query)						
	<ul> <li>Sales (query)</li> </ul>						
	Sales						
	😹 Margin						
	Branch						
	Order		Product line	Product type	Product	Introduction date	Product description
	Order method		<product line=""></product>		<products< td=""><td><introduction date=""></introduction></td><td><product description=""></product></td></products<>	<introduction date=""></introduction>	<product description=""></product>
	Products						
	🐺 Product line code						<product description=""></product>
	Product line		<product line=""></product>	<product type=""></product>	<product></product>	<introduction date=""></introduction>	<product description=""></product>
	Product type code		Lanna			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

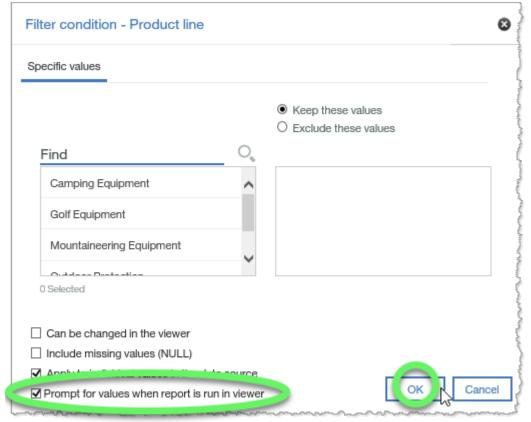
2. Expand the Page views options and click Page preview.



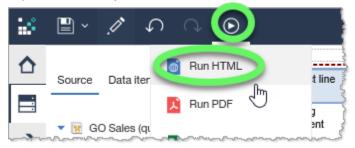
3. Create a custom filter on the **Product line** column heading.



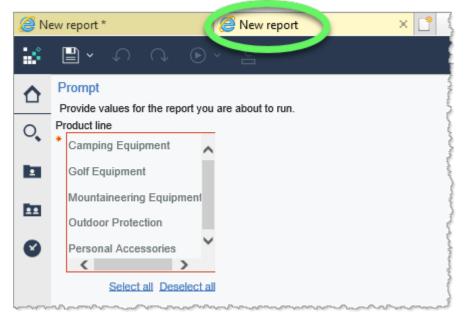
4. In the Filter condition - Product line dialog window, check mark Prompt for values when report is run in viewer and then click the OK button.



5. Expand the Run options list and select Run HTML.



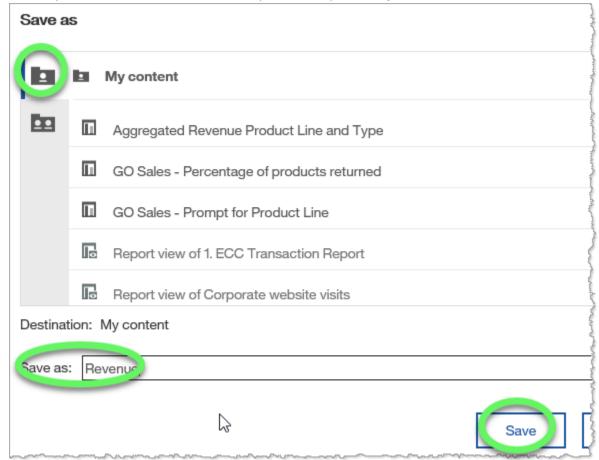
6. The report opens in a new tab, and prompts for a **Product line** value.



7. Select one or more values in the **Product line** list (Ctrl + click to select multiple values) and then click the **OK** button at the bottom of the page to continue running the report.



#### 8. As always, click the **Save** button and save your new report in **My content**.



#### END OF PROCEDURE.

You have successfully set up Prompts.

#### Cognos Analytics Basics

# **Calculating Data**

In this training example, we will add a calculation column to a list report to determine what percentage of the products shipped from inventory were returned.

1. Create a list report from the sample GO Sales (query): Inventory (query) data that includes **Product line** and **Product** (from the Products data item), **Quantity Shipped** (from the Inventory data item), and **Return quantity** (from the Returned items (query), Returned Items data item).

•	¥					Double-click to edit text
U	Source Data items	a de la composición de la comp				
>	🔻 🔣 GO Sales (query)					
	Inventory (query)					
_	Product forecast (quer		Product line	Product	Quantity shipped	Return quantity
	🔻 📂 Returned items (query)		<product line=""></product>	<product></product>	<quantity shipped=""></quantity>	<return quantity=""></return>
	<ul> <li>Returned items</li> </ul>		<product line=""></product>	<product></product>	<quantity shipped=""></quantity>	<return quantity=""></return>
	📜 Return quantity	1	<product line=""></product>	<product></product>	<quantity shipped=""></quantity>	<return quantity=""></return>
	East and the second				2 11	. ,
	Assigned staff			imary	<summary(quantity shipped)=""></summary(quantity>	<summary(return quantity)=""></summary(return>

2. Switch to **Page preview** so that we can see the report change as we work.



3. Select the column headings of the data to be used in the calculation. For this training example, ctrl + click to select both the **Quantity** shipped and **Return quantity** column headings.

