

# Data Surfing With BrioQuery - Exercise 7

## PIVOT REPORTS AND CHARTS

In this exercise, we will create a Pivot report that counts categories in a cross tab format. From the Pivot we will create a chart.


### Tool Objectives

1. Insert a new Pivot Report section and turn on the Outliner Box.
2. Change an ID field into a Count of Ids in the Pivot Report.
3. Create counts by groups such as Gender or Degree with top or side labels in the Pivot Report.
4. Change label names in the Pivot.
5. Duplicate and rename a Pivot.
6. Create a bar or pie chart from a Pivot.
7. Edit the Titles on the chart to make it pretty.

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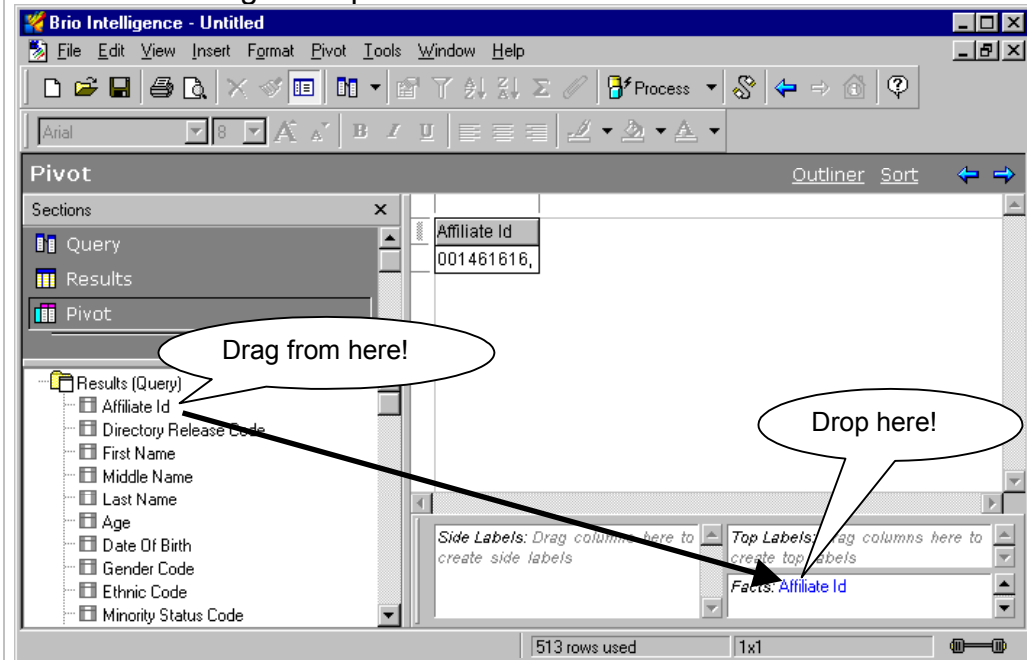
## COOKBOOK

<i>What You Do</i>	<i>Comments/Questions</i>
1. Start up TRAINING Query	
2. Logon to the TRAINING database and open the Table Catalog.	(train1, training, training)
3. Double click on the TDB_STUDENT_CURRENTLY_ENROLLED table in the table list.	Double clicking on a table is a shortcut way to drag it to the workspace! You can make it bigger if you want to see it better.

<p>5. Right click on the <b>Title</b> of the TDB_STUDENT_CURRENTLY_ENROLLED table, then left click Add Selected Items.</p>		<p>This will add all the data elements to the Request Line. If you by accident click twice on the Title, just click Cancel to exit from the Modify Topic box.</p>
<p>6. Click <b>Process</b>.</p>		<p>Save it first if you want to. Eyeball the data when it comes back. Do you have 513 records? _____</p>
<p>7. On the Menu Bar, click <b>Insert</b> and click <b>New Pivot</b></p>		<p>A new icon will appear in the Sections frame.</p>  <p>The screenshot shows a window titled 'Pivot' with a 'Sections' list. The list contains three items: 'Query' (with a document icon), 'Results' (with a grid icon), and 'Pivot' (with a pivot table icon). The 'Pivot' item is currently selected and highlighted.</p>
<p>8. Click several times on the Outliner link on top of the Pivot building workspace and leave it with the Outliner box showing.</p>		<p>See how this link functions as an on/off toggle. Leave the Outliner ON so you can see the box Side Labels, Top Labels, and Facts boxes below the Pivot building workspace.</p>

9. Drag Affiliate ID from the Results frame (bottom left) into the Outliner Fact box.

A cell that contains all the Affiliate ID's will pop up with a title above it in the Pivot building workspace.



10. Highlight the CELL with the Affiliate ID's in it, then Right click and left click on Data Function, then Count.

Don't highlight the title where it says Affiliate ID... you must highlight the actual Cell that has the ID's in it.

What happened?

