Making Excel Work for You: Transform Your Data Quickly using Excel for Report Generation

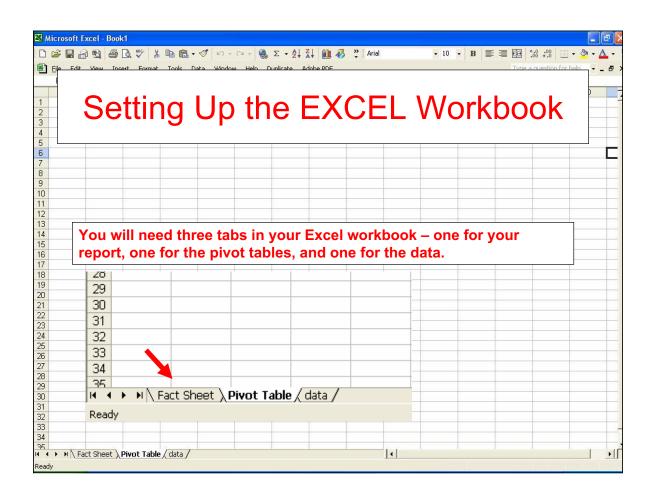
Karen J. Price
Sandra D. Nicks
Belmont Abbey College

Using Excel Pivot Tables to Generate Reports

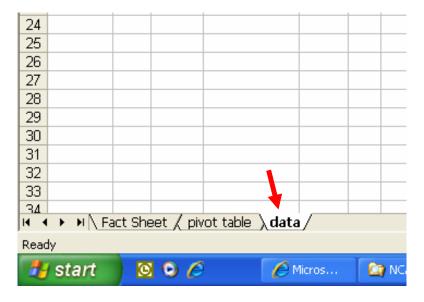
- The IR Office at Belmont Abbey College uses Excel Pivot Tables to automatically update reports.
- Type of Reports
 - Fact Sheet
 - Fact Book
 - All Annual Survey Reports

Pros & Cons

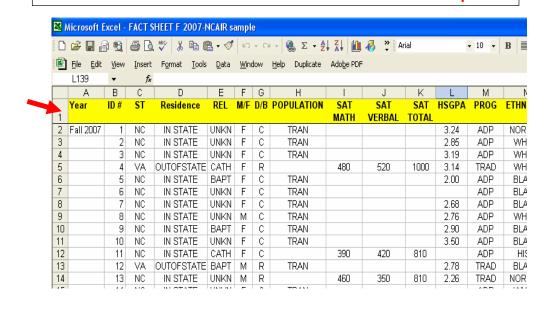
- Con. Requires a lot of up-front time to set up pivot tables and the links to the reports.
- Pro. Can update a report in seconds.

