# Oracle Data Relationship Management 11.1.2 Administration Administ Activity Guide

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# **Practices for Lesson 1: Overview**

### **Exercises Overview**

Throughout this course, you perform hands-on exercises, and these exercises are grouped by lesson. Your instructor may choose to demonstrate some exercises. Therefore, you may not be required to complete all of them. It is, however, important that you complete all exercises that the instructor assigns because many exercises build upon one another in the course.

In this Activity Guide, you are tasked with building an application that contains computer accessories, hardware, and software data. To accomplish your goal, you use a pre-created application named ProjectOne and create a version consisting of data for computer accessories based on a set of spreadsheet reports. To support the data, you manually create properties and import properties in bulk by using the Migration Utility.

Another team in your organization provides the hardware and software data for your application, and you import that data into a new version. Your goal is to combine the data from both versions into a "single version of the truth." To accomplish this goal, you query and compare the data for potential problems, and then make manual fixes and perform bulk updates with action scripts. When the data in both versions is clean, you blend the versions into a new, final version.

At this stage, you are ready to create business rules for your data by creating validations and properties with formulas. To fine-tune the display of properties for nodes, you set up node types. When another team requests data from your application for their application, you meet their needs by exporting data to a file and to a database table.

With your application built, you are ready to provide access to users in your organization. You create users and node access groups, and assign nodes to those access groups. To enable and configure governance workflows you add a governance user and assign the user to a new workflow node access group. You then create a workflow task and workflow model for a new type of change request to maintain products in the ProjectOne application. Lastly, as part of the on-going maintenance of your application, you archive your application.

# **Practice 1-1: Starting Services**

# Overview

In this exercise, you start the necessary services for the class learning activities.

### Task

- 1. On the desktop, open the **Managing Services** folder.
- 2. Double-click StartServices.bat.

When all processes are started, the Oracle Education Support - Oracle Start Services Utility dialog box states, "All Oracle Services started, your environment is now ready for your class. Enjoy!"

- 3. Click OK.
- 4. In the Managing Services folder, double-click **Services** to open the Services Control Panel. The Services window is displayed.
- 5. Verify that the following services have a status of "Started."
  - Oracle DRM Server Processes
  - OracleOraDb11g home1TNSListener
  - OracleServiceORCL
  - World Wide Web Publishing Service

**Note:** If any services fail to start, notify your instructor.

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# **Practice 1-2: Browsing Web Client**

# **Overview**

In this exercise, you access the ProjectOne application and browse the Web Client interface.

### **Tasks**

- 1. In Web Client, log on to the ProjectOne application as the Administrator (user name is admin, password is Welcome!).
- 2. Select each task group, review its interface, and make note of the tasks that you can perform.
- 3. View user preferences, but do not make any changes.
- 4. View online help options, and then open and view the Administrator's Guide.



# **Solution 1-1: Starting Services**

# **Steps**

- 1. On the desktop, open the **Managing Services** folder.
- Double-click StartServices.bat.

When all processes are started, the Oracle Education Support - Oracle Start Services Utility dialog box states, "All Oracle Services started, your environment is now ready for your class. Enjoy!"

- 3. Click OK.
- 4. In the Managing Services folder, double-click **Services** to open the Services Control Panel. The Services window is displayed.
- 5. Verify that the following services have a status of "Started":
  - **Oracle DRM Server Processes**

Note: If any services fail to start, notify your instructor.

6. Close the Services window and the Managing Services folder.

# **Solution 1-2: Browsing Web Client**

# **Steps**

# Logging On to the ProjectOne Application

1. On the desktop, click the **Web Client** icon.

The logon page for Oracle Data Relationship Management is displayed.

- 2. In the User Name box, enter the default user name: **admin**.
- 3. In the Password box, enter the default admin password: **Welcome!**.
- 4. In the Application box, select **ProjectOne**.
- 5. Click Log On.

Web Client displays the Home page by default.

# **Viewing Task Groups**

- 1. View the **Browse** task group, which is selected by default when you first log on to an application.
  - You can browse and manage versions, hierarchies, nodes, and their properties.
  - You can search for nodes and orphan nodes.
- 2. Select and view the Query task group.
  - You can create and run queries, which are queries for properties.
  - You can edit query results based on your user rights, so that you can make changes without navigating to the Browse task group.
  - You can open, copy, and delete existing queries.
  - You can have multiple gueries open, but only one can be in focus.
- 3. Select and view the Compare task group.
  - You can create and run compares, which are queries that compare hierarchies.
  - You can edit compare results based on your user rights, so that you can make changes without navigating to the Browse task group.
  - You can open, copy, and delete existing compares.
  - You can have multiple compares open, but only one can be in focus.
- 4. Select and view the **Script** task group.
  - You can load an action script from a file, transaction log, or node model to apply a bulk set of incremental changes to a version.
  - You can edit action scripts after they are loaded.

- 5. Select and view the **Import** task group.
  - You can create imports to import hierarchies, nodes, and properties into a version.
  - You can open, copy, and delete existing imports.
  - You can open and run multiple imports on separate tabs, but only one import can be in focus.
- 6. Select and view the **Blend** task group.
  - You can create blenders to combine hierarchies, nodes, and properties.
  - You can open, copy, and delete existing blenders.
  - You can open and run multiple blenders in separate tabs, but only one blender can be in focus.
- 7. Select and view the **Export** task group.
  - You can create exports to export data from a Data Relationship Management application to a file or database table.
  - You can create books, which are exports that are grouped and run together.
  - You can open, copy, and delete existing exports and books.
- 8. Select and view the Audit task group.
  - You can query and view data and system transactions.
  - You can query and view requests.
  - You can define query filters and select log fields to be displayed as columns in the query results.
- 9. Select and view the Administer task group.
  - You can administer system metadata and security.
  - For system metadata, you can create and manage property categories, hierarchy groups, property definitions, validations, node types, and glyphs. You can also manage system preferences.
  - For security, you can create and manage users and node access groups. You can also assign users to property categories.

### **Viewing Preferences**

1. At the top of Web Client, select **Preferences**.

Notice that you can click Change My Password to enter another user password.

2. Click Home.

# **Viewing Help**

1. At the top of Web Client, select Help.

View options that you can select: Contents, EPM Documentation, Oracle Support, or About.

2. Select **Contents**, and then **Administrator's Help**.

The Administrator's Guide is opened in another browser tab.

Notice that you can search for information by using the table of contents (Contents section), by searching the index (Index section), or by searching for keywords (Search section).

3. Close the Administrator's Guide browser tab.

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# Practices for Lesson 2: Working with Version Hierarchies SASIKUMAR DHANAPAL SASIKUMAR DHANAPAL Incense non-transferable license

Chapter 2

# **Practices for Lesson 2: Overview**

# **Practices Overview**

In these practices, you create a version and hierarchies for the ProjectOne application.

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# **Practice 2-1: Creating the Accessories Version and Hierarchies**

# Overview

In this practice, you create the Accessories version and three hierarchies.

# **Tasks**

Many of the financial applications in your company have reports that require product, market, and account data. You are given a Microsoft Excel spreadsheet with this data so that you can build hierarchies in the Accessories version.

- 1. In the class files folder (D:\CF), open Accessories Dimensions.xlsx and examine how the business data is divided across three tabs. Each tab represents a dimension in the business.
- 2. In Web Client, create a version named Accessories with the description Computer Accessories, and save it.
- 3. Create a hierarchy named Entity, and define the top node as TotalEntities.
- 4. Create a hierarchy named Account, and define the top node as Measures.
- sures.

  .s fotalBusiness.

  .s fo 5. Create a hierarchy named Product, and define the top node as TotalBusiness.

# Solution 2-1: Creating the Accessories Version and Hierarchies

# Steps

## Examining Accessories Dimensions.xlsx

- 1. In the D:\CF folder, double-click Accessories Dimensions.xlsx.
- 2. Notice that the spreadsheet consists of the following tabs, each representing a dimension of the business:
  - Entity
  - Product
  - Account

# **Creating the Accessories Version**

- 1. In Web Client, select the **Browse** task group.
- 2. In the Versions drop-down list, select **New** and then **Version**.

The New Version dialog box is displayed.

- 3. In the Name box, enter Accessories. Make sure that you spell the name correctly, because itudent Guide you cannot modify it later.
- 4. In the Description box, enter Computer Accessories.
- 5. Click OK.

The new version is displayed in an unsaved state.



6. Right-click the Accessories version, and select Save.

In the Saved column, a check mark indicates that Accessories is saved to the database.



## **Creating the Entity Hierarchy**

- 1. On the Hierarchies tab, in the Hierarchies drop-down list, select **New** and then **Hierarchy**. The New Hierarchy dialog box is displayed.
- 2. In the Name box, enter Entity.
- 3. Under Top Node in the Name box, enter TotalEntities.
- 4. Click OK.

The Entity hierarchy is displayed on the Hierarchies tab.

# **Creating the Product Hierarchy**

1. In the Hierarchies drop-down list, select **New** and then **Hierarchy**.

The New Hierarchy dialog box is displayed.

- 2. In the Name box, enter Product.
- 3. Under Top Node in the Name box, enter TotalBusiness.
- 4. Click OK.

The Product hierarchy is displayed on the Hierarchies tab.

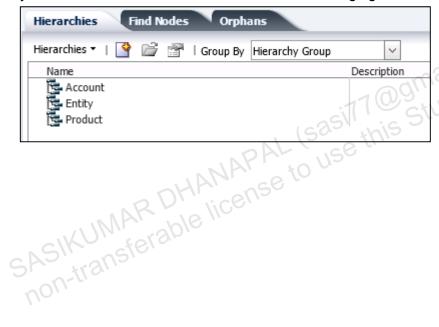
# **Creating the Account Hierarchy**

- 1. In the Hierarchies drop-down list, select **New** and then **Hierarchy**. The New Hierarchy dialog box is displayed.
- 2. In the Name box, enter Account.
- 3. Under Top Node in the Name box, enter Measures.
- 4. Click OK.

The Account hierarchy is displayed on the Hierarchies tab.

# **Verifying the Hierarchies**

Verify that the hierarchies look the same as the following figure:



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Practices for Lesson 3:
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# **Practices for Lesson 3: Overview**

# **Practices Overview**

In the practice for this lesson, you add nodes to hierarchies in the Accessories version.

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# **Practice 3-1: Adding Nodes to Hierarchies in the Accessories Version**

# Overview

In this practice, you add nodes to the Product, Entity, and Account hierarchies in the Accessories version.

### **Tasks**

The details for each dimension of your business are contained on the tabs in the spreadsheet named Accessories Dimensions.xlsx. You need to copy the structure of that data to the hierarchies in the Accessories version.

**Tip:** View node descriptions while building hierarchies in Web Client.

- 1. Add nodes to the Entity hierarchy based on the data on the Entity tab in the spreadsheet.
- 2. Add nodes to the Product hierarchy based on the data on the Product tab in the spreadsheet.
- SASIKUMAR DHANAPAL (sasi77@gmail.com) has a student Guide. 3. Add nodes to the Account hierarchy based on the data on the Account tab in the

# **Solution 3-1: Adding Nodes to Hierarchies in the Accessories Version**

# Steps

# Adding Nodes to the Entity Hierarchy

Note: Continue working in Accessories Dimensions.xlsx.

- 1. In the spreadsheet, click the **Entity** tab, and examine the data as described in the exercise.
- 2. Return to Web Client and click **Browse**.
- 3. On the Hierarchies tab, right-click **Entity**, and select **Open**.

The Entity - Accessories tab is displayed. The TotalEntities node is selected by default.

- 4. Configure the hierarchy to show node descriptions:
  - In the Options drop-down list, select View By and then User Properties. The View By dialog box is displayed.
  - In the Available list, select **Description**, and click the Select button ( the Selected list.
  - c. Click OK.

The Description column is displayed next to the Name column.

