

Business Objects – Web Intelligence (Advanced) Lab Book

Document Revision History

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Getting Started

Overview

This lab book is a guided tour for learning Business Objects – Web Intelligence (Advanced). It comprises solved examples and 'To Do' assignments. Follow the steps provided in the solved examples and work out the given 'To Do' assignments.

Setup Checklist for Business Objects – Web Intelligence (Advanced)

Here is what is expected on your machine in order for the lab to work.

Minimum System Requirements

- Intel Pentium 90 or higher (P166 recommended)
- Microsoft Windows 95, 98, or NT 4.0, 2k, XP.
- Memory: 32MB of RAM (64MB or more recommended)
- Internet Explorer 6.0 or higher
- MS-Access/Connectivity to Oracle database
- Apache Tomcat Version 5.0.

Please ensure that the following is done:

- NA

Instructions

- Create a directory by your name in drive <drive>. In this directory, create a subdirectory WebI(Adv)_assgn. For each lab exercise create a directory as lab <lab number>.

Learning More (Bibliography if applicable)

- NA

Lab 1. Applying Combined Query Using Union

Goals	<ul style="list-style-type: none">• Use Union for Combined Queries• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	45 Minutes

1.1: Applying Combined Query Using Union

Solution:

Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Click the **New** drop-down arrow . Select the **Web Intelligence Document** option to create a new Web Intelligence document.

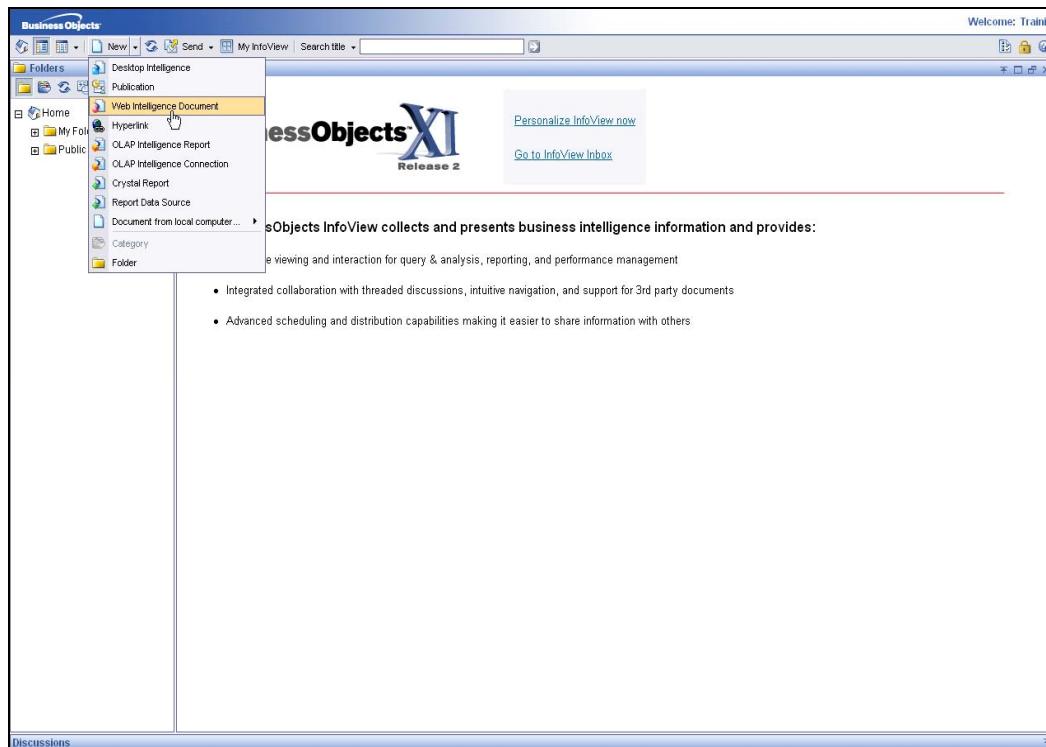


Figure 1: Welcome Screen

Step 3: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 4: Select the following objects from the universe:

Time period \ Year
Product \ Lines
Measures \ Sales revenue

Step 5: Click the **Add Combined Query** icon  on the toolbar. It adds a query to create a combined query.

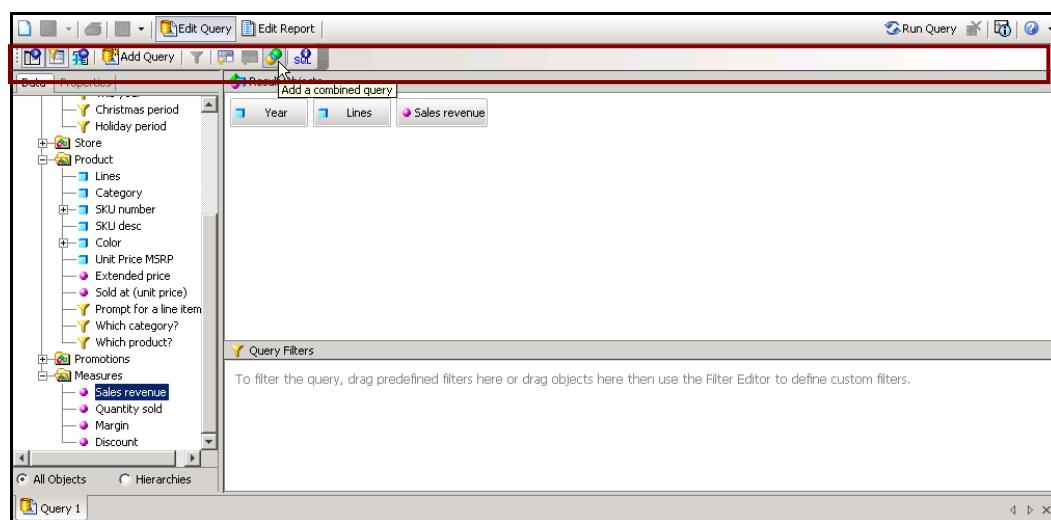
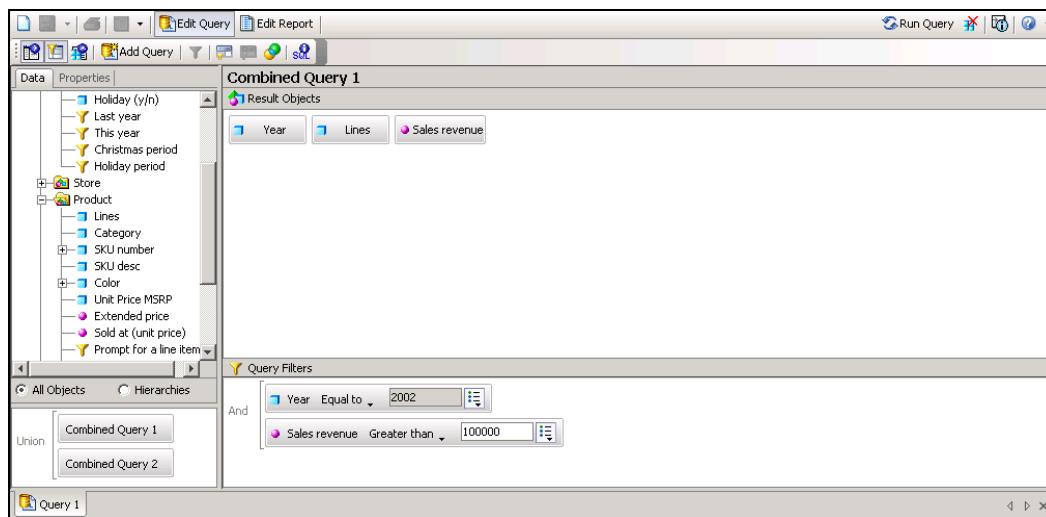


Figure 2: New Web Intelligence Document

Step 6: Click **Combined Query 1** and create the following Filters.

Time Period \ Year Equal to '2002'

Measures \ Sales revenue > 100, 000



The screenshot shows the Web Intelligence Document interface. On the left, the Data pane displays various objects like Holiday (v/h), Store, Product, Lines, Category, SKU number, SKU desc, Color, Unit Price MSRP, Extended price, Sold at (unit price), and Prompt for a line item. In the center, the 'Combined Query 1' pane shows Result Objects: Year, Lines, and Sales revenue. Below it, the 'Query Filters' pane contains two filters under 'And': 'Year Equal to 2002' and 'Sales revenue Greater than 100000'. At the bottom, the 'Union' section lists 'Combined Query 1' and 'Combined Query 2'. The status bar at the bottom indicates 'Query 1'.

Figure 3: New Web Intelligence Document

Step 7: Click **Combined Query2**, add the following Filters:

Time period \ Year Equal to '2003'

Measure \ Sales revenue > 110, 000

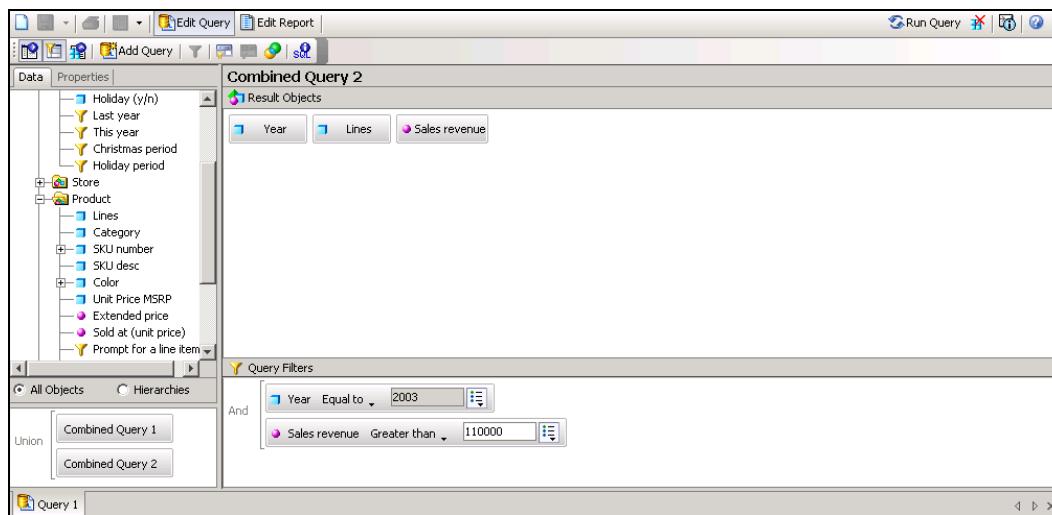


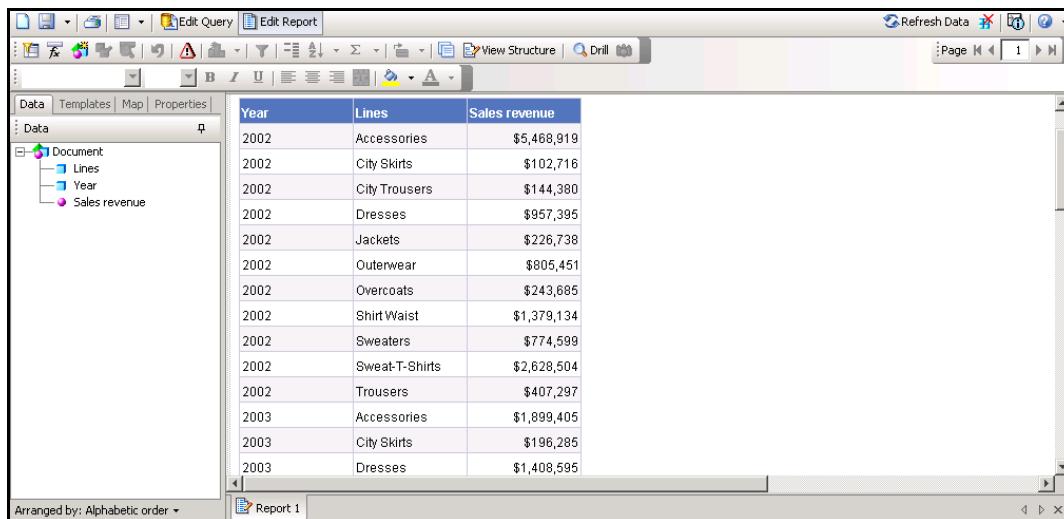
Figure 4: New Web Intelligence Document

Step 8: Click **Run Query** to view the report.