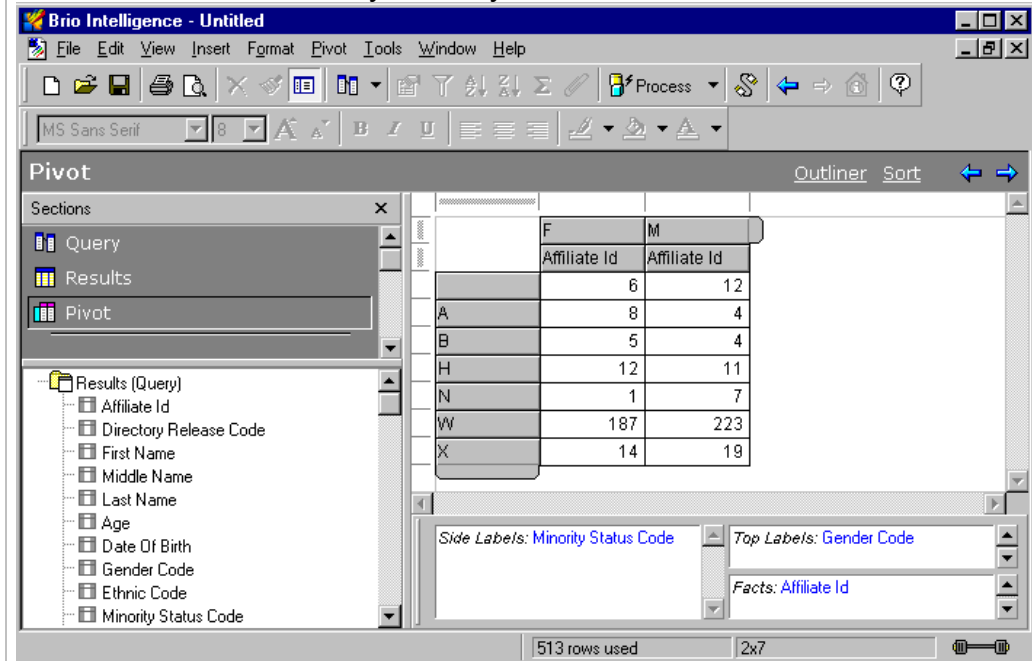
\_\_\_\_\_ (should see a count of ID's – 513)

11. Now drag the Gender Code from the Results Frame to the Top Labels box in the Outliner

Counts are now shown by Gender across the top.

12. Drag the Minority Status Code into the Side Labels box in the Outliners.

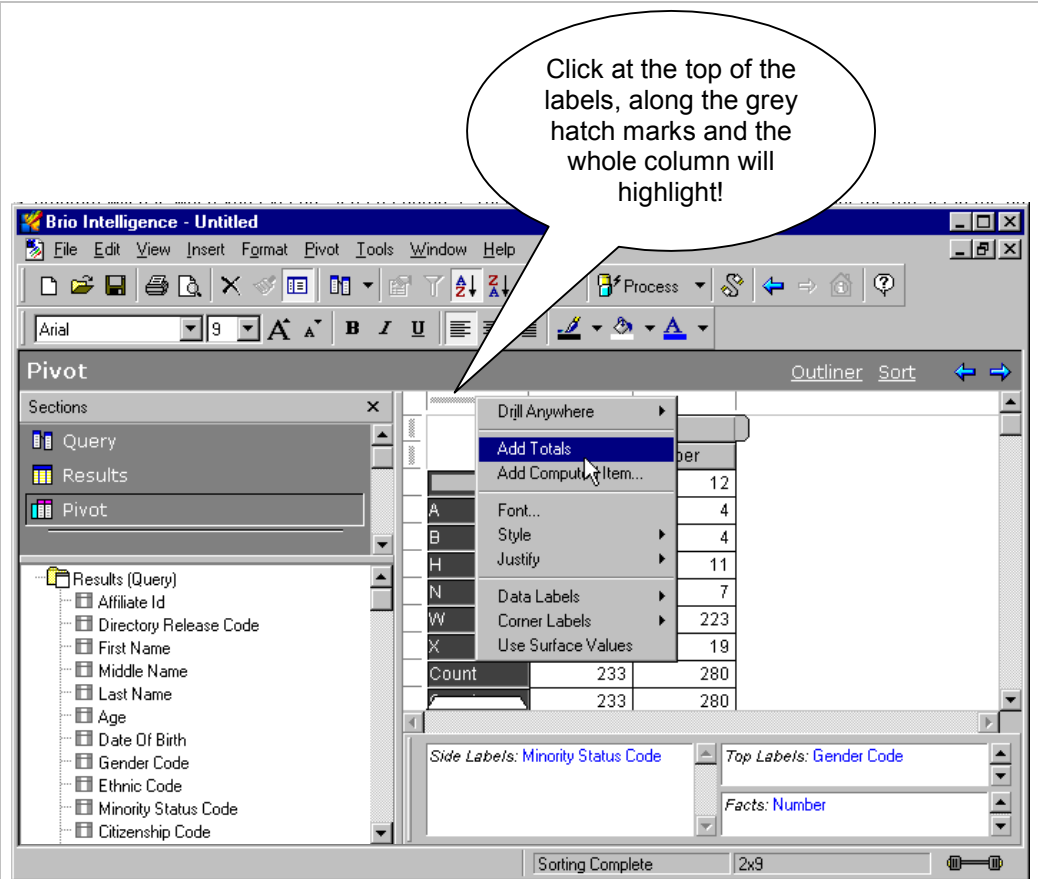
Counts are now shown by Minority Status down the side.