			-					
ľ	Product line	Product	Quan	tity shipped	Return	n quantity		ł
	Camping Equipment	Canyon Mule Carryall	_	170047				ļ
	Camping Equipment	Canyon Mule Climber Backpack	Σ-	= *		<u>\$</u> ~	<b>=</b> ~	ł
Ļ	Camping Equipment	Canvon Mule Cooler		940802	يحيدا		نى	ł

4. Click to expand the **Insert Calculation** options and note that there are several pre-determined options for inserting a calculation based on the selected column headings. For this training example, click **Custom**.

New report *	~		٢	> <b>≑ ··</b>
	Double-click to	edit text		
ct	Quantity shipped	Return quantity		
all		2.040		
er Backpack	ΣΒ	] A 💁 - I 🛙	≞ v II v	
r	Quar	ntity shipped + Re	turn quantity	
ne Backpack	Qua	ntity shipped - Re	turn quantity	-
ey Backpack	003	ntity shipped * Re	hum quantity	
ender Backpack	Qua	nuty snipped ine	turn quantity	
	Qua	ntity shipped / Re	turn quantity	
	% (C	Quantity shipped, R	Return quantity	y)
	% D	ifference (Quantity	/ shipped, Ret	um quantity)
	Cust	tom		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	manner	now when and	~~~~~	

5. In the Insert custom calculation dialog window, expand the Operation list and select % (percentage), select the % (Return quantity, Quantity shipped) radio button in the Calculation section, and for the New data item name, select Use the custom name and type Percentage returned in the

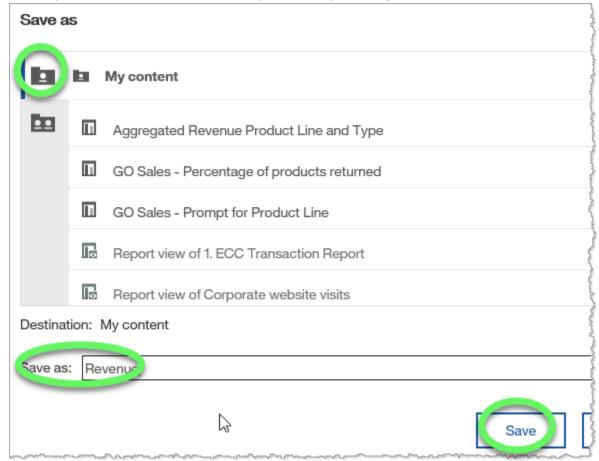
#### name field. Then click **OK**.

Insert custom calculation
Operation:
% (percentage) - v
Calculation
<ul> <li>% (Quantity shipped, Return quantity)</li> <li>% (Return quantity, Quantity shipped)</li> </ul>
\$
1
New data item name
O Use the default name
% (Return quantity, Quantity shipped)
Use the custom name Percentage returned
OK Cancel

#### 6. The calculated column **Percentage returned** is added to the report.

New report * 🗸		\$ \$	•••	¢	2	?
Double-o	lick to edit text					
Product	Quantity shipped	Return quantit	Perc	entage re	eturned	
n Mule Carryall	470817	3,8 9	)		0.81%	
n Mule Climber Backpack	593191	5, <mark>4</mark> 3	5		0.92%	
n Mule Cooler	940802	9,2 16	5		0.98%	
n Mule Extreme Backpack	142697	1,98			1.39%	
n Mule Journey Backpack	289485	2,211			0.76%	
المستلف فالمستعل المحاليات فالأم			in		- 12	-

#### 7. As always, click the **Save** button and save your new report in **My content**.



#### END OF PROCEDURE.

You have successfully calculated data.

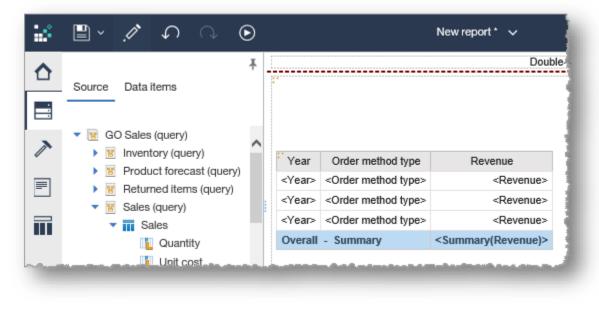
# **Creating a Crosstab Report**

Comparative analysis uses a report, such as a crosstab report (a.k.a. pivot table), to show summary measure values as intersections of row and column data.

### Procedure

For the purposes of this training example, the sales planning group wants to compare annual revenue by order method. We will create a crosstab report, as it offers the best way to present results.

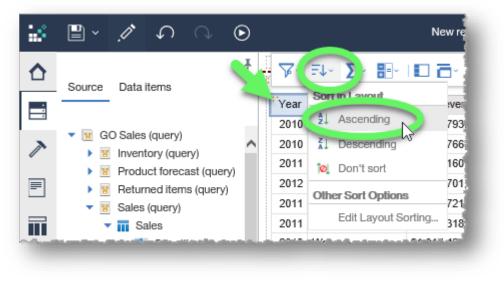
1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Year** (in the Time data item), **Order method type** (Order method data item), and **Revenue** (Sales data item).