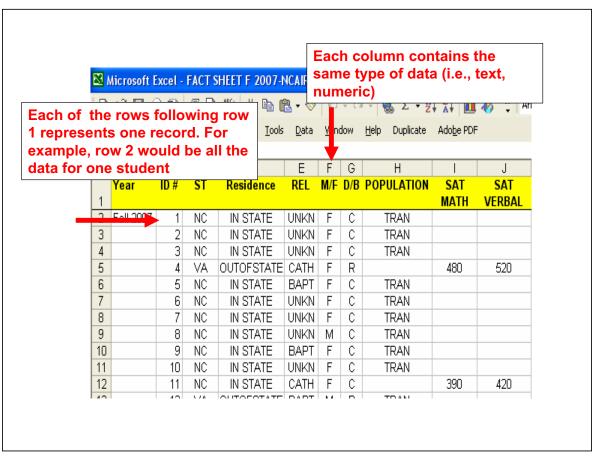


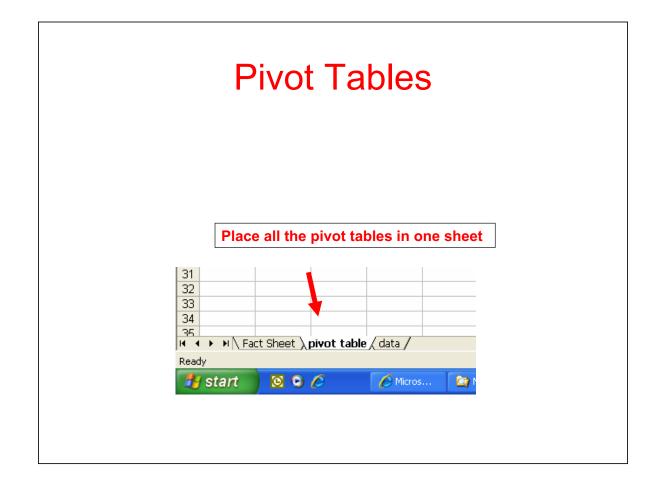


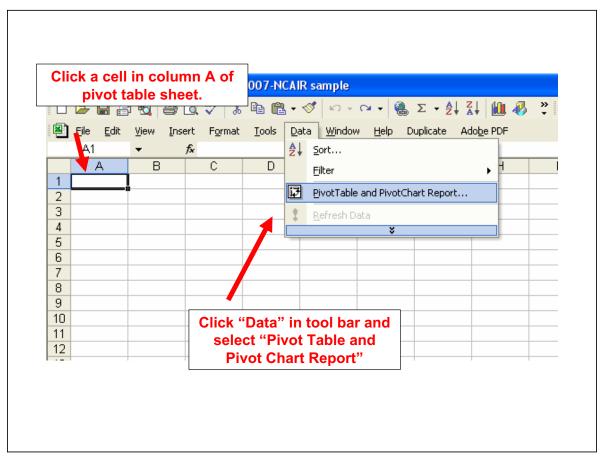


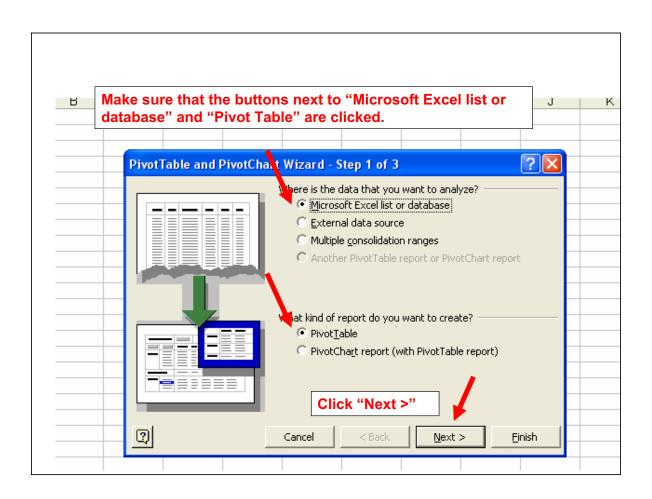
The first row of the "data" sheet is for column labels. Each column must have a label even if the variable is not used in the report.

