



# 7 Ways to Filter Results in Web Intelligence

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# AGENDA

- Documentation
- Query filters
- Prompts
- Simple report filters
- Filter query based on results from another query
- Standard report filters
- Input controls
- Subqueries

# DOCUMENTATION

- Download the WebI User Guides from SAP:

XI 3.1: <http://help.sap.com/bowebi31>

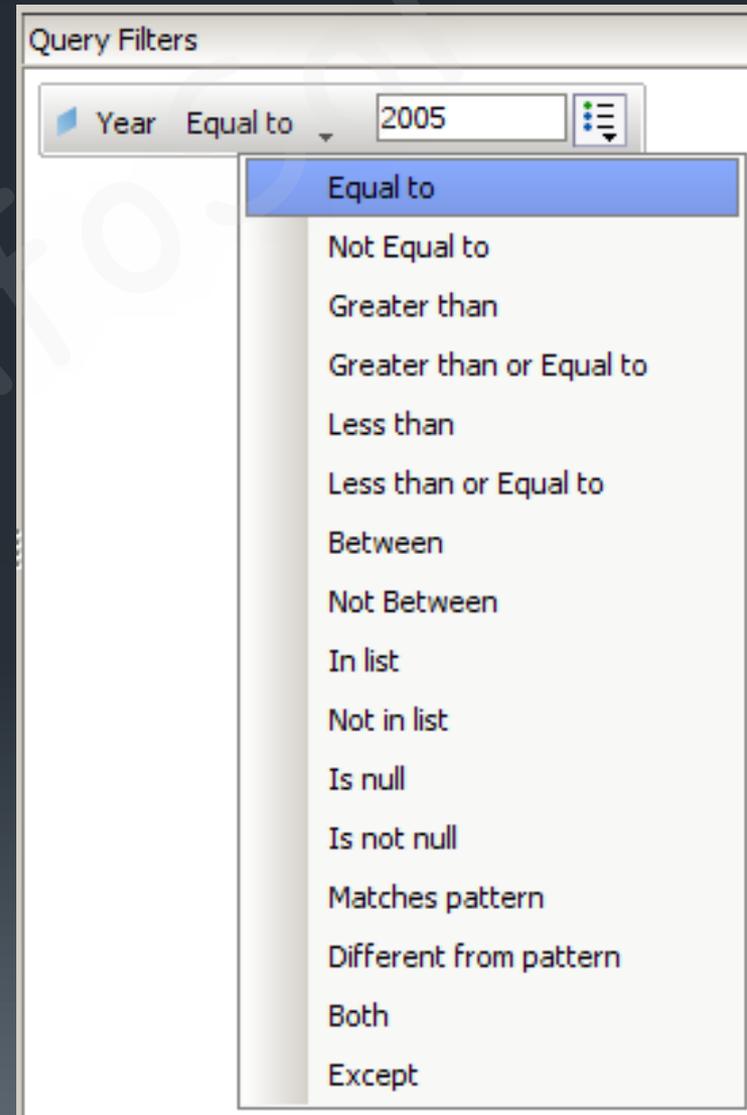
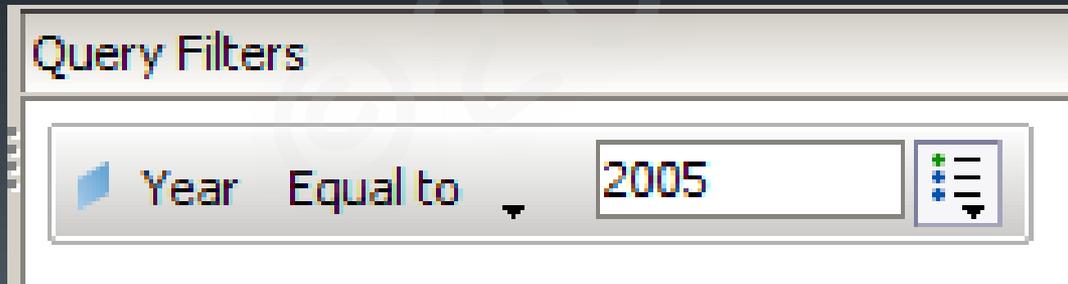
4.1: <http://help.sap.com/bowebi>

- View the official WebI tutorials from SAP:

<http://scn.sap.com/docs/DOC-7819>

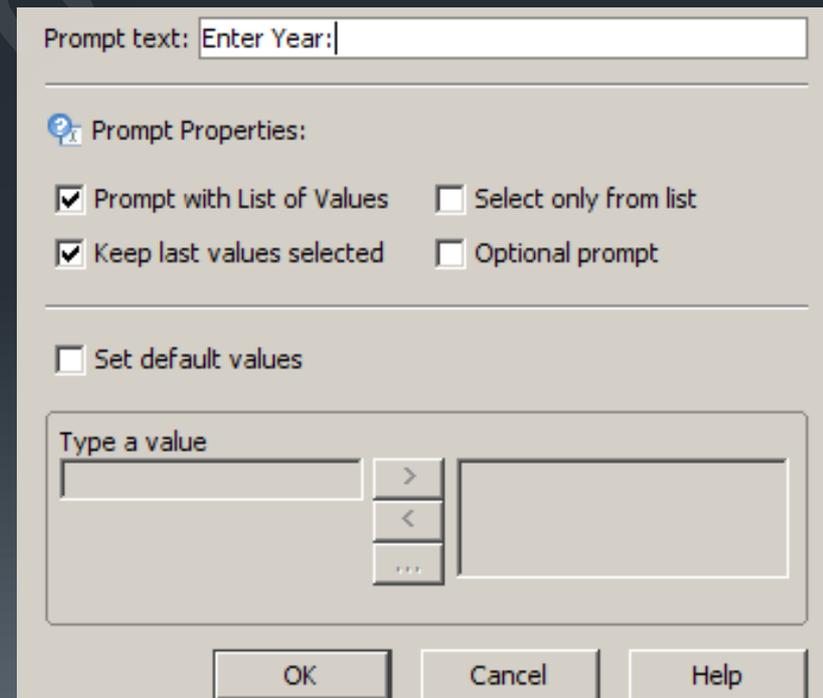
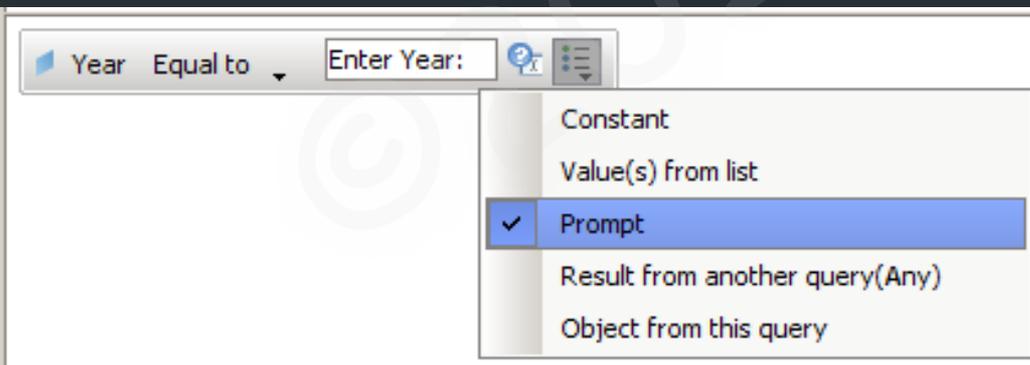
# 1) QUERY FILTERS

- Most basic filter technique in Web Intelligence
- Created in *Edit Query* mode
- Synonymous with a WHERE clause in SQL



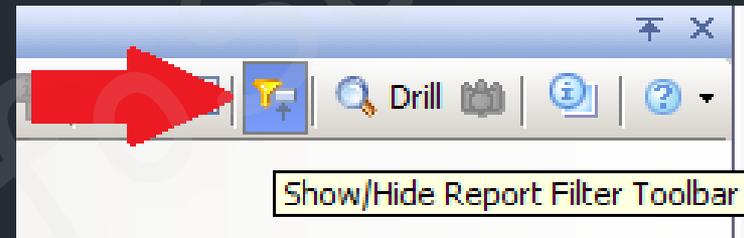
## 2) PROMPTS

- Filter values are selected by the user (rather than hard-coded)
- Created in *Edit Query* mode
- Prompts can be optional