2. Switch to **Page preview** to more easily view the changes we make to the report in the upcoming steps.

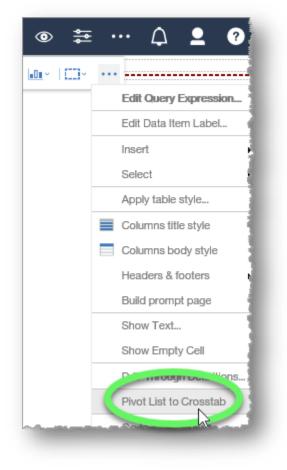


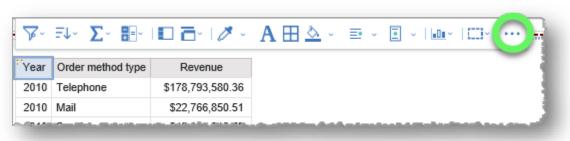
3. Select the **Year** column heading and sort in ascending order.



#### **Cognos Analytics Basics**

- 4. Click the **More** button (ellipses) at the far right of the contextual toolbar to display more options.
- 5. Select **Pivot List to Crosstab** from the listed options.

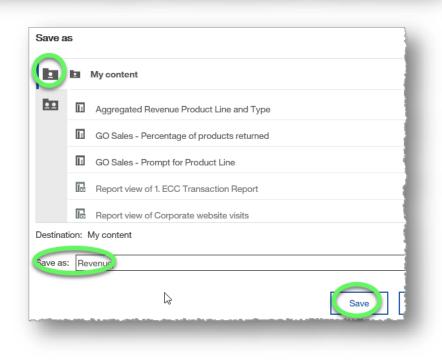




- 6. Because Year is selected when you choose 'Pivot List to Crosstab' the values of Year become the columns. Because Revenue is a measure it becomes the content of the crosstab cells. If you have more than one measure, they appear as columns. The remaining data item, 'Order method type' become the rows. If you have multiple unselected columns, that are not measures, they appear as rows and nested rows. The remaining data item, 'Order method type' become the rows. If you have multiple unselected columns, that are not measures, they appear as rows and nested rows.
- 7. As always, click the **Save** button and save your new report in **My content**.



Revenue	2010	2011	2012	2013	Summary
Telephone	\$178,793,580.36	\$107,160,284.09	\$37,199,842.80	\$17,832,073.81	\$340,985,781.06
Sales visit	\$101,072,721.10	\$79,721,524.37	\$73,918,652.38	\$55,481,936.15	\$310,194,834.00
Fax	\$28,639,472.14	\$19,896,187.76	\$13,445,559.93	\$8,092,322.18	\$70,073,542.01
E-mail	\$95,402,796.21	\$44,318,886.43	\$23,701,042.57	\$16,420,318.95	\$179,843,044.16
Mail	\$22,766,850.51	\$16,013,779.49	\$6,905,730.44	\$404,978.53	\$46,091,338.97
Special	\$13,905,918.75	\$10,769,180.34	\$1,006,100.01	\$1,670,121.15	\$27,351,320.25
Web	\$473,771,464.65	\$881,315,747.68	\$1,339,714,172.77	\$1,017,434,523.30	\$3,712,235,908.40
Summary	\$914,352,803.72	\$1,159,195,590.16	\$1,495,891,100.90	\$1,117,336,274.07	\$4,686,775,768.85



## **Creating a Nesting Crosstab Report**

Nesting crosstabs are used to compare data at varying levels of detail and in report organization.

### Procedure

In this training example, we will create a report that shows the sales revenue by sales region, country, and city.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Sales region** and **Country** (in the Sales staff data item), **Year** (Time data item), and **Revenue** (Sales data item).

		New report * 🗸	
	Source Data items	Ŧ.	Double-click to ec
7	<ul> <li>R Sales (query)</li> <li>Sales</li> </ul>	^	▽- =- ↗ -   A ⊞ 🏧 -   🔤 - □-
=	L Quantity		Sales region         Country         Year         Revenue <sales region=""> <country> <year> <revenue></revenue></year></country></sales>
	Unit price	1	<sales region=""> <country> <year> <revenue> <sales region=""> <country> <year> <revenue></revenue></year></country></sales></revenue></year></country></sales>
	Revenue		Overall - Summary <summary(revenue)></summary(revenue)>

- 2. Switch to **Page preview** to more easily view the changes we make to the report in the upcoming steps.
- 3. Select the **Year** column heading, click the **More** (ellipses) button on the far right of the contextual toolbar to expand its options, and choose **Pivot List to Crosstab**.

			ble-click to edit text		Edit Query Expression	/
Sales region	Country	Year	Revenue		Edit Data Item Label	
<ul> <li>F↓&lt; Σ</li> </ul>	 	0	· A⊞ 🅸 ·		Insert	•
Americas	United States	2013	\$126,305,726.63		Select	•
Americas	Mexico	2013	\$32,341,116.79		Apply table style	
Northern Europe	Sweden	2011	\$22,770,212.11		Columns title style	
Northern Europe	Sweden	2010	\$17,780,084.81	12		
Central Europe	France	2011	\$45,745,704.79	E	Columns body style	
Central Europe	Switzerland	2010	\$295,529,033.90		Headers & footers	•
Southern Europe	Austria	2010	\$13,866,004.52		Build prompt page	
Americas	Mexico	2011	\$35,589,920.02		Show Text	
Asia Pacific	Korea	2012	\$48,993,648.20		GHOW TOXL.	
Asia Pacific	Australia	2013	\$29,323,674.25		Show Empty Cell	
Northern Europe	Netherlands	2013	\$33,459,084.00			
Northern Europe	Finland	2010	\$27,206,118.41		Pivot List to Crosstab	



4. Because Year is selected when you choose 'Pivot List to Crosstab' the values of Year become the columns. Because Revenue is a measure it becomes the content of the crosstab cells. If you have more than one measure, they appear as columns. Because there are 2 remaining data items, 'Sales Region' and 'Country', they become the nested rows.