Figure 5: New Web Intelligence Document

Step 9: The **Workspace** pane displays the output in **Report View** as shown in the figure given below.



The screenshot shows the Report View in the New Web Intelligence Document. The workspace pane on the left displays a hierarchy: Document > Lines > Year > Sales revenue. The main area shows a table with the following data:

Year	Lines	Sales revenue
2002	Accessories	\$5,468,919
2002	City Skirts	\$102,716
2002	City Trousers	\$144,380
2002	Dresses	\$957,395
2002	Jackets	\$226,738
2002	Outerwear	\$805,451
2002	Overcoats	\$243,885
2002	Shirt Waist	\$1,379,134
2002	Sweaters	\$774,599
2002	Sweat-T-Shirts	\$2,628,504
2002	Trousers	\$407,297
2003	Accessories	\$1,899,405
2003	City Skirts	\$196,285
2003	Dresses	\$1,408,595

Figure 6: Report View

Step 10: Save the document with the name **Query Union Report** under **Public Folders\Batch Code\Emp code** and log off.

Lab 2. Using Sub-query

Goals	<ul style="list-style-type: none">• Use Sub-query.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	45 Minutes

2.1: Using Sub-query

Solution:

Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe:

- Time period \ Year
- Product \ Lines
- Measures \ Sales revenue

Step 4: In the **Web Intelligence Report Panel** window, create following filters:

- Time period \ Year Equal to '2003'
- Measure \ Sales revenue > 110, 000

Step 5: Select **Color** from the **Class and Objects** pane, and click the **Add Sub-query** icon  on the toolbar.

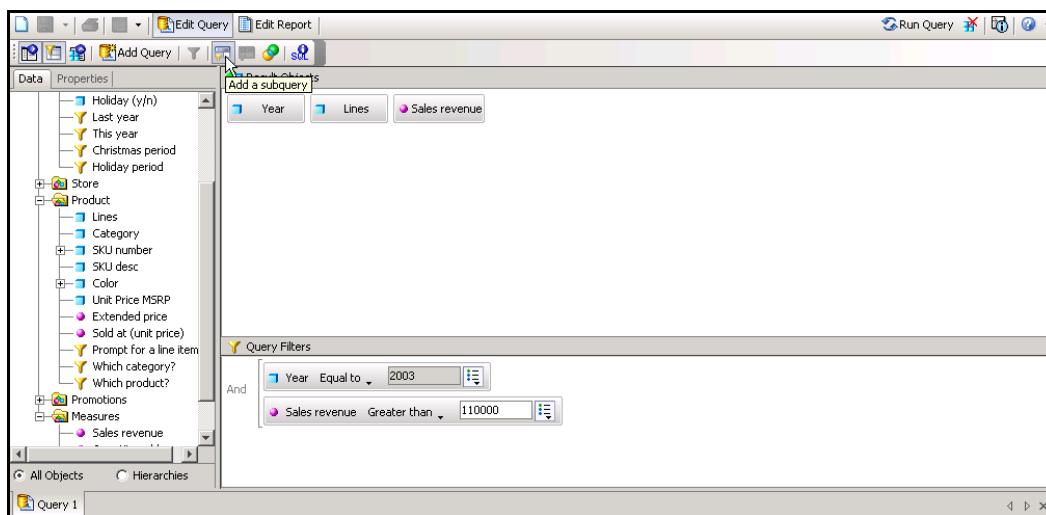


Figure 7: New Web Intelligence Document

Step 6: Drag the **Lines** object from the **Class and Objects** pane and build the **Sub-query** as shown in the figure given below.

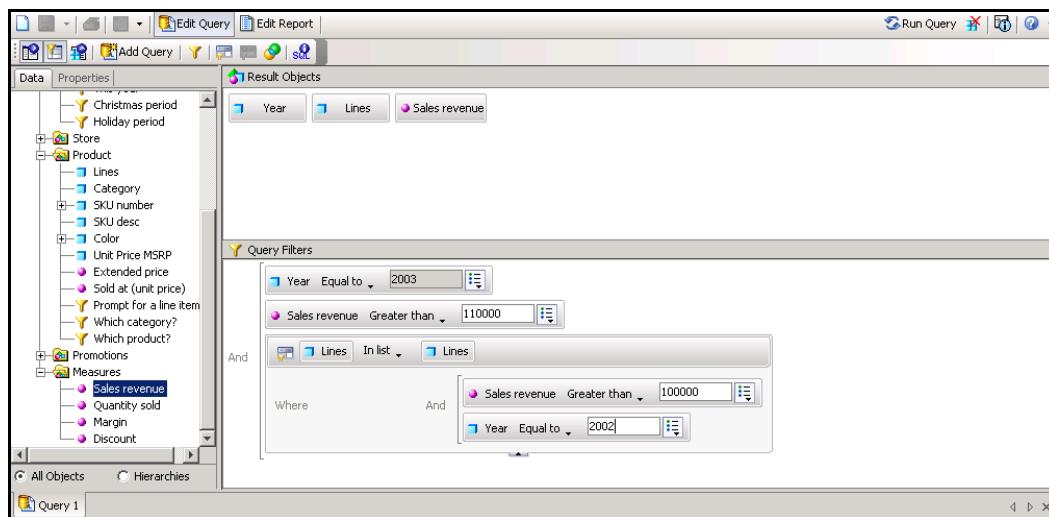


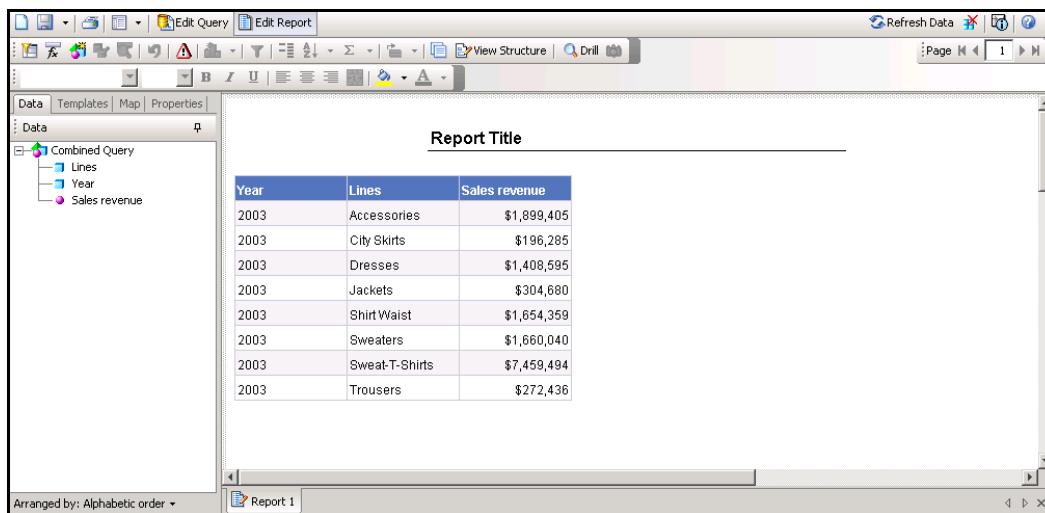
Figure 8: New Web Intelligence Document

Step 7: Click Run Query to view the report.



Figure 9: New Web Intelligence Document

The output of the report will be displayed as shown in the figure given below.



The screenshot shows the Business Objects Web Intelligence interface. On the left, there's a navigation pane with tabs for Data, Templates, Map, and Properties. Under the Data tab, a tree view shows a 'Combined Query' node expanded, containing 'Lines' and 'Year' nodes, and a 'Sales revenue' node. The main workspace is titled 'Report Title' and contains a table with the following data:

Year	Lines	Sales revenue
2003	Accessories	\$1,899,405
2003	City Skirts	\$196,285
2003	Dresses	\$1,408,595
2003	Jackets	\$304,680
2003	Shirt Waist	\$1,654,359
2003	Sweaters	\$1,660,040
2003	Sweat-T-Shirts	\$7,459,494
2003	Trousers	\$272,436

Figure 10: Output

Step 8: Save the document with the name as “**Sub-Query report**” under **Public Folders\Batch Code\Emp code** and log off.

Lab 3. Using String Handling Function

Goals	<ul style="list-style-type: none">• Use String Handling Functions.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	15 Minutes

3.1: Using String Handling Function

Solution:

Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2 :Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe:

Product \ Lines
Product \ Category
Product \ SKU desc
Measure \ Sales revenue

Step 4: In the **Web Intelligence Java Report Panel** window, build the prompts as shown below:

Store \ State Equal to Prompt
Time Period \ Year Equal to Prompt

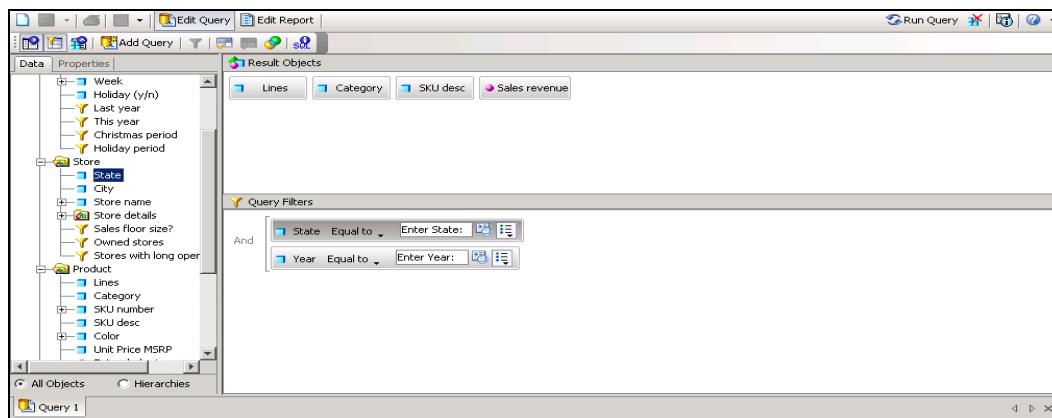


Figure 11: New Web Intelligence Document

Step 5: Click **Run Query** to view the document. The **Prompts** window will be displayed.

Step 6: In the **Prompts** window, key in the values for the prompts as shown in the figure given below.