- 5. Add the USA node to the Entity hierarchy:
  - In the Nodes drop-down list, select **New** and then **Limb**. The New Limb Node dialog box is displayed.
  - In the Name box, enter **USA**.
  - In the Description box, enter United States.
  - Next to Add As, notice that **Child** is selected and that Sibling is not available.
  - Click OK.
- 6. Add the Asia node:
  - Select the TotalEntities node.
  - In the Nodes drop-down list, select **New** and then **Limb**. The New Limb Node dialog box is displayed.
  - In the Name box, enter Asia.
  - In the Description box, enter **Asia**. d.
  - Next to Add As, notice that **Child** is selected and that Sibling is not available. e.
  - Click OK. f.

### 7. Add the East node:

- Select the **USA** node. a.
- In the Nodes drop-down list, select **New** and then **Limb**.
  - The New Limb Node dialog box is displayed.
- C. In the Name box, enter **East**.
- d. In the Description box, enter **East US Region**.
- Next to Add As, leave **Child** selected.
- f. Click OK.

### 8. Add the West node:

- Select the **USA** node. a.
- In the Nodes drop-down list, select **New** and then **Limb**. b.
  - The New Limb Node dialog box is displayed.
- In the Name box, enter West. C.
- d.
- e.
- f.

### 9. Add the Atlanta node:

- Select the **East** node.

  In the Nodes drop-down list, select **New** and then **Leaf**.

  The New Leaf Node dialog box is displayed.

  In the Name box, enter **Atlanta**.

  In the Description box enter **Next** to Additional to the content of the content of
- d.
- Next to Add As, leave **Child** selected, and click **OK**.

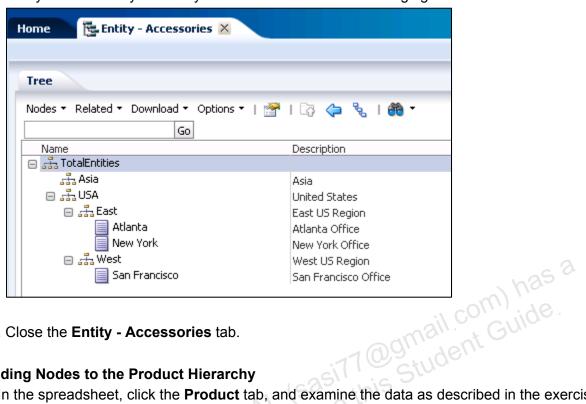
# 10. Add the New York node:

- Select the Atlanta node.
- b. In the Nodes drop-down list, select **New** and then **Leaf**.
  - The New Leaf Node dialog box is displayed.
- c. In the Name box, enter **New York**.
- In the Description box, enter **New York Office**.
- Next to Add As, notice that **Sibling** is selected and that Child is not available. e.
- f. Click OK.

### 11. Add the San Francisco node:

- Select the West node.
- b. In the Nodes drop-down list, select **New** and then **Leaf**.
  - The New Leaf dialog box is displayed.
- In the Name box, enter **San Francisco**.
- In the Description box, enter **San Francisco Office**. d.
- Next to Add As, leave **Child** selected. e.
- f. Click OK.

12. Verify that the Entity hierarchy looks the same as the following figure:



13. Close the **Entity - Accessories** tab.

# Adding Nodes to the Product Hierarchy

- 1. In the spreadsheet, click the **Product** tab, and examine the data as described in the exercise.
- 2. Return to Web Client.
- Click the **Home** tab if necessary.
- 4. Right-click the **Product** hierarchy, and select **Open**.

The Product - Accessories tab is displayed.

- 5. Configure the hierarchy to show node descriptions:
  - a. In the Options drop-down list, select View By and then User Properties. The View By dialog box is displayed.
    - In the Available list, select **Description**, and click the Select button ( ) to add it to the Selected list.
  - Click OK. C.

The Description column is displayed.

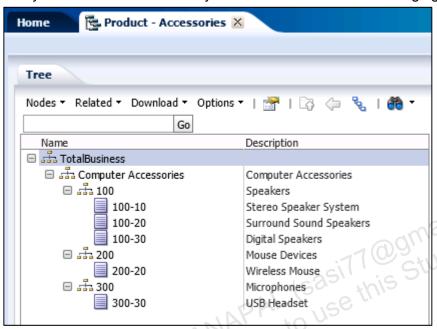
6. Add nodes to the Product hierarchy by using the information in the following table. Be sure to add each node as a child to the indicated parent node.

Parent Node Name	Node Name	Node Description	Limb/Leaf
TotalBusiness	Computer Accessories	Computer Accessories	Limb
Computer Accessories	100	Speakers	Limb
100	100-10	Stereo Speaker System	Leaf
100	100-20	Surround Sound Speakers	Leaf
100	100-30	Digital Speakers	Leaf
Computer Accessories	200	Mouse Devices	Limb

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200	200-20	Wireless Mouse	Leaf
Computer Accessories	300	Microphones	Limb
300	300-30	USB Headset	Leaf

7. Verify that the Product hierarchy looks the same as the following figure:



8. Close the Product - Accessories tab.

# **Adding Nodes to the Account Hierarchy**

- 1. In the spreadsheet, click the **Account** tab, and examine the data.
- 2. Return to Web Client.
- 3. Click the **Home** tab if necessary.
- 4. On the Hierarchies tab, right-click the **Account** hierarchy, and select **Open**.

The Account - Accessories tab is displayed.

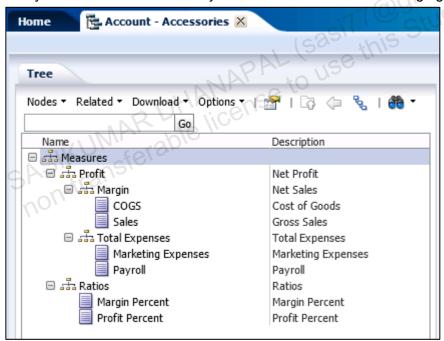
- 5. Configure the hierarchy to show node descriptions:
  - In the Options drop-down list, select View By and then User Properties.
     The View By dialog box is displayed.
  - In the Available list, select **Description**, and click the Select button ( ) to add it to the Selected list.
  - c. Click OK.

The Description column is displayed.

6. Add nodes to the Account hierarchy by using the information in the following table. Be sure to add each node as a child to the indicated parent node.

Parent Node Name	Node Name	Node Description	Limb/Leaf
Measures	Profit	Net Profit	Limb
Profit	Margin	Net Sales	Limb
Margin	Sales	Gross Sales	Leaf
Margin	COGS	Cost of Goods	Leaf
Profit	Total Expenses	Total Expenses	Limb
Total Expenses	Marketing Expenses	Marketing Expenses	Leaf
Total Expenses	Payroll	Payroll	Leaf
Measures	Ratios	Ratios	Limb
Ratios	Margin Percent	Margin Percent	Leaf
Ratios	Profit Percent	Profit Percent	Leaf

7. Verify that the Account hierarchy looks the same as the following figure:



8. Close the **Account - Accessories** tab and **Accessories** Dimensions.xlsx.

Practices for Lesson 4:
Defining Properties
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# **Practices for Lesson 4: Overview**

### **Practices Overview**

You need to provide several location-type properties to support financial applications in your organization. You decide to create a Location property category and several properties to support the Entity dimension. You also import properties by using the Migration Utility.

# **Practice 4-1: Creating the Location Property Category**

### Overview

In this practice, you examine core properties and create a property category named Location.

## **Tasks**

- 1. Examine core properties.
- 2. Create a property category named Location.

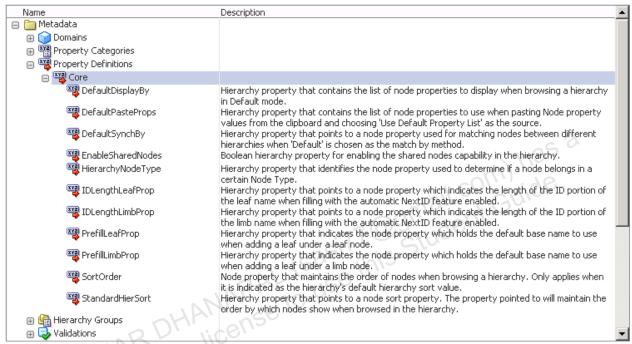


# **Solution 4-1: Creating the Location Property Category**

# **Steps**

# **Examining Core Properties**

- 1. In Web Client, select the **Administer** task group.
- 2. Expand **Property Definitions** and then **Core**.
- 3. Review the list of the core properties and their descriptions.

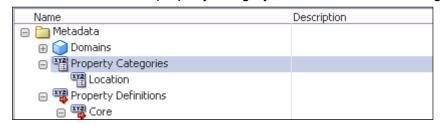


# **Creating the Location Property Category**

- 1. In the New drop-down list, select **Property Category**.
  - The New Property Category tab is displayed.
- 2. In the Name box, enter Location.
- 3. On the toolbar, click the Save button ( ).

  The New Property Category tab is renamed Location.
- 4. Close the **Location** tab.
- 5. On the Home tab, expand Property Categories.

Location is listed as a property category, as shown in the following figure:



# **Practice 4-2: Creating the StateProvince Property**

# Overview

In this practice, you create a property and add it to the Location property category. You then set the property values to selected nodes.

# **Tasks**

1. Configure the property parameters defined in the following table:

Parameter	Value
Name	State Province
Label	State Province
Description	State or Province
Data Type	String
Property Type	Defined
Property Level	String  Defined  Local Node  20
Column Width	20
Maximum Length	60
Add the StateProvince prop	perty to the Location property category, and save the property.

- 2. Add the StateProvince property to the Location property category, and save the property.
- 3. Verify that the StateProvince property is listed in the Administer task group.
- 4. In the Entity hierarchy, set the StateProvince values for the following nodes
  - Atlanta: Georgia
  - New York: New York non-trans

# **Solution 4-2: Creating the StateProvince Property**

# **Steps**

# **Configuring Property Parameters**

- 1. In the Administer task group, in the New drop-down list, select **Property Definition**. The New Property tab is displayed.
- 2. Configure the property parameters defined in the following table:

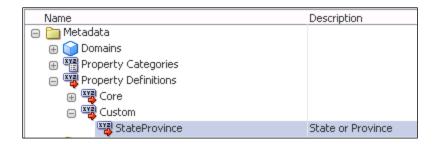
Parameter	Value	
Name	StateProvince	
Label	State Province	
Description	State or Province	
Property Level	Local Node	
Data Type	String	
Property Type	Defined	252
Column Width	20	mhas
Maximum Length	60	:1 colliside.
Adding the Property to the Location  1. On the Categories tab, select Location to the Selected list.		ck (Select) to add
2. On the toolbar, click the Save butt	- CKI	

- 1. On the Categories tab, select **Location** in the Available list, and click (Select) to add it
- - The New Property tab is renamed Custom. State Province.
- 3. Close the **Custom.StateProvince** tab.

The Administer task group is displayed.

# **Verifying the StateProvince Property**

- 1. Expand Property Definitions and then Custom.
- 2. Verify that the StateProvince property is listed.



# **Setting StateProvince Property Values**

- 1. Select the **Browse** task group.
- 2. On the Hierarchies tab, double-click the Entity hierarchy to open it.

The Entity - Accessories tab is displayed.

- 4. If necessary, expand the **USA** node and then the **East** node.
- 5. Right-click the **Atlanta** node, and then select **Node Properties**. The Properties tab is displayed on the right.
- 6 In the Category drop-down list, select **Location**.
- 7. In the Value box for StateProvince, click and enter Georgia.
- 8. Click Save.
- 9. Repeat steps 5 through 8 for the New York node, entering **New York** as the StateProvince property value.



# **Practice 4-3: Creating the Country Property**

# **Overview**

In this practice, you create an inherited property and set its value for the USA node in the Entity hierarchy.