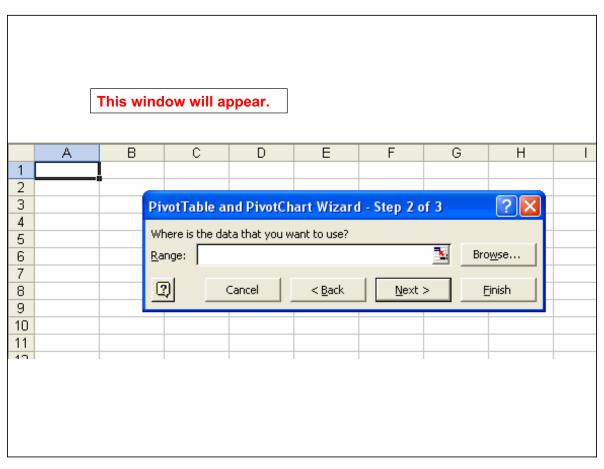


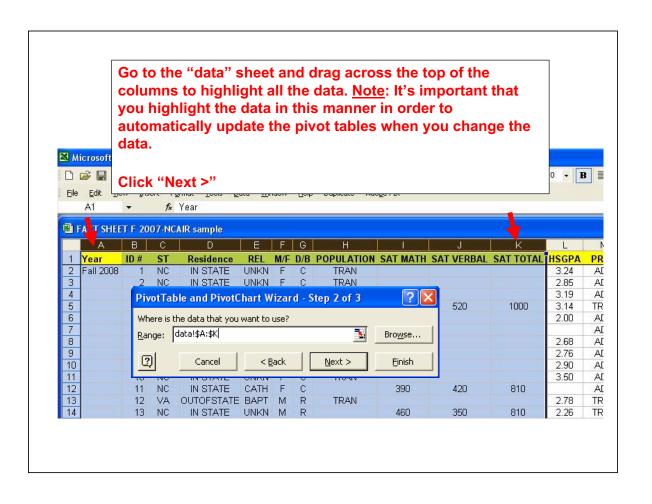


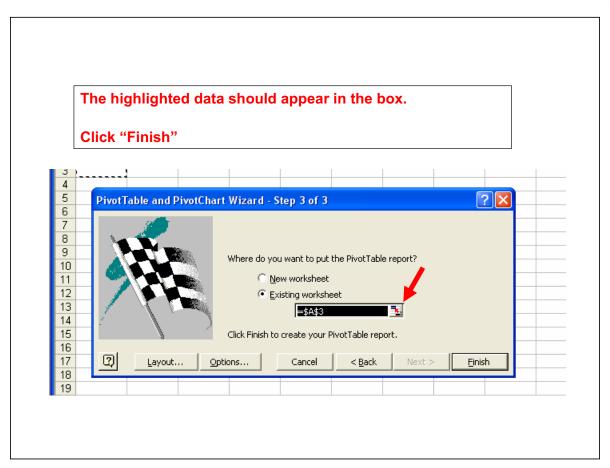


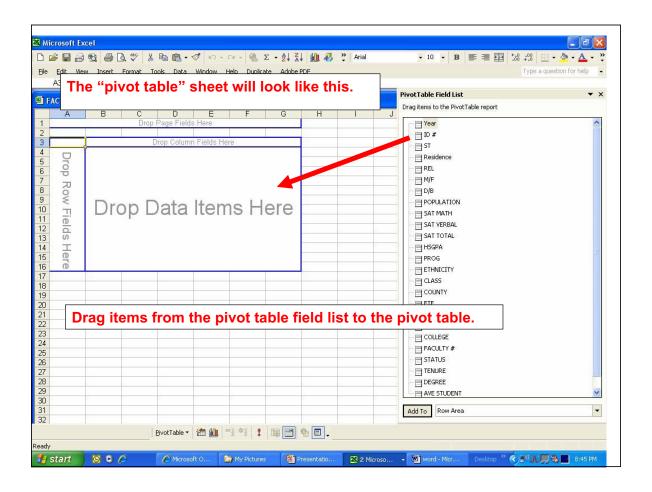


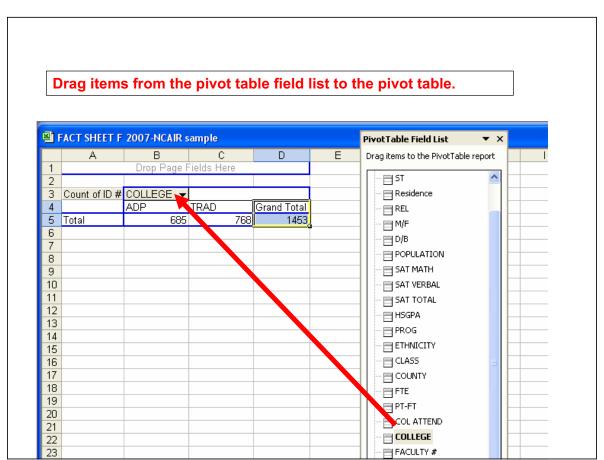


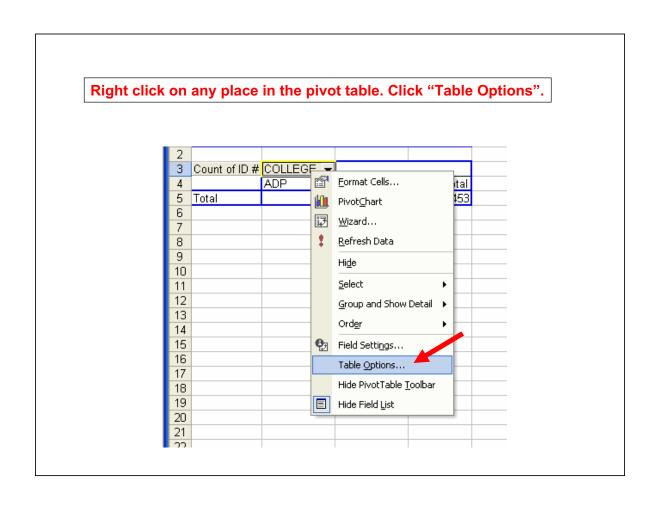


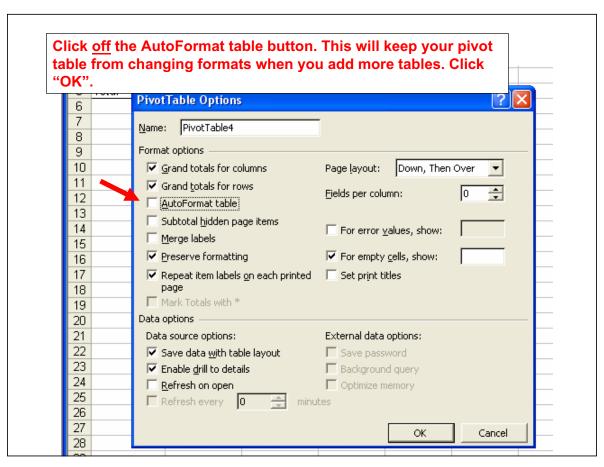


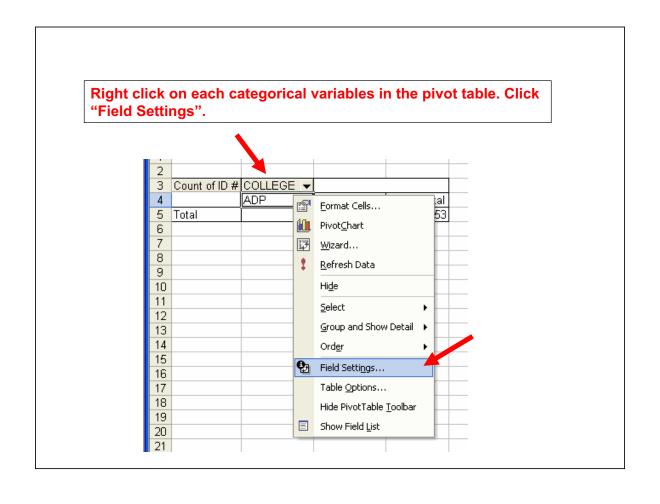