Revenue		2011	2012	2013	2010	Summary
Americas	razil	\$22,580,246.05	\$28,939,868.92	\$21,447,899.23	\$17,566,891.21	\$90,534,905.4
	United States	\$131,677,071.69	\$164,986,189.21	\$126,305,726.63	\$110,834,974.32	\$533,803,961.8
	Mexico	\$35,589,920.02	\$50,770,840.19	\$32,341,116.79	\$22,359,707.90	\$141,061,584.9
	`anada	\$49,366,410.09	\$67,341,094.59	\$53,511,041.09	\$41,468,882.87	\$211,687,428.
	Summary	\$239,213,647.85	\$312,037,992.91	\$233,605,783.74	\$192,230,456.30	\$977,087,880.
Northern Europe	Sweden	\$22,770,212.11	\$28,629,690.81	\$23,089,905.72	\$17,780,084.81	\$92,269,893.4
	Netherlands	\$31,959,640.39	\$42,550,836.35	\$33,459,084.00	\$25,243,944.19	\$133,213,504.

5. Select the **Sales region** by clicking on any cell in the Sales region column and sort by descending order.

_	Sort in Layout					
Americ	Sorrin Layout		246.05	\$28,939,868.92	\$21,447,899.23	\$17,
$\langle \Lambda \rangle$	▲ Ascending		)71.69	\$164,986,189.21	\$126,305,726.63	\$110,
	L Descending					
	10 0 11	6	320.02	\$50,770,840.19	\$32,341,116.79	\$22,
	🙋 Don't sort 🛛 🗸 🗸	*0	\$10.09	\$67,341,094.59	\$53,511,041.09	\$41,
	Other Sort Optio	ons	647.85	\$312,037,992.91	\$233,605,783.74	\$192,
Northe	Edit Layout	Sorting	212.11	\$28,629,690.81	\$23,089,905.72	\$17,
Europe	Netherlands	\$31,959	640.39	\$42,550,836.35	\$33,459,084.00	\$25,
	Finland	\$35 485	704 15	\$45 967 540 48	\$35 396 299 54	\$27

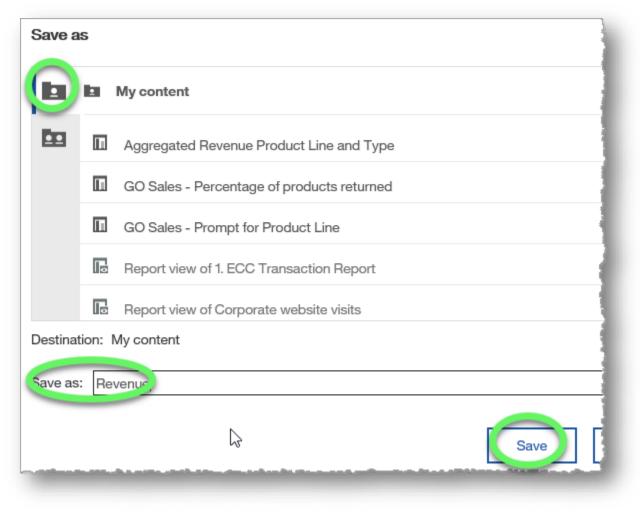
6. Expand the **Sales staff** data item in the Source pane and drag **City** to the right of the **Country** column, releasing the mouse when a solid black verticle line appears between the Country column and the first **Year** column.

	Ŧ				Double-click	to edit text		
Data items		Re	venue 🥂	2 111	2012	2013	2010	Sun
		Southern	Austria	\$ 9,343,686.48	\$28,348,967.66	\$21,981,766.43	\$13,866,004.52	-
		Europe	Spain	\$ 7,822,178.46	\$41,467,572.14	\$31,586,471.26	\$20,230,164.18	\$
Sales staff	~		Italy	31,113,988.15	\$45,622,153.53	\$33,788,864.66	\$22,227,856.92	\$
Sales region code			Summary	78,279,853.09	\$115,438,693.33	\$87,357,102.35	\$56,324,025.62	\$
Sales region		worthern	Sweden	\$22,770,212.11	\$28,629,690.81	\$23,089,905.72	\$17,780,084.81	
Country code		Europe	Netherlands	\$31,959,640.39	\$42,550,836.35	\$33,459,084.00	\$25,243,944.19	\$
City			Finland	\$35,485,794.15	\$45,967,540.48	\$35,396,299.54	\$27,206,118.41	\$
Branch code			Summary	\$90,215,646.65	\$117,148,067.64	\$91,945,289.26	\$70,230,147.41	\$
		Central	France	_ \$45,745,704,79	\$53 967 275 85	\$43 928 088 57	\$41,802,849,37	\$