# **Tasks**

1. Configure the property parameters defined in the following table:

Parameter	Value	
Name	Country	
Label	Country	
Description	Country	
Property Level	Local Node	2
Data Type	String	has
Property Type	Defined	ail.com) has a Ident Guide.
Column Width	20	all of Color
Inherited	(Selected)	yell,
	, Isasi this st	

- 2. Add the Country property to the Location property category, and save the property.
- 3. Verify that the Country property is listed in the Administer task group.
- 4. Set the Country property value for the USA node in the Entity hierarchy to USA. Verify that the Country property for the descendant nodes is also set to USA.

# **Solution 4-3: Creating the Country Property**

### **Steps**

#### **Configuring Property Parameters**

- 1. Click the **Home** tab and then the **Administer** task group.
- 2. In the New drop-down list, select **Property Definition**. The New Property tab is displayed.
- 3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	Country	
Label	Country	
Description	Country	ail.com) has a dent Guide.
Property Level	Local Node	Mas
Data Type	String	il colliige.
Property Type	Defined	an. Go.
Column Width	20 11 61	ige,
Inherited	(Selected)	

### **Adding the Property to the Location Property Category**

- 1. On the Categories tab, select **Location** in the Available list, and then click the Select button ( ) to add it to the Selected list.
- 2. On the toolbar, click the Save button ( ).

  The New Property tab is renamed Custom.Country.
- 3. Close the Custom.Country tab.

The Administer task group is displayed.

### **Verifying the Country Property**

- 1. If needed, expand **Property Definitions** and then **Custom**.
- 2. Verify that the **Country** property is listed.

### **Setting the Country Property Value for the USA Node**

- 1. Click the **Entity Accessories** tab.
- 2. In the hierarchy tree, select the **USA** node.
- 3. On the Properties tab, in the Category drop-down list, select **Location** if needed.
- 4. In the Country value box, enter **USA**.
- 5. Click Save.
- 6. Verify that the descendant nodes of the USA node also have USA as their Country value:
  - a. In the hierarchy tree, select the **East** node.
  - b. On the Properties tab, verify that the Country value is **USA**.
  - c. Repeat steps a and b for the other descendant nodes.



# **Practice 4-4: Creating the Regional Mgr Property**

#### Overview

In this practice, you create a property to store information about regional managers. You also set values of the property for selected regions and verify the results.

#### **Tasks**

1. Configure the property parameters defined in the following table:

Parameter	Value	
Name	RegionalMgr	
Label	Regional Manager	
Description	Regional Manager	
Property Level	Local Node	9
Data Type	String	ail.com) has a dent Guide.
Property Type	Defined	., com);de.
Column Width	20	311.04 Gnice
Inherited	(Selected)	ye,,
Add the RegionalMar property	to the Location property category, a	nd save the property

- 2. Add the RegionalMgr property to the Location property category, and save the property.
- 3. Verify that the RegionalMgr property is listed in the Administer task group.
- 4. Set RegionalMgr property values:
  - In the Entity hierarchy, set the RegionalMgr property value for the East node to Tom Day. For the Atlanta and New York nodes, verify that the RegionalMgr property is also set to Tom Day.
  - b. In the Entity hierarchy, set the RegionalMgr property value for the West node to John Doe. For the San Francisco node, verify that the RegionalMgr property is also set to John Doe.

# **Solution 4-4: Creating the RegionalMgr Property**

### **Steps**

### **Configuring Property Parameters**

- 1. Click the **Home** tab and then the **Administer** task group.
- 2. In the New drop-down list, select **Property Definition**.

The New Property tab is displayed.

3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	RegionalMgr	
Label	Regional Manager	
Description	Regional Manager	
Property Level	Local Node	252
Data Type	String	m) has
Property Type	Defined	ail commide.
Column Width	20	ail com) has a
Inherited	(Selected)	100

### Adding the Property to the Location Property Category

- 1. On the Categories tab, select **Location** in the Available list, and click the Select button ( ) to add it to the Selected list.
- 2. On the toolbar, click the Save button ( ).

The New Property tab is renamed Custom.RegionalMgr.

3. Close the **Custom.RegionalMgr** tab.

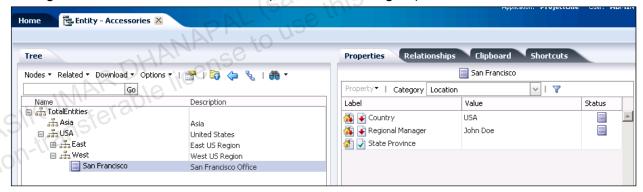
The Administer task group is displayed.

## **Verifying the Property**

- 1. Expand **Property Definitions** and then **Custom** if needed.
- 2. Verify that the **RegionalMgr** property is listed.

#### **Setting Property Values**

- 1. Add a regional manager value for the USA East region:
  - a. Click the **Entity Accessories** tab.
  - b. If necessary, expand the **USA** node.
  - c. Select the East node.
  - d. If needed, in the Category drop-down list on the right, select **Location**.
  - e. Select the **Regional Manager** property.
  - f. In the Regional Manager box, enter **Tom Day**.
  - g. Click Save.
  - h. Select the **Atlanta** node, and verify that Tom Day is listed as the Regional Manager and that the value is inherited.
  - i. Select the **New York** node, and verify that Tom Day is listed as the Regional Manager and that the value is inherited.
- 2. Add a regional manager value for the USA West region:
  - a. Select the West node
  - b. On the Properties tab, select the **Regional Manager** property.
  - c. In the Regional Manager box, enter **John Doe.**
  - d. Click Save.
  - e. Select the **San Francisco** node, and verify that John Doe is listed as the Regional Manager and that the value is inherited (as shown in the figure):



# **Practice 4-5: Creating the DefaultCurrency Property**

### Overview

In this practice, you create a lookup property.

#### **Tasks**

1. Configure the property parameters defined in the following table:

Parameter	Value	
Name	DefaultCurrency	
Label	Default Currency	
Description	Default Currency	
Property Level	Local Node	
Property Type	Lookup	-62
Data Type	String	amail.com) has a
Lookup Property	Custom.Country	il collide.
Column Width	20	amair Ga
• •	perty to the Location property c	category.

- 2. Add the DefaultCurrency property to the Location property category.
- 3. Configure the lookup table with values from the following table, and save the table:

Lookup Key	Result Value
USA	USD
Canada	CAD
China	CNY
France	EUR
Italy	EUR
South Africa	ZAR
United Kingdom	GBP

- 4. Verify that the DefaultCurrency property is listed in the Administer task group.
- 5. In the Entity hierarchy, verify that the DefaultCurrency property value is set to USD for the USA node and its descendants.

# **Solution 4-5: Creating the DefaultCurrency Property**

### **Steps**

### **Configuring Property Parameters**

- 1. Click the **Home** tab and then the **Administer** task group.
- 2. In the New drop-down list, select **Property Definition**.

The New Property tab is displayed.

3. Configure the property parameters defined in the following table:

Parameter	Value
Name	DefaultCurrency
Label	Default Currency
Description	Default Currency
Property Level	Local Node
Property Type	Lookup
Data Type	String
Lookup Property	Custom.Country (namespace is Custom)
Column Width	20

### **Adding the Property to the Location Property Category**

• On the Categories tab, select **Location** in the Available list, and click the Select button ( ) to add it to the Selected list.

### **Configuring the Lookup Table**

- 1. Click the Lookup Table tab.
- 2. Click Add.
- 3. Under Lookup Key, enter USA.
- 4. Under Result Value, enter USD.
- 5. In the Action column, click the Update button ( ).

6. Repeat steps 2 through 5 for the lookup values in the following table:

Lookup Key	Result Value
Canada	CAD
China	CNY
France	EUR
Italy	EUR
South Africa	ZAR
United Kingdom	GBP

7. Compare your table with the following figure:



- 8. On the toolbar, click the Save button ( ).

  The New Property tab is renamed Custom.DefaultCurrency.
- 9. Close the Custom. Default Currency tab.

The Administer task group is displayed.

### Verifying the Property

Under Custom properties, verify that the **DefaultCurrency** property is listed.

#### **Verifying Property Values**

- 1. Click the **Entity Accessories** tab.
- 2. Select the USA node.
- 3. If needed, on the Properties tab, in the Category drop-down list, select **Location**.
- 4. Verify that the Default Currency property value is automatically set to USD and that you cannot change the value.
- 5. Select any node under the USA node, and verify that its Default Currency property value is automatically set to USD.

# **Practice 4-6: Creating the LocalOffice Property**

### Overview

In this practice, you create a list property and set its value for selected nodes.

#### **Tasks**

1. Configure the property parameters defined in the following table:

Parameter	Value
Name	LocalOffice
Label	Local Office
Description	Local Office
Property Level	Local Node
Property Type	Defined
List	(Selected)
Data Type	String
Default Value	Yes
Column Width	20

- 2. Add the LocalOffice property to the Location property category.
- 3. Configure Yes and No as list values, and save the property.
- 4. Verify that the LocalOffice property is listed in the Administer task group.
- 5. In the Entity hierarchy, set the LocalOffice property value for the following nodes:
  - Asia: No
  - USA: Yes

# **Solution 4-6: Creating the LocalOffice Property**

### **Steps**

### **Configuring Property Parameters**

- 1. Click the **Home** tab and then the **Administer** task group.
- 2. In the New drop-down list, select **Property Definition**.

The New Property tab is displayed.

3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	LocalOffice	
Label	Local Office	
Description	Local Office	
Property Level	Local Node	nas a
Property Type	Defined	
List	(Selected)	iide.
Data Type	String	
Default Value	Yes Stude	
Column Width	20 (500 this	

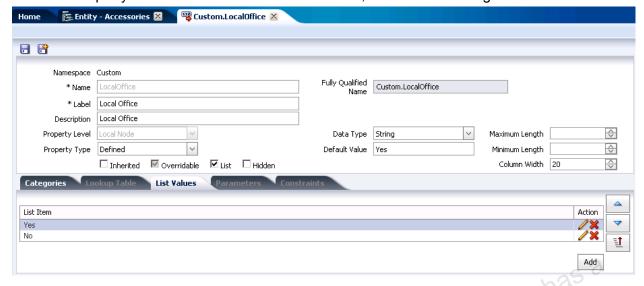
### Adding the Property to the Location Property Category

On the Categories tab, select Location in the Available list, and click the Select button
 ) to add it to the Selected list.

# **Configuring List Values**

- 1. Click the List Values tab.
- 2. Click Add.
- 3. Under List Item, enter Yes.
- 4. In the Action column, click the Update button ( ).
- 5. Click Add.
- 6. Under List Item, enter No.
- 7. In the Action column, click the Update button ( ).
- 8. On the toolbar, click the Save button ( ).

The New Property tab is renamed Custom.LocalOffice, as shown in the figure:



9. Close the Custom.LocalOffice tab.

The Administer task group is displayed.

### Verifying the Property

Under Custom properties, verify that the LocalOffice property is listed.

### **Setting LocalOffice Property Values**

- 1. Click the **Entity Accessories** tab.
- 2. Select the Asia node.
- 3. On the Properties tab, select the Local Office property, select No, and click Save.
- 4. Select the **USA** node and verify that the Local Office property value is set to Yes.
- 5. Select children of the USA node (for example, the East and New York nodes), and verify that the Local Office property value is set to Yes.
- 6. Close the Entity Accessories tab.

## **Practice 4-7: Importing Properties with the Migration Utility**

#### Overview

In this practice, you create properties by importing them with the Migration Utility.

#### **Tasks**

As you continue to support the company teams, you learn that you should include several other properties in your ProjectOne application. The teams send you an application template (XML file) containing their data. With this file in hand, your task is to import the metadata objects into your ProjectOne application.

