

Multiple Queries



COGNOS Multiple Queries

In Cognos Report Studio, it is possible to include multiple queries on a report. In the Applicants report below, we will add a query for Admissions information.

Cognos Viewer - Multiple Queries Example

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Applicant Count By College

Academic Period: Spring 2009

| College | Applicants |
|------------------------------|--------------|
| Ashtabula Campus | 481 |
| Coll of Arch and Env Design | 80 |
| Coll of Ed Health Human Svcs | 1,325 |
| College of Arts and Sciences | 1,273 |
| College of Business Admin | 788 |
| College of Comm and Info | 285 |
| College of Nursing | 643 |
| College of Technology | 125 |
| College of the Arts | 220 |
| East Liverpool Campus | 151 |
| Geauga Campus | 50 |
| Salem Campus | 140 |
| Stark Campus | 298 |
| Trumbull Campus | 227 |
| Tuscarawas Campus | 222 |
| Undergraduate Studies | 801 |
| Summary | 7,109 |

Report Studio allows you to have multiple queries on a single report

Multiple Queries

The screenshot shows a report designer window with a menu bar (File, Edit, View, Structure, Table, Data, Run, Tools, Help) and a toolbar. The main workspace displays a report titled "Applicant Count By College" with a parameter "Academic Period: <%ParamDisplay...%>". Below the parameter is a table structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

The left sidebar contains an "Insertable Objects" pane with a tree view showing "KSU Admissions Application Training" and its sub-items: "Admission Application", "Person Supplemental", and "List of Values". Below this is a "Properties" pane.

Follow these steps to create a report with multiple queries:

1. Open the report

Multiple Queries

The screenshot shows a report designer window titled "Applicant Count By College". The menu bar includes File, Edit, View, Structure, Table, Data, Run, Tools, and Help. The "Table" menu is open, showing options like Insert Table, Delete Table, and Table Properties. A callout box points to the "Table" menu item with the text: "You can insert a table by selecting the Table menu item".

The report body contains a table with the following structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

An "Insert Table" dialog box is open, showing the following settings:

- Table size:
 - Number of columns: 3
 - Number of rows: 4
- Table style:
 - Maximize width
 - Show borders

The dialog box has "OK" and "Cancel" buttons.

1. Highlight the report body area
2. Select the **Table** menu item
3. Select **Insert**
4. Select **Table**
5. Change the table size to three (3) columns and four (4) rows
6. Click **OK**

Multiple Queries

The screenshot shows a report designer interface. The main report area displays a table titled "Applicant Count By College" with the following structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

The Properties pane on the left is set to "List Column Body". A callout box points to the "List" property, which is currently set to "List".

Properties - List Column Body

- Conditional
 - Conditional Styles
 - Style Variable
 - Text Source Variable
- Text Source
 - Source Type: Data Item Value
 - Data Item Value: PERSON_UID
- Data
 - Data Format
 - Drill-Through Definitions
 - Group Span
- Box

7. Highlight the **College** column
8. Select the **List Column Body** link at the top of the **Properties Pane**
9. Select **List**

Multiple Queries

The screenshot shows a BI tool interface with a table titled "Applicant Count By College". The table has two columns: "College" and "Applicants". The data rows are as follows:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

A callout box in the center of the table area contains the text: "Click inside the cell to center the columns".

10. Drag the columns to the bottom left cell
11. Click inside the cell
12. Select the **Center**  icon

Multiple Queries

The screenshot shows a software interface for creating reports. The main workspace displays a report titled "Applicant Count By College" with a parameter "Academic Period: <%ParamDisplay...%>". A table is visible with the following structure:

| College | Applicants |
|------------------|--------------|
| <[COLLEGE_DESC]> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

The "Insertable Objects" pane on the left lists various objects, with "List" circled in red. The "Properties" pane for the selected "Table Cell" also has a red circle around the "List" icon.