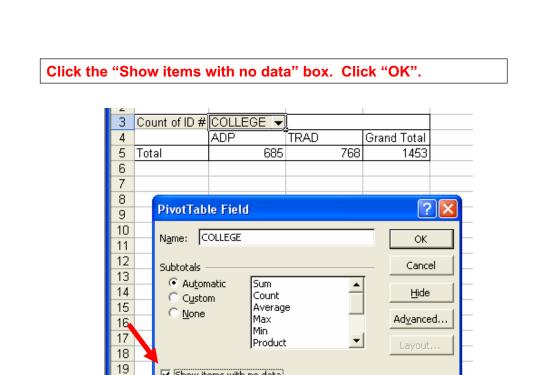










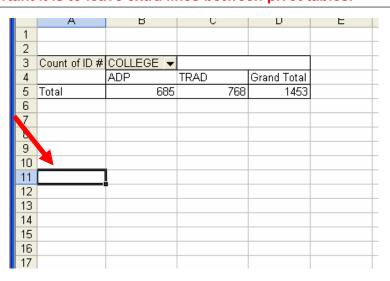


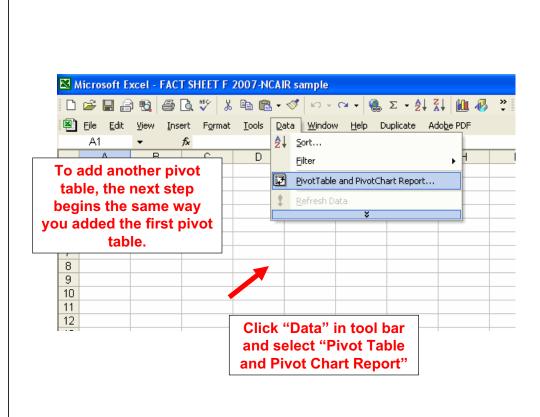
To add the next pivot table click a cell several rows below the pivot table above. Note: It's important that you leave several rows between pivot tables. Pivot tables often change size when refreshed and will not refresh if they overlap.