- 1. Using the Migration Utility, import all metadata objects from Essbase FM objects.xml, which is located in the class files folder, into the Project One application.
  - roperties: Log on as the Administrator (user name is admin, password is Welcome!).
  - b. Review metadata objects before loading them.
  - Select each filter, and view the results.
  - Run the load, and download the Load Detail log to the desktop.
- 2. In Web Client, verify that the following items exist:
  - **Property Categories:** 
    - Common
    - Essbase
    - FΜ
    - Location
  - Custom properties:
    - UDA1
    - UDA2
    - UDA3
  - Essbase properties:
    - Consolidation
    - DataStorage
    - Formula
    - TwoPassCalc
  - FM properties: d.
    - AllowChildrenAdj
    - DefCurrency
    - HoldingCompany
    - IsICP
    - SecurityClass

- 3. Check property values and lookup tables:
  - Verify that the Consolidation property in the Essbase property category consists of the following list values:
    - Addition
    - Subtraction
    - Multiplication
    - Division
    - Percent
    - Ignore
  - b. Verify that the Data Storage property in the Essbase property category consists of the following list values:
    - Store
    - Dynamic Calc and Store
    - Dynamic Calc
    - **Never Share**
    - Label Only
    - Shared Member
  - ory const. Guide. Verify that the IC Partner property in the FM property category consists of two list C. values: Y and N.
  - Verify that the Default Currency and Security Class properties are working correctly: d.
    - Set the Default Currency property equal to USD. The Security Class property value should automatically equal US.
  - should aut Set the Default Currency property equal to CAD. The Security Class property value should automatically equal Canada.

# **Solution 4-7: Importing Properties with the Migration Utility**

### **Steps**

**Loading Objects with the Migration Utility** 

1. Select Start, then All Programs, then Oracle EPM System, then Data Relationship Management, and then Migration Utility.

The main menu is displayed, as shown in the following figure:



2. Select Load.

The Upload File screen is displayed.

3. Click **Browse**, browse to the class files folder, select **Essbase\_FM\_objects.xml**, and click **Open**.

#### Click Upload.

The Uploaded File Information screen is displayed similar to the following figure:

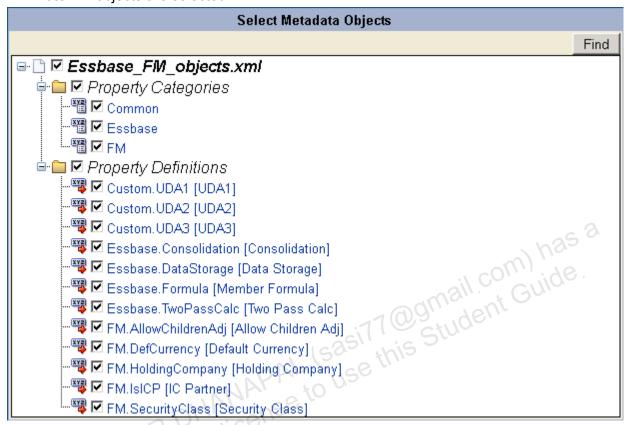
Uploaded File Information Filename: Essbase\_FM\_objects.xml Extracted From: ProjectOne File Checksum: No Match; file has been modified! Extracted By: ADMIN Server Version: 11.1.2.1 **Extracted At:** 12/12/2010 3:09:25 AM App Version: 11.1.2.1 File Version: ٧1 Property Categories and Properties from Essbase and FM The purpose of these property categories and properties is to provide students with additional metadata and practice Purpose: using the Migration Utility. Usage:

Review the information, and click **Next**.

The Login Connection screen is displayed.

- 6. Leave the connection information as is.
- In the Password box, enter Welcome!, and click Log In. 7. s disples with the select a se The Select Metadata Objects screen is displayed.
- 8. Select **Essbase\_FM\_objects.xml** to select all property categories and property definitions.

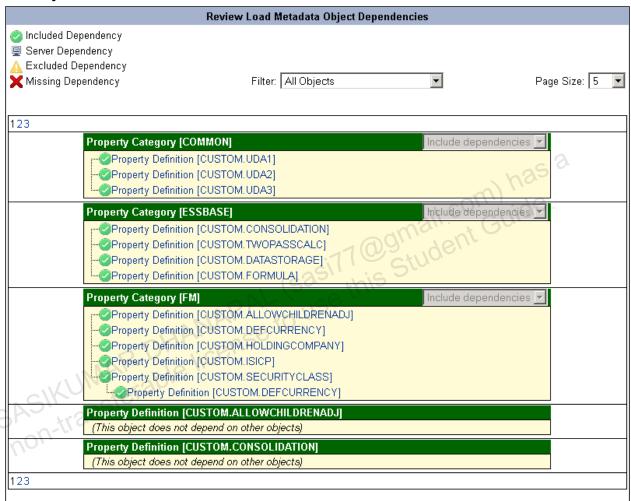
 Expand Property Categories and Property Definitions, and view the list of metadata objects that will be loaded into the ProjectOne application, as shown in the following figure: Note: All objects are selected.



### 10. Click Next.

The Review Load Metadata Object Dependencies screen is displayed.

- 11. In the Filter drop-down list, select the following options and view the results (as shown in the figure):
  - All Objects
  - Objects with Dependencies
  - Objects with Errors
  - Objects with Unresolved Errors



#### 12. Click Next.

The Review Load Metadata Object Dependencies screen displays a message to click Run Load when you are ready, as shown in the following figure:

### **Review Load Metadata Object Dependencies**

Click "Run Load" when you are ready to begin the Load process. (Processing may take several minutes to complete.)

☑ Continue Load after Error

#### Load From File:

 Filename:
 Essbase\_FM\_objects.xml
 Extracted From:
 ProjectOne

 File Checksum:
 No Match; file has been modified!
 Extracted By:
 ADMIN

 Server Version:
 11.1.2.1
 Extracted At: 12/11/2010 7:09:25 PM

App Version: 11.1.2.1 File Version: v1

### Property Categories and Properties from Essbase and FM

Purpose: The purpose of these property categories and properties is to provide students with additional metadata

and practice using the Migration Utility.

Usage:

non-trans

#### Load To Connection:

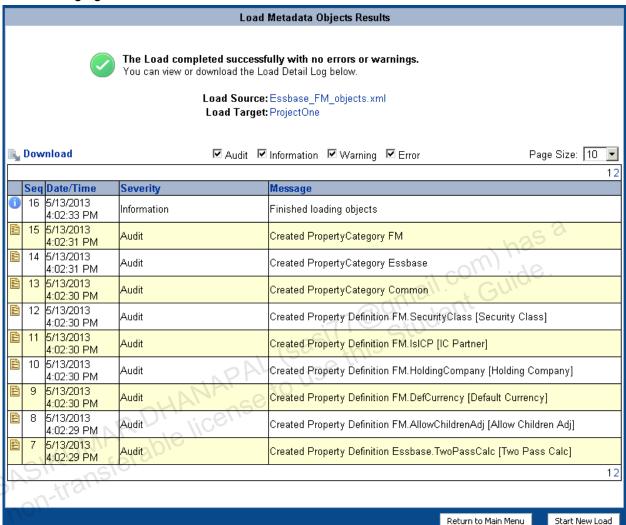
Connection Name: ProjectOne

Connection Url: net.tcp://win-0r6jrp6d18r:5212/Oracle/Drm/ProcessManager

Username: admin
Server Version: 11.1.2.3

#### 13. Leave Continue Load after Error selected, and click Run Load.

A message indicates that the load was completed without errors or warnings, as shown in the following figure:



#### 14. Download the Load Detail log:

a. Click **Download**.

The File Download dialog box is displayed.

b. Click Save.

The Save As dialog box is displayed.

- c. Browse to the desktop.
- d. Leave the file name as is, and click **Save**.

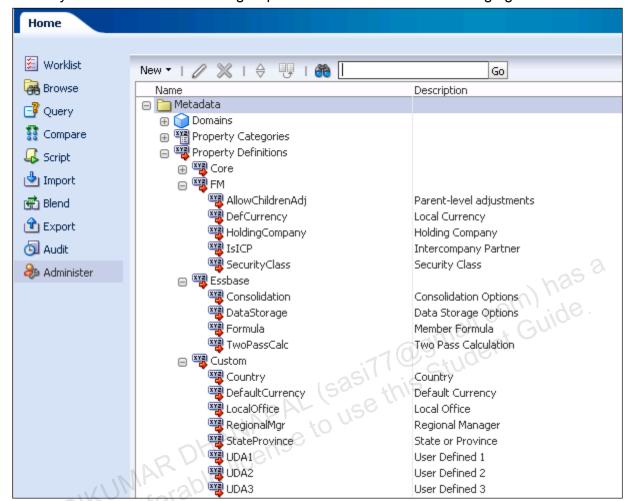
The "Download complete" dialog box is displayed.

- e. Click Close.
- 15. Review the messages on the screen, and click **Return to Main Menu**.
- 16. Select **Logout**, and close the **Main Menu** tab in the browser.

#### Verifying the New Property Categories and Properties in the ProjectOne Application

- 1. Return to Web Client. Click the **Home** tab and then the **Administer** task group.
- 2. If you are prompted to log on again, click **OK**, and then log on with user name admin and password Welcome!
- 3. If needed, expand Property Categories and Property Definitions.
- 4. Verify that the following Property Categories are listed:
  - Common
  - Essbase
  - FM
  - Location
- 5. If needed, under Property Definitions, expand **Custom**.
- 6. Verify that the following properties are added to the list of properties that you previously created:
  - UDA1
  - UDA2
  - UDA3
- and FM -7. Under Property Definitions, expand Essbase, and verify that the following properties are listed:
  - Consolidation
  - DataStorage
  - Formula
  - **TwoPassCalc**
- 8. Under Property Definitions, expand **FM**, and verify that the following properties are listed:
  - AllowChildrenAdj
  - DefCurrency
  - HoldingCompany
  - **IsICP**
  - SecurityClass

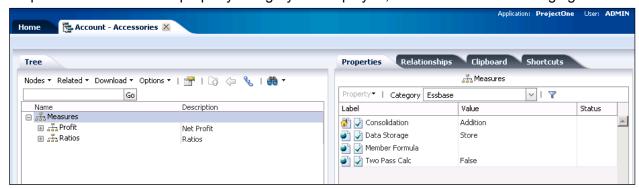
9. Verify that the Administer task group looks the same as the following figure:



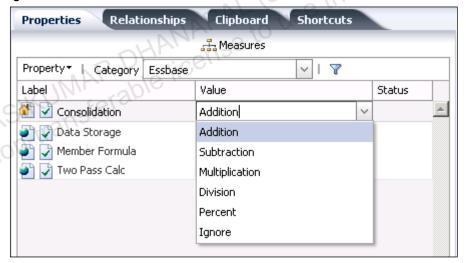
### Verifying Property Values and Lookup Tables in the ProjectOne Application

- 1. Select the **Browse** task group.
- 2. On the Hierarchies tab, double-click the **Account** hierarchy to open it. The Account Accessories tab is displayed.

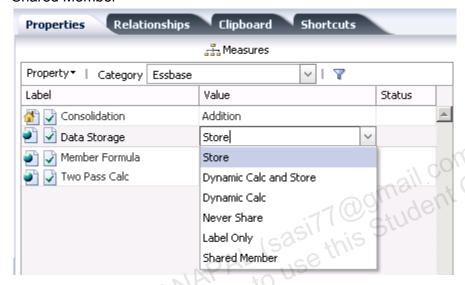
In the Category drop-down list on the right, select **Essbase**. Properties of the Essbase property category are displayed, as shown in the following figure:



- Select the Consolidation property, select the drop-down list, and verify that the list contains the following values (as shown in the following figure):
  - Addition
  - Subtraction
  - Multiplication
  - Division
  - Percent
  - Ignore



- 5. Select the **Data Storage** property, select the drop-down list, and verify that the list contains the following values (as shown in the following figure):
  - Store
  - Dynamic Calc and Store
  - Dynamic Calc
  - Never Share
  - Label Only
  - Shared Member



6. In the Category drop-down list, select **FM**.

Properties of the FM property category are displayed, as shown in the following figure:



7. Select the **IC Partner** property, select the drop-down list, and verify that the list contains the values **Y** and **N**, as shown in the following figure:



8. Select the **Default Currency** property, enter **USD**, and click **Save**.

US is displayed in the Value box of the Security Class property, as shown in the following figure:

Properties Relationships Clipboard Shortcuts



9. In the Value box of the Default Currency property, enter CAD, and click Save.

CANADA is displayed in the Value box of the Security Class property, as shown in the following figure:



10. Close the **Account - Accessories** tab.

Practices for Lesson 5:
Importing Data
Chapter 5 Importante license to SASIKUMAR DHANAP AL Chapter 5 to SASIKUMAR DHANAP II Chapter 5 to SASIKUMAR D

# **Practices for Lesson 5: Overview**

#### **Practices Overview**

In this practice, you will import data into a new version



# **Practice 5-1: Importing Nodes into a New Version**

#### Overview

In this practice, you import nodes into a new version.

