
Creating Crosstab Reports

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Crosstab Reports

Crosstab reports are useful for comparative analysis because they summarize data and display the results in a two-dimensional grid.

Similar to list reports, Crosstab reports show data in columns and rows. However, the values at the intersection of rows and columns show summarized information rather than detailed information.

Crosstabs must include at least three query items: one on rows, one on columns, and one to serve as a measure or performance indicator defining what the data represents. In a crosstab report, data can be nested to compare information using more than one query item in a column or in a row.

Converting a List Report into a Crosstab

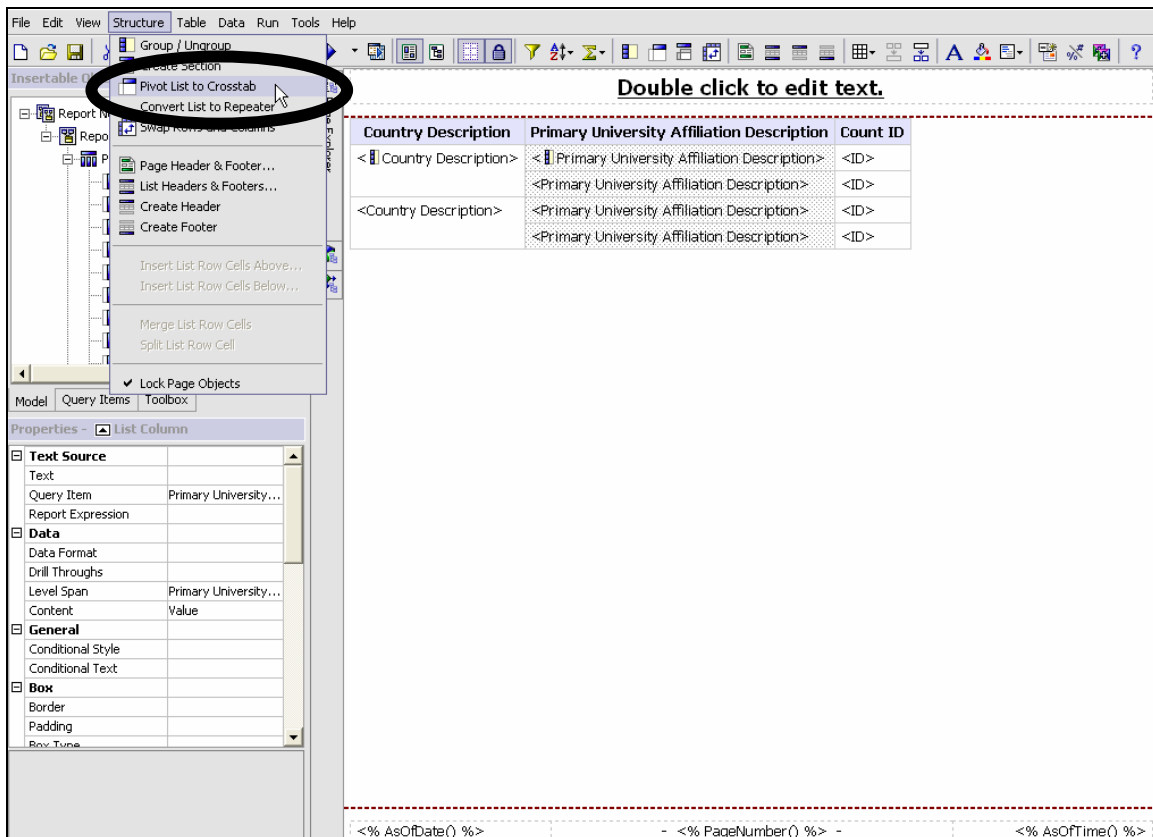
GOAL: Create a simple list report and convert it to a crosstab report.

STEPS:

1. Open the **Count ID Summary** report.
2. Run the report.
3. Close the **Report Viewer**.
4. Highlight the column **Primary University Affiliation Description**.

Note: Converting a list report to a crosstab is accomplished by selecting the column(s) that you want to be the column(s) in the crosstab.