The more variables included in your pivot table, the more important it is to leave extra lines between pivot tables.

Show items with no data

20 21





When you add pivot tables that are based on the same data as the initial table, you will want to base future pivot tables on the existing pivot table and data.

Pivot tables require a lot of memory and you will save memory when you link your pivot tables together. Also, it is important to link the tables when refreshing your data. By linking tables you can refresh all the pivot tables with one click.

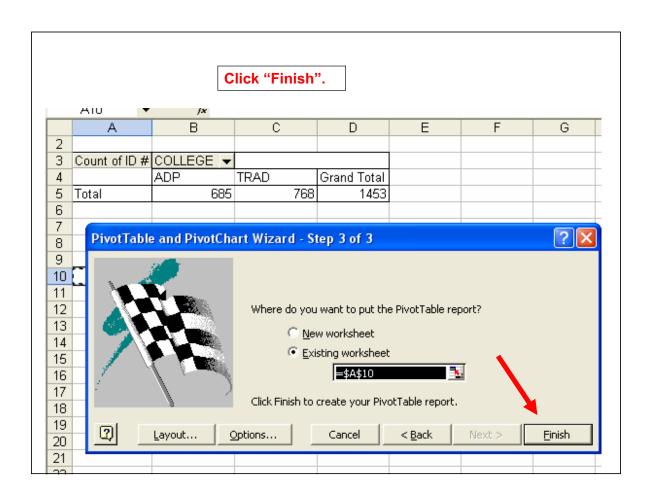
Next: To base your pivot table on the same data used in the initial pivot table.

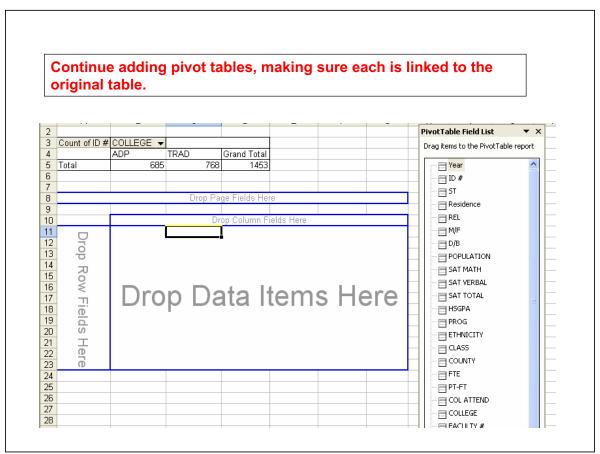
Make sure that the buttons next to "Another Pivot Table report or PivotChart report" and "Pivot Table" are checked.

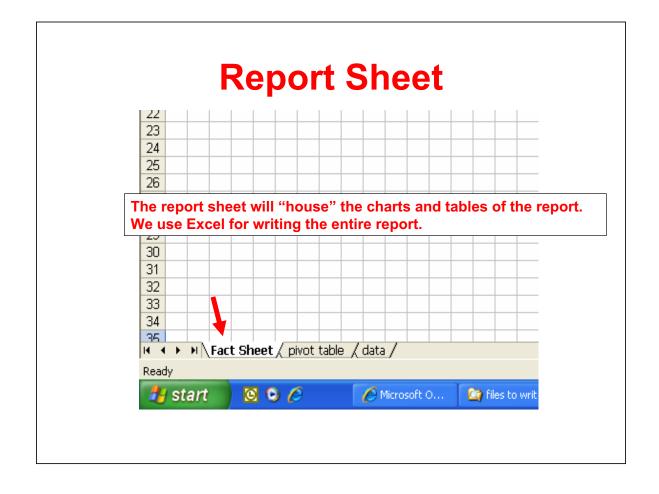


Note, This is the step that deviates from the original pivot table set up. Originally, you selected a database or Excel list. Here you are selecting a pivot table.