13. Click the **Toolbox** tab  from the **Insertable Objects Pane**
14. Select **List** item
15. Drag the **List** item to the bottom right space of the table

Multiple Queries

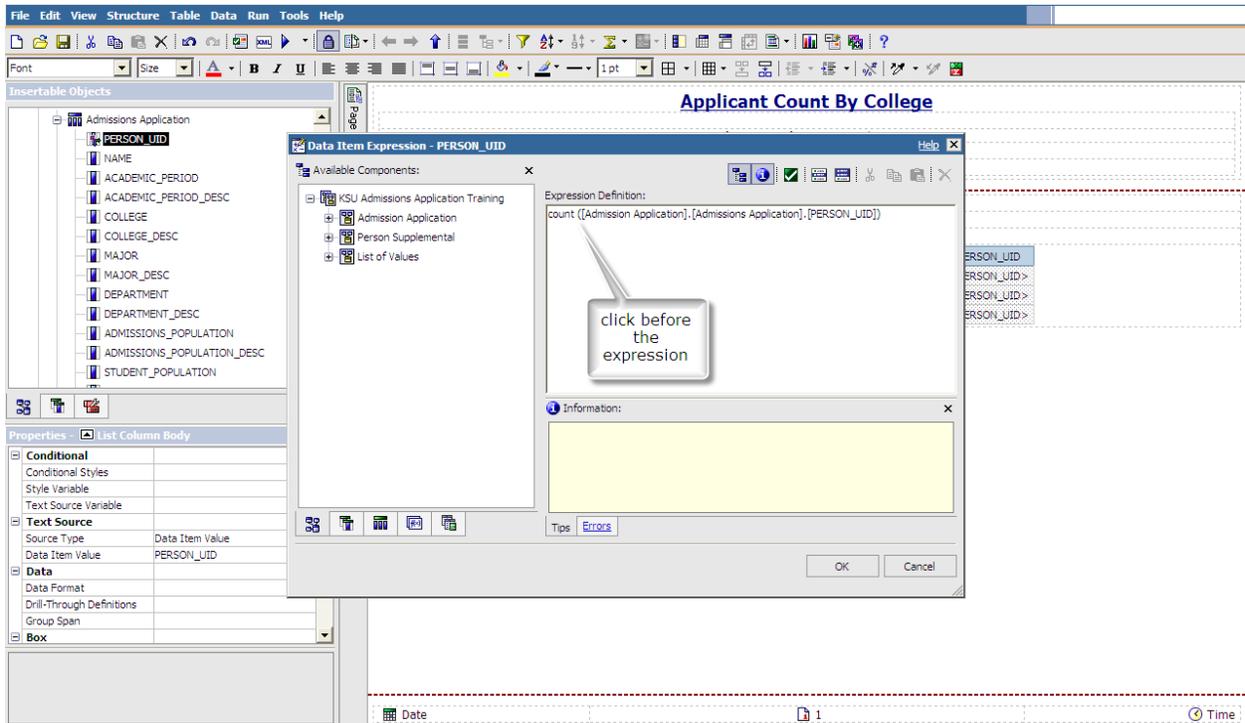
The screenshot shows a software application window with a menu bar (File, Edit, View, Structure, Table, Data, Run, Tools, Help) and a toolbar. On the left, the 'Insertable Objects' pane lists fields from an 'Admissions Application' table, including PERSON_UID, NAME, ACADEMIC_PERIOD, COLLEGE, MAJOR, DEPARTMENT, and STUDENT_POPULATION. A blue circle highlights the PERSON_UID field. Below this is the 'Properties - Table Cell' pane with sections for Conditional, Box, Color & Background, and Font & Text. The main report area is titled 'Applicant Count By College' and includes a parameter '<%ParamDisplay...%>'. It contains a table with the following structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

Below the table, there is a callout box with a 3D effect containing the text: 'Insert the data items into the new List Report'. At the bottom of the report area, there are fields for 'Date' and 'Time'.