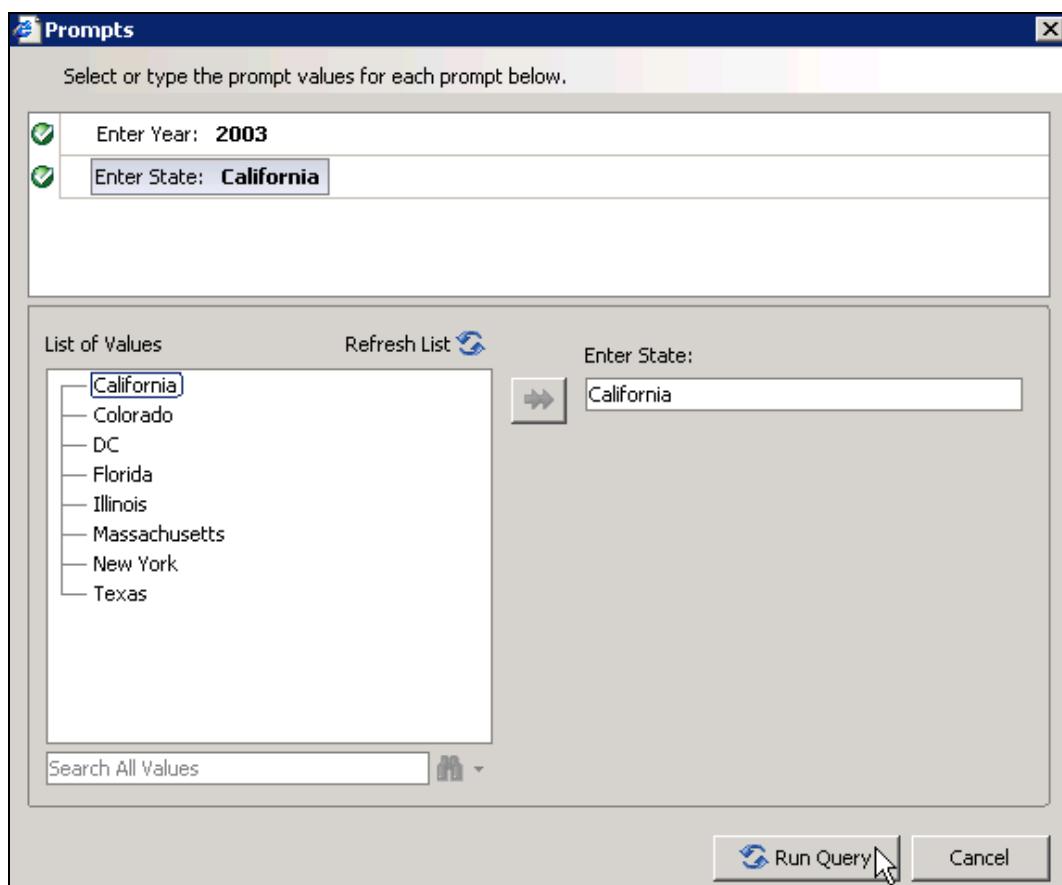
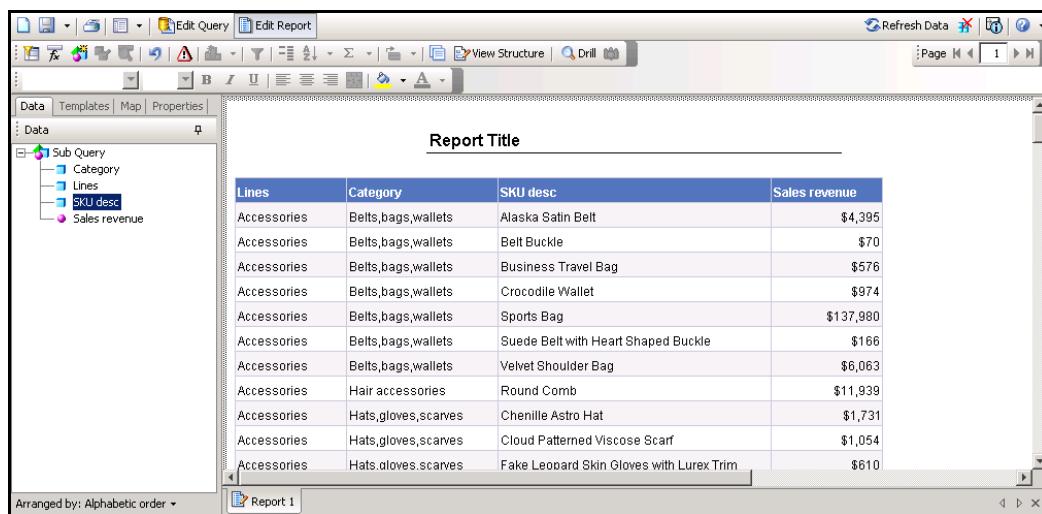


Figure 12: Prompts window

Step 7: The **Workspace** pane displays the output as shown in figure given below. This is the **Report View**.



Lines	Category	SKU desc	Sales revenue
Accessories	Belts,bags,wallets	Alaska Satin Belt	\$4,395
Accessories	Belts,bags,wallets	Belt Buckle	\$70
Accessories	Belts,bags,wallets	Business Travel Bag	\$576
Accessories	Belts,bags,wallets	Crocodile Wallet	\$974
Accessories	Belts,bags,wallets	Sports Bag	\$137,980
Accessories	Belts,bags,wallets	Suede Belt with Heart Shaped Buckle	\$166
Accessories	Belts,bags,wallets	Velvet Shoulder Bag	\$6,063
Accessories	Hair accessories	Round Comb	\$11,939
Accessories	Hats,gloves,scarves	Chenille Astro Hat	\$1,731
Accessories	Hats,gloves,scarves	Cloud Patterned Viscose Scarf	\$1,054
Accessories	Hats,gloves,scarves	Fake Leopard Skin Gloves with Lurex Trim	\$610

Figure 13: Report View

Step 8: Click the **Variable Editor** icon  on the Report Toolbar to open the **Variable Editor**.

Step 9: In the **Variable** pane, key in the **Variable Name** as “**Product Full Name**”; select the **Qualification** as “**Dimension**”.

Step 10: Create the **Variable** by writing the following formula:

=Concatenation(Concatenation([Category]; " -> "); [SKU desc])

Validate the formula by clicking the **Validate** icon .

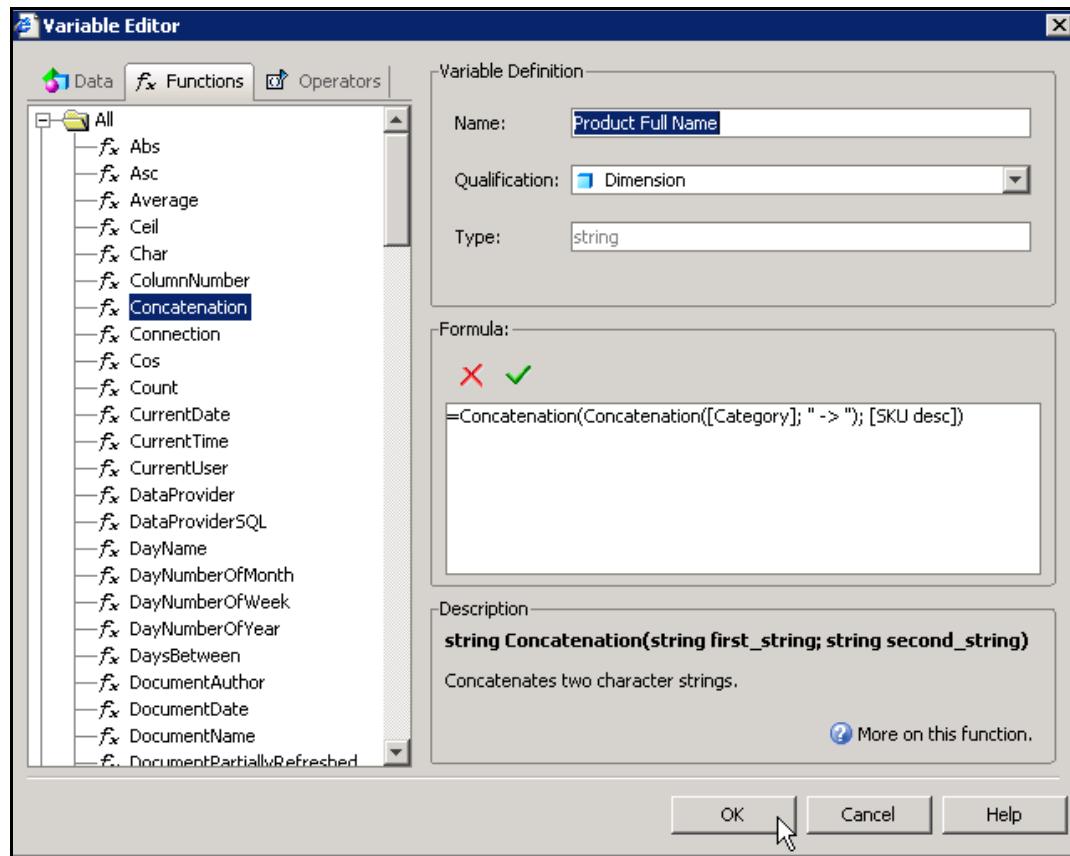
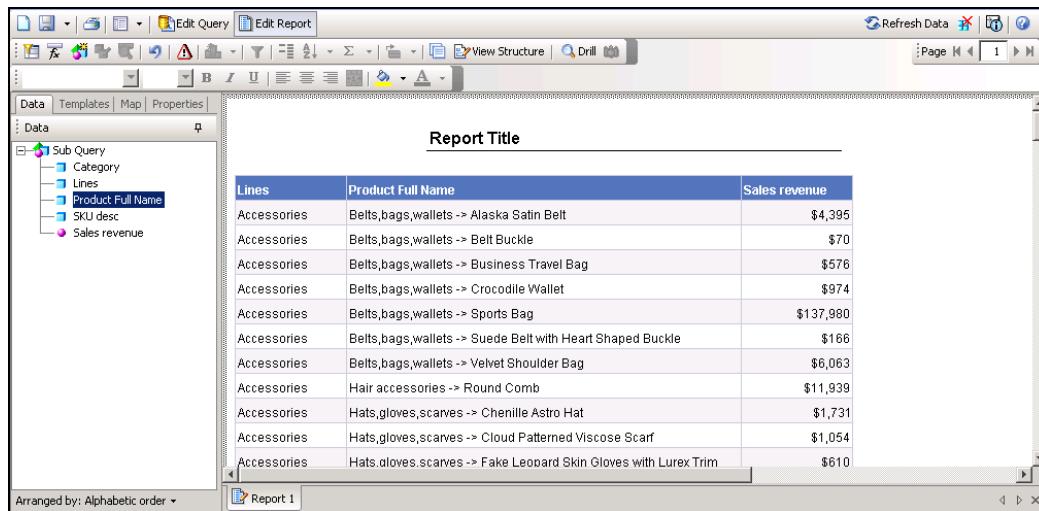


Figure 14: Variable Editor

Step 11: Click the **OK**. The variable is added to the **Variable** list in the **Data** tab. Click **Close** to exit the **Variable Editor**.

Step 12: Remove the **Category** and **SKU Desc** column from the report, and click the  icon available on the toolbar to insert a column after **Lines**. This will add a blank column.

Step 13: Drag the variable **Product Full Name** from the **Data** tab and drop it on the new blank column as shown in the figure given below.



Lines	Product Full Name	Sales revenue
Accessories	Belts,bags,wallets -> Alaska Satin Belt	\$4,395
Accessories	Belts,bags,wallets -> Belt Buckle	\$70
Accessories	Belts,bags,wallets -> Business Travel Bag	\$576
Accessories	Belts,bags,wallets -> Crocodile Wallet	\$974
Accessories	Belts,bags,wallets -> Sports Bag	\$137,980
Accessories	Belts,bags,wallets -> Suede Belt with Heart Shaped Buckle	\$166
Accessories	Belts,bags,wallets -> Velvet Shoulder Bag	\$6,063
Accessories	Hair accessories -> Round Comb	\$11,939
Accessories	Hats,gloves,scarves -> Chenille Astro Hat	\$1,731
Accessories	Hats,gloves,scarves -> Cloud Patterned Viscose Scarf	\$1,054
Accessories	Hats,gloves,scarves -> Faux Leopard Skin Gloves with Lurex Trim	\$610

Figure 15: Report

Step 14: View the document. Save the document with the name **Concatenated Product Name Report** and logoff.

Lab 4. Performing Logical Grouping of Values Using IF Function

Goals	<ul style="list-style-type: none">• Use IF Function to perform logical grouping.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	15 Minutes

4.1: Use IF Function to Perform Logical Grouping of Values

Solution:

Step 1: Logon to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Create a new Web Intelligence Document using the eFashion universe from the list of universes.

Step 3: Select the following objects from the universe:.

Product \ Lines

Store \ State

Measures \ Sales revenue

Step 4: Add a prompt **Time period \ Year** as shown in the figure given below.