# 3) SIMPLE REPORT FILTERS

- Interactive drop-down filter
- Created in *Edit Report* mode
- Allows user to dynamically filter report output on the fly



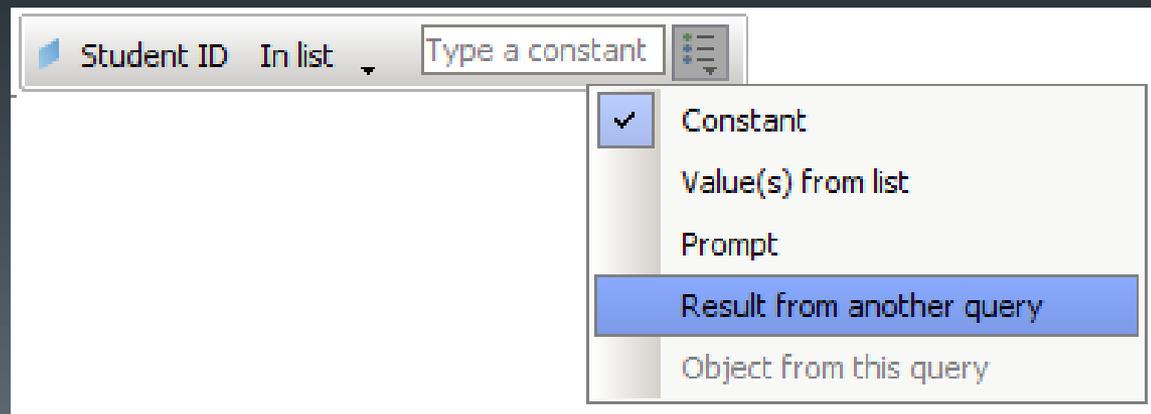
A screenshot of a report window. At the top, there is a filter dropdown menu labeled 'All Month Name' with a green arrow on the left and a search icon on the right. Below the filter is a table with two columns: 'Lines' and 'Sales revenue'.

Lines	Sales revenue
Sweat-T-Shirts	\$7,459,494
Accessories	\$1,899,405
Sweaters	\$1,660,040
Shirt Waist	\$1,654,359
Dresses	\$1,408,595

A screenshot of the same report window as above, but with the 'All Month Name' dropdown menu open. The menu lists the following options: 'All Month Name', 'January', 'February', 'March', 'April' (which is highlighted in blue), 'May', 'June', and 'July'.

# 4) FILTER ONE QUERY BASED ON RESULTS FROM ANOTHER QUERY

- WebI reports can support multiple queries
- EXAMPLE:
  - I want to pull all employees enrolled in classes
  - Student and HR data stored in *separate* universes
  - **QUERY #1:** Pull active employee IDs from HR universe
  - **QUERY #2:** Pull list of enrolled students from the Student universe where ID number is found in the result set of **QUERY #1**



# 4) FILTER ONE QUERY BASED ON RESULTS FROM ANOTHER QUERY

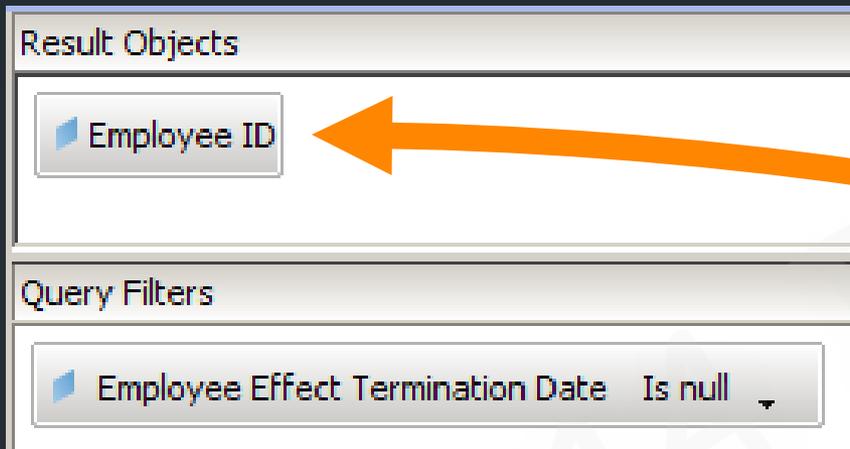
## QUERY #1 (HR Universe)