5. From menu bar select **Structure>Pivot List to Crosstab**.

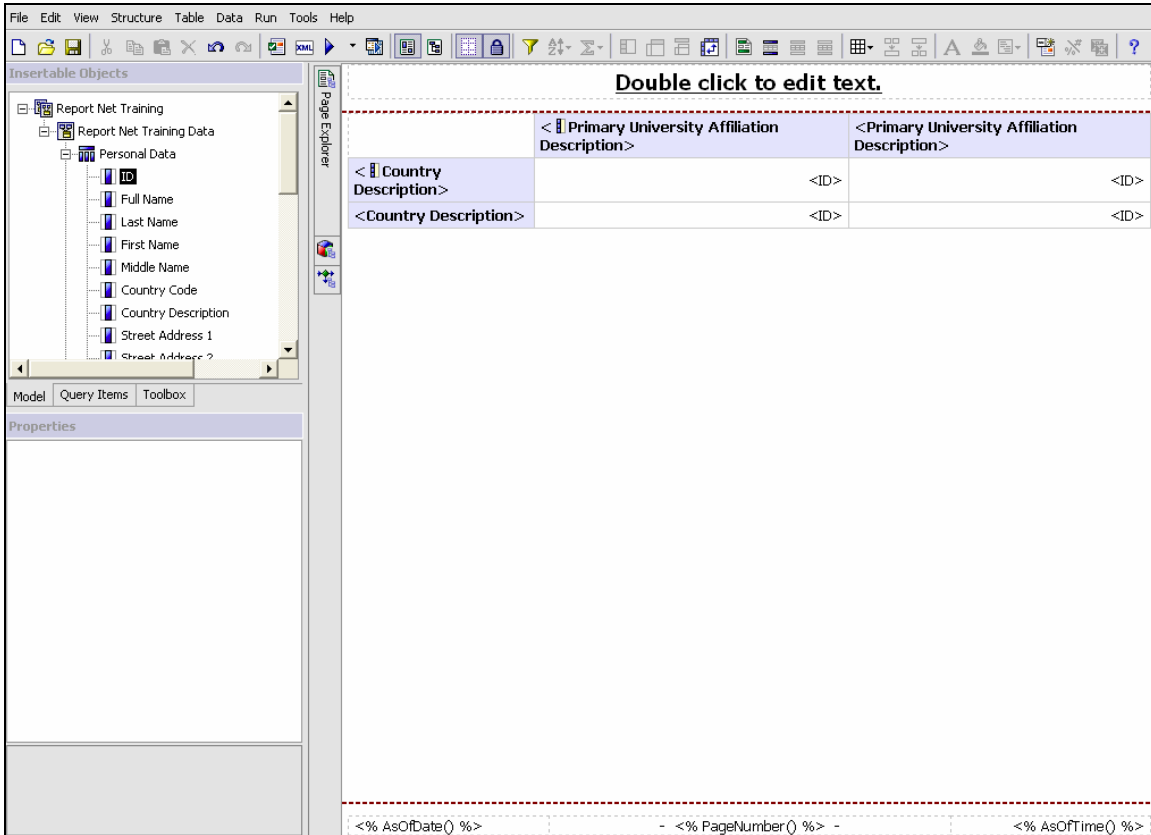


The screenshot shows the ReportNet-Report Studio interface. The 'Structure' menu is open, and 'Pivot List to Crosstab' is highlighted with a black circle. The main window displays a crosstab report with the following data:

Country Description	Primary University Affiliation Description	Count ID
<Country Description>	<Primary University Affiliation Description>	<ID>
<Country Description>	<Primary University Affiliation Description>	<ID>
<Country Description>	<Primary University Affiliation Description>	<ID>

The Properties - List Column panel is visible at the bottom left, showing fields like Text Source, Data, General, and Box. The footer of the report contains the text: <% AsOfDate() %> - <% PageNumber() %> - <% AsOfTime() %>

6. The report layout has changed from a list report to a crosstab with Primary University Affiliation Description as the columns, Country Description as the rows, and ID as the measure.



7. **Sort Ascending** on Country Description.

8. **Run** the report.

	Employee	Miscellaneous	Student
Australia			1
Austria			1
Belgium			1
Bulgaria			1
Canada	5	18	9
Costa Rica	1		
Germany	1	1	
Hong Kong	1	1	1
India			1
Israel	1	1	
Jamaica			1
Japan			1
Korea, Republic of	2		3
Kuwait			1
Malaysia	1	1	
Mauritius			1
Mexico			1
Morocco			1
New Zealand			1

9. **Close** the Report Viewer.

10. **Save As: Crosstab.**

EXERCISE:

- Create the same report by clicking **New** and selecting **Crosstab**.
- Drag the appropriate columns to the rows, columns and measures.
- Sort Ascending on the column.
- Select ID in the measures area and in the Properties window, under Data Item, change Aggregate Function to Count

Nested Crosstabs

GOAL: Nest data in a crosstab report to compare information using more than one query item in a column or row.