16. Select the **Source** tab from the **Insertable Objects Pane**
17. Drag the data items **COLLEGE_DESC** and **PERSON_UID** into the **NEW** list report frame

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18. Double click inside the **PERSON_UID** column
19. The **Data Item Expression** dialogue box will open
20. Click before the **Query Item Definition**
21. Enter the word **count** <space> open parenthesis (
22. Click at the end of the **Query Item Definition**
23. Enter **close parenthesis)**
24. Click **OK**

Multiple Queries

The screenshot shows a reporting tool interface with the following components:

- Menu Bar:** File, Edit, View, Structure, Table, Data, Run, Tools, Help.
- Font and Size:** Font: [font icon], Size: [size dropdown].
- Insertable Objects:** A tree view showing the 'Admissions Application' object with fields: PERSON_UID, NAME, ACADEMIC_PERIOD, ACADEMIC_PERIOD_DESC, COLLEGE, COLLEGE_DESC, MAJOR, MAJOR_DESC, DEPARTMENT, DEPARTMENT_DESC, ADMISSIONS_POPULATION, ADMISSIONS_POPULATION_DESC, and STUDENT_POPULATION.
- Properties - List Column Body:**
 - Conditional:** Conditional Styles, Style Variable, Text Source Variable.
 - Text Source:** Source Type: Data Item Value, Data Item Value: COLLEGE_DESC.
 - Data:** Data Format, Drill-Through Definitions, Group Span: COLLEGE_DESC.
 - Box:** [empty]
- Table Design:** A table titled 'Applicant Count By College' with the following structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |
- Page Explorer:** A vertical pane on the right side of the table design.
- Page Header:** 'Applicant Count By College' and 'Academic Period: <%ParamDisplay...%>'. There is a red dashed line below the header.
- Page Footer:** 'Date' and 'Time' with a page number '1' in the center.

25. Click inside the **COLLEGE_DESC** column
26. Click the **Group**  icon

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The screenshot shows a software interface for creating a query. The main window is titled "Applicant Count By College". The "Insertable Objects" pane on the left lists various fields from the "Admissions Application" table, with "PERSON_UID" highlighted. The "Properties" pane at the bottom left shows the "Text Source" property set to "PERSON_UID". The central query editor displays a table with two columns: "College" and "Applicants". The "Applicants" column is highlighted, and an aggregate function "Total" is being applied to it. The "Properties" pane also shows the "Text Source" property set to "PERSON_UID".

27. Highlight the **PERSON_UID** column
28. Click the **Aggregate**  icon
29. Select **Total**

Multiple Queries

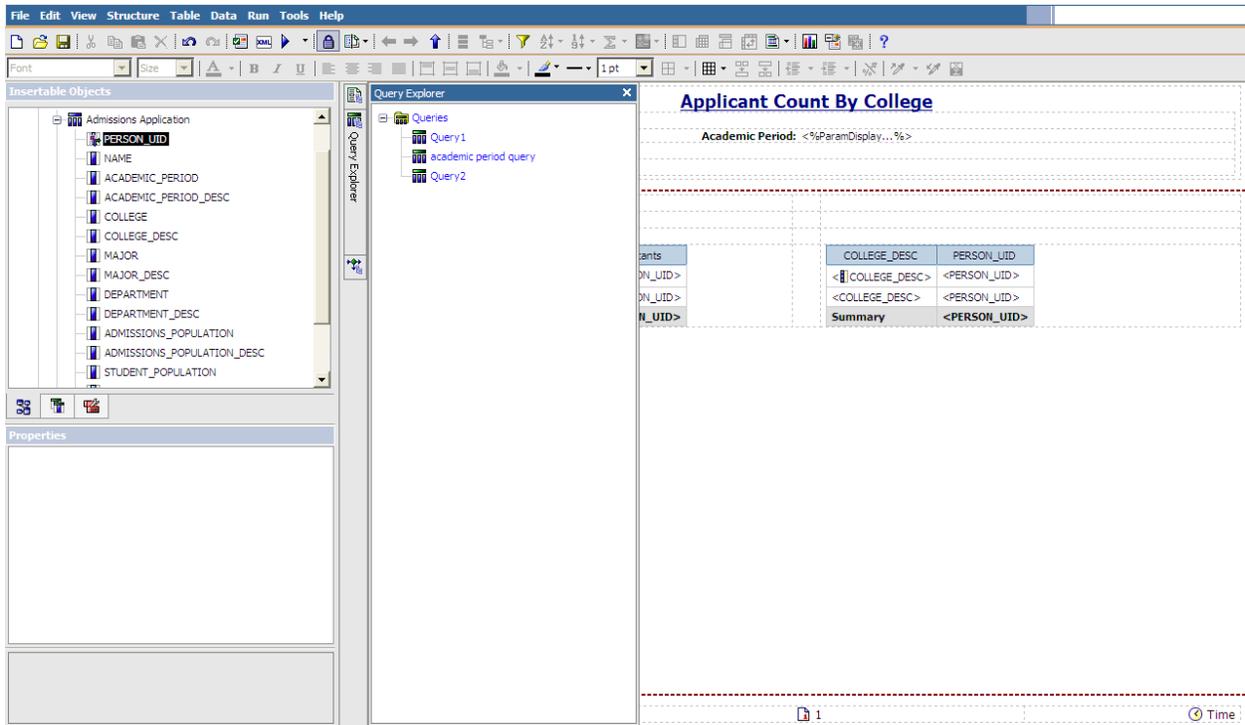
The screenshot shows the Crystal Reports interface. The main report area displays a table with the following structure:

| College | Applicants |
|----------------|--------------|
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| <COLLEGE_DESC> | <PERSON_UID> |
| Summary | <PERSON_UID> |

A callout box with a speech bubble points to the 'Summary' row, containing the text: "Click inside the subtotal line".

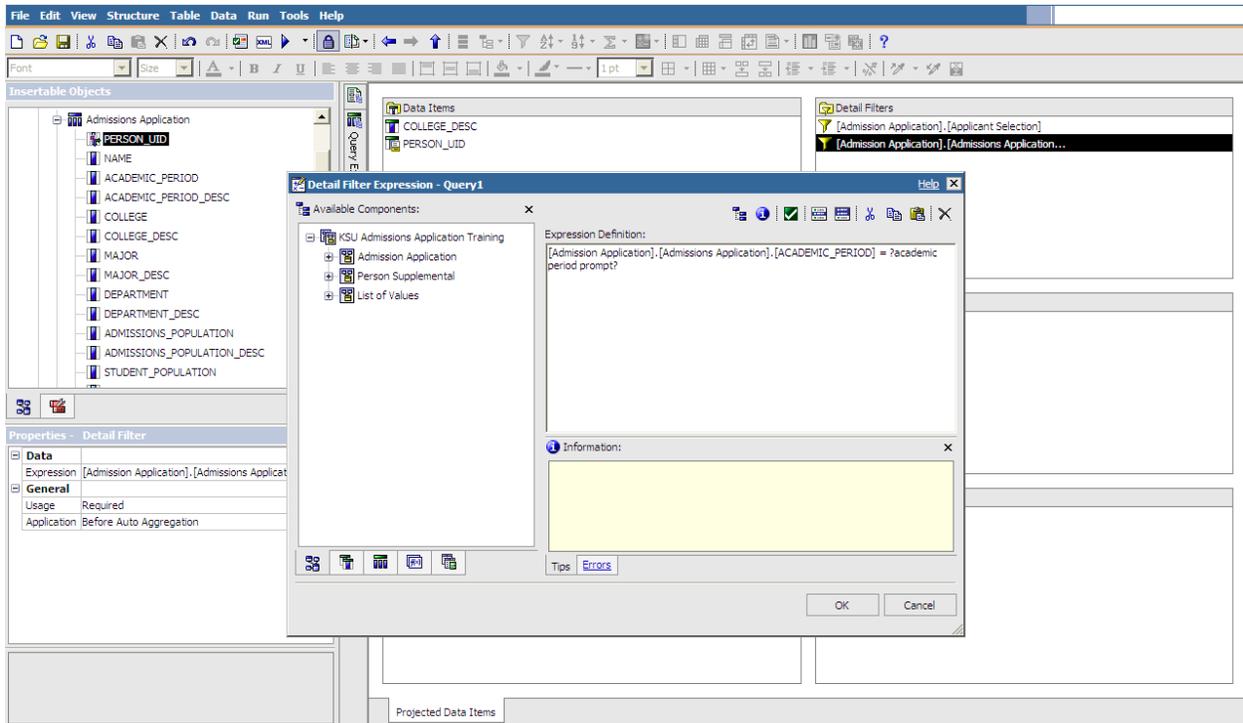
30. Click inside the **subtotal** line
31. Click the **<Delete>** key on your keyboard