Result Objects

Employee ID

Query Filters

Employee Effect Termination Date Is null



## QUERY #2 (Student Universe)

Result Objects

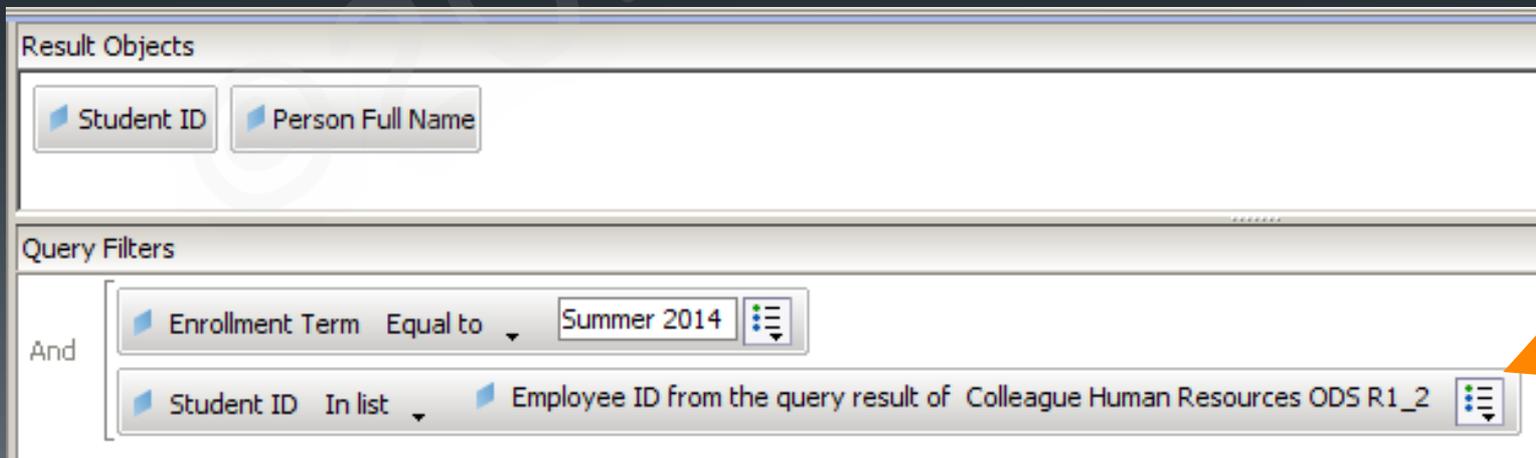
Student ID Person Full Name

Query Filters

And

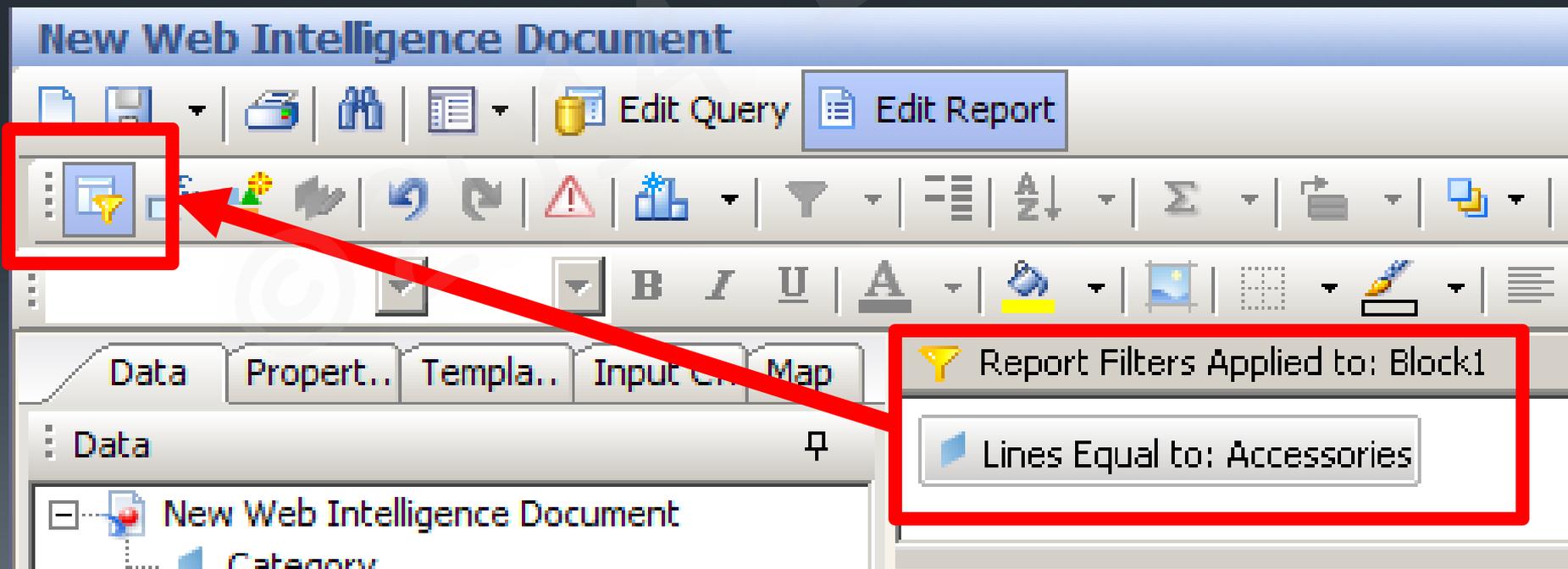
Enrollment Term Equal to Summer 2014

Student ID In list Employee ID from the query result of Colleague Human Resources ODS R1\_2



## 5) STANDARD REPORT FILTERS

- Static filters applied to reports/objects
- Created in *Edit Report* mode
- Filters can be applied to individual reports, tables, charts, etc.



# 5) STANDARD REPORT FILTERS

Report Filters Applied to: Block1

Lines Equal to: Accessories

ACCESSORIES		DRESSES	
Category	Sales revenue	Category	Sales revenue
Belts,bags,wallets	\$1,642,492	Casual dresses	\$382,703
Hair accessories	\$350,919	Evening wear	\$1,520,388
Hats,gloves,scarves	\$1,550,563	Skirts	\$639,817
Jewelry	\$5,180,094	Sweater dresses	\$372,713
Lounge wear	\$541,179		
Samples	\$649,298		

