
Oracle BIEE 11g Reports and Dashboard Hands On

Vlamis Software Solutions is one of the most respected training organizations in the Oracle Business Intelligence community because our training programs and materials are informed by our experience leading implementations in many of the world's foremost corporations. Through our roles as implementers, beta testers, and trainers, we develop and codify many of the "best practices" that are propagated throughout the industry. Our training materials reflect this expertise and are centered on hands-on exercises that build confidence and competence. With more than 200 Oracle BI implementations under our banner, our trainers are not just presenters, but accomplished consultants who incorporate their real world experience into the classroom ensuring that participants are optimally prepared. This Hands-on Lab is an excerpt from our OBIEE 11g classroom / web-based class.



Oracle BIEE 11g Report and Dashboard Hands On

The Oracle BI Answers and Dashboards are the reporting components of the Oracle Business Intelligence environment.

This Hands on will consist of 2 1 hour sessions covering the following:

Part One

Overview of What's New

The New Analysis Look and Feel

Answers – New Features

Lesson #1 Working with New Column Types

Graphs New Features

Lesson #2 Working with New Graphs

Part Two

Using Maps – A whole new world!

Lesson #3 – Using Maps

Prompts – New Features

Lesson #4 Working with Prompts

Dashboards Putting it All Together

Lesson #5 Building Dashboards



- Founded 1992
 - Focused on Oracle technology since 1995
 - Experienced consultants with over 200 BI implementations
 - Award winning authors and educators
 - Aggressive adopters of the latest technologies
 - Connected with Oracle product management and developers
 - Efficient implementers by working offsite to reduce costs
 - Team-oriented collaborative approach
 - Respected reputation for ethical business practices
- Training
- Training available for on-site, web, and CBT
 - OBIEE 10g to OBIEE 11g Upgrading and New Features
 - OBIEE 11g/10g - Ad-hoc Query and BI Answers
 - OBIEE 11g/10g - BI Dashboards and Delivers
 - OBIEE 11g/10g - Administration and Metadata Development
 - BI Publisher for OBIEE 11g/10g
 - Oracle OLAP

www.vlamiS.com (blog, papers, newsletters, services)



OBIEE 11g Architecture

What has changed?

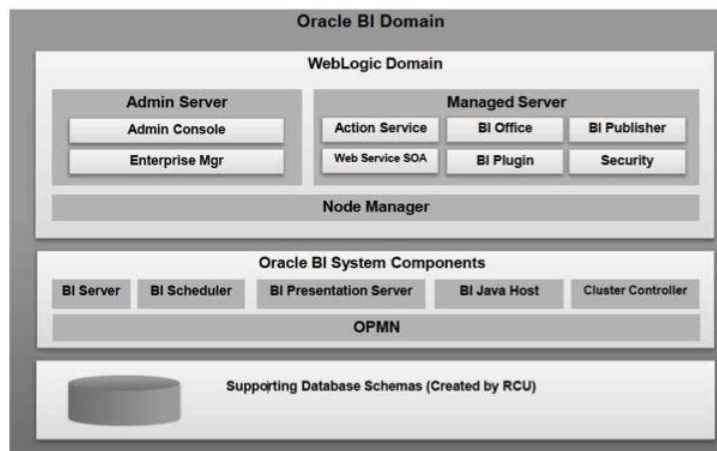
- Weblogic replaces OC4J and OAS
- Security is now done with Weblogic
- Servers now stay up!
- RPD and Webcat management done in Enterprise Manager (Weblogic)
- Can now setup and administrate shared servers

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OBIEE 11g Architecture

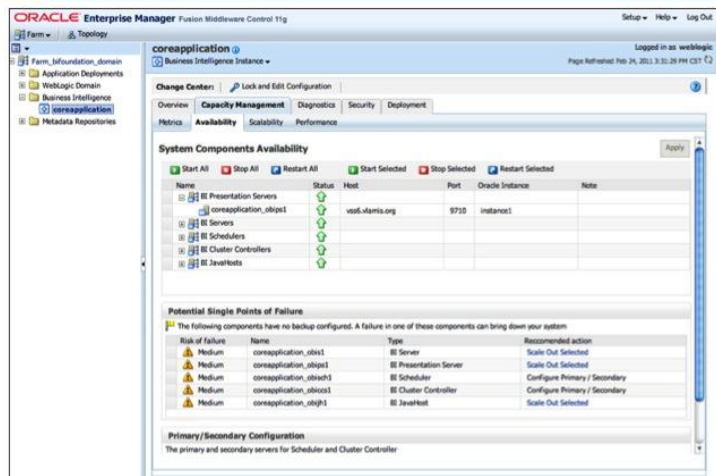


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Enterprise Manager 11g



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New Answers, Dashboards and BI Publisher Features