Multiple Queries



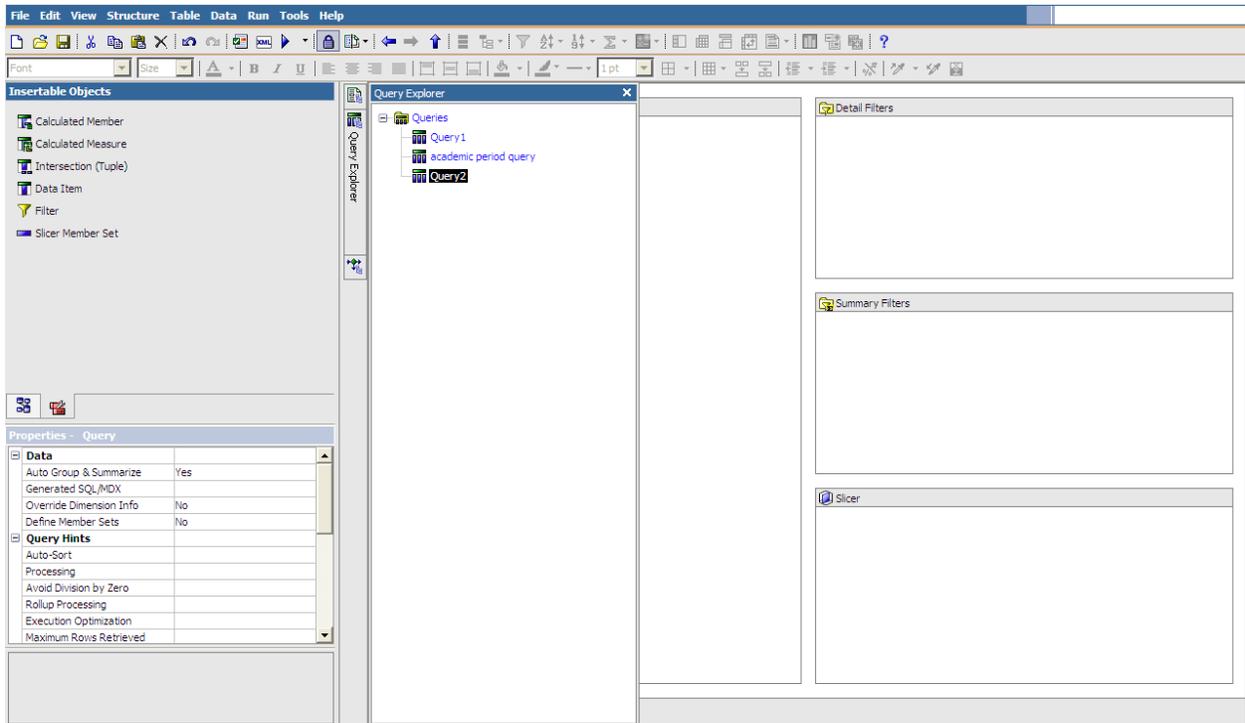
32. Mouse over the **Explorer Bar**
33. Mouse over **Query Explorer**
34. Select **Query 1**