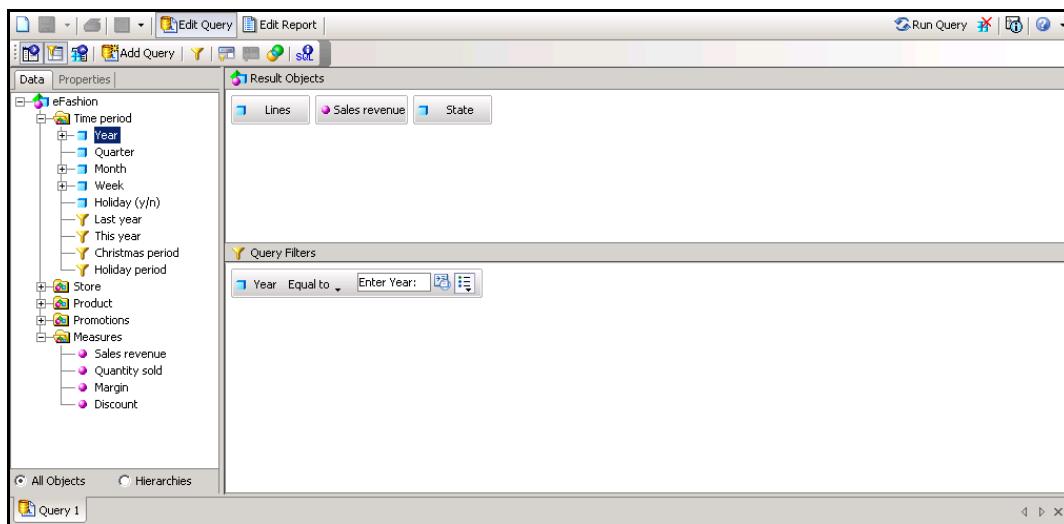


Figure 16: New Web Intelligence Document

Step 5: Click **Run Query** icon on the toolbar, the **Prompt** window will be displayed. Key in the value as shown in the figure given below.

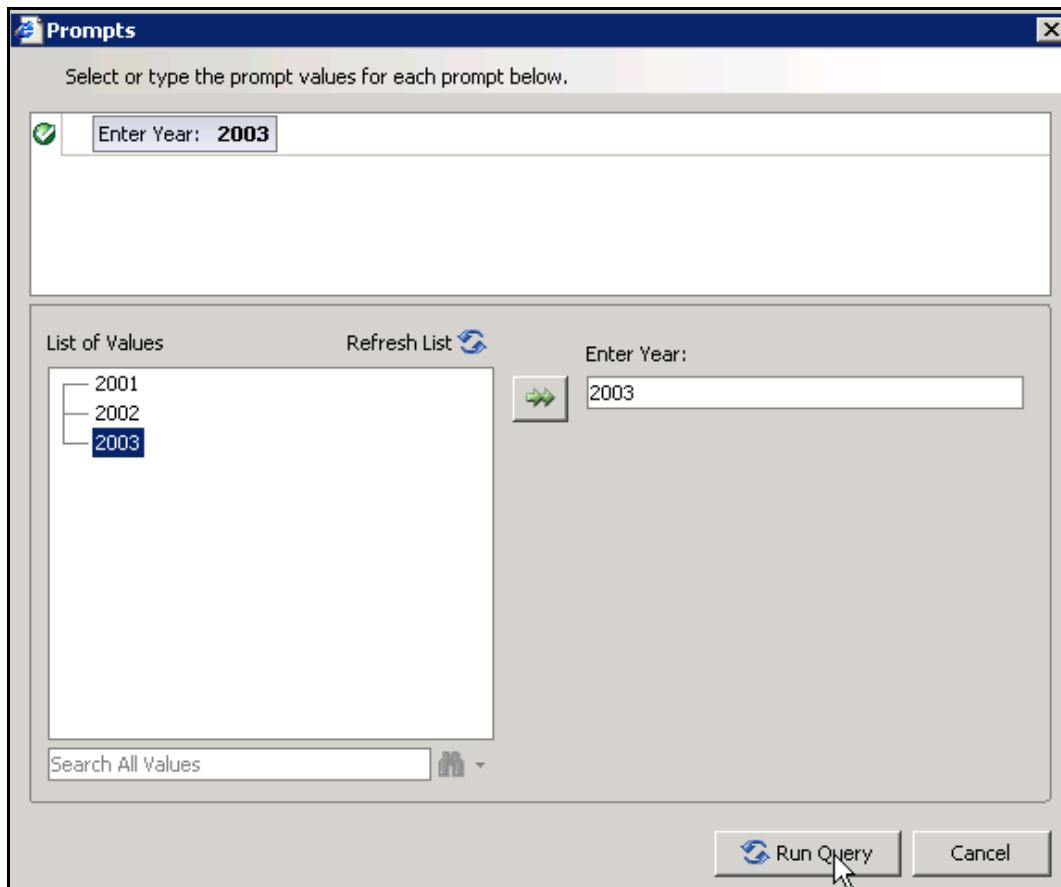
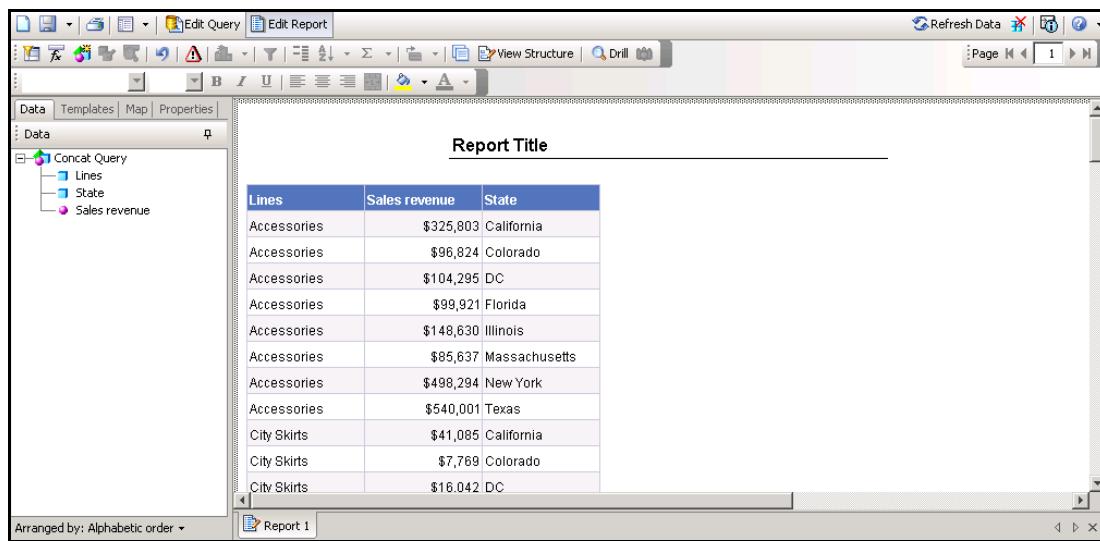


Figure 17: Prompts window

Step 6: Click the **Run Query** button.

Step 7: The output will be as displayed as shown in the figure given below.



Lines	Sales revenue	State
Accessories	\$325,803	California
Accessories	\$96,824	Colorado
Accessories	\$104,295	DC
Accessories	\$99,921	Florida
Accessories	\$148,630	Illinois
Accessories	\$85,637	Massachusetts
Accessories	\$498,294	New York
Accessories	\$540,001	Texas
City Skirts	\$41,085	California
City Skirts	\$7,769	Colorado
City Skirts	\$16,042	DC

Figure 18: New Web Intelligence Document

Step 8: Click the **Variable Editor** icon  to open the **Variable Editor**.

Step 9: Create a new variable with **Name** as *Region* and **Qualification** as *Dimension* and having a formula as follows:

```
=If([State] InList("Illinois"; "Colorado"); "Mid-West"; If([State] InList("Texas"; "Florida"); "South"; If([State] InList("Massachusetts"; "New York"; "DC"); "East"; "West")))
```

Click **Validate** icon  to validate the formula.

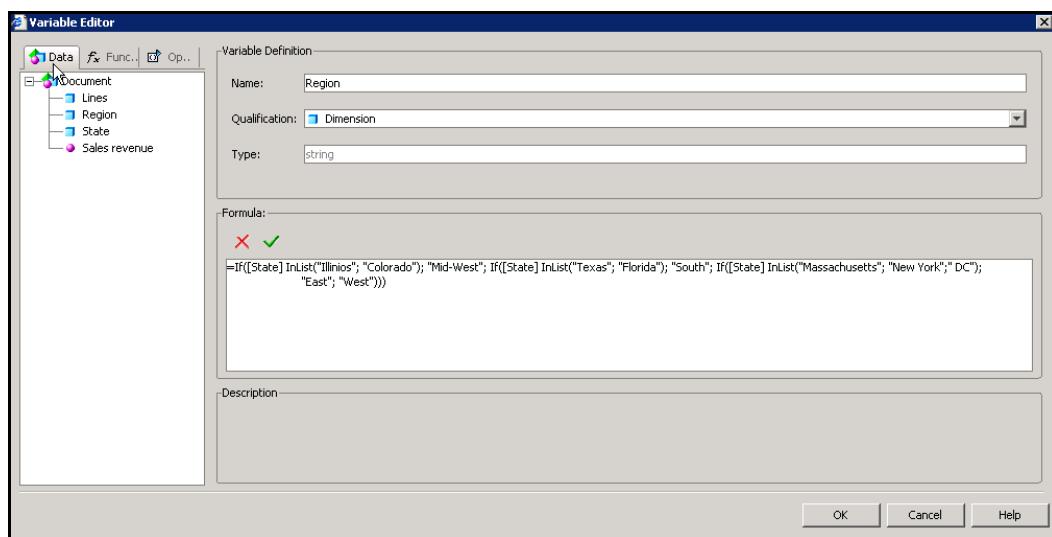
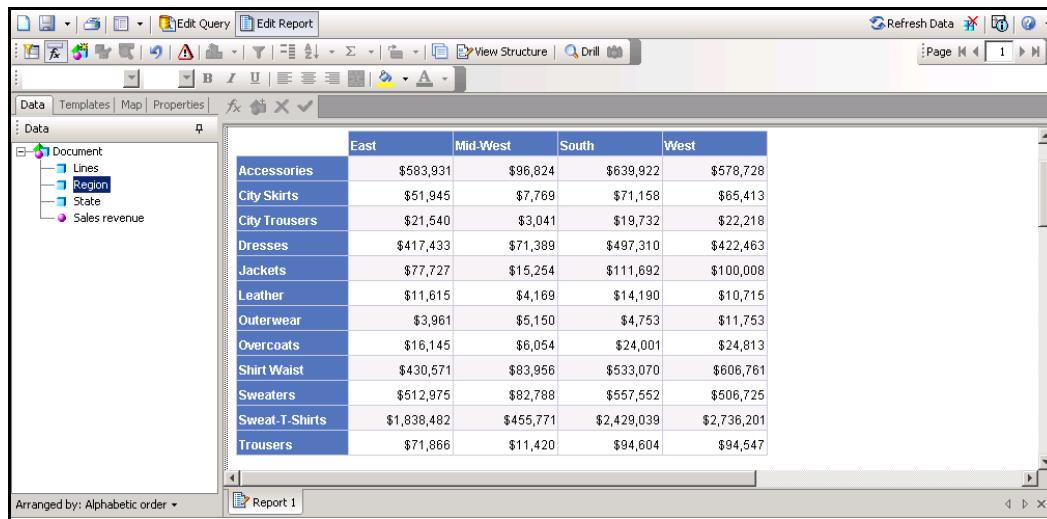


Figure 19: Variable Editor

Step 10: Click **OK** to close the **Variable Editor**.

Step 11: Replace the **State** column with **Region** object. Convert the report into crosstab as shown in the figure given below.



The screenshot shows the Web Intelligence interface with a crosstab report titled 'Report 1'. The report displays sales revenue by product category (Accessories, City Skirts, City Trousers, Dresses, Jackets, Leather, Outerwear, Overcoats, Shirt Waist, Sweaters, Sweat-T-Shirts, Trousers) across four regions (East, Mid-West, South, West). The data is as follows:

	East	Mid-West	South	West
Accessories	\$583,931	\$96,824	\$639,922	\$578,728
City Skirts	\$51,945	\$7,769	\$71,158	\$65,413
City Trousers	\$21,540	\$3,041	\$19,732	\$22,218
Dresses	\$417,433	\$71,389	\$497,310	\$422,463
Jackets	\$77,727	\$15,254	\$111,692	\$100,008
Leather	\$11,615	\$4,169	\$14,190	\$10,715
Outerwear	\$3,961	\$5,150	\$4,753	\$11,753
Overcoats	\$16,145	\$6,054	\$24,001	\$24,813
Shirt Waist	\$430,571	\$83,956	\$533,070	\$606,761
Sweaters	\$512,975	\$82,788	\$557,552	\$506,725
Sweat-T-Shirts	\$1,838,482	\$455,771	\$2,429,039	\$2,736,201
Trousers	\$71,866	\$11,420	\$94,604	\$94,547

Figure 20: New Web Intelligence Document

Step 12: Save the report with the name “**Analysis using IF function**” under **Favorites** and log off.