New Features

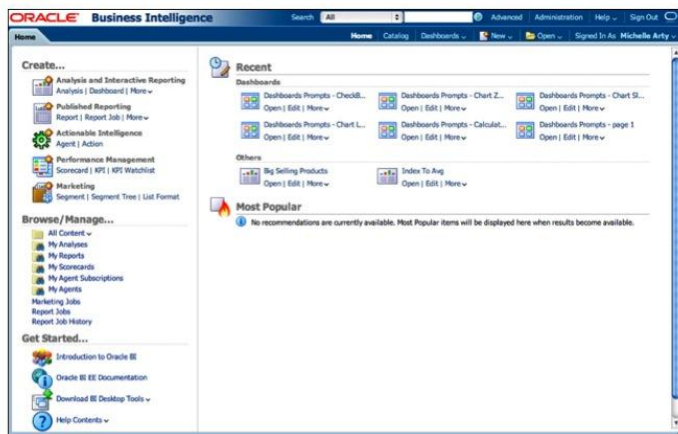
- Unified Framework
- Column Types
 - Interaction
 - Selection steps
 - Groups
 - Calculated Items
- Unified Prompting
- New Graph Features
- Maps
- BI Publisher Integration and Web Editor

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New Home Page



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Answers 11g Overview

- Improved support for OLAP-style reporting
 - Hierarchical columns
 - Support for ragged and skip-level hierarchies
 - Dynamic re-arrangement of pivot tables in the dashboard
- Dynamic grouping and custom aggregates
- New Prompts
- New dashboard controls
- New gauge types and graphics

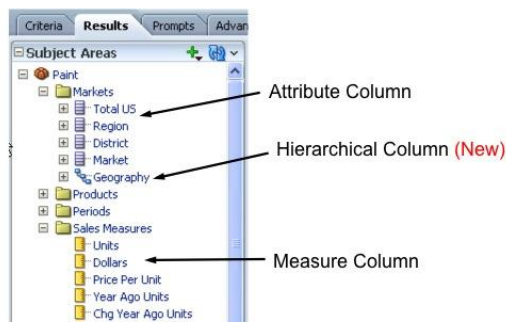


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OBIEE Column Types



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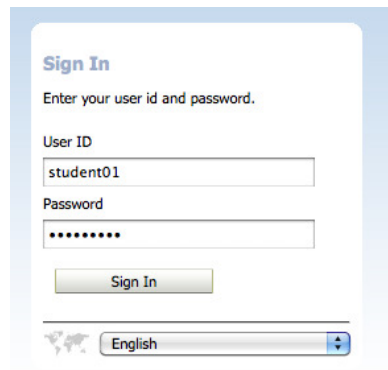
Lesson 1 – Using the New Hierarchical Columns

Exercise 1a: Creating a query

In this lesson, you will

1. Create a simple query in Answers
2. Apply filters to the query
3. Format the query

Use your browser to reach [http:// 23.23.195.238:7001/analytics](http://23.23.195.238:7001/analytics), and enter **studentXX** (ex. student01) as the username where XX is the ID given on the first page of this document. The password will be shown on the overhead or given to you by the instructor.



Sign In

Enter your user id and password.

User ID
student01

Password
.....

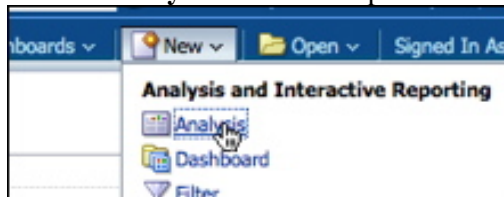
English

Scenario

Build an Analysis that will show Revenue by Office by Time. The Offices Total value should be the aggregate of all Companies but only display the Companies that have Revenue greater than \$5,100,000 for year 2008.