Multiple Queries



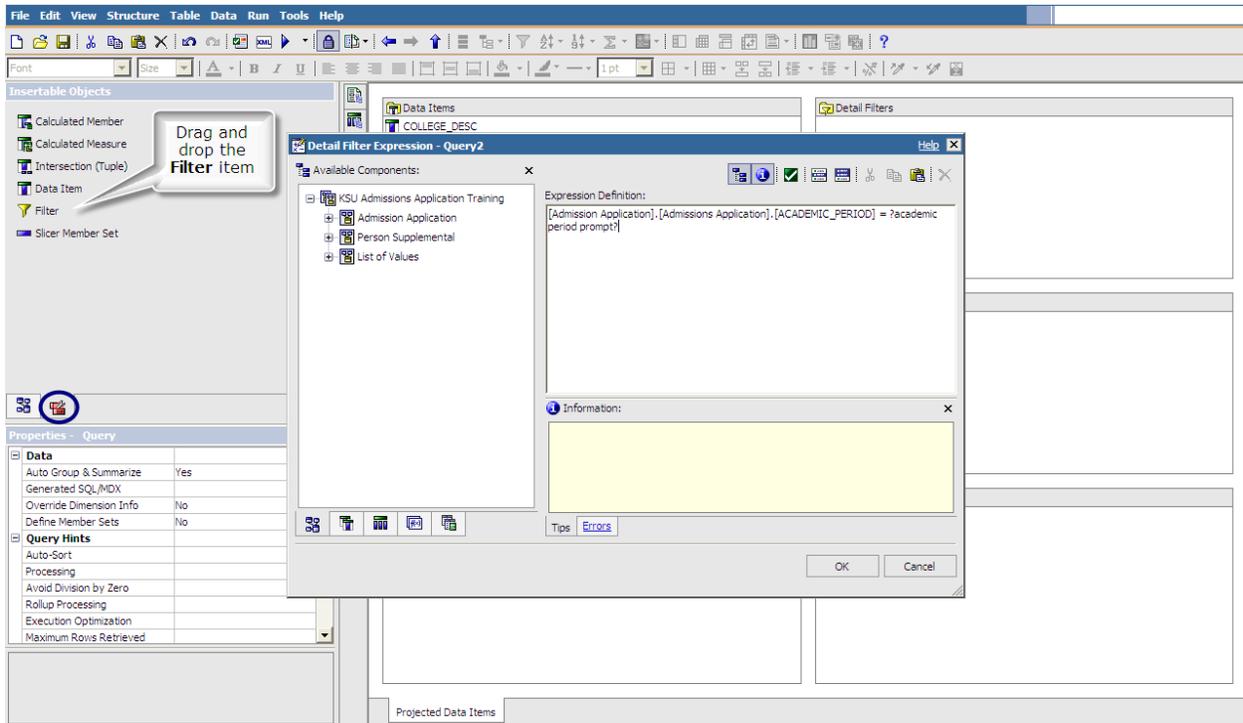
35. Select the second filter in the **Detail Filters** window
36. The **Detail Filter Expression** dialogue box will open
37. Highlight and copy the contents in the **Expression Definition** window
38. Click the **Cancel** button

Multiple Queries



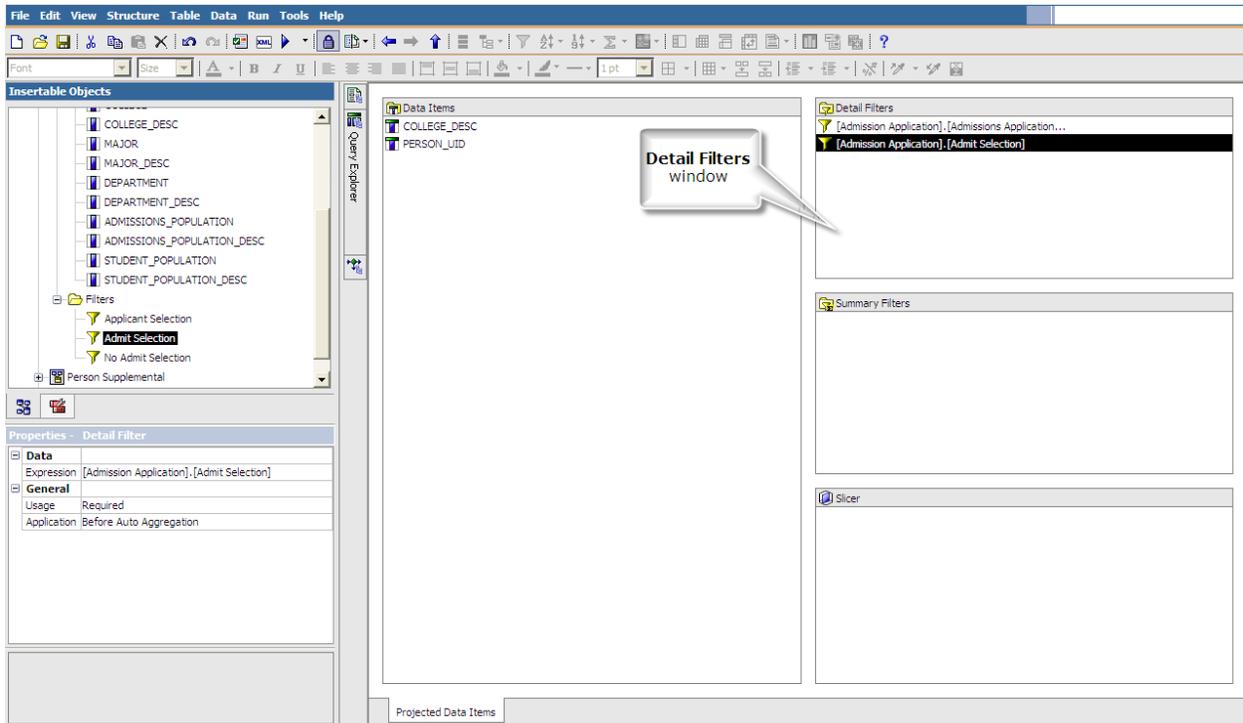
39. Mouse over the **Query Explorer**
40. Select **Query2**