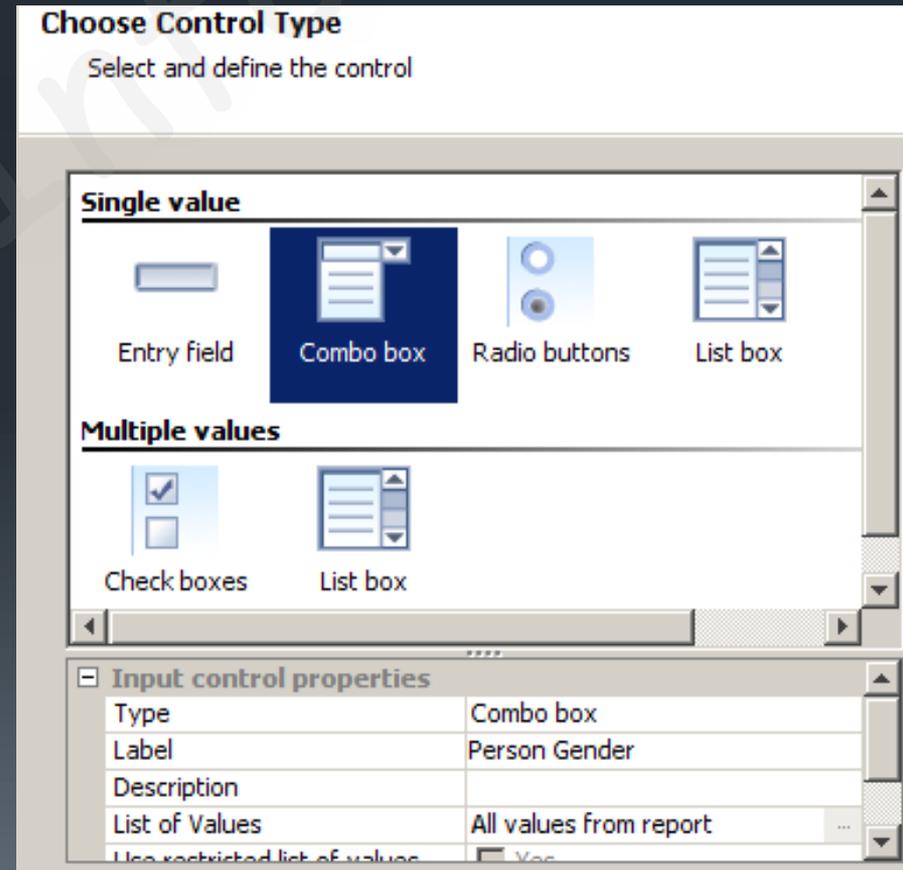
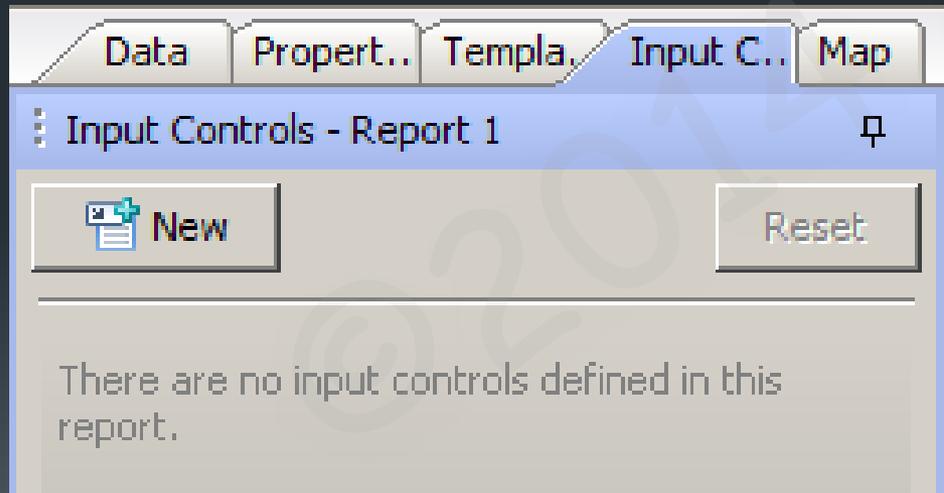
Report Filters Applied to: Block1 (1)

Lines Equal to: Dresses

ACCESSORIES		DRESSES	
Category	Sales revenue	Category	Sales revenue
Belts,bags,wallets	\$1,642,492	Casual dresses	\$382,703
Hair accessories	\$350,919	Evening wear	\$1,520,388
Hats,gloves,scarves	\$1,550,563	Skirts	\$639,817
Jewelry	\$5,180,094	Sweater dresses	\$372,713
Lounge wear	\$541,179		
Samples	\$649,298		

# 6) INPUT CONTROLS

- Interactive filters
- Created in *Edit Report* mode



# Section Analysis

Terms: 2013FA, 2012FA, 2011FA  
 Success and withdrawal rates exclude non-credit

Click to change: [Now viewing subject level](#)

Subject	2013FA							
	Sections	Enrolled	FTES	Fill	WCH	Withdrw	Success	Canc
Anthropology								
Art								
Biology								
Business								
Chemistry								
Communications								
Community Education								
Computer Applications								
Computer & Information Science								
Construction Trades								
Counseling								
Criminal Justice								
Culinary Arts								
Dance								
Digital Media Arts								
Early Childhood Education								
Economics								
Education								
English								

## Input Controls - Section Analysis

Map | Reset

Weeks

All values

Modality

All values

Distance

F2F

Hybrid

Transfer Status

Select (All)

Not transferable

Transfers to both UC/CSU

Transfers to CSU only

Work Exp/Internship Courses

Select (All)

Not Work Experience/Internship

Work Experience/Internship

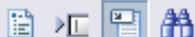
Occupational Status

Select (All)