7. The **City** column is now nested within the Country column.

	Revenu	ie 🖉	2010	2011	2012
Southern	Italy	<i>i</i> ilano	\$22,227,856.92	\$31,113,988.15	\$45,622,153.53
Europe	Austria	Wien	\$13,866,004.52	\$19,343,686.48	\$28,348,967.66
	Spain	Bilbao	\$20,230,164.18	\$27,822,178.46	\$41,467,572.14
	Summary		\$56,324,025.62	\$78,279,853.09	\$115,438,693.33
Northern Europe	Netherlan	s Amsterdam	\$25,243,944.19	\$31,959,640.39	\$42,550,836.35
	Sweden	Kista	\$17,780,084.81	\$22,770,212.11	\$28,629,690.81
	Finland	Kuopio	\$27,206,118.41	\$35,485,794.15	\$45,967,540.48
	Summary		\$70,230,147.41	\$90,215,646.65	\$117,148,067.64
Central	Switzerlan	Zürich		\$15,522,736.97	\$25,388,932.34
Europe		Genève	\$295,529,033.90	\$365,267,010.50	\$456,726,018.48
	United	London	\$22,729,066.18	\$29,929,640.16	\$36,573,360.12
	Kingdom	⊾'rmino' am	\$18,554,578.76	\$17,585,523.41	\$20,535,762.12

8. As always, click the **Save** button and save your new report in **My content**.



END OF PROCEDURE. You have successfully created a nesting crosstab report.

# **Using Comparative Calculations**

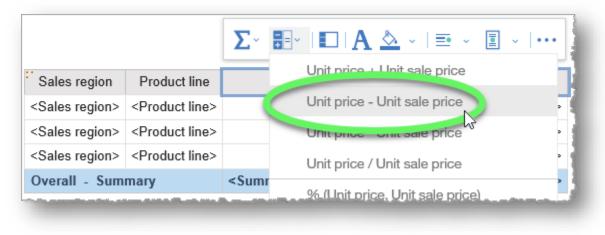
In this training example, we will create a report for product line unit sales amounts (unit price minus unit sale price) by sales region.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Sales region** (in the Sales staff data item), **Product line** (Products data item), and **Unit Price** and **Unit sale price** (Sales data item).

Source       Data items <ul> <li></li></ul>				New report	• •	۲	÷
<ul> <li>Inventory (query)</li> <li>Product forecast (query)</li> <li>Returned items (query)</li> <li>Sales (query)</li> <li>Sales</li> <li>Quantity</li> <li>Quantity</li> <li>Unit cost</li> <li>Unit price</li> <li>Sales region</li> <li>Product line</li> <li>Unit price</li> <li>Unit sale price</li> <li>Sales region</li> <li>Product line</li> <li>Unit price</li> <li>Unit sale price</li> <li>Sales region</li> <li>Product line</li> <li>Unit price</li> <li>Sales region</li> <li>Sales region</li> <li>Product line</li> <li>Unit price</li> <li>Unit sale price</li> <li>Sales region</li> <li>Sales region</li></ul>	Source Data items	+			Double-click to	edit text	
Sales       Sales region       Product line       Unit price       Unit sale price         Quantity <sales region=""> <product line=""> <unit price=""> <unit price="" sale="">         Unit cost       <sales region=""> <product line=""> <unit price=""> <unit price="" sale="">         Unit price       <sales region=""> <product line=""> <unit price=""> <unit price="" sale="">         Unit price       <sales region=""> <product line=""> <unit price=""> <unit price="" sale=""></unit></unit></product></sales></unit></unit></product></sales></unit></unit></product></sales></unit></unit></product></sales>	Inventory (query)         Product forecast (query)         Returned items (query)	^					
Quantity <sales region=""><product line=""><unit price=""><unit price="" sale="">Unit cost<sales region=""><product line=""><unit price=""><unit price="" sale="">Unit price<sales region=""><product line=""><unit price=""><sales region=""><product line=""><unit price=""><unit price="" sale=""></unit></unit></product></sales></unit></product></sales></unit></unit></product></sales></unit></unit></product></sales>	_		Sales region	Product line	Unit price	Unit s	ale price
Unit price		<	Sales region>	<product line=""></product>	<unit price=""></unit>	<	Unit sale price>
	Unit cost	<	Sales region>	<product line=""></product>	<unit price=""></unit>	<	Unit sale price>
Unit sale price Overall - Summary <summary(unit price)=""> <summary(unit price)="" sale=""></summary(unit></summary(unit>	🗓 Unit price	<	Sales region>	<product line=""></product>	<unit price=""></unit>	<	Unit sale price>
	Unit sale price	C	Overall - Sum	mary	<summary(unit price)=""></summary(unit>	<summary(u< td=""><td>nit sale price)&gt;</td></summary(u<>	nit sale price)>

- ₽₽~ Σ 🗖 | A 💩 🗸 -∎ ~ ... Sales region Product line Unit price Unit sale price <Sales region> <Product line> onit sale price> SUIIIL PHOSE <Sales region> <Product line> <Unit price> <Unit sale price> <Sales region> <Product line> <Unit price> <Unit sale price> **Overall - Summary** <Summary(Unit price)> <Summary(Unit sale price)>
- 2. Select the Unit price and Unit sale price headings (Ctrl + click), and click the Insert Calculation button to expand its options.

