

Data Surfing With BrioQuery - Exercise 2

BUILDING A QUERY, GETTING RESULTS

In this exercise you will build a query (or a question), send the query to the database, and get the results (or answer) back from your query. You will be asking for data about currently enrolled students at the university.

Tool Objectives – this is what you will learn as you go through the “Cookbook” section that follows.

1. Move a table to the query building workspace.
3. Put data elements on the Request Line and take them off.
4. Save a query.
5. Process a query.
6. Determine how many records were retrieved.
7. Change from the Results Section to the Query Section and back.
8. Resize and move the Results columns around.

Data Objectives

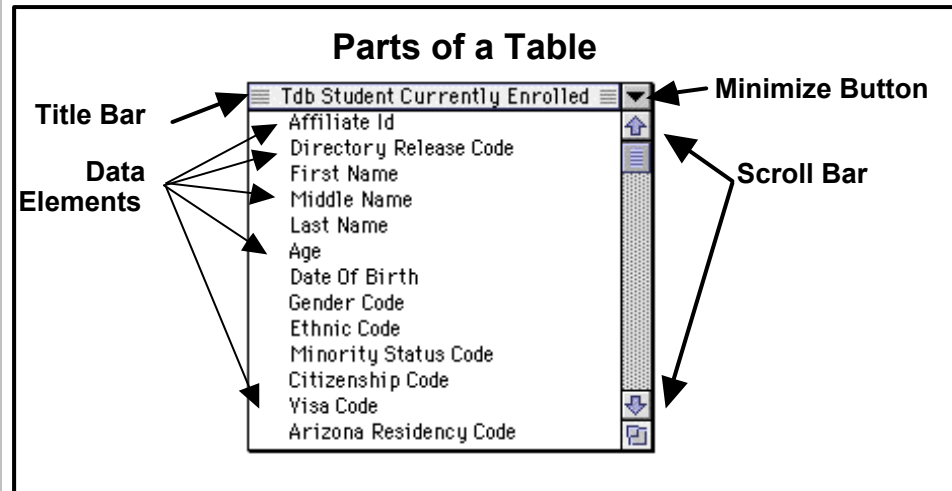
1. Determine the College codes for Liberal Arts and Business Administration by "eyeballing" the student data.
2. Determine how many students attend the university this semester.
3. Predict the type of data that will be found in a table based on the name of the table.

COOKBOOK

<i>What You Do</i>	<i>Comments/Questions</i>
1. With the TRAINING database tables visible, hold and drag the TDB_STUDENT_CURRENTLY_ENROLLED table to the right and drop it in the query workspace.	The title of the table indicates what type of data you will find in it. For example the TDB_STUDENT_CURRENTLY_ENROLLED table contains information about students who are currently enrolled at the university. Can you guess which table has student addresses in it?

2. Make the TDB_STUDENT_CURRENTLY_ENROLLED table wider so you can see the data element names.

When you drop the table on the blank workspace, a box will appear. The top, title bar, says the name of the table. Each line below the title bar is a data element in the table. If you think of it like a spreadsheet, these names are the titles of the columns in the spreadsheet.



3. On the TDB_STUDENT_CURRENTLY_ENROLLED table, click the down and up arrows on the **Scroll Bar** to see all the data elements.

The first data element in this table is Affiliate ID. It is a number that uniquely identifies a student (like ASUID or SSN).

What is the last data element in this table?

4. Click, hold, and drag **Affiliate ID** from the TDB_STUDENT_CURRENTLY_ENROLLED table and drop it to the right of the word **Request** on the Request Line.

Scroll to the top of the table if you don't see Affiliate ID.

<p>5. Click, hold, and drag First Name from the TDB_STUDENT_CURRENTLY_ENROLLED table and drop it to the right of Affiliate ID on the Request Line.</p>		
<p>6. Place Last Name, College or Division Code, Degree Code, and Major Code on the Request Line also.</p>		<p>We have built a simple query that asks the server to send us the Affiliate ID, First Name, Last Name, College, Degree and Major for all the students who are currently enrolled at the university.</p>
<p>7. Click File on the Menu Bar.</p>		<p>To display the drop down menu.</p>
<p>8. Click Save.</p>		<p>Before sending the query to the server, it is a good idea to save it so if something goes wrong, you don't have to rebuild it.</p>
<p>9. Place the floppy disk provided in the floppy drive. Choose the A: Drive to save to. Name your query totstu1 and click Save</p>		<p>You don't have to type the .bqy extension, which indicates it is a BrioQuery. The software will add the extension for you.</p>

10. Watch the Status Bar at the bottom to see what the server does as you click the **Process** button on the Tool Bar (above the Request Line).

Clicking the **Process** button sends the query to the server. While the server is reading your question and gathering data, the Status Bar will say **Waiting for Server**. When records are being sent to you, it will say **Receiving Records**. When the records have been received, the results will appear in columns in the Results Window and the Status Bar will indicate how many records were received.

The screenshot shows the Brio Intelligence interface. The main window displays a table with the following columns: Affiliate Id, First Name, Last Name, College Or Division Code, Degree Code, and Major Code. The table contains 19 rows of data. The status bar at the bottom of the window shows '513 of 513 Rows' and the date '06/25/02 16:22:39'. An arrow points to the '513 of 513 Rows' text in the status bar.