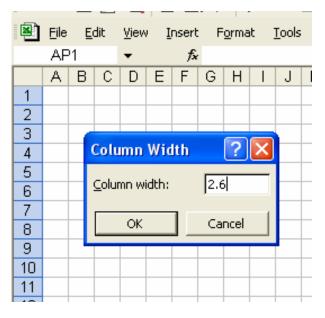
Next, Click on the Pivot Table Number that contains the original data. Generally, I suggest always using "Pivot Table 1" if all pivot tables are to be based on the same data. Click "Next >" ribute 📠 Publish To Website 🐹 Post To Blog 🚚 🚇 💂 ? X PivotTable and PivotChart Wizard - Step 2 of 3 В С Which PivotTable report contains the data you want to use? PivotTable5 • PivotTable4 PivotTable3 PivotTable2 Total PivotTable1 PivotTable26 41 12 2 Cancel < Back \underline{N} ext > Einish 67 121





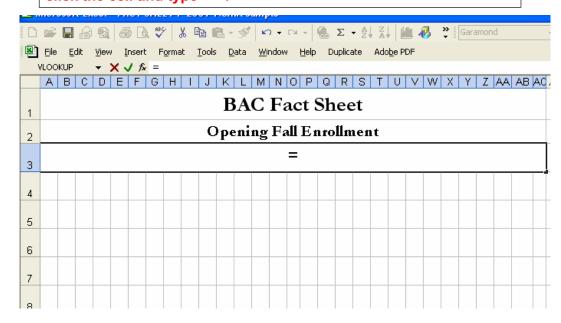


To allow for the "report" sheet to contain many different tables of differing sizes, we shrink the column widths to 2.6 inches.



Begin building report, merging cells when necessary.

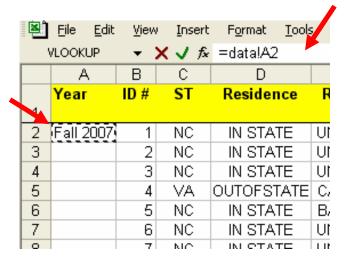
To link cells to data or pivot tables that will automatically update, click the cell and type "=".



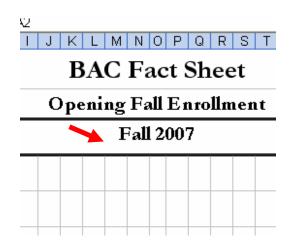
Go to the data or pivot table that contains the information to be linked and click on the appropriate cell.

The location of the cell will appear in the formula bar.

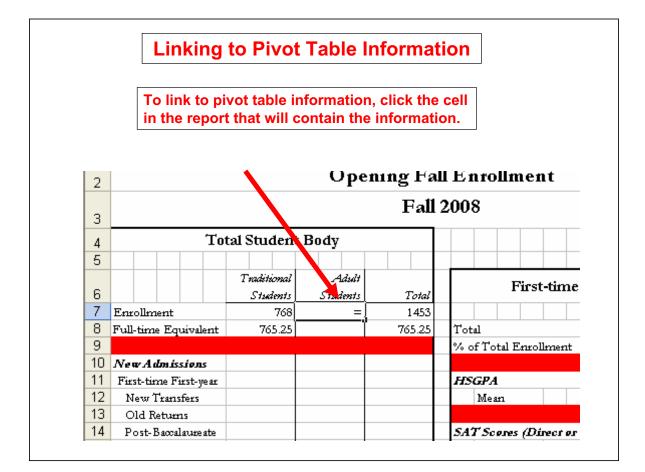
Hit the "Enter" button on your keyboard.



The information from the cell will appear in the cell of the report sheet.

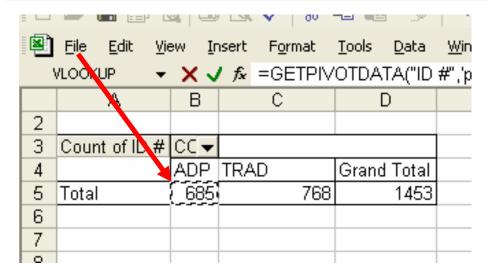


Continue building the report sheet, merging cells when necessary. ____A | B | C | D | E | F | G | H <mark>_ I | J | K |</mark> L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA| AB | AQ AI **BAC Fact Sheet** Opening Fall Enrollment Fall 2008 3 Total Student Body 4 5 First-time First-year Students Students Students Total Enrollment 1453 8 Full-time Equivalent 765.25 765.25 Total % of Total Enrollment 10 New Admissions HSGPA 11 First-time First-year Mean 13 Old Returns SAT Scores (Direct or Converted ACT) Post-Baccalaureate 14 Post-Dacana 15 Non-degree Mean Verbal 16 Mean Math 17 Mean Total 18 Course Load Full-time Permanent Residence Part-time Florida 21 Georgia 22 Gendes Maryland 23 Males New York Females North Carolina