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41. Click the **Toolbox** tab from the **Insertable Objects** pane
42. Drag and drop the **Filter** item to the **Detail Filters** window
43. Paste the copied statement into the **Expression Definition** window

Multiple Queries



44. Click the **Source** tab from the **Insertable Objects** pane
45. Scroll through the **tree hierarchy** until you find the **Filters** folder
46. Open the **Filters** folder
47. Drag and drop the **Admit Select** filter to the **Detail Filters** window

Multiple Queries

The screenshot shows a report designer interface. The main report area displays a report titled "Applicant Count By College" with a parameter "Academic Period: <%ParamDisplay...%>". The report contains two tables. The first table has columns "College" and "Applicants", with rows for "<COLLEGE_DESC>" and "Summary". The second table has columns "COLLEGE_DESC" and "PERSON_UID", with rows for "<COLLEGE_DESC>" and "Summary". The interface includes a menu bar (File, Edit, View, Structure, Table, Data, Run, Tools, Help), a toolbar, an "Insertable Objects" pane on the left, a "Properties" pane for a "Table Cell" at the bottom left, and a "Page Explorer" pane on the right. The status bar at the bottom shows "Date" and "Time".

48. Open **Page 1** by opening the **Page Explorer** from the **Explorer Bar**
49. Click inside the right side of the report to highlight it
50. Select the **Center**  icon