3. Choose Unit price - Unit sales price. (Alternatively, you could click Custom... and manually create this calculation, but Cognos Analytics saves you time by giving you possible options for inserting calculations based on your selections.)



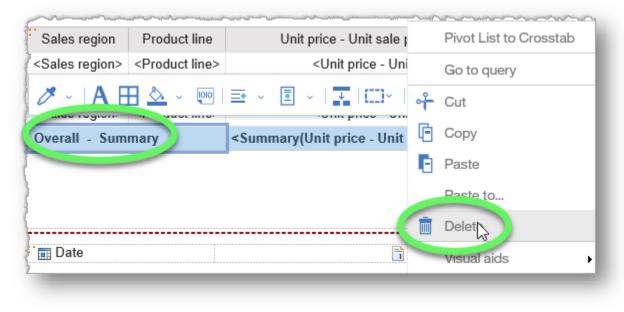
4. The calculated column is added to the report. Next we will delete some unnecessary columns.

ct line	Unit price	Unit sale price	Unit price - Unit sale price
ıct	<unit price=""></unit>	<unit price="" sale=""></unit>	<um -="" orm="" price="" proc="" sale=""></um>
ıct	<unit price=""></unit>	<unit price="" sale=""></unit>	<unit -="" price="" sale="" unit=""></unit>
ıct	<unit price=""></unit>	<unit price="" sale=""></unit>	<unit -="" price="" sale="" unit=""></unit>
	<summary(unit price)&gt;</summary(unit 	<summary(unit sale<br="">price)&gt;</summary(unit>	<summary(unit -="" price="" sale<br="" unit="">price)&gt;</summary(unit>

5. Select the **Unit price** and **Unit sale price** column headings (Ctrl + click) and then click the **More** button (ellipses icon) in the contextual toolbar, and choose **Delete** from the list of options. The new column will continue to calculate based on the data in unit price and unit sale price columns, but they do not have to display in the report.

	Σ- ≣- I⊡ IA	📐 - I 🗉 - 🔲 - 🧰	•	
n	Unit price	Unit sale price	Headers & footers >	sale price
	A lot price?	.com sale price	Build prompt page	Unit sale price>
	<unit price=""></unit>	<unit price<="" sale="" th=""><th>Cut</th><th>Unit sale price&gt;</th></unit>	Cut	Unit sale price>
	<unit price=""></unit>	<unit prior<="" sale="" th=""><th>Delete</th><th>Unit sale price&gt;</th></unit>	Delete	Unit sale price>
-	<summary(unit price)<="" th=""><th><summary(unit sa<="" th=""><th>visual aids</th><th>orice - Unit sale</th></summary(unit></th></summary(unit>	<summary(unit sa<="" th=""><th>visual aids</th><th>orice - Unit sale</th></summary(unit>	visual aids	orice - Unit sale

6. We will also remove the Summary row. Select the **Overall - Summary** column heading, click the **More** button (ellipses icon) in the contextual toolbar, and choose **Delete** from the list of options.



7. Switch to Page preview to more easily view the changes we make to the report in the upcoming steps.

<b>≊</b>		۵	2	?
Page design				
Page preview	>			
rage structure				

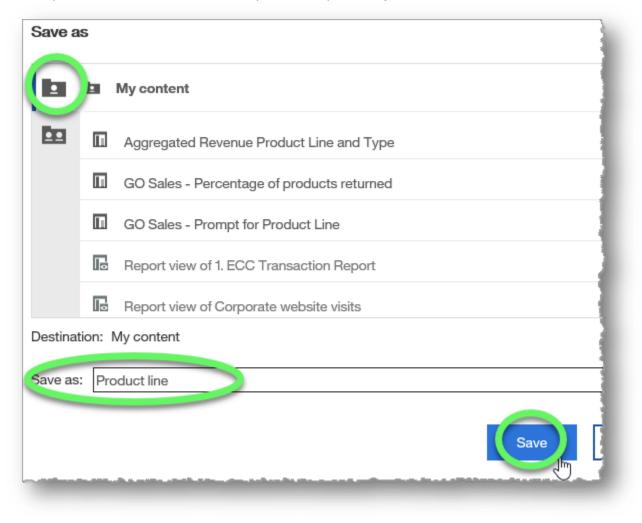
### 8. Select the Sales region column heading, expand the More (ellipses) button in the contextual toolbar, and select Pivot List to Crosstab.

Sales region	Product line	Unit price - Unit sale price		Edit Data Item Label
'Σ^ Et Σ	- 🗄 - I 🗖 - 🧷	- IA 🖽 💩 - I 🗉 -		Insert •
Central Europe	Mountaineering Equipment	\$5.09		Select +
Southern Europe	Personal Accessories	\$4.01		Apply table style
Northern Europe	Personal Accessories	\$4.27	-	Columns title style
Northern Europe	Golf Equipment	\$34.72		2
Southern Europe	Outdoor Protection	\$0.50		Columns body style
Americas	Personal Accessories	\$4.35		Headers & footers
Asia Pacific	Outdoor Protection	\$0.55		Build prompt page
Asia Pacific	Camping Equipment	\$9.34		Show Text
Northern Europe	Outdoor Protection	\$0.53		Show Text
Northern Europe	Mountaineering Equipment	\$5.15		Show Empty Cell
Southern Europe	Camping Equipment	\$9.12		Dril The Definitions
Southern Europe	Golf Equipment	\$33.66	6	Pivot List to Crosstab
Americas	Camping Equipment	\$9.22		I NOT LIST TO OIDSSTAD