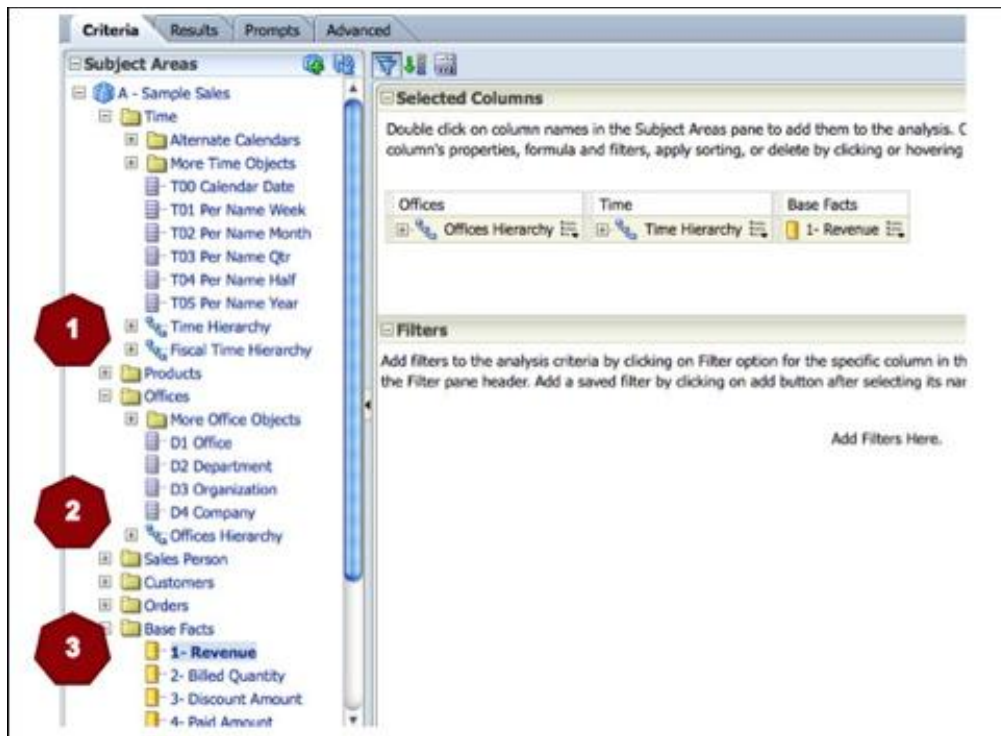
Create a Query

Click the **New->Analysis** link at the top of the screen to navigate to the Answers start page.



Click on the **A - Sample Sales** subject area link.





1. In the left-hand selection pane of the Answers interface, click the Plus icon next to **Time Dimension** to drill down and see the columns associated with the **Time** dimension. Click the **Time Hierarchy** column to add it to your query criteria, which appears in the right pane.
2. Click the Plus icon next to **Offices Dimension** to drill down and see the columns for the **Offices** dimension. Click the **Offices Hierarchy** column to add it to your query criteria.
3. Finally, drill on **Base Facts** and add the **Revenue** column. Click on the Results Tab. Your query should look like this:

Compound Layout

Title		
Pivot Table		
		1- Revenue
Offices Hierarchy	Time Hierarchy	
Corporate Total	Total Time	50,000,000

Filtering Data

Exercise 1b:Using Selection Steps

In addition to traditional Filters OBIEE11g now has Selection Steps. We will use Selection steps to choose the correct Offices to display.

Selection Steps

List: ALL

Measures

Base Facts - 1- Revenue

Offices - Offices Hierarchy

1. Start with all members

↓ 2. [Then, New Step...](#)

Time - Time Hierarchy

1. Start with all members

↓ 2. [Then, New Step...](#)

Under Office Click “Then, New Step” and add a Condition Step with the following information:

Revenue > 5100000 for year 2008

Offices - Offices Hierarchy

1. Start with All members

2. Then, Keep only Members of **Company** WHERE "A - Sample Sales"."Base Facts"."1- Revenue" > '5100000'

↓ 3. [Then, New Step...](#)

Edit Condition Step - Offices

Condition Type X>=Value

Action Keep only Company

WHERE

Measure "Base Facts"."1- Revenue"

For

Column	Members
"Time".Time Hierarchy	2008

☐ Override with Prompt

Operator Greater than (>)

Value 5100000

☐ Override with Prompt

Help OK Cancel

Your query should look like this:

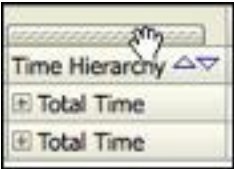
Compound Layout

Title		
Pivot Table		
		1- Revenue
Offices Hierarchy	Time Hierarchy	
⊕ Genmind Corp	⊕ Total Time	16,792,560
⊕ Tescare Ltd.	⊕ Total Time	19,641,040

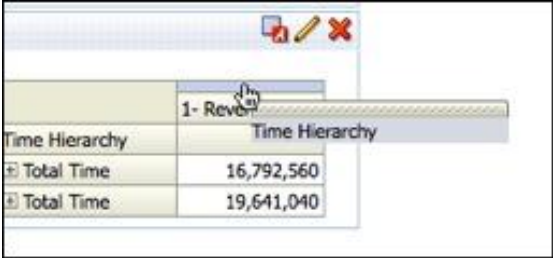
Exercise 1c: Pivot Table and Hierarchies

Now lets work with the Pivot Table. One new Feature of is the ability to Drag and Drop columns on Pivot Tables.

If you highlight the Time Hierarchy column you will see a Grey Tab Show up (and the mouse pointer will change to a hand):



Now Grab the Tab and Drag it on top of the Revenue Column



The display will now show this:

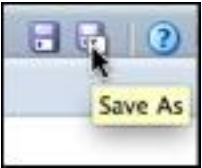
	Total Time
	1- Revenue
Offices Hierarchy	
Genmind Corp	16,792,560
Tescare Ltd.	19,641,040

Click the + next to Total Time to Expand the Time Dimension and your Display should look like this:

	Total Time			
		2008	2009	2010
	1- Revenue	1- Revenue	1- Revenue	1- Revenue
Offices Hierarchy				
Genmind Corp	16,792,560	5,470,146	5,036,331	6,286,083
Tescare Ltd.	19,641,040	6,455,758	5,963,833	7,221,449

You can Expand the Offices and you will see that they stay within the same column. Expanding The Time will add columns but they are linked to the parentage and can expand and contract.

Save the Query as Lesson1 so we can use it in the next lesson.



Exercise 1d: Grouping

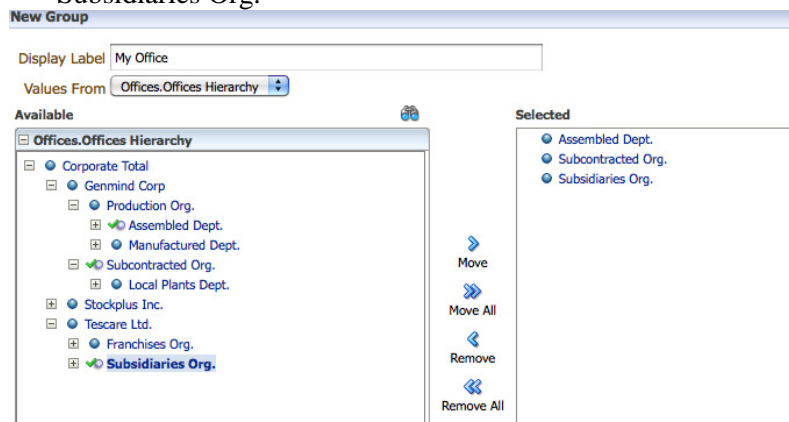
Next we will use the new Group Function to create an Aggregate Group

- Return to the **Results** tab.
- At the top of the area in the menu bar click on **New Group**



This you to create a separate aggregate group from selected members within a hierarchy.

- Give the Group a name (My Office) in the **Display Label** text area.
- Select Production Org → Assembled Dept, Subcontracted Org and Tescare → Subsidiaries Org.



- Click **OK**

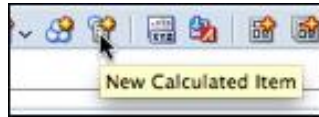
Expand My Office and your screen should look like this:

	Total Time			
		± 2008	± 2009	± 2010
	1- Revenue	1- Revenue	1- Revenue	1- Revenue
Offices Hierarchy				
[-] Genmind Corp	16,792,560	5,470,146	5,036,331	6,286,083
[-] Production Org.	10,399,704	3,369,506	3,071,684	3,958,514
[-] Subcontracted Org.	6,392,856	2,100,640	1,964,647	2,327,568
[-] Tescare Ltd.	19,641,040	6,455,758	5,963,833	7,221,449
[-] Franchises Org.	9,145,845	2,922,692	2,885,277	3,337,877
[-] Subsidiaries Org.	10,495,195	3,533,066	3,078,556	3,883,572
[-] My Office	19,425,604	6,449,148	5,832,312	7,144,144
[-] Assembled Dept.	2,537,553	815,442	789,108	933,003
[-] Subcontracted Org.	6,392,856	2,100,640	1,964,647	2,327,568
[-] Subsidiaries Org.	10,495,195	3,533,066	3,078,556	3,883,572

Exercise 1e: Calculated Members

Next we will use the new Calculated Item Function to create a Custom Aggregate

- Return to the **Results** tab.
- At the top of the area in the menu bar click on **New Calculated Item**



You use this to create a separate aggregate from selected members within a hierarchy.

- Give the Item a name (My Office Total).
- Select Production Org → Assembled Dept, Subcontracted Org and Tescare → Subsidiaries

Notice that the Select looks different. It is showing the calculations instead of just the members selected, therefore you will need to put + to add each member

- Click **OK**
The Results should look like this:

	Total Time			
		2008	2009	2010
	1- Revenue	1- Revenue	1- Revenue	1- Revenue
Offices Hierarchy				
Genmind Corp	16,792,560	5,470,146	5,036,331	6,286,083
Production Org.	10,399,704	3,369,506	3,071,684	3,958,514
Subcontracted Org.	6,392,856	2,100,640	1,964,647	2,327,568
Tescare Ltd.	19,641,040	6,455,758	5,963,833	7,221,449
Franchises Org.	9,145,845	2,922,692	2,885,277	3,337,877
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Subcontracted Org.	6,392,856	2,100,640	1,964,647	2,327,568
Subsidiaries Org.	10,495,195	3,533,066	3,078,556	3,883,572
My Office Total	19,425,604	6,449,148	5,832,312	7,144,144

Notice that the Calculated Item is not Drillable but the Group is Drillable. The Total for both are the same.

OBIEE 11g Charts and Graphs

New Graphs and Visualizations

- Additional Graph Features implemented
- Sliders, Zoom and Legends
- Master Detail links



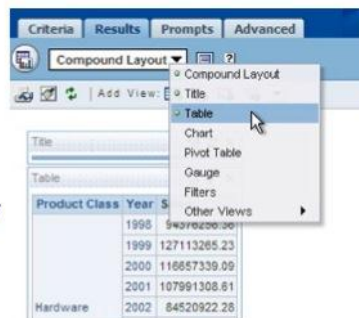
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The View Selector

- Reports in Oracle Answers can have multiple Views associated with them
- Default views are Table, Title and Compound
 - Table view is a simple listing
 - Title view provides a title, subtitle and icon
 - Compound view combines multiple views
- Compound view is normally the view displayed in the dashboard



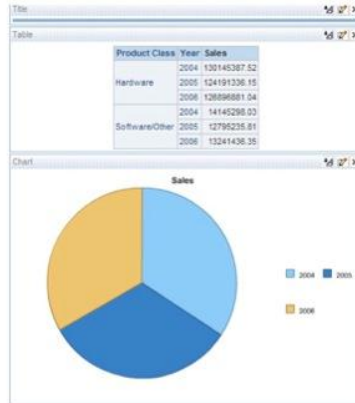
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Graphs

There are several types of Graphs Available:

- Area
- Horizontal Bar
- Bubble
- Vertical Bar
- Line
- Line-Bar Combo
- Pareto
- Pie
- Radar
- Scatter
- Step