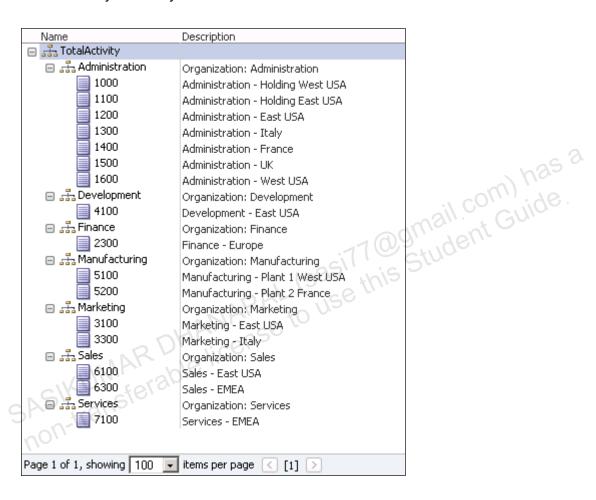
#### **Tasks**

Your company has just acquired another company that sells hardware and software components. You want to incorporate the dimensions from this new company into your ProjectOne application. You are given the data in the form of a comma-delimited text file.

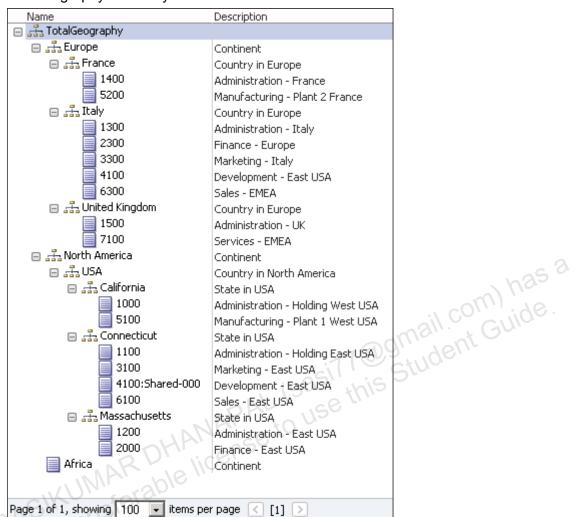
- 1. In the class files folder, open and review the import file named HardwareSoftwareLoad.txt.
- Create an import with the following configuration. Accept default values and selections unless otherwise specified.
  - a. Examine the import file to determine the delimiter and file sections to specify.
  - b. When configuring the style, set up the following:
    - Allow leaf nodes to be determined at the end of the import process.
    - Configure duplicate nodes so that they are named <node>:Shared-<number> (for example, 4100:Shared-001).
  - c. Configure the property order for hierarchies as follows:
    - 1\* Hier Name
    - 2\* Top Node
  - d. Configure the property order for nodes as follows:
    - 1\* Name
    - 2 Description
  - e. Configure the property order for relations as follows:
    - 1\* Name
    - 2\* Parent Node
    - 3 Description
    - 4 Default Currency
    - 5 UDA1
    - 6 UDA2
  - f. Configure the target as follows:
    - Name: HardwareSoftware
    - Description: Computer Hardware and Software
    - Maximum errors: 20
    - Save Version to Repository: selected
  - g. Save the import as follows:
    - Name: HardwareSoftwareLoad
    - Description: Import for hardware and software dimensions
    - Object Access Group: User
- 3. Run the HardwareSoftwareLoad import, and review the import process results. The Status reads [CompleteSuccess], and there is 1 error and 0 warnings.

The results should show that you added 3 hierarchies, 50 nodes, and 3 orphan nodes. In addition, one duplicate node exists. The error message indicates that the duplicate node is node 4100, located in the Geography hierarchy. The duplicate was renamed 4100:Shared-001.

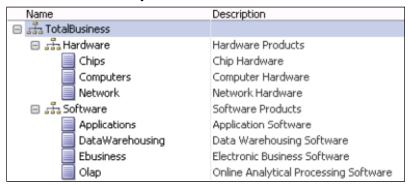
- 4. Verify that the following hierarchies exist in the HardwareSoftware version, as shown in the following figures:
  - Activity hierarchy:



### Geography hierarchy:



### Product hierarchy:



# Solution 5-1: Importing Nodes into a New Version

### **Steps**

#### Reviewing the Structure of the Text File

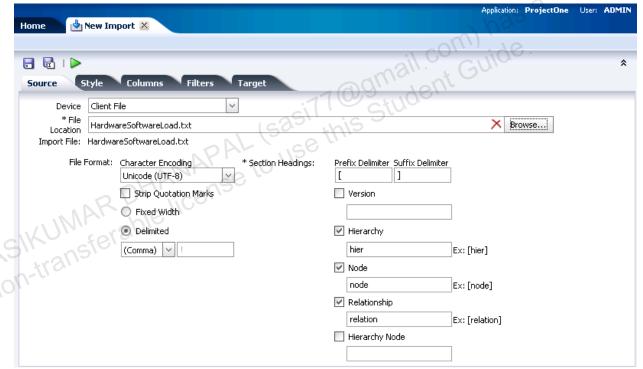
- 1. In the class files folder, open **HardwareSoftwareLoad.txt**.
- 2. Review the structure of the text file, and then close it.

The file contains the following [Hier], [Relation], and [Node] sections:

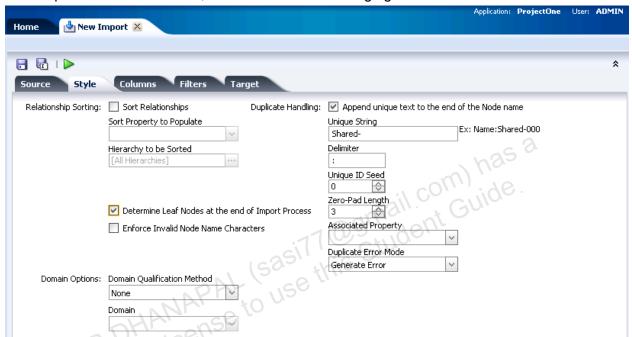
```
[Hier]
  Activity, Total Activity
  Geography, Total Geography
  Product, TotalBusiness
  [Relation]
  Hardware, Total Business, Hardware Products, , , Active
  Network, Hardware, Network Hardware, , , Active
  Chips, Hardware, Chip Hardware, , , Active
  Computers, Hardware, Computer Hardware, , , Active
  Software, Total Business, Software Products, , , Active
  Applications, Software, Application Software, ,, Active
  DataWarehousing, Software, Data Warehousing Software, , , Active
  Ebusiness, Software, Electronic Business Software, , , Active
  Connecticut, USA, State in USA, USD, Development, Active
  1100, Connecticut, Administration - Holding East USA, USD, , Active
  3100, Connecticut, Marketing - East USA, USD, , Active
  4100, Connecticut, Development - East USA, USD, , Active
6100, Connecticut, Sales - East USA, USD, Sales, Active
  Massachusetts, USA, State in USA, USD, Development, Active
  1200, Massachusetts, Administration - East USA, USD, , Active
  2000, Massachusetts, Finance - East USA, USD, , Active
  Africa, Total Geography, Continent,,, Active
  4100, Italy, Development - East USA, USD, , Active
  [Node]
  South Africa, Country in Africa
  Asia, Continent
  China, Country in Asia
```

#### Creating the HardwareSoftwareLoad Import

- In Web Client on the Home tab, select the Import task group.
- On the toolbar, click the New Import button ( ).
   The New Import tab is displayed, and the Source subtab is displayed by default.
- 3. Configure the Source tab:
  - a. In the Device drop-down list, leave Client File selected.
  - b. Next to File Location, click **Browse**, browse to the class files folder, select **HardwareSoftwareLoad.txt**, and click **Open**.
  - c. In the Character Encoding drop-down list, leave **UTF8** selected.
  - d. Leave **Delimited** selected, and select **(Comma)**.
  - e. Leave the Prefix and Suffix Delimiters set to [ and ].
  - f. Leave **Hierarchy**, **Node**, and **Relationship** selected, and clear **Version** and **Hierarchy Node**, as shown in the following figure:



- 4. Click the **Style** tab, and configure it:
  - a. Select Determine Leaf Nodes at the end of Import Process.
  - b. Leave the Domain Options at their default values.
  - c. Leave Append unique text to the end of the Node name selected.
  - d. Leave **Shared-** as the unique string, and the colon (:) as the delimiter.
  - e. Leave Unique ID Seed equal to **0**, Zero-Pad Length equal to **3**, and Duplicate Error Mode equal to **Generate Error**, as shown in the following figure:

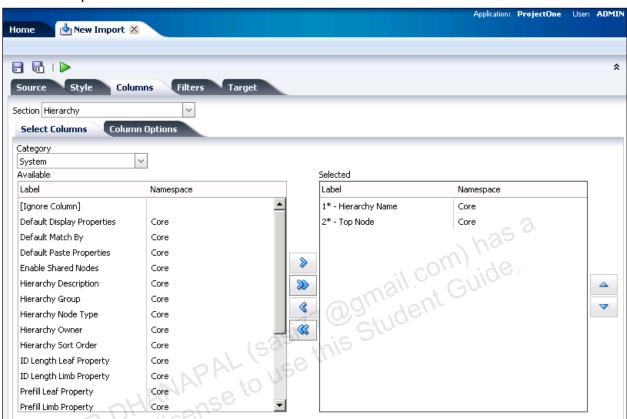


- 5. Configure the property order for hierarchies:
  - Click the Columns tab.
  - In the Section drop-down list, select Hierarchy.
     Available and selected hierarchy properties are displayed.
  - c. In the Selected list, select 3 Hierarchy Description, and click the Remove button



The Selected list contains the following properties (as shown in the following figure):

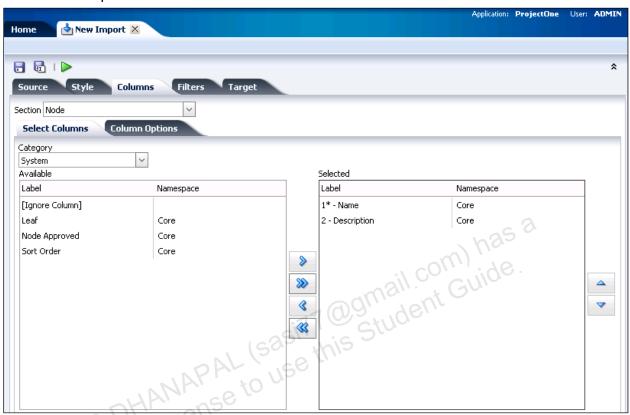
- 1\* Hierarcy Name
- 2\* Top Node



- 6. Configure the property order for nodes:
  - a. In the Section drop-down list, select Node.
    - b. In the Selected list, select **3 Leaf**, and click the Remove button ( ).