STEPS:

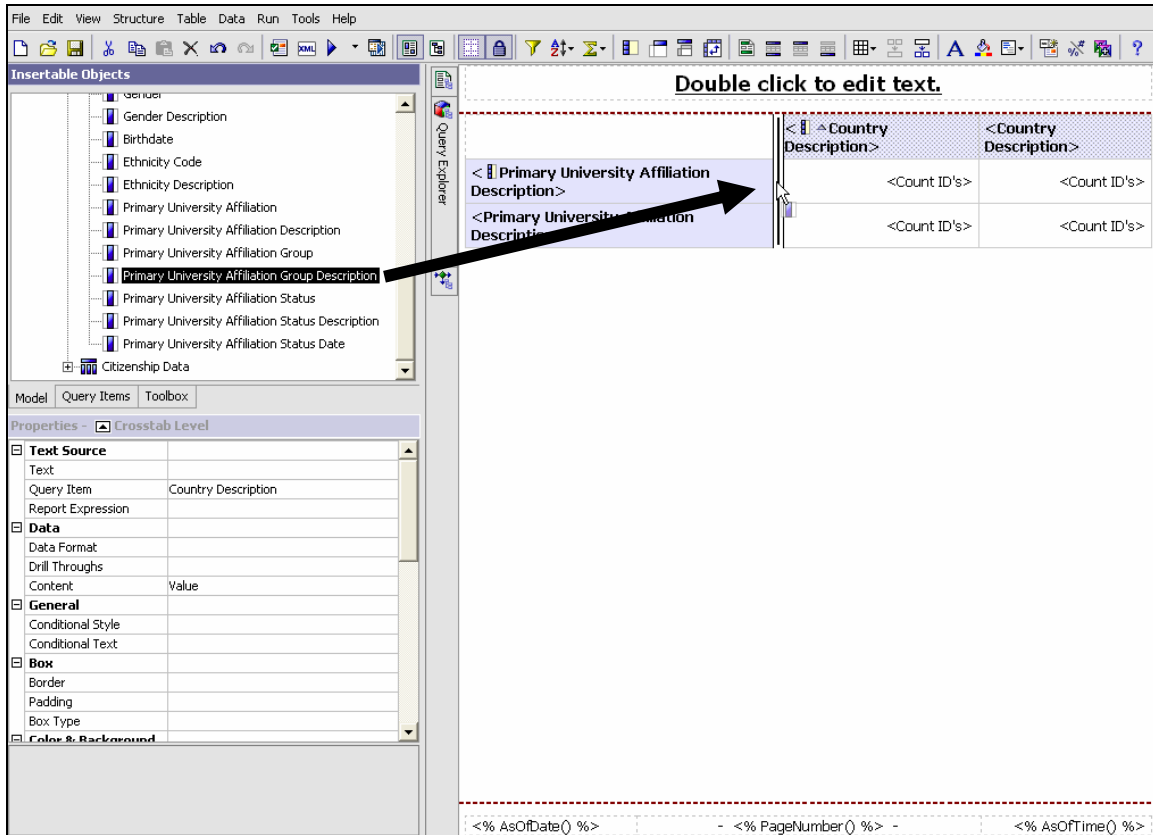
1. Use the **Crosstab** report.
2. Click the **Swap Rows and Columns** icon.

Double click to edit text.

	<Country Description>	<Country Description>
<Primary University Affiliation Description>	<Count ID's>	<Count ID's>
<Primary University Affiliation Description>	<Count ID's>	<Count ID's>

<% AsOfDate() %> - <% PageNumber() %> - <% AsOfTime() %>

2. From the **Model** tab in the Insertable Objects window, click and drag **Primary University Affiliation Group Description** to the drop zone after the **Primary University Affiliation Description** item and release the mouse click.