	Affiliate Id	First Name	Last Name	College Or Division Code	Degree Code	Major Code
1	001461616	MICHAEL	LOPATIN	BA	31	0520
2	002388121	ROBERT	PARKER	BA	31	0520
3	002525358	DANIEL	CONNOLLY	LA	21	1501
4	003444428	NICOLE	HARWOOD	LA	04	0000
5	003488312	SHARON	SANTO	LA	01	0000
6	003542388	JOHN	MOULTON	BA	31	0520
7	004605887	LAURIE-ANN	DINGLE	LA	21	1501
8	004707151	HEATHER	PAUL	BA	31	0502
9	004725487	VIRGINIA	STACEY	BA	31	0520
10	004728392	SHANA	JURDI	BA	31	0505
11	004742644	LISA	SHEA	LA	02	0000
12	004742789	KATHLEEN	DIXON	BA	61	0502
13	004743329	KEITH	HALLETT	LA	01	0000
14	004746513	STACEY	SABUROVA	LA	02	0000
15	004747626	SALVATORE	MOON	BA	31	0509
16	008601537	DAVID	MAGUIRE	LA	21	2001
17	008602080	GREGORY	FARNUM	BA	31	0520
18	008606400	MARIA	TRAUSTADOTTIR	LA	21	2001
19	008606930	GREGORY	ROBERTSON	LA	21	2001

Number of Records Retrieved

<p>11. Use the Scroll Bar arrows on the right side of the Results Window to scroll up and down the data.</p>	<p>Notice there are no duplicate Affiliate ID's. This table has one record for each student.</p> <p>Look at the values in the College or Division column. What is the College Code for Liberal Arts? _____ for Business Administration? _____</p> <p>Notice that the codes for degrees and majors are numbers. Degrees are a two-digit number, majors four digits.</p> <p>How many students are currently enrolled at the university (how many records were received)? _____</p>																					
<p>12. Click on the Affiliate ID column in the Results Section to highlight the column.</p>	<p>Clicking on the column will highlight all the data in the column.</p>																					
<p>13. Move the cursor to the edge of the Affiliate ID column. When it changes to a double pointed arrow, click, hold and drag the Affiliate ID column so it narrows.</p>	<p>You can change the width of any column by highlighting and dragging.</p>																					
<p>14. Click on the Outliner Link at the top right. This opens a box that lists all the Results columns.</p>	<div style="border: 1px solid gray; padding: 5px;"> <div style="text-align: right;">Limits(0) Sort(0) Outliner</div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;">First Name , Last Name , College Or Division Code , Degree Code , Major Code , Affiliate Id</div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th></th> <th>First Name</th> <th>Last Name</th> <th>College Or Division Code</th> <th>Degree Code</th> <th>Major Code</th> <th>Affiliate Id</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MICHAEL</td> <td>LOPATIN</td> <td>BA</td> <td>31</td> <td>0520</td> <td>001461616</td> </tr> <tr> <td>2</td> <td>ROBERT</td> <td>PARKER</td> <td>BA</td> <td>31</td> <td>0520</td> <td>002388121</td> </tr> </tbody> </table> </div>		First Name	Last Name	College Or Division Code	Degree Code	Major Code	Affiliate Id	1	MICHAEL	LOPATIN	BA	31	0520	001461616	2	ROBERT	PARKER	BA	31	0520	002388121
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15. In the Outliner Box, click hold and drag Affiliate ID to the end of the list.		Notice the columns change position. What happens if you highlight the actual column and then try to drag it to the left? (The column itself... not the field in the Outliner)? _____
16. Click on the Query icon in the Sections frame at the top left of the query building workspace.		The Query icon takes you back to the Query Section. You will use the Query and Results icons in the Section frame often to go back and forth from your query to your results!
17. Click Degree on the Request Line to highlight it, then Right Click and Click Remove . Click the Remove button in the box that asks you if you are sure.		Degree will disappear from the Request Line.
18. Remove Major from the Request line also.		
19. Add Gender, Academic Level Code, Enrolled Hours and Cumulative GPA to the Request Line.		See if you can find a Right Click shortcut for getting these data elements up on the Request Line. Did you find one? _____ Cumulative GPA is the last data element in the table so you will have to scroll down to it before you can drag it to the request line.
20. Use the Scroll bar that pops up on the right side of the Request Line to scroll the Request Line. See that all the data elements are on the line.		The Request Line should have Affiliate ID, Last Name, First Name, College or Division Code, Gender, Academic Level Code, Enrolled Hours, and Cumulative GPA on it.

21. Click File on the Menu Bar.		
22. Click Save and save on your floppy at totstu1.bqy		Be safe and always save before processing
23. Click Process .		What is Robert Parker's Cumulative GPA? _____

ON YOUR OWN

1. Change the query to bring back the following data elements with columns in this order in the Results:

Affiliate ID
 Last Name
 First Name
 Ethnic Code
 Minority Status Code
 Citizenship Code

2. Save the query as **totstu2** before you Process.
3. Exit BrioQuery.
4. Review the objectives covered on your crib sheet. Jot down a short note for each objective to remember how to do each task.