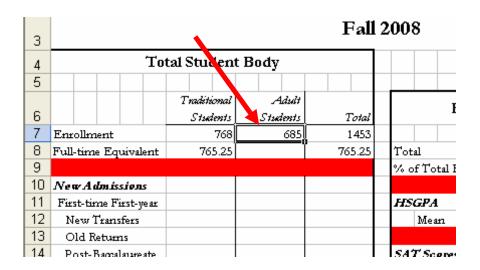
Go to the pivot table sheet and click on the information needed for the report.

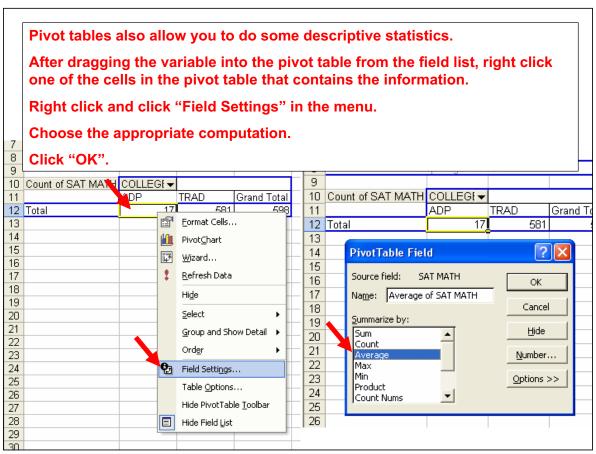
Hit "Enter" on the keyboard.



The information will appear in the appropriate cell in the report.

Continue linking report to pivot tables.







The completed report will look like this.

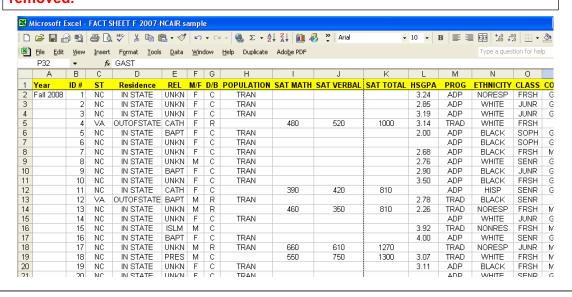
BAC Fact Sheet Opening Fall Enrollment Fall 2007

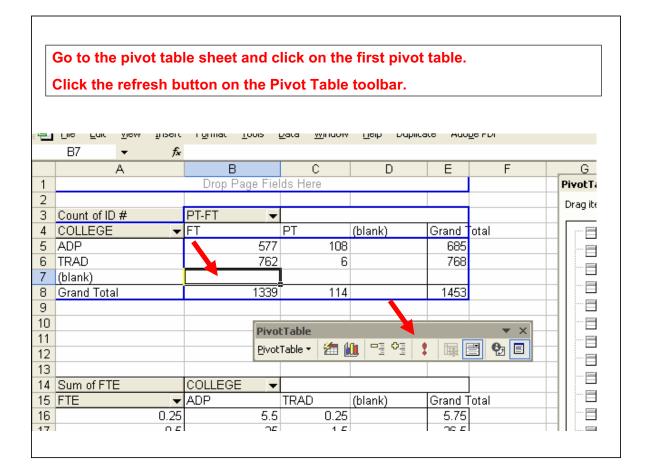
Total Student Body					
	Traditional	Adult			
	Students	Students	Total		
Enrollment	718	619	1337		
Full-time Equivalent	715.75	573.75	1289.5		
New Admissions					
First-time First-year	206	4	210		
New Transfers	61	199	260		
Old Returns	6	7	13		
Post-Baccalaureate		1	1		
Non-degree	0	5	5		
Total	273	216	489		
Course Load					
Full-time	713	522	1235		
Part-time	5	97	102		
Tart time	3	21	102		
Gender					
Males	365	151	516		
Females	353	468	821		
Ed. 11					
Ethnicity	2.5	4	20		
Non-resident Alien	35	4	39		
Am. Ind./ Alaskan	3	2	13		
Asian / Pacific	46	235	281		
Black, non-Hispanic	43	233 17	60		
Hispanic White, non-Hispanic	501	342	843		
Not declared	81	15	96		
Not declared	01	13	90		
Permanent Residence					
In-state	302	598	900		
Gaston County	84	328	412		
Mecklenburg	61	191	252		
Out-of-state	416	21	437		
Non-resident Alien	35	4	39		
0 7 11					
Campus Residence	F70		F 70		
Boarder	578 140	(15)	578 755		
Commuter	140	615	755		
Self-Identified Catholics	s				
Boarders	325		325		
Commuters	36	71	107		
Total	361	71	432		