Clearly Occupation

Non-occupational

Possibly Occupatio



Section Analysis

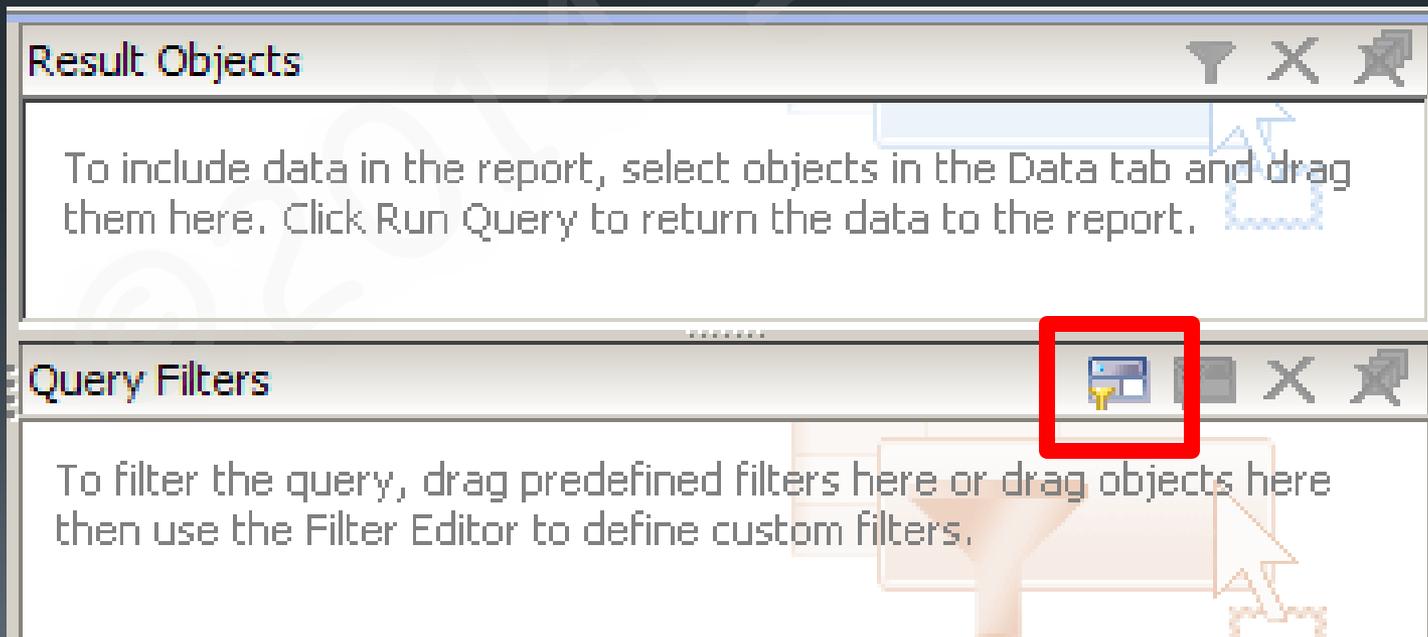
Section Detail

Section Averages

Demographic Analysis

# 7) SUBQUERIES

- Advanced query filtering technique
- Allows you to accomplish complex tasks that may not be possible with simple query filters
- Created in *Edit Query* mode



# 7) SUBQUERIES

- EXAMPLE: Find all products with sales in 2005, but not in 2006.

The screenshot shows a query builder interface with the following components:

- Result Objects:** Three buttons labeled "Lines", "Category", and "SKU desc".
- Query Filters:**
  - Filter 1: "Year" Equal to 2005.
  - Filter 2: "Sales revenue" Greater than 0.
  - Filter 3: "SKU number" Not in list (with a "SKU number" field).
- Logic:** The filters are connected by "And" operators. A "Where" clause is indicated on the left.
- Subquery:** A subquery is defined with:
  - Filter 4: "Year" Equal to 2006.
  - Filter 5: "Sales revenue" Greater than 0.

# 7) SUBQUERIES

- EXAMPLE: Find all students that have applied to the college, but have not yet registered for classes

The screenshot shows a database query builder window with the following components:

- Result Objects:** A toolbar with three buttons: "Person ID", "Person Full Name", and "Application Academic Program".
- Query Filters:** A section containing several filter conditions:
  - Condition 1: "Application Start Term" Equal to "Fall 2014".
  - Condition 2: "Person ID" Not in list "Person ID".
  - Condition 3: "Enrollment Term" Equal to "Fall 2014".
  - Condition 4: "Enrolled Course Credits" Greater than "0".
- Logic:** The word "And" is placed to the left of the second filter, and "Where" and "And" are placed to the left of the third and fourth filters, respectively, indicating logical grouping.



QUESTIONS?

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