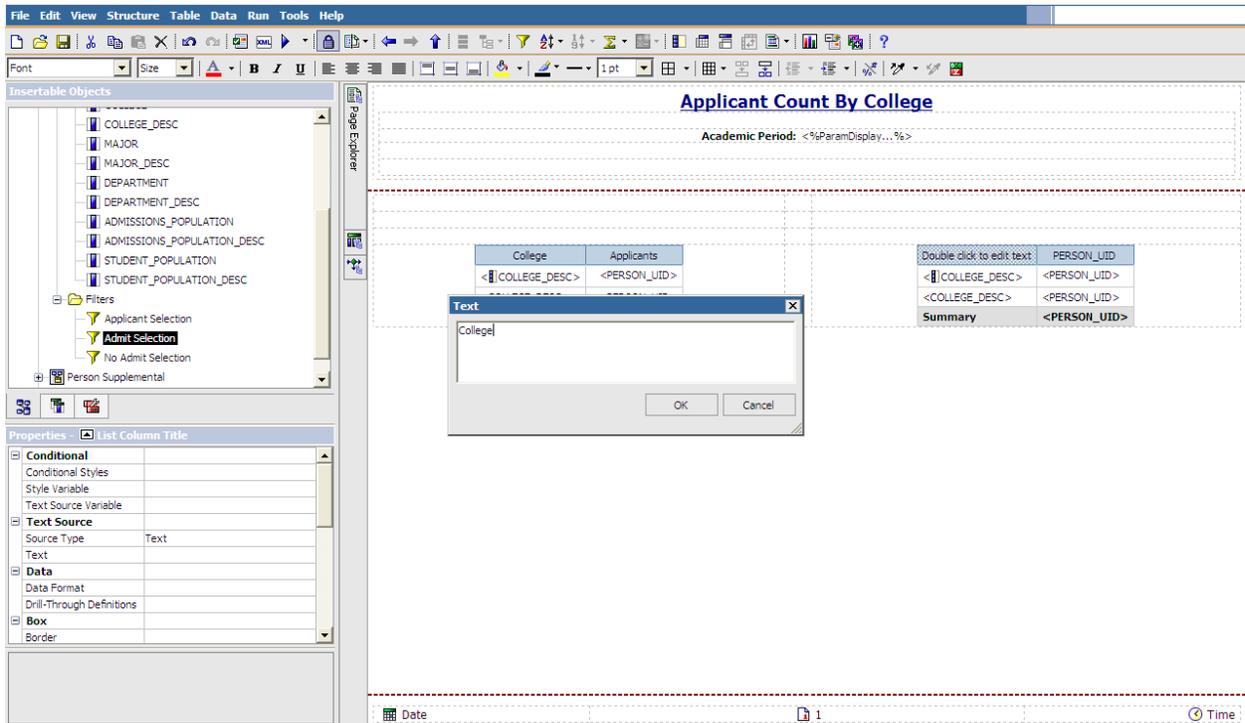
Multiple Queries

The screenshot shows a reporting tool interface with the following components:

- Insertable Objects:** A tree view on the left containing database objects like COLLEGE_DESC, MAJOR, DEPARTMENT, etc., and filters like Applicant Selection, Admit Selection, and No Admit Selection.
- Properties Pane:** A pane on the left titled "List Column Title" with sections for Conditional, Text Source, Data, and Box. The "Text Source" section is expanded, and "Text" is selected under "Source Type".
- Table:** A table titled "Applicant Count By College" with columns "College" and "Applicants". The "College" column heading is highlighted. The table contains data rows with placeholders like <COLLEGE_DESC> and <PERSON_UID>.
- Page Explorer:** A vertical pane on the right showing the report's structure.

51. Highlight the column heading for **COLLEGE_DESC**
52. Select **Source Type** from the **Properties Pane**
53. Select **Text**

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54. Double click inside the column heading
55. The **Text** box will open
56. Type the word **College**
57. Click **OK**
58. Repeat steps 56 - 62 for the **PERSON_UID** column, except change the word to **Admissions**

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59. Select the **PERSON_UID** column

60. Select the **right justify**  icon

| College | Applicants |
|------------------------------|--------------|
| Ashtabula Campus | 481 |
| Coll of Arch and Env Design | 80 |
| Coll of Ed Health Human Svcs | 1,325 |
| College of Arts and Sciences | 1,273 |
| College of Business Admin | 788 |
| College of Comm and Info | 285 |
| College of Nursing | 643 |
| College of Technology | 125 |
| College of the Arts | 220 |
| East Liverpool Campus | 151 |
| Geauga Campus | 50 |
| Salem Campus | 140 |
| Stark Campus | 298 |
| Trumbull Campus | 227 |
| Tuscarawas Campus | 222 |
| Undergraduate Studies | 801 |
| Summary | 7,109 |

| College | Admissions |
|------------------------------|--------------|
| Ashtabula Campus | 416 |
| Coll of Arch and Env Design | 28 |
| Coll of Ed Health Human Svcs | 1,048 |
| College of Arts and Sciences | 716 |
| College of Business Admin | 496 |
| College of Comm and Info | 194 |
| College of Nursing | 403 |
| College of Technology | 90 |
| College of the Arts | 88 |
| East Liverpool Campus | 131 |
| Geauga Campus | 38 |
| Salem Campus | 118 |
| Stark Campus | 256 |
| Trumbull Campus | 209 |
| Tuscarawas Campus | 187 |
| Undergraduate Studies | 677 |
| Summary | 5,095 |

61. Run the report to view the results

Multiple Queries

For additional information regarding Cognos, policies and access, or modifications to the ODS, contact the Business Intelligence Team at cognos@kent.edu. For technical assistance, contact the IS Help Desk at 672-HELP (4357).



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