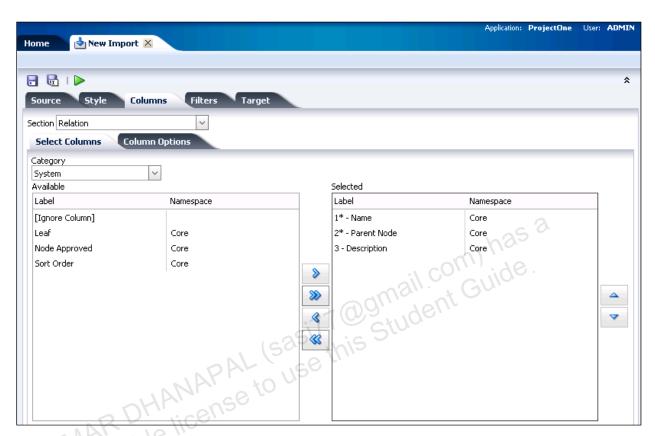
The Selected list contains the following properties (as shown in the figure):

- 1\* Name
- 2 Description



- 7. Configure the property order for relations:
  - a. In the Section drop-down list, select **Relation**.
     Available and selected properties are displayed.
  - b. In the Selected list, select **2\* Name**, and click the Move Up button ( ).
    - 1\* Name is displayed at the top of the Selected list.

c. In the Selected list, select **4 - Leaf**, and click the Remove button ( ). Leaf is displayed in the Available list, as shown in the following figure:

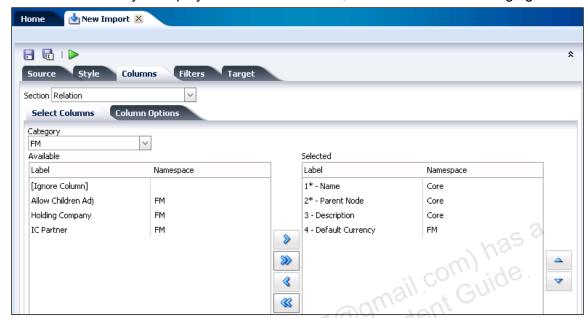


d. In the Category drop-down list, select FM.
 The Available list is populated with FM category properties.

In the Available list, select **Default Currency**, and click the Select button (



4 - Default Currency is displayed in the Selected list, as shown in the following figure:



In the Category drop-down list, select **Common**. f.

The Available list is populated with Common category properties.

In the Available list, select UDA1 and UDA2, and click

The Selected list contains the following properties:

- 1\* Name
- 2\* Parent Node
- 3 Description
- 4 Default Currency
- 5 UDA1
- 6 UDA2
- **Optional:** View the default configuration for column options:
  - Click the **Columns Options** tab.
  - View the default selections.

Apply Value To All Hiers is selected, and [All Hierarchies] is displayed under Hierarchy Listing.

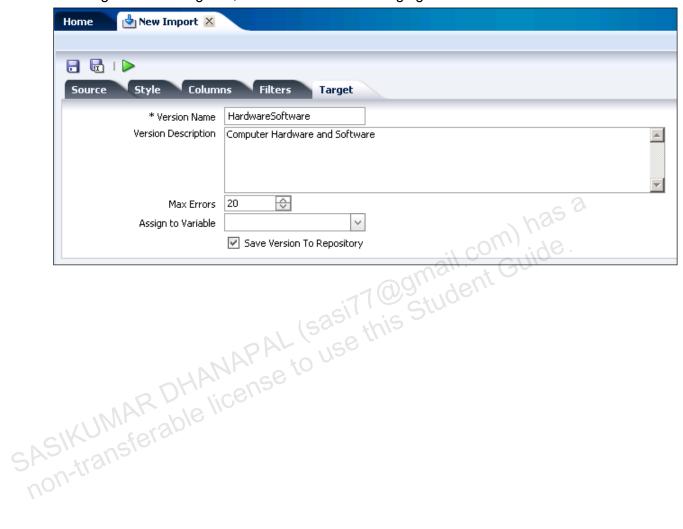
- **Optional:** View the default configuration for filters:
  - Click the Filters tab.
  - View the default selections.

By default, the import is configured to skip blank values for defined, inheriting, and derived properties. It is also configured to skip default values for defined properties.

- 10. Configure the target:
  - Click the **Target** tab. a.
  - In the Version Name box, enter **HardwareSoftware**.

- b. In the Version Description box, enter Computer Hardware and Software.
- c. Leave Max errors set to 20.
- d. Select Save Version to Repository.

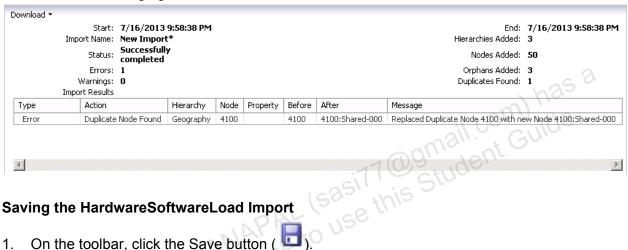
The Target tab is configured, as shown in the following figure:



#### Running HardwareSoftwareLoad and Reviewing the Results

- On the toolbar, click the Run button ( ). The import results are displayed at the bottom of the page.
- 2. Review the results:
  - The Status reads [Successfully completed], and there is 1 error and 0 warnings.
  - The results show that you added 3 hierarchies, 50 nodes, and 3 orphan nodes. Also, one duplicate node exists. The error message indicates that the duplicate node is node 4100, located in the Geography hierarchy. The duplicate was renamed 4100:Shared-

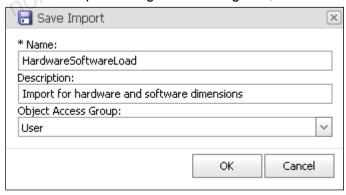
The following figure shows the results:



#### Saving the HardwareSoftwareLoad Import

- On the toolbar, click the Save button ( ). The Save Import dialog box is displayed.
- 2. In the Name box, enter HardwareSoftwareLoad.
- In the Description box, enter Import for hardware and software dimensions.
- 4. In the Object Access Group drop-down list, leave **User** selected.

The Save Import dialog box is configured, as shown in the following figure:



Click OK.

#### **Verifying the Imported Hierarchies**

Close the HardwareSoftwareLoad tab.

The Home tab displays the Import task group that lists the HardwareSoftwareLoad import.

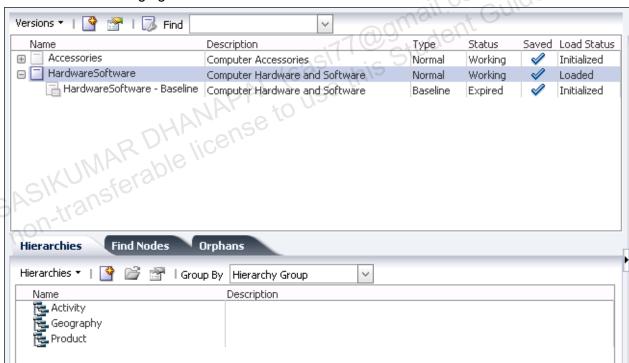


2. Select the **Browse** task group.

The HardwareSoftware version is loaded, saved, and its status is set to Working.

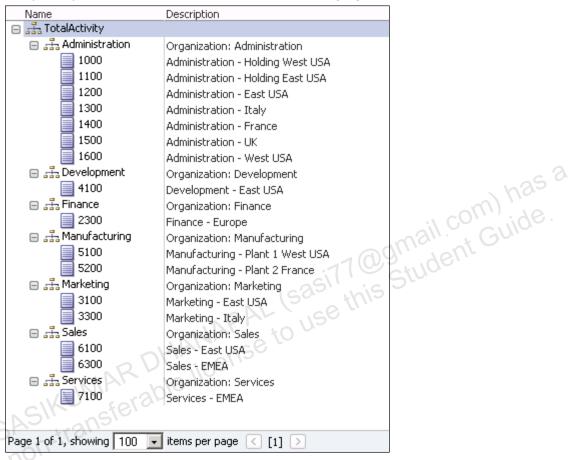
3. Select the HardwareSoftware version.

On the Hierarchies tab, the Activity, Geography, and Product hierarchies are listed, as shown in the following figure:



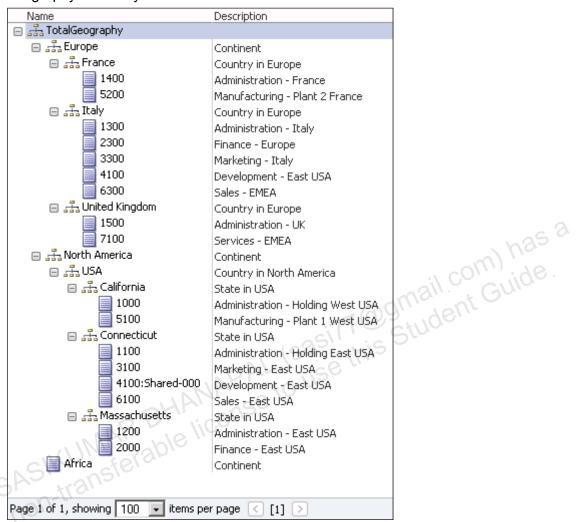
- On the Hierarchies tab, double-click the Activity hierarchy to open it.
- 5. View node descriptions:
  - In the Options drop-down list, select View By, and then User Properties.
     The View By dialog box is displayed.
  - b. In the Available list, select **Description**, and click the Select button (
  - c. Click OK.

- 6. Expand the tree to display all nodes:
  - On the toolbar, click the "Expand tree to specified level" button ( ).
     The "Expand Tree to Level" dialog box is displayed.
  - b. In the box, enter 5, and click **OK**.
- 7. Verify that your results are the same as the following figure:



8. Click the **Home** tab and repeat steps 4 through 7 for the Geography and Product hierarchies.

#### Geography hierarchy:



#### Product hierarchy:



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Practices for Lesson 6:
Querying and Companion
Data SASIKUMAR DHANAPAL SASIKUMAR DHANAPAL Icense

Chapter 6

## **Practices for Lesson 6: Overview**

#### **Practices Overview**

You now have two versions in your ProjectOne application: Accessories and HardwareSoftware. Your goal is to combine these two versions into one; however, before you can do that, you must ensure that the data is accurate and clean. In these next exercises, you query, compare, and fix the data as needed.

# **Practice 6-1: Finding and Removing Duplicate Nodes**

#### Overview

In this practice, you find and remove duplicate nodes.

#### **Tasks**

You need to find duplicate nodes and remove them because they are not allowed in any version in the ProjectOne application.

1. Search for duplicate nodes in the HardwareSoftware version. You should return one pair of duplicate nodes.

**Tip:** Remember how you labeled duplicate nodes when you imported the HardwareSoftware version.

- 2. Investigate the duplicate nodes to determine the problem.
- 3. Resolve the duplicate nodes by removing one of the duplicates and moving the other to the appropriate place. Be sure to read the node descriptions to determine where the remaining duplicate belongs.

# **Solution 6-1: Finding and Removing Duplicate Nodes**

#### Steps

#### **Finding Duplicate Nodes**

- If needed, on the Home page, select the **Browse** task group.
- 2. Select the HardwareSoftware version.
- 3. Click the **Find Nodes** tab.
- Click the Find By drop-down list button ( •• ), and ensure that **Name** is selected. 4.
- In the search box, enter \*: Shared-\*. 5.

You enter \*: Shared-\* in the search box because when you created the import, you specified to append the delimiter ":" and the string "Shared-" to duplicate nodes.

**Note:** Be sure to include an asterisk before and after :Shared-.

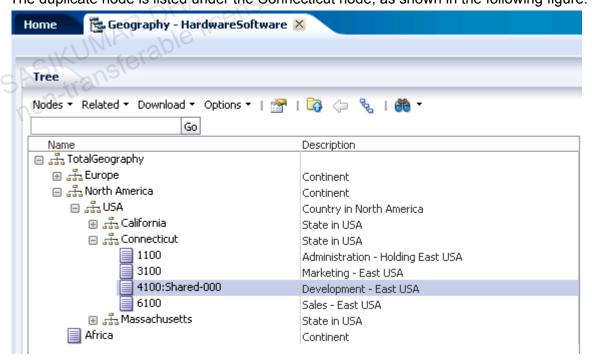
Click Go.