First-time First-year Students				
Total	210			
% of Total Enrollment	16%			
HSGPA				
Mean	3.09			
SAT Scores (Direct or Converted ACT) Mean Verbal	513			
Mean Math	505			
Mean Total	1018			
Permanent Residence Florida	10			
Georgia	19 17			
Maryland	12			
New York	14			
North Carolina	76			
South Carolina	13			
Virginia	17			
Other States	37			
Non-resident Alien	5			
Faculty				
Total				
Full-time contract	54			
Reduced Load contract	2			
Part-time contract	65			
FTE Student/ FTE Faculty	16:1			
Tenure Status				
Tenured	35			
Tenure Track	6			
Dogwoo Status Full time				
Degree Status Full-time Doctorate	41			
First Professional/ Other terminal	1			
Masters	12			
***	. =			

Updating the Report

To update a report you must first replace the data in the data sheet with the new data. Note: It's important that the Column labels remain the same as with the original data. In addition, be sure that all the old data has been removed.





The new data will appear in the report.

BAC Fact Sheet Opening Fall Enrollment Fall 2008

Total Student Body				
	Traditional	Adult		
_	Students	Students	Total	
Enrollment	768	685	1453	
Full-time Equivalent	765.25	634.5	1399.75	
New Admissions				
First-time First-year	220	5	225	
New Transfers	64	218	282	
Old Returns	7	8	15	
Post-Baccalaureate	,	1	1	
Non-degree	0	6	6	
Total	291	238	529	
1000	2,1	230	32)	
Course Load				
Full-time	762	577	1339	
Part-time	6	108	114	
Gender				
Males	207	167	E (2	
Females	396 372	518	563	
remaies	3/2	316	890	
Ethnicity				
Non-resident Alien	38	5	43	
Am. Ind./ Alaskan	3	2	5	
Asian / Pacific	11	4	15	
Black, non-Hispanic	52	260	312	
Hispanic	46	19	65	
White, non-Hispanic	529	379	908	
Not declared	89	16	105	
D . D . 1				
Permanent Residence	226	((2	000	
In-state	326	662	988	
Gaston County	91	368		
Mecklenburg	68	207	275	
Out-of-state Non-resident Alien	442	23	465	
Non-resident Alien	38	5	43	
Campus Residence				
Boarder	615		615	
Commuter	153	615	768	
Calcida vici a Calair				
Self-Identified Catholic Boarders	e s 325		325	
Commuters	43	79	122	
Total	368	79	447	
TOTAL	500	19	44/	

First-time First-year Students				
Total	225			
% of Total Enrollment	16%			
HSGPA				
Mean	3.09			
110011	3.07			
SAT Scores (Direct or Converted ACT)				
Mean Verbal	512			
Mean Math	505			
Mean Total	1017			
Permanent Residence				
Florida	20			
Georgia	19			
Maryland	12			
New York	14			
North Carolina	83			
South Carolina	15			
Virginia	18			
Other States	38			
Non-resident Alien	6			
Faculty				
Total				
Full-time contract	57			
Reduced Load contract	2			
Part-time contract	83			
FTE Student/ FTE Faculty	17:1			
TIB beddeste, TIB Facaley	17.1			
Tenure Status				
Tenured	38			
Tenure Track	6			
Degree Status Full-time				
Doctorate	44			
First Professional/ Other terminal	1			
Masters	12			