9. The report displays the unit sales amount (unit price - unit sales price) by product line and region.

Unit price - Unit sale price	Americas	Asia Pacific	Northern Europe	Central Europe	Southern Europe
Personal Accessories	\$4.35	\$4.61	\$4.27	\$0.21	\$4.01
Camping Equipment	\$9.22	\$9.34	\$9.38	\$9.22	\$9.12
Outdoor Protection	\$0.49	\$0.55	\$0.53	\$0.54	\$0.50
Golf Equipment	\$33.66	\$34.06	\$34.72	\$33.46	\$33.66
Mountaineering Equipment	\$5.12	\$5.17	\$5.15	\$5.09	\$5.13

10. As always, click the **Save** button and save your new report in **My content**.



#### END OF PROCEDURE.

You have successfully used comparative calculations.

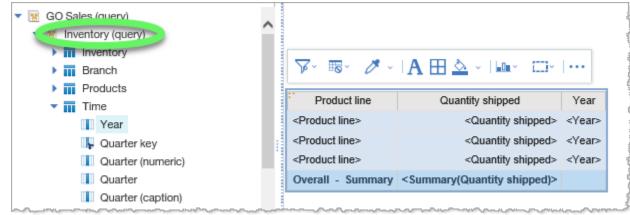
# **Creating a Chart Report**

Chart reports are used for trending and forecasting. These reports use summarized historical data to make calculated projections.

## Procedure

For the purposes of this training example, we will trend quantity shipped data by product line for 2010-2013 to determine supply needs for 2014.

1. Create a list report from the sample GO Sales (query): Inventory (query) data that includes **Product line** (in the Products data item), **Quantity shipped** (Inventory data item), and **Year** (Time data item).



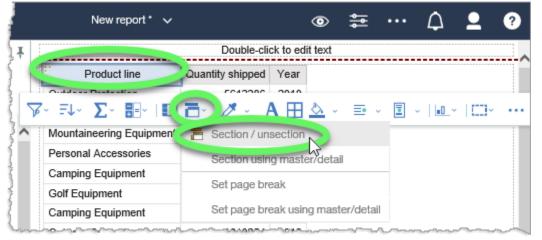
2. Switch to Page preview to more easily view the changes we make to the report in the upcoming steps.



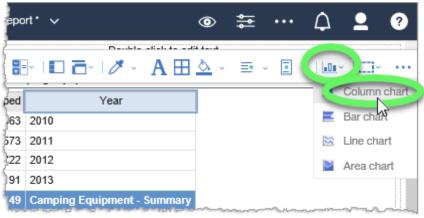
3. Sort the **Year** column in ascending order.

	New report * 🗸 🗸		۲	ţ	•••	$\Diamond$	<b>_</b>	?
Į į		Double-click	- <sup>rit</sup> text					
	Product line Q	uantity shipt id Ye	ar					
76		• I 🖉 • 🔥 A 🛛	- 🗠 🗄	<b>=</b> •	~ 🗉	~   <u>=0</u> ~	[]]~	•••
^	M Sortin I	2636032 20	11					
	21 Ascending	7565862 20	10					
	4	6872573 20	11					
	G	1092742 20	10					
	C 🔯 Don't sort	5889663 20	10					
	O Other Sort Options	1610254 20	12					
1	O Edit Layout Sorting	693456 20	13	_	_			

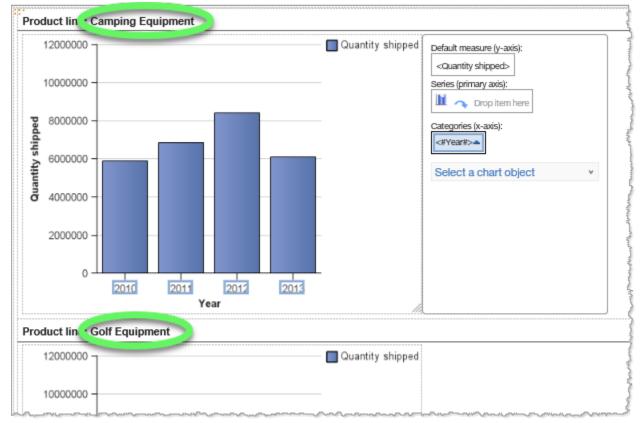
4. Select the **Product line** column heading, click to expand the **Section/Unsection** options and choose the **Section / unsection** link.



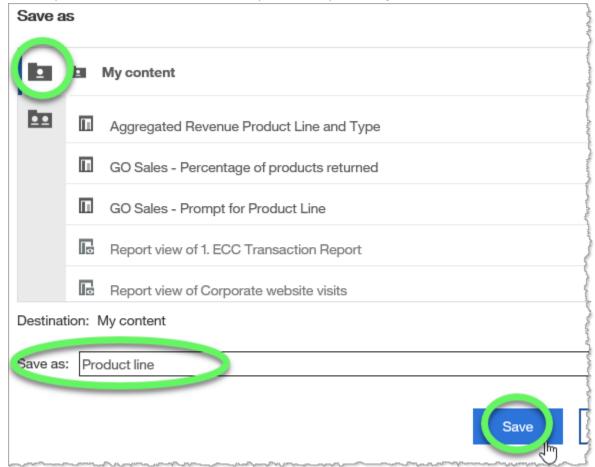
5. Select any item in the list to reveal the contextual toolbar, then click the **Change chart type** button to expand its options, and choose **Column chart**.