Lab 5. Applying Custom Sort

Goals	<ul style="list-style-type: none">• Use Custom Sort.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	15 Minutes

5.1: Use Custom Sort

Step 1: Log on to **InfoView**.

Step 2: Click the **New** drop-down arrow  Select the **Web Intelligence Document** option to create a new Web Intelligence document.

Step 3: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe:

Time period \ Month Name

Measure \ Sales revenue

Step 4: Add two prompts in the **Filter** pane. The prompts that should be added are as follows:

Time period \ Year Equal to Prompt

Store \ State Equals to Prompt

Step 5: Click **Run Query** to view the document. A **Prompts** window will be displayed.

Step 6: Key in the value(s) for both prompts as shown in the figure given below. Now click the **Run Query** button to view the report.

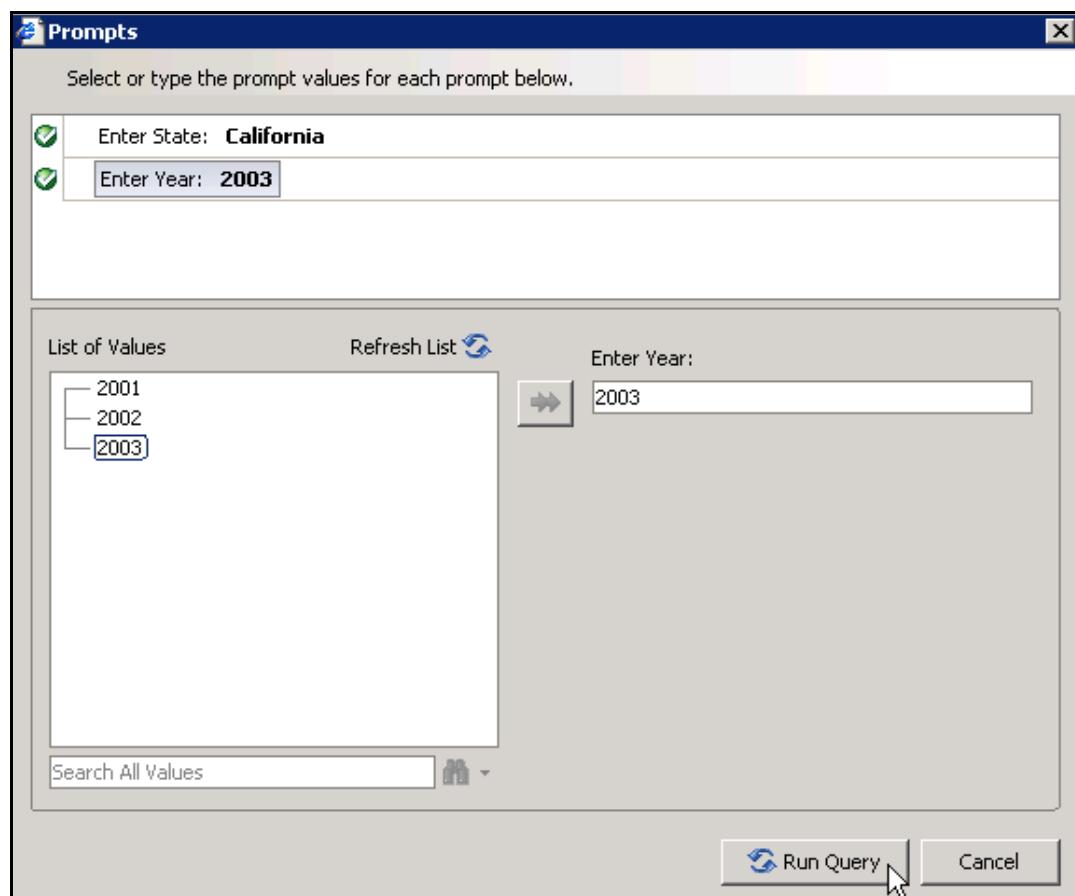
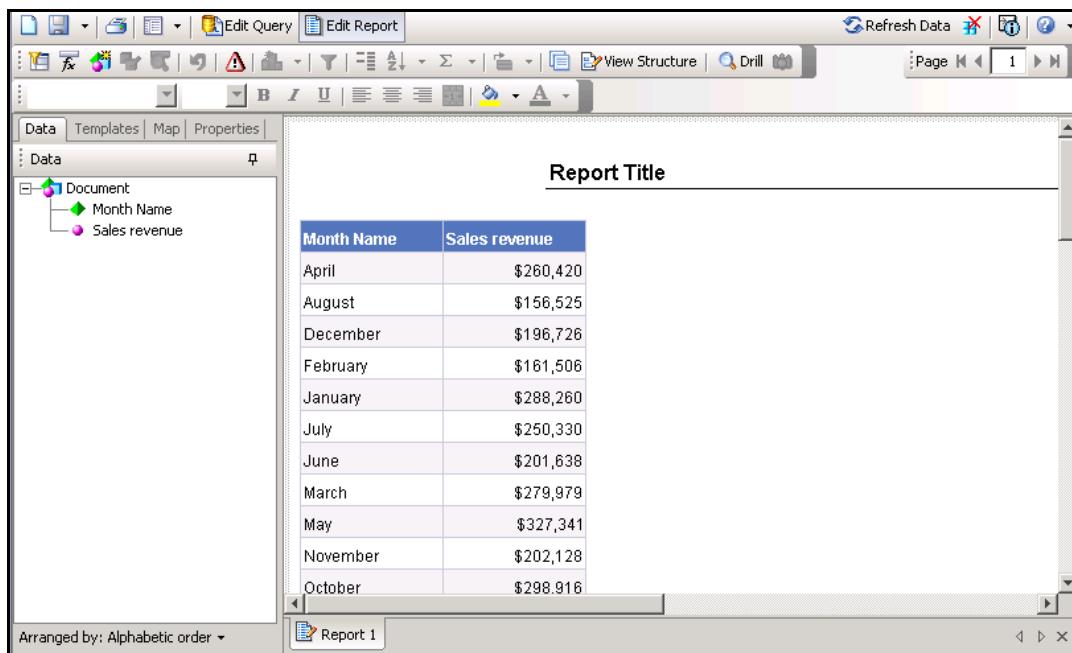


Figure 21: Prompts window



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Step 7: The output will be displayed as shown in the figure given below.



The screenshot shows a Business Objects Web Intelligence report interface. The title bar includes 'Edit Query' and 'Edit Report'. The toolbar has various icons for report navigation and data manipulation. On the left, a tree view under 'Data' shows a document node expanded to show 'Month Name' and 'Sales revenue'. The main area displays a table titled 'Report Title' with the following data:

Month Name	Sales revenue
April	\$260,420
August	\$156,525
December	\$196,726
February	\$161,506
January	\$288,260
July	\$250,330
June	\$201,638
March	\$279,979
May	\$327,341
November	\$202,128
October	\$298,916

Figure 22: Output

Step 8: Right-click the **Month Name** column and from pop-up menu, point to **Sort** and select **Custom** sort. This will display the **Custom Sort** window as shown below.

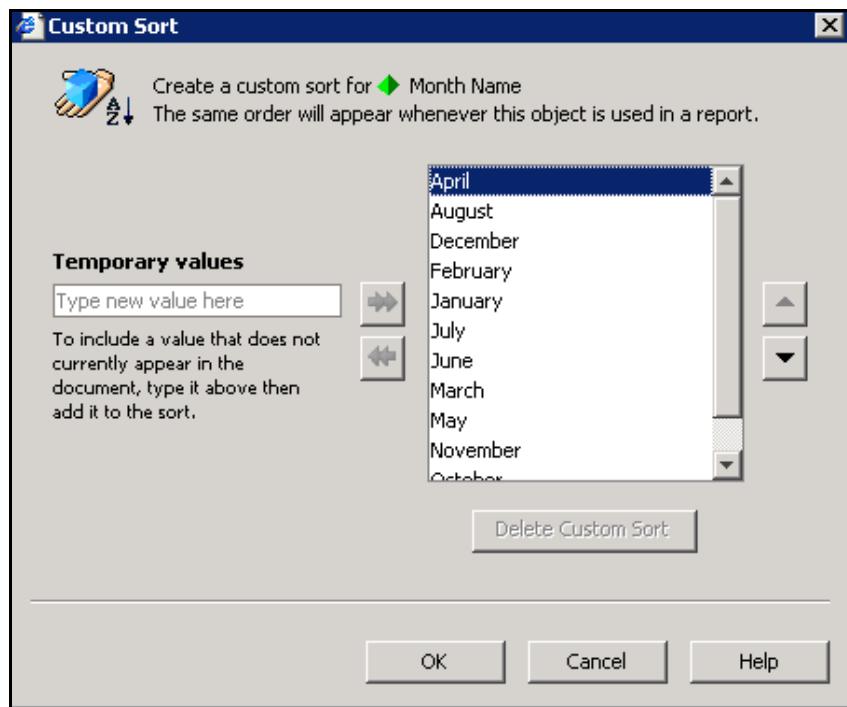


Figure 23: Custom Sort

Step 9: Change the order of Months by using the up and down arrows with respect to business requirement. Click **OK**.

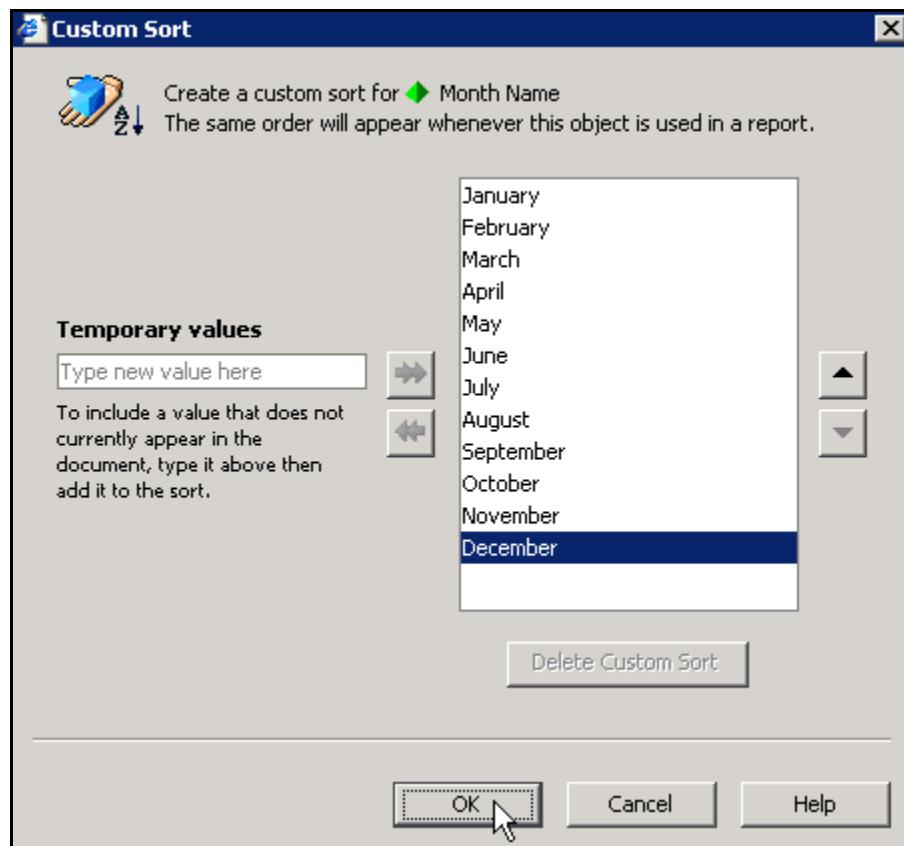
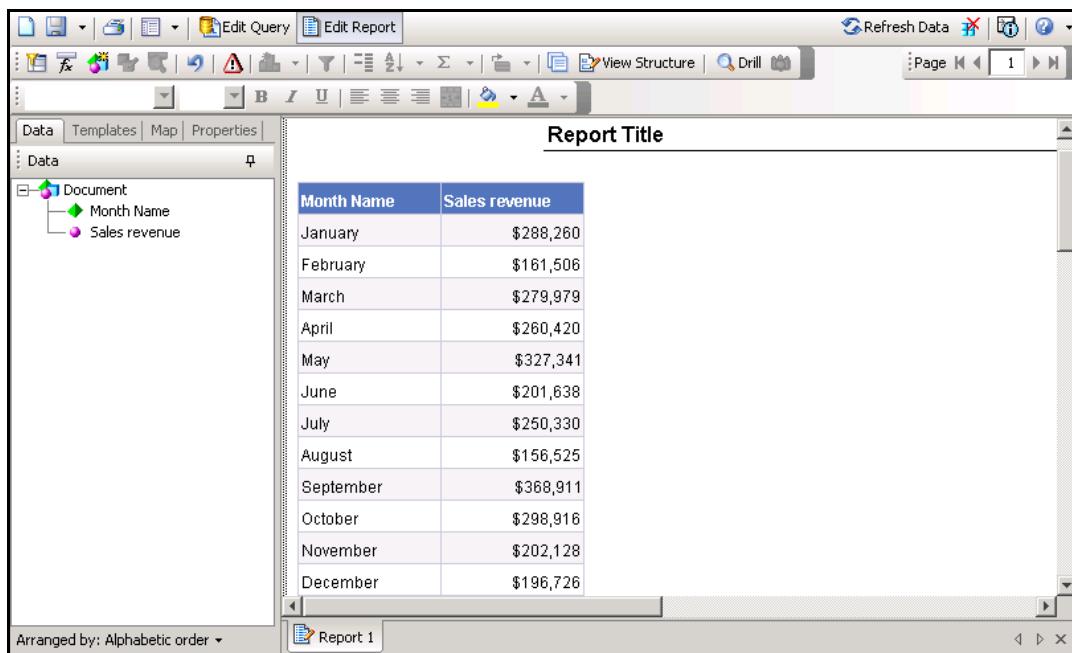