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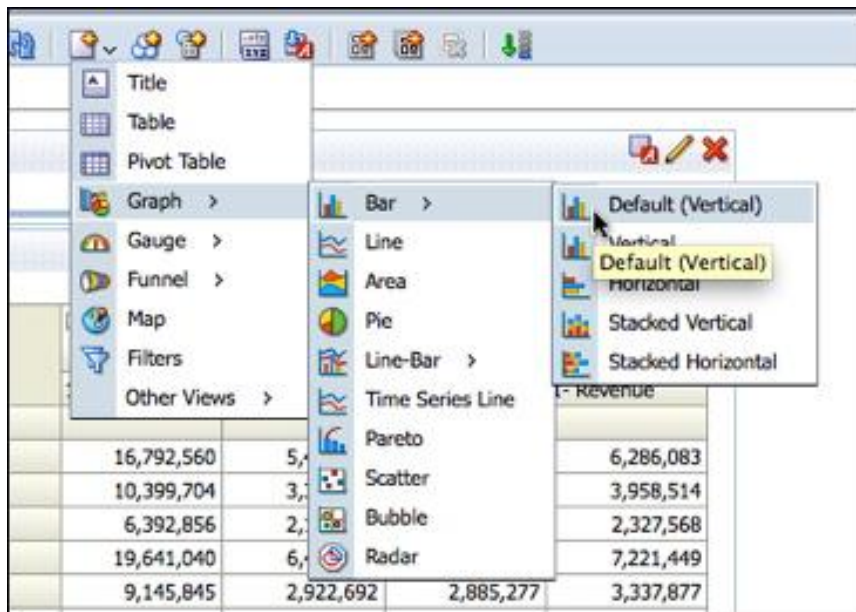
Lesson 2 – Using the New Graph Features

Exercise 2a: Graph Slider

1. Go to Selection Steps and Delete the My Office Group and My Office Total Calc



2. Working with the same query, select new View → Graph → Bar → Default.



3. Edit the Graph and Perform the following:
 - a. Move Time Hierarchy under Sections
 - b. Check “Display as Slider” in the Sections
 - c. Expand Total Time in the graph view



Click **Done** and your graph will look like this:



Click the Play button on the slider or move the slider to display results for various years.

Save this as Lesson 2A

Exercise 2b: Graph Zooming

1. Create a new Analysis using the columns shows below:

Perform this under the **Criteria** tab

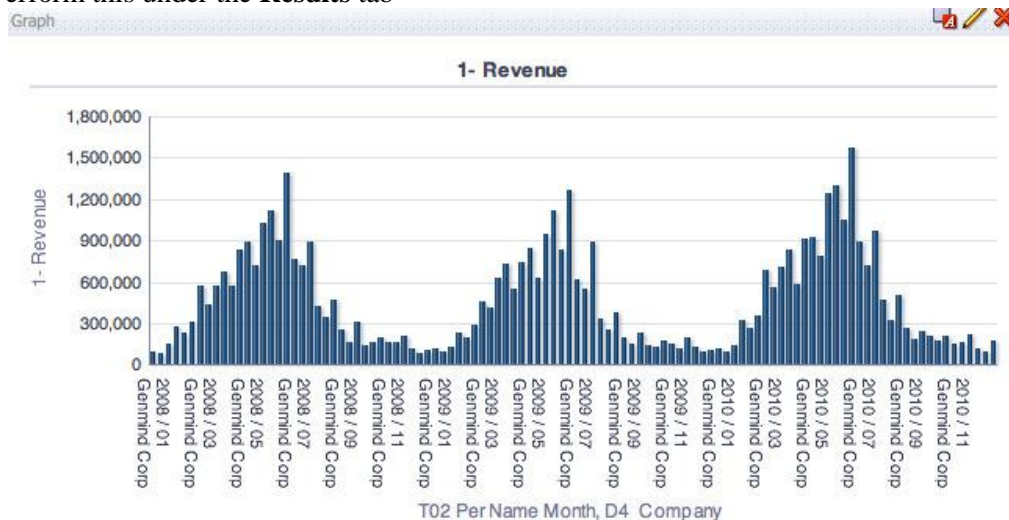
Selected Columns

Double click on column names in the Subject Areas pane to add them to the column's properties, formula and filters, apply sorting, or delete by clicking

Time	Offices	Base Facts
T02 Per Name Month	D4 Company	1- Revenue

2. Create a new View → Graph Stacked Vertical Bar

Perform this under the **Results** tab



3. Edit the Graph and set Company into the Legend

Measures

Bars (Vertical Axis)

1- Revenue

Bars

Group By (Horizontal Axis)

T02 Per Name Month

Vary Color By (Horizontal Axis)

☒ Show In Legend

D4 Company

Measure Labels

4. Now Edit the Graph Properties and set the following:
 - a. Zoom Enabled for Horizontal and Vertical Axis
 - b. Legend on the Top
 - c. Canvas Width to 550
 (this dialog is accessed from the toolbar in the Graph Edit mode)