13. Double click the Affiliate ID title just above the number 6 in the Pivot and type in "Number" and click ok.

Any title in the Pivot can be edited to have a more meaningful title. The edits will remain each time you rerun the query.

14. Highlight the Minority Status labels in the pivot by clicking in the grey bar area at the top. Right click and left click to Add Totals.



15. Highlight the Gender labels and right click, left click to Add Totals.

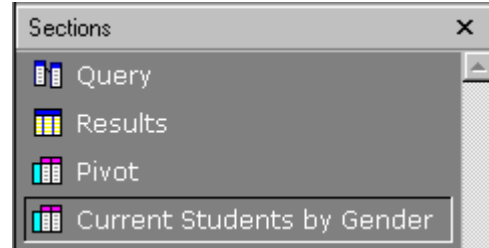
To remove a total if you goof... just highlight the Count label and hit delete on the keyboard (or Right Click/Remove).

16. Right Click on the Pivot in the Sections frame and Left click Duplicate Section.

Another Pivot section will appear in the Sections frame called Pivot2

17. Right Click on Pivot2 and left click Rename Section.  
Rename it "Current Students by Gender".

It will look like this then:

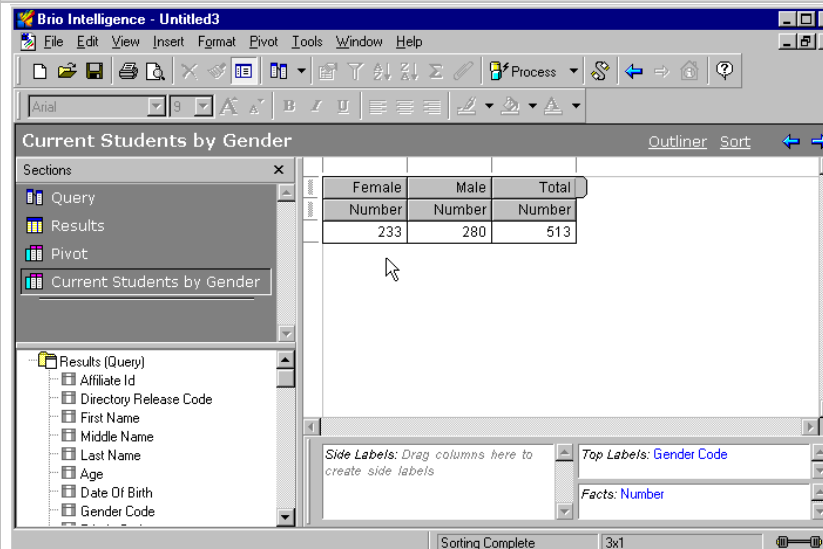


Notice the same data elements are in the Outliner Boxes. Duplicating a Section is a great way to save yourself some time. Sometimes its easier to start with a Pivot you have already built and then change it a bit.

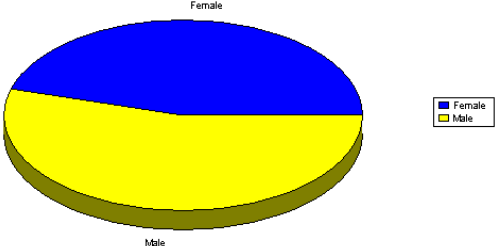
18. Click on Minority Status Code in the Side Labels box and hit Delete on the Keyboard to remove it.

(Or use the Right Click/Remove shortcut.)

19. Double click the F and M Titles to "Female" and "Male" as shown.



You can also click Format on the Menu Bar and click Justify/Right to make the titles right justified if you prefer.

20. Click Insert on the Menu Bar and click Chart this Pivot.		By default a bar chart comes up.
21. On the Menu Bar click Format, Chart Type, Pie		
22. Click the Move button when it asks you to Move the top labels or remove them.		<p style="text-align: center;">Fall 2002 Current Students by Gender</p>  <p style="text-align: right;">A pie appears!</p>
23. Double click the generic titles and make them read Fall 2002 and Current Students by Gender		See above!
24. Click on one of the pie slices, right click and choose Show Pie values.		Do you also see where to turn on percentages?
25. Click on the outside edge of the chart to highlight the whole thing. Right click and choose Properties. Make the pie a 2D pie.		Check out all the other options under the properties tabs too.
26. Save this query and the Pivot and Chart will be saved also.		

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## ON YOUR OWN

1. See if you can create a Pivot that looks like this from the query you had above. Insert a New Pivot and create the layout below:

	Business	Liberal Arts	Total
	Number	Number	Number
Freshman	21	116	137
Sophomore	26	51	77
Junior	64	43	107
Senior	55	46	101
Total	166	256	422

2. Make a bar chart for this data that looks like this.