Figure 24: Custom Sort

Step 10: The output will be displayed as shown in the figure given below.



The screenshot shows the Business Objects Web Intelligence interface. The title bar reads "Report Title". The left pane displays a hierarchical tree structure under the "Data" tab, with "Document" expanded to show "Month Name" and "Sales revenue". The main pane contains a table with two columns: "Month Name" and "Sales revenue". The data is as follows:

Month Name	Sales revenue
January	\$288,260
February	\$161,506
March	\$279,979
April	\$260,420
May	\$327,341
June	\$201,638
July	\$250,330
August	\$156,525
September	\$368,911
October	\$298,916
November	\$202,128
December	\$196,726

Figure 25: Caption

Step 11: Click the **Save as** button on the toolbar. Save the document with the name "Report with Custom Sort" under **Public Folders\Batch Code\Emp code** and logoff.

Lab 6. Use Ranking to View Top Values

Goals	<ul style="list-style-type: none">• Use Ranking to View Top Values.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	30 Minutes

6.1: Use Ranking to View Top Values

Solution:

Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe

Product \ Lines

Time period \ Year

Measure \ Quantity Sold

Step 4: Add two prompt Filters in **Filter** pane. The Filters that should be added are as follows:

Time Period \ Year Equal to Prompt

Store \ State Equal to Prompt

A **Prompts** window will be displayed.

Step 5: From the **Prompts** window, select the values as shown in the figure given below.
Now click the **Run Query** button to view the report.

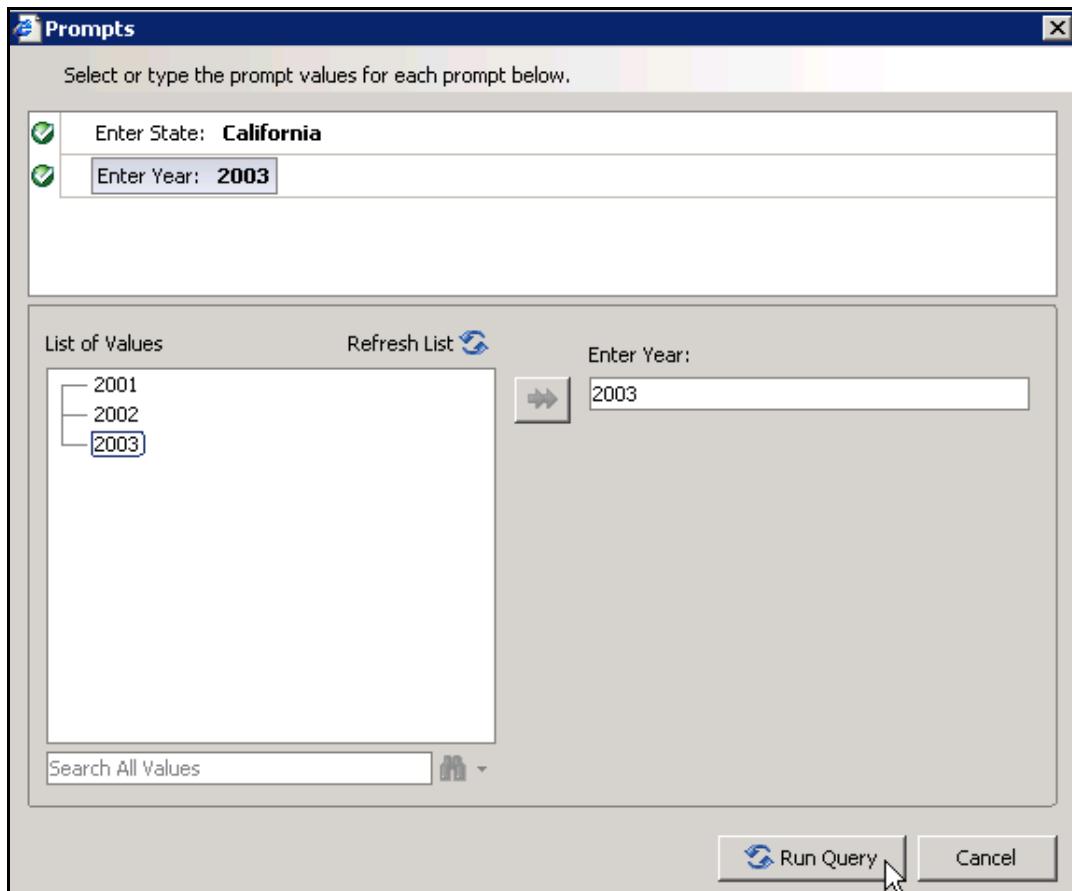
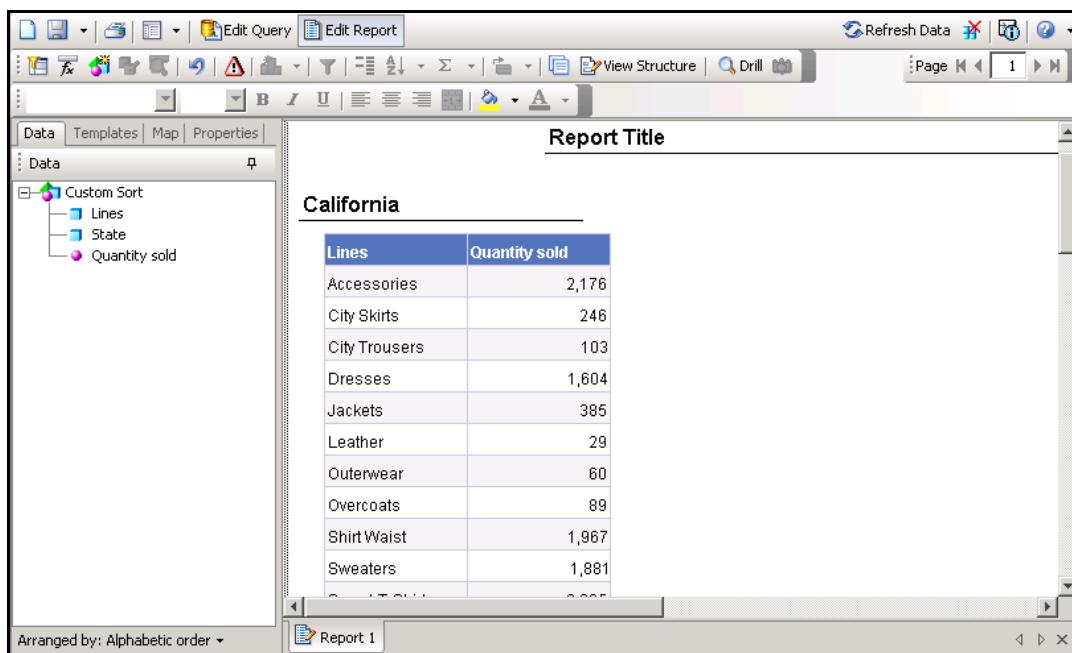


Figure 26: Prompts window

Step 6: In the output window set the **State** as “**Section**”. The output will be displayed as shown in the figure given below.



The screenshot shows the Business Objects Web Intelligence environment. The top menu bar includes 'Edit Query', 'Edit Report', 'Refresh Data', and other standard toolbar icons. The left sidebar has tabs for 'Data', 'Templates', 'Map', and 'Properties', with 'Data' selected. Under 'Data', there is a tree view with 'Custom Sort' expanded, showing 'Lines', 'State', and 'Quantity sold'. The main workspace is titled 'Report Title' and contains a section titled 'California'. Below it is a table with two columns: 'Lines' and 'Quantity sold'. The table data is as follows:

Lines	Quantity sold
Accessories	2,176
City Skirts	246
City Trousers	103
Dresses	1,604
Jackets	385
Leather	29
Outerwear	60
Overcoats	89
Shirt Waist	1,967
Sweaters	1,881
Grand Total	8,005

At the bottom of the workspace, it says 'Arranged by: Alphabetic order'. The status bar at the bottom indicates 'Report 1'.

Figure 27: Output

Step 7: Select the **Lines** column.

Step 8: Click the **Apply Ranking** button  on the Report toolbar. The **Rank** dialog box will be displayed, as shown in the figure given below.