Graph properties

General Style Scale Titles and Labels

Canvas Width 550 Pixels

Canvas Height 330 Pixels

Legend Location Top

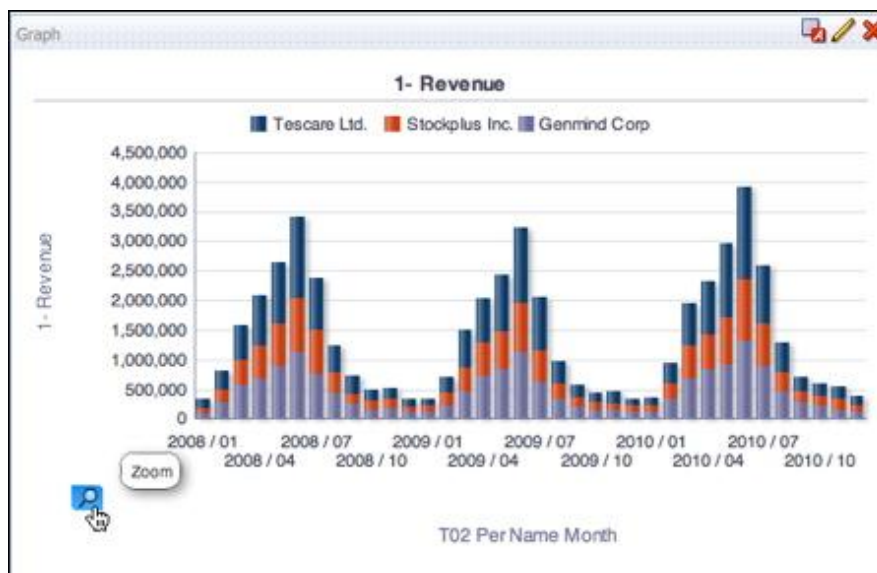
Zoom and Scroll ☒ Enable for Horizontal Axis ☒ Enable for Vertical Axis ☐ Listen to Master-Detail Events

Event Channels

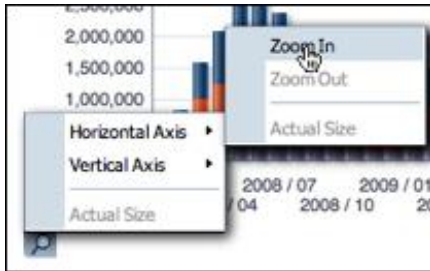
☒ Animate graph on Display

Help OK Cancel

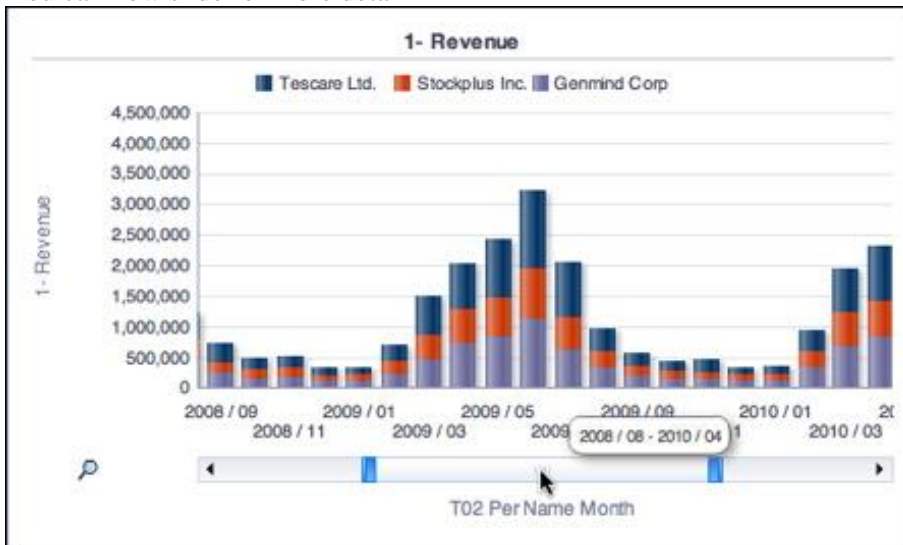
5. Click OK and your Graph should look like this:



6. Click on the Zoom icon and zoom into the Horizontal Axis



7. You can now slide for more detail



Note: You can also adjust the size of the slider bar by clicking and adjusting the “Blue” ends of the slider.

Save this as Lesson 2B

END of PART 1

Part 2:

<http://tinyurl.com/83owe9w>