Node 4100: Shared-000 from the Geography hierarchy is listed, as shown in the following figure:



#### **Investigating the Duplicate Node**

On the row containing the duplicate node, click the Go To Node button ( ). The duplicate node is listed under the Connecticut node, as shown in the following figure:

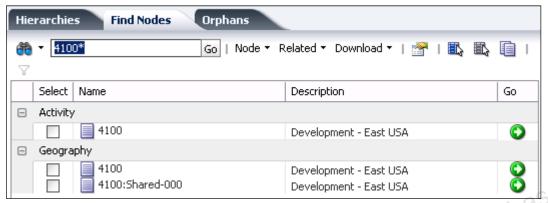


- Return to the **Home** tab, and click the **Find Nodes** tab.
- In the search box, enter 4100\*.

You enter 4100\* in the search box to find all nodes that start with the name 4100.

Click Go.

The results indicate that node 4100 is part of the Activity and Geography hierarchies (as shown in the following figure). You need to investigate the nodes to determine what to do with the duplicate node.



5. Under the Geography hierarchy, on the node 4100 row, click the Go To Node

button ( 😧 ).

Node 4100 is listed as a child of the Italy node, whereas its description is "Development - East USA" (as shown in the following figure). From this investigation, you can conclude that node 4100 should be a child of the Connecticut node, and node 4100:Shared-000 should be removed from the hierarchy because duplicate nodes are not allowed in hierarchies.



#### **Resolving the Duplicate Node**

From the parent node Italy, drag node 4100 directly onto the 4100:Shared-000 node.
 The Put Node(s) dialog box is displayed. Notice that Put as Sibling is selected and you cannot change it.

#### 2. Click OK.

Node 4100 is displayed as a leaf node under the Connecticut node above the 4100:Shared-000 node.

Right-click the 4100:Shared-000 node, and select Delete.

The Delete Node dialog box is displayed.

#### 4. Select Delete node.

Node 4100:Shared-000 is deleted from the Connecticut node. The Connecticut node should look similar to the following figure:

⊟ ೄ Connecticut	State in USA
1100 3100 4100 6100	Administration - Holding East USA
3100	Marketing - East USA
4100	Development - East USA
6100	Sales - East USA

# **Practice 6-2: Listing and Resolving Orphan Nodes**

#### Overview

In this practice, you locate and resolve orphan nodes.

#### **Tasks**

Often after an import, orphan nodes result. You must find any orphan nodes in the HardwareSoftware version and either remove them or put them in a hierarchy.

- 1. List the orphan nodes in the HardwareSoftware version. **Hint:** You should find three orphan nodes.
- 2. Based on their descriptions, correctly place them as leaf or limb nodes in the Geography hierarchy.



# **Solution 6-2: Listing and Resolving Orphan Nodes**

#### **Steps**

#### **Listing Orphan Nodes**

Click the **Home** tab.

The Browse task group is displayed.

- 2. If needed, select the **HardwareSoftware** version.
- Click the **Orphans** tab. 3.
- Verify that the following orphan nodes are listed (as shown in the following figure): 4.
  - Asia
  - China
  - South Africa



#### **Resolving the Orphan Nodes**

- Select all the orphan node check boxes.
- In the Node drop-down list, select Take. 2.

The Asia, China, and South Africa nodes are added to the clipboard, as shown in the following figure:



- 3. Click the **Hierarchies** tab.
- 4. Double-click the **Geography** hierarchy to open it.
- Click the Clipboard tab. 5.
- 6. Clear the China and South Africa nodes.
- In the hierarchy tree, right-click the **TotalGeography** node, and select **Put**. 7. The Put Node(s) dialog box is displayed. Notice that Put as Child is selected and you cannot change it.

8. Click OK.

The Asia node is displayed as a leaf.

- 9. Right-click the **Asia** node, and select **Node Properties**.
- In the Category drop-down list on the Properties tab, select the **System** property category if it is not selected.
- 11. Click in the Value box for the Leaf property, select False, and click Save.

The Asia node is displayed as a limb node in the hierarchy tree.

- 12. Click the **Clipboard** tab.
- 13. Clear the **Asia** check box, and select the **China** node.
- 14. In the hierarchy tree, right-click the **Asia** node, and select **Put**.

The Put Node(s) dialog box is displayed.

15. Leave Put as Child selected, and click OK.

The China node is displayed as a leaf under the Asia node.



- 16. In the hierarchy tree, right-click the **Africa** node, and select **Node Properties**.
- 17. In the Category drop-down list on the Properties tab, select the **System** property category if it is not selected.
- 18. Click in the Value box for the Leaf property, select False, and click Save.

The Africa node is displayed as a limb node in the hierarchy tree.

- 19. Click the **Clipboard** tab.
- 20. Clear China, and select South Africa.
- 21. In the hierarchy tree, right-click the **Africa** node, and select **Put**.

The Put Node(s) dialog box is displayed.

22. Leave Put as Child selected, and click OK.

South Africa is displayed as a leaf under the Africa node.

23. Select all nodes on the clipboard, and on the clipboard toolbar, click the "Remove node

from clipboard" button ( 🐓 ).

The clipboard is emptied. There are no longer any orphan nodes.

# **Practice 6-3: Finding and Deleting Stranded Parents**

#### Overview

In this practice, you find and resolve limb nodes without children (stranded parents).

#### **Tasks**

Part of the data-cleaning process involves removing stranded parents; therefore, you must find and delete those types of nodes in both the Accessories and the HardwareSoftware versions.

- Create a query that finds stranded parents in the HardwareSoftware version. You should not find any stranded parents in this version.
- Modify the guery to find stranded parents in the Accessories version. You should find one stranded parent: Asia.
- Save the guery as follows:
- SASIKUMAR DHANAPAL (sasi77@gmail.com) has a live this Student Guide.
- 4.

# **Solution 6-3: Finding and Deleting Stranded Parents**

#### **Steps**

#### Finding Stranded Parents in the HardwareSoftware Version

- 1. Click the **Home** tab, and then the **Query** task group.
- On the toolbar, click the New Query button ( ).
   The New Query tab is displayed, and the Source subtab is displayed by default.
- 3. In the Version drop-down list, select **HardwareSoftware**. Query Scope: Global is displayed, as shown in the following figure:

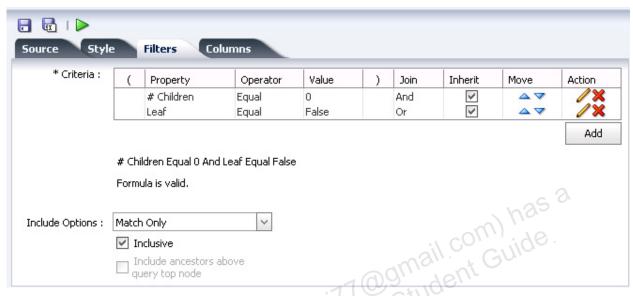


- 4. Click the Filters tab.
- 5. In the Criteria area, click Add.
- 6. In the Property drop-down list, select # Children.
- 7. In the Operator drop-down list, select Equal.
- 8. In the Value box, enter **0.**
- 9. In the Join drop-down list, select And.
- 10. In the Action column, click the Update button ( 🛅 ).
- 11. Click Add.
- 12. In the Property drop-down list, select Leaf.
- 13. In the Operator drop-down list, select **Equal**.
- 14. In the Value box, enter False.

15. In the Action column, click the Update button ( 🛅 ).

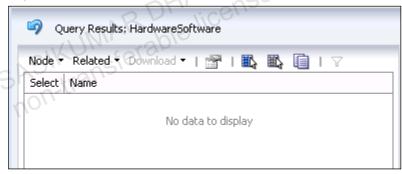
The following formula is displayed (as shown in the figure):

# Children Equal 0 And Leaf Equal False Formula is Valid



16. On the toolbar, click the Run button ( )

The query returns zero results, indicating that the HardwareSoftware version does not have any stranded parents.



#### Finding Stranded Parents in the Accessories Version

- Click the "Return to Query Wizard" button ( ).
   The Source tab is displayed.
- 2. In the Version drop-down list, select **Accessories**.

3. On the toolbar, click the Run button ( ). The guery returns the Asia node, as shown in the following figure:



#### Saving the Query

- 1. Click the "Return to Query Wizard" button ( 🦃 ). The Source tab is displayed.
- James 2. On the toolbar, click the Save ( ).

- 1. Select the **Browse** task group.
- 2. Select the **Accessories** version.
- Click the Find Nodes tab.
- 4. In the search box, enter Asia, and click Go.
- 5. On the Asia row in the Go column, click the Go To Node button ( ). The Entity - Accessories tab is displayed. The Asia node is selected in the hierarchy tree.
- 6. Right-click the **Asia** node, and select **Delete**.

The Delete Node dialog box is displayed.

7. Select Delete node.

The Asia node is deleted from the Entity hierarchy.

# **Practice 6-4: Resolving Nodes with Name Conflicts**

#### Overview

In this practice, you resolve nodes with name conflicts.

#### **Tasks**

Before blending data from different versions, it is important to resolve nodes with name conflicts. That is, you must find nodes that share the same name, but have unrelated children. In these cases, you need to give the nodes unique names so that they are not improperly mixed when you blend versions.

- Create a compare that compares structure similarities between the Entity hierarchy (in the Accessories version) and the Geography hierarchy (in the HardwareSoftware version). During configuration, set the following:
  - a. Join on the Name property.
  - b. For the result display, list and mark nodes. Expand to marked nodes, too.
- 2. Save the compare as follows:
  - Name: Nodes with Name Conflicts
  - Description: Finding nodes with the same name but unrelated children in the Entity and Geography hierarchies
  - Object Access Group: User
- 3. Run the compare and view the results.

The results should show that the USA node is present in both the Entity and Geography hierarchies.

- Determine whether the USA nodes are related by analyzing their descendants.
   You should determine that they are not related and that you need to rename one of the nodes.
- 5. Rename the USA node in the Accessories version United States of America. In the Entity hierarchy, verify the name change.

# **Solution 6-4: Resolving Nodes with Name Conflicts**

### **Steps**

#### **Creating a Compare**

- Click the **Home** tab and then select the **Compare** task group.
- On the toolbar, click the New Compare button ( ). The New Compare tab is displayed. The Source subtab is displayed by default.
- In the From Version drop-down list, select **Accessories**. 3.
- In the Hierarchy/Node box, click the ellipsis button ( ....). The Select Node dialog box is displayed.
- 5. In the Hierarchy drop-down list, select **Entity**.
- 6. In the Nodes list, select **TotalEntities**, and click **OK**.
- 7. In the To Version drop-down list, select **HardwareSoftware**.
- @gmail.com) has a grade. Guide. In the Hierarchy/Node box, click the ellipsis button ( ....). 8. The Select Node dialog box is displayed.
- In the Hierarchy drop-down list, select **Geography**.
- 10. In the Nodes list, select TotalGeography.
- 11. Click **OK**.
- 12. Click the Style tab.
- 13. In the Compare Type drop-down list, select **Structure**. (You run a structure compare to look for similarities on limb nodes.)
- 14. Below the Compare Type drop-down list, select Similarities.
- 15. In the Join Field drop-down list, select **Name**.
- In the Result Display drop-down list, select Both (to list and mark nodes).
- 17. Select Expand To Marked Nodes.

#### **Saving the Compare**

- On the toolbar, click the Save button ( ). The Save Compare dialog box is displayed.
- In the Name box, enter Nodes with Name Conflicts. 2.
- In the Description box, enter Finding nodes with the same name but unrelated children in the Entity and Geography hierarchies.
- In the Object Access Group drop-down list, leave **User** selected. 4.
- 5. Click **OK**.

#### **Running the Compare and Viewing the Results**

On the toolbar, click the Run button ( ).

The results are displayed, as shown in the following figure. On the left, the USA node from the Entity hierarchy is displayed. On the right, the USA node from the Geography hierarchy is displayed. Because they share the same node name, you want to make sure that their children are related. If they are not, you need to rename one of the nodes.