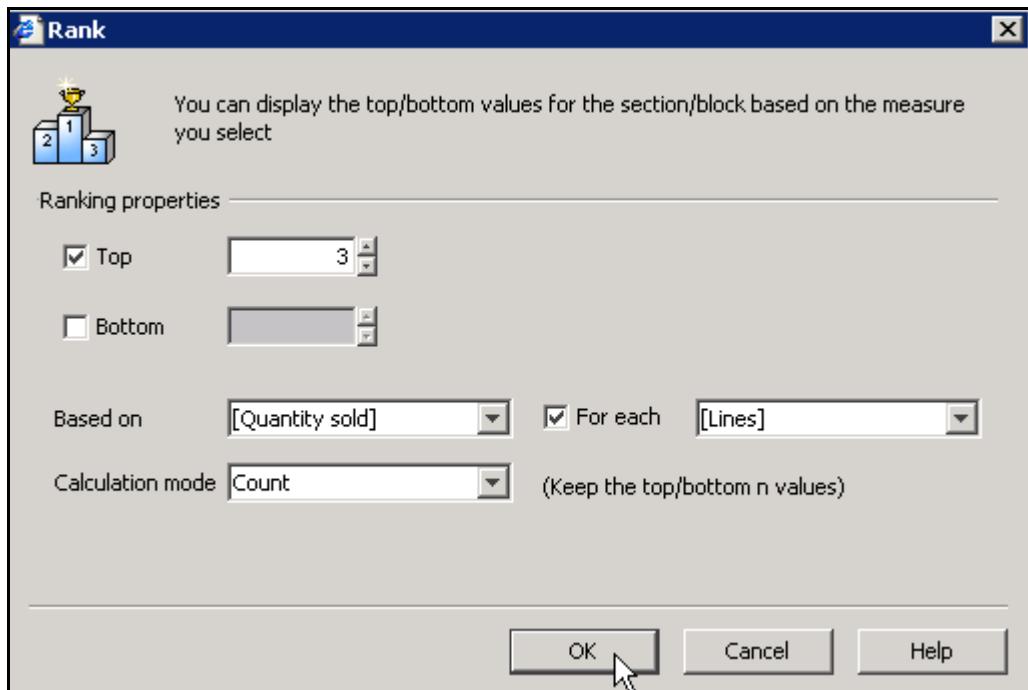
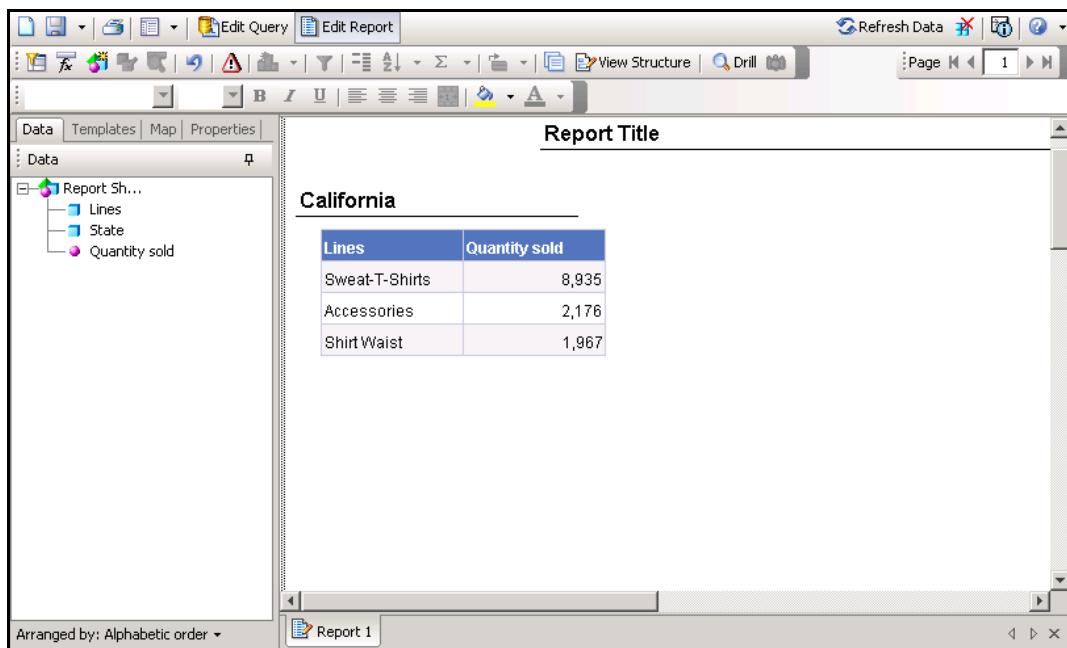


Figure 28: Rank

Step 9: Click **OK**. The output will be displayed as shown in the figure given below.



The screenshot shows the Business Objects Web Intelligence interface. The title bar includes 'Edit Query', 'Edit Report', 'Refresh Data', and navigation buttons. The left sidebar has tabs for 'Data', 'Templates', 'Map', and 'Properties', with 'Data' selected. Under 'Data', there's a tree view with 'Report Sh...' expanded, showing 'Lines', 'State', and 'Quantity sold'. The main area is titled 'Report Title' and contains a section titled 'California'. A table is displayed with the following data:

Lines	Quantity sold
Sweat-T-Shirts	8,935
Accessories	2,176
Shirt Waist	1,967

At the bottom, a status bar says 'Arranged by: Alphabetic order' and 'Report 1'.

Figure 29: Output

Step 10: Save the document with the name “**Report Showing Top 3 Lines**” under the **Public Folders\Batch Code\Emp code** and log off.

Lab 7. Context Setting (Input/Output Context)

Goals	<ul style="list-style-type: none">• Set the Input context.• (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	45 Minutes

7.1: Default Setting of the Context

Solution:

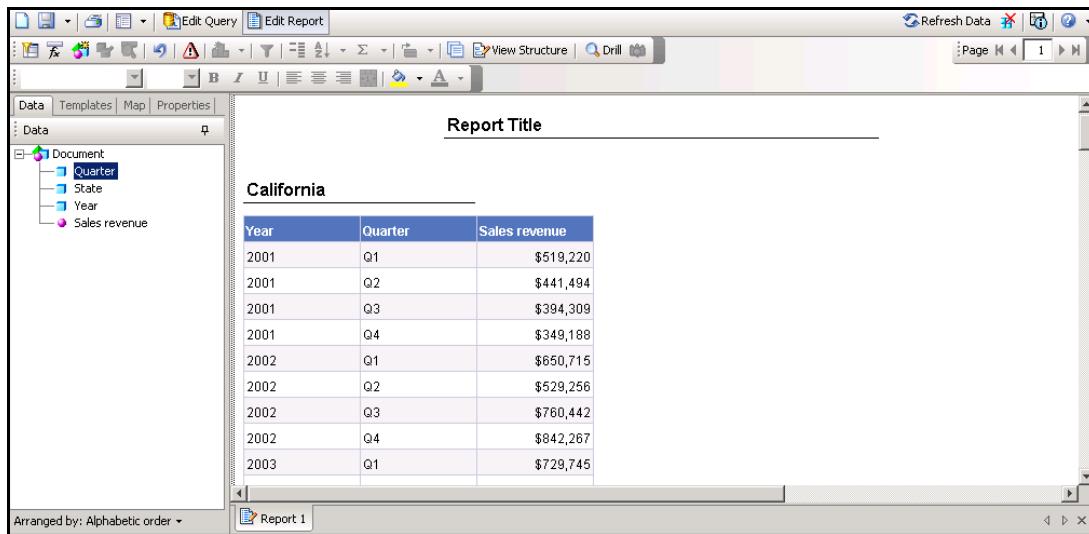
Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe

- Time period \ Year
- Time period \ Quarter
- Store \ State
- Measures \ Sales revenue

Step 4: Click **Run Query** to view the output. Adjust the output to obtain the output as shown in the figure given below.



The screenshot shows the Business Objects Web Intelligence interface. The title bar includes 'Edit Query', 'Edit Report', 'Refresh Data', and a page number '1'. The left sidebar has tabs for 'Data', 'Templates', 'Map', and 'Properties', with 'Data' selected. Under 'Data', there's a tree view with 'Document' expanded, showing 'Quarter', 'State', 'Year', and 'Sales revenue'. The main area is titled 'Report Title' and contains a table for 'California'. The table has columns 'Year', 'Quarter', and 'Sales revenue'. The data is as follows:

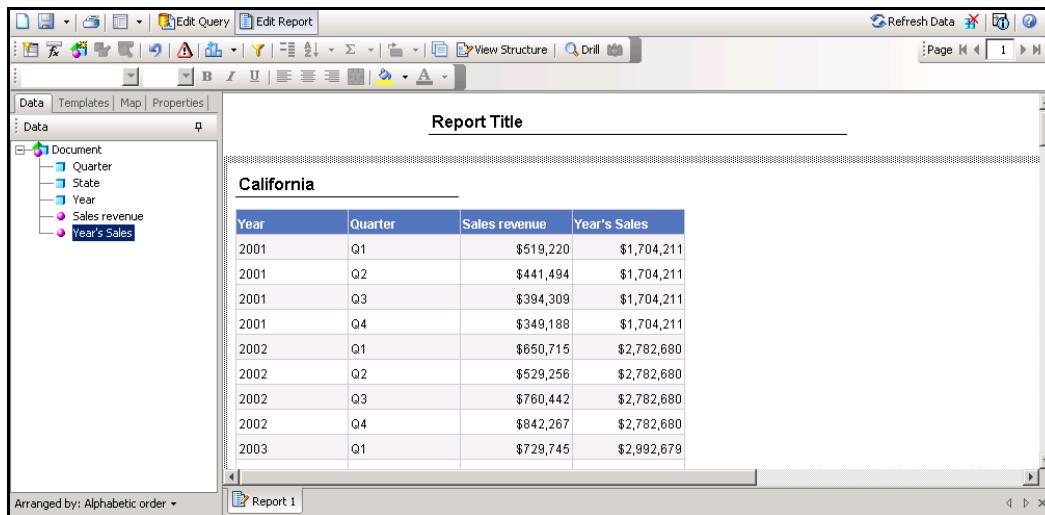
Year	Quarter	Sales revenue
2001	Q1	\$619,220
2001	Q2	\$441,494
2001	Q3	\$394,309
2001	Q4	\$349,188
2002	Q1	\$650,715
2002	Q2	\$529,256
2002	Q3	\$760,442
2002	Q4	\$842,267
2003	Q1	\$729,745

Figure 30: Output

Step 5: Click the **Variable editor** icon. Create a new variable “**Year Wise Sales**” and key in the following formula:

=Sum([Sales revenue] ForAll([Quarter]))

Step 6: Insert newly created object as a new column to the right of the **Sales revenue** column.



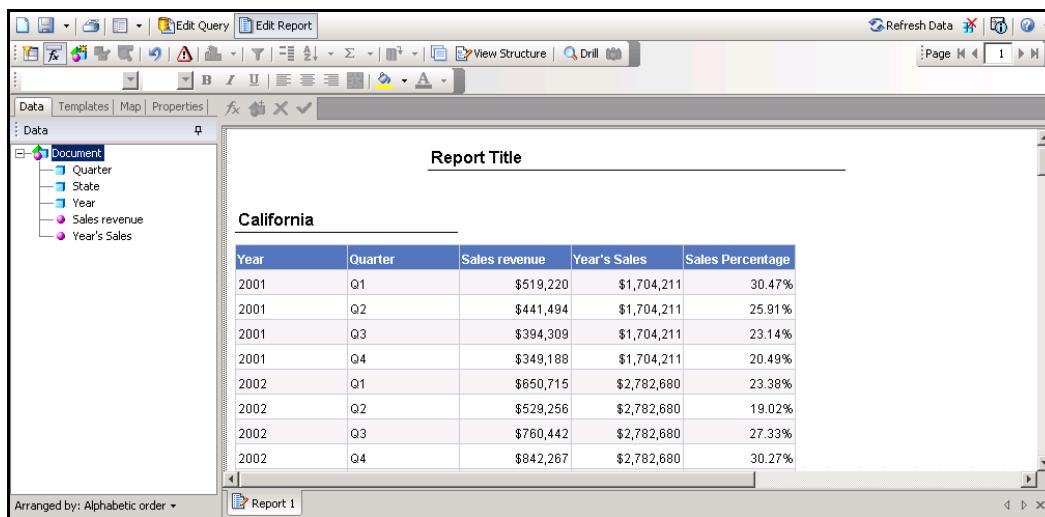
Report Title

California

Year	Quarter	Sales revenue	Year's Sales
2001	Q1	\$519,220	\$1,704,211
2001	Q2	\$441,494	\$1,704,211
2001	Q3	\$394,309	\$1,704,211
2001	Q4	\$349,188	\$1,704,211
2002	Q1	\$650,715	\$2,782,680
2002	Q2	\$529,256	\$2,782,680
2002	Q3	\$760,442	\$2,782,680
2002	Q4	\$842,267	\$2,782,680
2003	Q1	\$729,745	\$2,992,679

Figure 31: Report

Step 7: Insert a new column after **Year's Sales** variable. Add the formula to calculate **Sales Percentage** made in a Quarter. Set the format as shown in the figure given below.



Report Title

California

Year	Quarter	Sales revenue	Year's Sales	Sales Percentage
2001	Q1	\$519,220	\$1,704,211	30.47%
2001	Q2	\$441,494	\$1,704,211	25.91%
2001	Q3	\$394,309	\$1,704,211	23.14%
2001	Q4	\$349,188	\$1,704,211	20.49%
2002	Q1	\$650,715	\$2,782,680	23.38%
2002	Q2	\$529,256	\$2,782,680	19.02%
2002	Q3	\$760,442	\$2,782,680	27.33%
2002	Q4	\$842,267	\$2,782,680	30.27%

Figure 32: Report

Step 8: Save the report as at the **Public Folders\Batch Code\Emp code** location with the name **Using Input Contexts** and log off.