### 6. Charts are displayed for each Product line.



#### 7. As always, click the **Save** button and save your new report in **My content**.



### END OF PROCEDURE. You have successfully created a chart report.

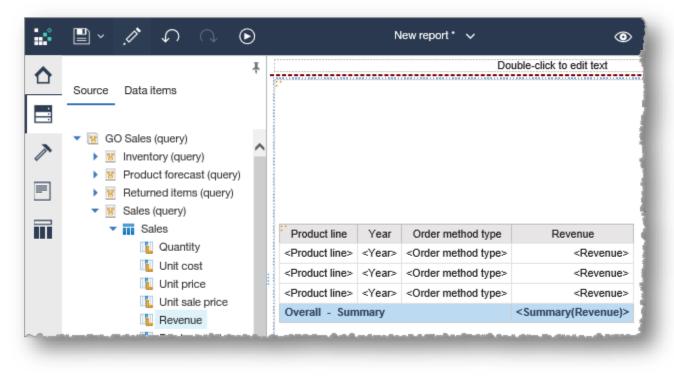
# **Sorting Charts**

Sorting charts assists with chart organization.

## Procedure

In this training example, we will sort an item within a chart.

1. Create a list report from the sample GO Sales (query): Sales (query) data that includes **Product line** (in the Products data item), **Year** (Time data item), **Order method type** (Order method data item), and **Revenue** (Sales data item).



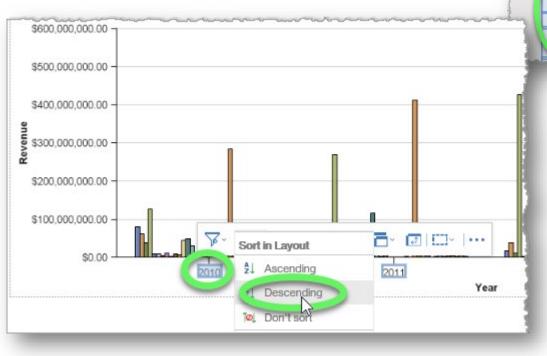
- 2. Switch to **Page preview** to more easily view the changes we make to the report in the upcoming steps.
- 3. Select the **Year** column heading, click the **More** (ellipses) button on the far right of the contextual toolbar, and select **Pivot List to Crosstab**.

New	report		0	*	···· 🗘 👤 🕐
		Double-click	to edit text		Edit Query Expression
Product line	Year	c der method type	Revenue		Edit Data Item Label
Persona' *		P-1	COD COD COC 00		
Outdoor 🔽 - ₹↓ - Σ-	=-~	🗖 🗗 🎝 🖓	· A 🖽 🖄 -	=	Insert
Personal Accessories	2010	Web	\$284,622,826.47		Select
Camping Equipment	2010	Fax	\$9,634,763.39		Apply table style
Camping Equipment	2011	Telephone	\$47,562,256.31		Columns title style
Personal Accessories	2011	Mail	\$1,719,745.82		
Mountaineering Equipment	2011	Web	\$65,855,489.46		Columns body style
Outdoor Protection	2011	Web	\$16,479,270.80		Headers & footers
Golf Equipment	2012	Web	\$203,385,896.61		Build prompt page
Personal Accessories	2012	Telephone	\$5,979,547.46		Show Text
Mountaineering Equipment	2012	Sales visit	\$14,798,621.63		SHOW TEXL
Golf Equipment	2013	Sales visit	\$8,912,340.24		Show Empty Cell
Personal Accessories	2013	Fax	\$886,679.75		Drill-Through Definitions
Camping Equipment	2012	Special	\$332,095.44		Pivot List to Crosstab
Outdoor Protection	2013	Fax	\$22,614.84		1
Mountaineering Equipment	2013	Special	\$318,175.50		to query 40



**Cognos Analytics Basics** 

- 4. Select the **Order method type** column in the list report to reveal the contextual toolbar, click the **Cha**rt button to expand its contents, and choose **Column chart**.
- 5. Select a Year in the Categories axis, click the **Sort** button to expand its options, and click **Descending**.



mping	Sales visit	\$80,467,596.88 \$62,069,990.87	\$47,562,256.31 \$43,352,874.97	\$17,715,451.40 \$37,660,178.39	\$8,149 \$25,528		olumn ch ar chart
í	E-mail	\$39,124,634.73	\$21,291,005.31	\$10,612,304.02	\$4,871		ne chart
	Web	125,829,519.92	\$270,463,415.88	\$426,353,675.75	\$311,192		
	Mail	\$10,015,621.15	\$8,846,759.96	\$2,482,266.26	\$3,	330.12	ea char 24
	7X	\$9,634,763.39	\$6,228,274.27	\$5,226,451.57	\$1,964,	909.25	\$2