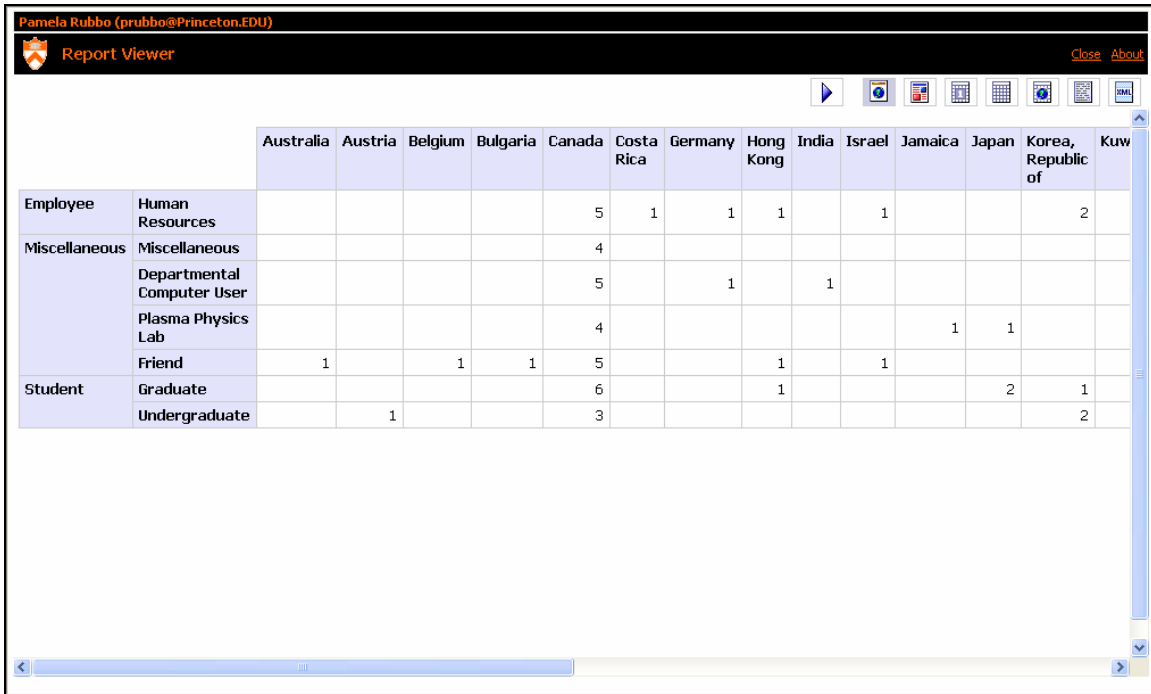
3. The columns are nested.

Double click to edit text.

		< Country Description >	< Country Description >
< Primary University Affiliation Description >	< Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
<Primary University Affiliation Description >	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>

<% AsOfDate() %> - <% PageNumber() %> - <% AsOfTime() %>

4. **Run** the report. Scroll to the right to see all the countries.



The screenshot shows a 'Report Viewer' window with a title bar containing 'Pamela Rubbo (prubbo@Princeton.EDU)' and 'Report Viewer'. The report is a crosstab with the following data:

		Australia	Austria	Belgium	Bulgaria	Canada	Costa Rica	Germany	Hong Kong	India	Israel	Jamaica	Japan	Korea, Republic of	Kuw
Employee	Human Resources					5	1	1	1		1			2	
Miscellaneous	Miscellaneous					4									
	Departmental Computer User					5		1		1					
	Plasma Physics Lab					4						1	1		
	Friend	1		1	1	5			1		1				
Student	Graduate					6			1				2	1	
	Undergraduate		1			3								2	


5. **Close** the Report Viewer.