7.2: Use the Rank Function and set the context

Solution:

Step 1: Log on to **InfoView**. A **Welcome screen** will be displayed.

Step 2: Create a new Web Intelligence Document using the **eFashion** universe from the list of universes.

Step 3: Select the following objects from the universe

- Time period \ Year
- Time period \ Quarter
- Product \ Lines
- Measures \ Sales revenue

Step 4: Perform the necessary steps to create a crosstab report as shown below.

Report Title				
2001				
	Q1	Q2	Q3	Q4
Accessories	\$1,138,127	\$1,035,073	\$307,103	\$65,919
City Skirts	\$9,850	\$1,894	\$1,683	\$35,347
City Trouzers	\$16,264	\$2,138	\$9,749	\$45,671
Dresses	\$136,431	\$47,633	\$76,501	\$289,066
Jackets	\$54,809	\$36,700	\$20,995	\$33,694
Leather	\$14,806	Discontinued	\$22,350	\$16,139
Outerwear	\$40,905	\$160,967	\$142,527	\$7,616
Overcoats	\$19,539	\$149	\$20,580	\$81,294
Shirt Waist	\$240,476	\$162,007	\$180,886	\$401,358
Sweaters	\$204,775	\$93,648	\$43,718	\$62,254
Sweat-T-Shirts	\$751,038	\$697,470	\$445,418	\$697,969
Trousers	\$33,679	\$41,324	\$96,330	\$52,254

2002				
-------------	--	--	--	--

Step 5: Give the report title as ‘Product Line Wise Sales Revenue For Each Quarter’

Step 6: Select the Quarterly Ranking report tab. Insert a new column to the right of Quarters column. Specify the heading of the column as Rank.

Step 7: Select the data cell of the Rank column and in the formula bar enter the following formula to Rank the Departments Code based on At Completion Total Cost.

=Rank([Sales revenue];[Lines])

Make the formatting of the cell to display only numbers with center alignment. The output will appear as shown in the figure below.

Product Line Wise Sales Revenue For Each Quarter									
2001									
	Q1	Rank	Q2	Rank	Q3	Rank	Q4	Rank	
Accessories	\$1,138,127	2	\$1,035,073	2	\$307,103	2	\$65,919	2	
City Skirts	\$9,850	12	\$1,894	12	\$1,683	12	\$35,347	12	
City Trousers	\$16,264	10	\$2,138	10	\$9,749	10	\$45,671	10	
Dresses	\$136,431	4	\$47,633	4	\$76,501	4	\$289,066	4	
Jackets	\$54,809	8	\$36,700	8	\$20,995	8	\$33,694	8	
Leather	\$14,806	11	Discontinued	11	\$22,350	11	\$16,139	11	
Outerwear	\$40,905	6	\$160,967	6	\$142,527	6	\$7,616	6	
Overcoats	\$19,539	9	\$149	9	\$20,580	9	\$81,294	9	
Shirt Waist	\$240,476	3	\$162,007	3	\$180,886	3	\$401,358	3	
Sweaters	\$204,775	5	\$93,648	5	\$43,718	5	\$62,254	5	
Sweat-T-Shirts	\$751,038	1	\$697,470	1	\$445,418	1	\$697,969	1	
Trousers	\$33,679	7	\$41,324	7	\$96,330	7	\$52,254	7	

2002									
------	--	--	--	--	--	--	--	--	--

Observe the output. Is it correct output?

Step 7: Perform the necessary steps to get the correct output as shown below.

2001						
	Q1	Rank	Q2	Rank	Q3	Rank
Accessories	\$1,138,127	1	\$1,035,073	1	\$307,103	2
City Skirts	\$9,850	12	\$1,894	10	\$1,683	12
City Trousers	\$16,264	10	\$2,138	9	\$9,749	11
Dresses	\$136,431	5	\$47,633	6	\$76,501	6
Jackets	\$54,809	6	\$36,700	8	\$20,995	9
Leather	\$14,806	11	Discontinued		\$22,350	8
Outerwear	\$40,905	7	\$160,967	4	\$142,527	4
Overcoats	\$19,539	9	\$149	11	\$20,580	10
Shirt Waist	\$240,476	3	\$162,007	3	\$180,886	3
Sweaters	\$204,775	4	\$93,648	5	\$43,718	7
Sweat-T-Shirts	\$751,038	2	\$697,470	2	\$445,418	1
Trousers	\$33,679	8	\$41,324	7	\$96,330	5

Step 8: Save the report as at the **Public Folders\Batch Code\Emp code** location with the name **Year Wise Comparative Sales with Ranking** and log off.

Lab 8. Manage Data Providers

Goals	<ul style="list-style-type: none"> • Rename the existing Data Provider • Create a new data provider • Create a Report by combining objects from two data providers • Link the data providers to create a report taking the data from both the data providers • (Ensure the login details for connecting to Web Intelligence prior to starting the current lab.)
Time	30 Minutes

8.1: Create a Universe based on Oracle table

Solution:

Step1: Create a table as Budget in Oracle with the following structure and data.

Year	Quarter	Sales revenue
2001	Q1	\$2,650,000.00
2001	Q2	\$2,280,000.00
2001	Q3	\$1,350,000.00
2001	Q4	\$1,790,000.00
2002	Q1	\$3,325,000.00
2002	Q2	\$2,850,000.00
2002	Q3	\$2,280,000.00
2002	Q4	\$4,175,000.00
2003	Q1	\$3,750,000.00
2003	Q2	\$4,010,000.00
2003	Q3	\$4,000,000.00
2003	Q4	\$3,350,000.00

Step2: Create a universe in Designer based on the above table.

Step3: Create a new WEBI report based on the above Universe.

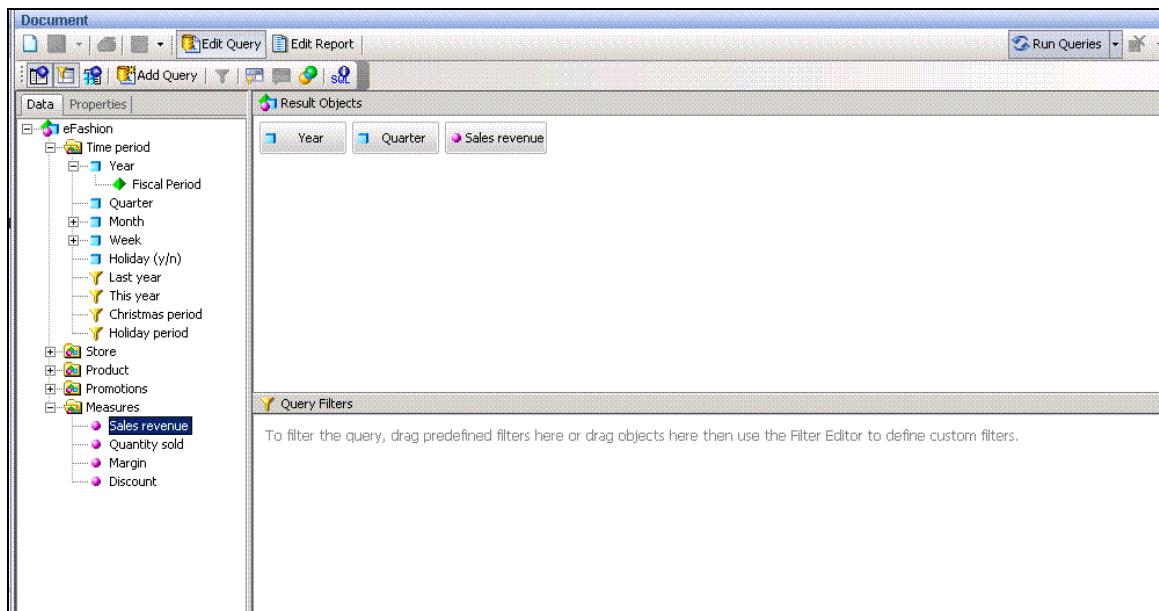
Step 4: Click on the properties Tab and in the Query Properties give the Name of the Query as Budget.

Step 5: Run the report.

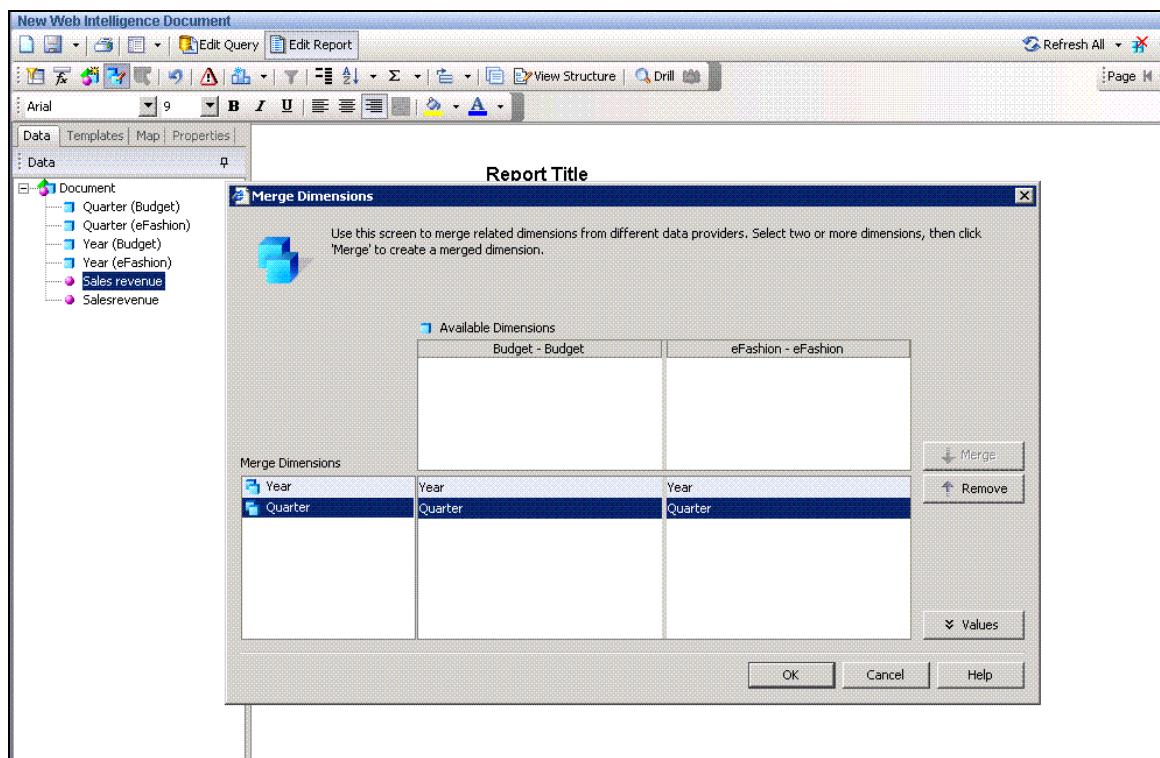
Step 6: Select **Edit Query** and Click on **Add Query** icon on the toolbar. Select the eFashion universe and Select the fields Year, Quarter and Sales Revenue.

Step 7: Click on the properties Tab and in the Query Properties give the Name of the Query as eFashion

Step 7: Run the Query.



Step 8: In the New Query Dialog Box, select '**Include the result objects in the document without generating a table**'.

Step 9: Click on **Merge Dimensions** and Merge **Year** and **Quarter**.

Step 10: View the report and save it.

Year	Quarter	Salesrevenue	Sales revenue
2001	Q1	2,650,000	\$2,660,700
2001	Q2	2,280,000	\$2,279,003
2001	Q3	1,350,000	\$1,367,841
2001	Q4	1,790,000	\$1,788,580
2002	Q1	3,325,000	\$3,326,172
2002	Q2	2,850,000	\$2,840,651
2002	Q3	2,280,000	\$2,879,303
2002	Q4	4,175,000	\$4,186,120
2003	Q1	3,750,000	\$3,742,989
2003	Q2	4,010,000	\$4,006,718
2003	Q3	4,000,000	\$3,953,395
2003	Q4	3,350,000	\$3,356,041

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