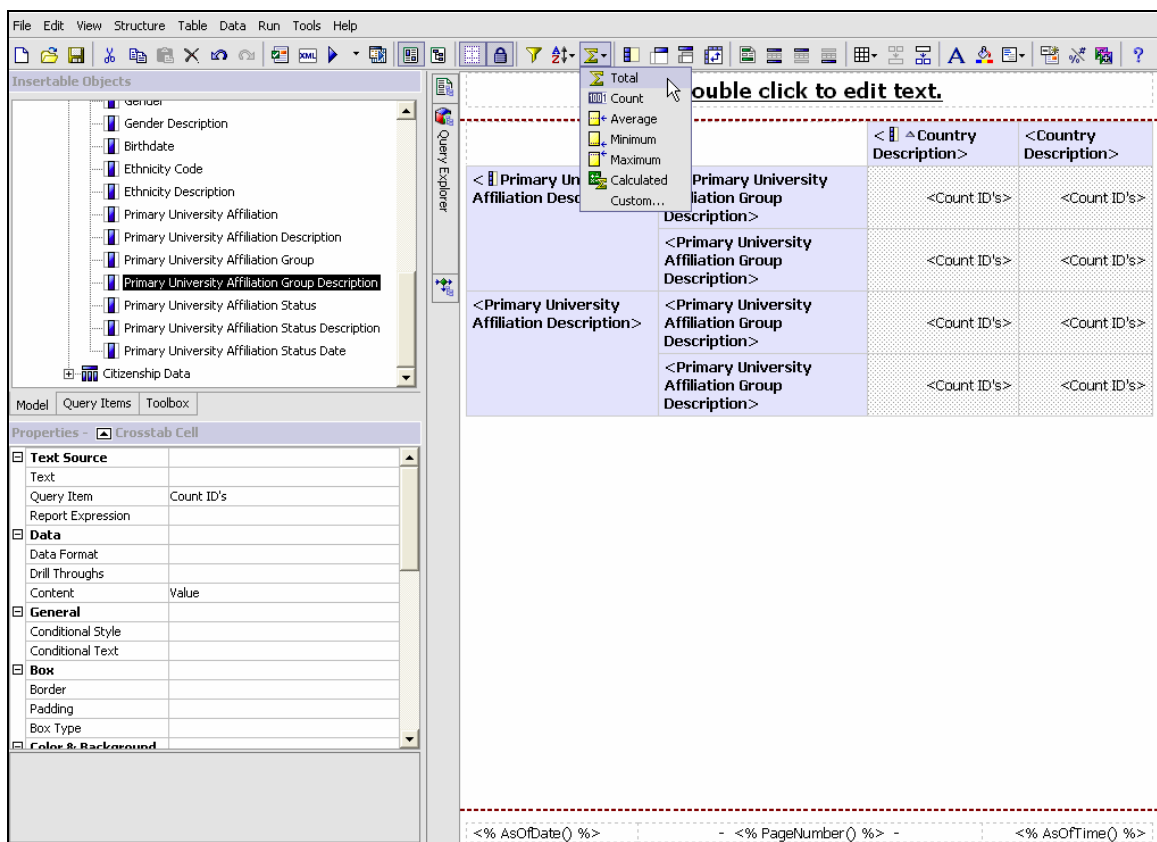
6. **Save As: Nested Crosstab.**

Crosstabs with Totals

GOAL: Add totals to the crosstab report.

STEPS:

1. Use the **Nested Crosstab** report.
2. Highlight the **measure** in the crosstab report.
3. Click the down arrow on the **Aggregate** icon  and select **Total**.



The screenshot shows a software interface with a menu open over the 'Aggregate' icon. The menu options are: Total, Count, Average, Minimum, Maximum, and Calculated Custom... The main window displays a crosstab report with the following structure:

		< ^ Country Description >	< Country Description >
< Primary University Affiliation Description >	Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
< Primary University Affiliation Description >	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
< Primary University Affiliation Description >	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>
< Primary University Affiliation Description >	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>

The interface also includes a 'Properties - Crosstab Cell' panel on the left with sections for Text Source, Data, General, Box, and Color & Background. The bottom of the window shows a footer with the text: <% AsOfDate() %> - <% PageNumber() %> - <% AsOfTime() %>

4. Totals are added to the report.

The screenshot shows the ReportNet-Report Studio v1.1 interface. On the left, the 'Insertable Objects' pane lists various data fields, with 'Primary University Affiliation Group Description' selected. Below it, the 'Properties - Crosstab Cell' pane shows settings for 'Text Source', 'Data', 'General', 'Box', and 'Color & Background'. The main workspace displays a report design with a table and a footer.

Table Data:

Double click to edit text.				
		< ^ Country Description >	<Country Description>	Country Description
< Primary University Affiliation Description >	< Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>	<Count ID's>
	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>	<Count ID's>
	<Primary University Affiliation Description >	<Count ID's>	<Count ID's>	<Count ID's>
<Primary University Affiliation Description >	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>	<Count ID's>
	<Primary University Affiliation Group Description >	<Count ID's>	<Count ID's>	<Count ID's>
	<Primary University Affiliation Description >	<Count ID's>	<Count ID's>	<Count ID's>
Primary University Affiliation Description		<Count ID's>	<Count ID's>	<Count ID's>

Footer: <% AsOfDate() %> - <% PageNumber() %> - <% AsOfTime() %>

5. **Run** the report.

		Australia	Austria	Belgium	Bulgaria	Canada	Costa Rica	Germany	Hong Kong	India	Israel	Jamaica	Japan	Korea, Republic of	Kuwait
Employee	Human Resources					5	1	1	1		1			2	
	Employee					5	1	1	1		1			2	
Miscellaneous	Miscellaneous					4									
	Departmental Computer User					5		1		1					
	Plasma Physics Lab					4						1	1		
	Friend	1		1	1	5			1		1				
	Miscellaneous	1		1	1	18		1	1	1	1	1	1		
Student	Graduate					6			1				2		1
	Undergraduate		1			3									2
	Student		1			9			1				2		3
Primary University Affiliation Description		1	1	1	1	32	1	2	3	1	2	1	3		5

6. **Close** the Report Viewer.

7. Click **Save**.