**Note:** If your results are not the same, click the "Return to Compare Wizard" button ( ) to return to the Source tab, and review your settings for the compare.

#### **Determining Whether the USA Nodes Are Related**

- 1. View the descendants of the USA node in the Entity hierarchy:
  - a. In the left list, select the **USA** node.
  - b. In the Related drop-down list, select **Descendants**.
  - c. On the Relationships tab, view the descendants.
     The children are regions (for example, East) and cities (for example, San Francisco).
- View the descendants of the USA node in the Geography hierarchy:
  - a. In the right list, select the **USA** node.
  - b. In the Related drop-down list, select **Descendants**.
  - c. On the Relationships tab, view the descendants.
     The children are states (for example, California State in USA) and activities within those states (for example, node 6100 Sales East USA). Therefore, the children of both USA nodes are not related and you should rename one of the nodes.

#### Renaming the USA Node in the Accessories Version

- 1. In the left list, select the **USA** node.
- 2. In the Node drop-down list, select **Properties**.
- 3. On the Properties tab, click the **Value** box for the Name property.
- 4. Enter United States of America, and click Save.

The USA node is renamed United States of America.

- 5. In the Entity hierarchy, verify the name change:
  - a. Click the **Home** tab, and then select the **Browse** task group.
  - b. In the versions list, select the **Accessories** version.
  - c. On the Hierarchies tab, double-click the **Entity** hierarchy to open it.
     The Entity Accessories tab is displayed. The United States of America node is displayed as a child of the TotalEntities node, as shown in the following figure:



Close the Entity - Accessories and Nodes with Name Conflicts tabs.

Practices for Lesson 7:
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Scripts SASIKUMAR DHANAPAL SASIKUMAR STERBIE IIICENSE

Chapter 7

### **Practices for Lesson 7: Overview**

#### **Practices Overview**

In these practices, you create a copy of the Accessories version and run action scripts to make changes to the copy of the Accessories version. Then, after analyzing the data changes in the copy of the Accessories version, you apply these changes to the Accessories version by running an action script from a transaction log generated out of the copy of the Accessories version.

# Practice 7-1: Making Data Changes in a Copy of the Accessories Version

#### Overview

In this practice, you create a copy of the Accessories version to analyze the effect of adding nodes and changing properties on the hierarchies before applying them on the production version.

#### **Tasks**

You have several nodes to add to and node property values to change in the Accessories version. You decide to create a copy of the Accessories version and then use it for making changes to its data.

- 1. In Web Client, create a copy of the Accessories version, accept the default name, Copy Of Accessories, and save it.
- 2. In the class files folder, open ActionScript\_Accessories.txt, and review the script.
- 3. Load the action script.
- 4. Accept the default load settings.
- 5. Review the information in the ActionName and Param columns and compare it to the content in the action script file.
- 6. Troubleshoot the load errors:
  - a. Locate action scripts marked with a warning sign. Row 15 is marked with a warning sign over DataStorage.
  - b. Troubleshoot row 15 to remove the warning sign.
- 7. Run the action script, and ensure that it ran successfully.
- 8. In the Account hierarchy in the Accessories version, verify that a limb node named Inventory now exists and that it has the following leaf nodes as children:

Additions

**Ending Inventory** 

Opening Inventory

9. In the Product hierarchy in the Accessories version, verify that limb nodes named 400 and 500 now exist and that they have the following leaf nodes as children:

# Solution 7-1: Making Data Changes in a Copy of the Accessories Version

#### **Steps**

#### **Creating a Copy of the Accessories Version**

- In Web Client, select the **Browse** task group.
- In the Versions list, right-click **Accessories**, and select **Copy**.
  - The Copy Version dialog box is displayed.
- 3. Accept all default values and click **OK**.
  - The Copy of Accessories version is created in the Version list.
- 4. Right-click the **Copy of Accessories** version, and select **Save**. In the Saved column, a check mark indicates that Copy of Accessories is saved to the database.

#### **Reviewing the Action Script**

- In the class files folder, open **ActionScript\_Accessories.txt** in Notepad.

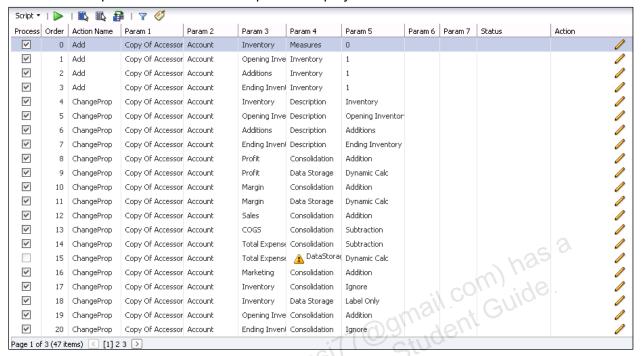
  Review the code in the script file and then close if @gmail.cag.m) nas
- 2.

#### **Loading the Action Script**

- 1. On the Home tab, select the **Script** task group?
- 2. In the Source Type drop-down list, leave File selected.
- Next to the Script File box, click Browse. The Choose File to Upload dialog box is displayed.
- 4. Browse to the class files folder, select ActionScript Accessories.txt, and click Open.
- 5. Leave the column order set to Action, Param1, Param2, Param3, Param4, Param5, Param6, and Param7.
- 6. Leave the character encoding set to **Unicode (UTF-8)**.
- 7. Leave the delimiter set to **Comma**.
- 8. Leave **Strip Quoted Strings** cleared.
- Leave Property References By Label selected.

#### 10. Click Load.

The action script is loaded and the scripts are displayed.



11. Review the information in the **ActionName** and **Param** columns.

**Note:** Click the forward or backward button [1] 2 3 below the action script to navigate from page to page.

#### **Troubleshooting Load Errors**

- 1. Review the action items, and locate those that are marked with a warning sign. Row 15 is marked with a warning sign.
- 2. On row 15, position the cursor over the warning sign next to **DataStorage** to learn the problem.

The tooltip displays the following message: "Cannot find a property with this label."

- 3. Find another action item that specifies the **Data Storage** property (for example, row 18), and click the Edit button ( // ) for that row.
- 4. Select the drop-down list beside Data Storage (the Param4 value) and make note of the namespace for Data Storage.

The namespace for Data Storage is Essbase. You need to ensure that the Param4 value on row 15 is consistent with this.

- Correct the problem:
  - a. On row 15, click the Edit button ( 🥒).
  - b. In the Param4 column, select **DataStorage**.

A drop-down list of properties is displayed.

- c. Scroll down and select **Data Storage** where the namespace is equal to Essbase.
  - The Apply to All dialog box is displayed.

Select Apply to this item only.

The Param4 value on row 7 is set to Data Storage and the problem is resolved.

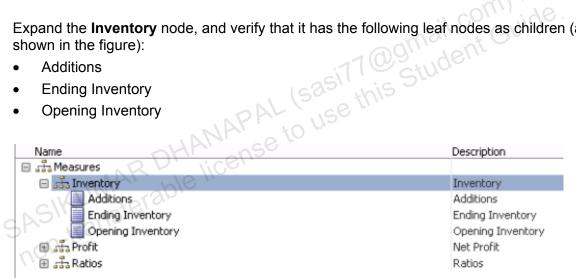
#### **Running the Action Script**

- In the Script drop-down list, select Run. A Confirmation dialog box indicates that the script was completed successfully.
- 2. Click OK.
- In the Status column, review the information to determine whether the action script ran 3. successfully.

All actions were successfully processed.

#### Verifying the Inventory Node and Its Children

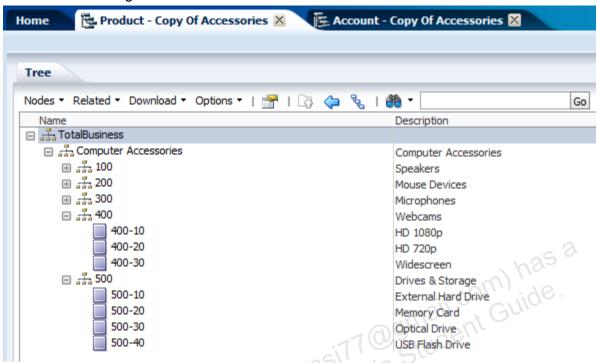
- 1. On the Home tab, select the **Browse** task group.
- 2. In the versions list, select the **Copy Of Accessories** version.
- 3. On the Hierarchies tab, double-click the **Account** hierarchy to open it. The Account – Copy Of Accessories tab is displayed.
- 4. In the hierarchy tree, verify that an **Inventory** limb node exists.
- Expand the Inventory node, and verify that it has the following leaf nodes as children (as shown in the figure):
  - Additions
  - **Ending Inventory**
  - **Opening Inventory**



#### Verifying the 400 and 500 Nodes and Their Children

- Click the **Home** tab.
- On the Hierarchies tab, double-click the **Product** hierarchy to open it. The Product – Copy Of Accessories tab is displayed.
- 3. Expand the **Computer Accessories** node.
- Verify that the **400** and **500** limb node exist.

5. Expand the **400** node and the **500** node, and verify that they have the following leaf nodes as shown in the figure:



6. Close the Product – Copy Of Accessories and Account – Copy Of Accessories tabs.

# **Practice 7-2: Applying Data Changes to the Accessories Version**

#### Overview

In this practice, you use a transaction log from the Copy Of Accessories version as a source for an action script to apply changes to the Accessories version.

#### **Tasks**

After you analyzed changes made to the Copy Of Accessories version, you decide to apply them to the Accessories version.

- Load the transaction log from the Copy Of Accessories as a source for an action script.
  - Select data transactions only.
  - Review the information in the Param1 column and change the version to Accessories.
- 2. Run the action script.
- SASIKUMAR DHANAPAL (sasi77@gmail.com) has a student Guide.

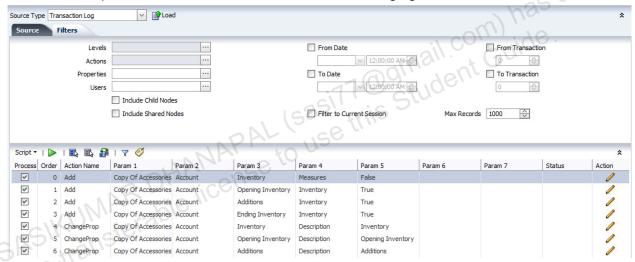
# Solution 7-2: Applying Data Changes to the Accessories Version

#### **Steps**

#### **Loading the Action Script**

- 1. Click the **Home** tab, and then select the **Script** task group.
- 2. In the Source Type drop-down list, select **Transaction Log**. The Source tab and the Filters tab are displayed.
- 3. On the Source tab, perform the following actions:
  - a. In the Version drop-down list, select Copy Of Accessories.
  - b. Clear the System Transactions option.
  - c. Leave the Data Transactions option selected.
- 4. On the Filters tab, clear the **Filter to Current Session** option.
- 5. Click Load.

The action script items are loaded, as shown in the following figure.



#### **Changing the Script Target Version to Accessories**

- In the Script drop-down list, select Substitute Versions.
   The Script Version Substitution dialog box is displayed.
- In the Substitute drop-down list, select Accessories and click OK.
   The Param1 column values changed to Accessories.

#### **Running the Action Script**

- In the Script drop-down list, select Run.
   A message indicates that the script was processed successfully.
- 2. Click OK.

#### **Verifying the Accessories Version**

- 1. In Web Client, select the **Browse** task group.
- 2. In the Versions list, select **Accessories**.
- 3. Open the Account hierarchy and verify that it has the Inventory limb node with children.
- 4. Open the Product hierarchy and verify that it has new 400 and 500 nodes with their children.



Practices for Lesson 8:
Blending Versions
Chapter 8 Blendi Blendi Chapter 8 SASIKUMAR DHANAP AL Chapter 8 SASIKUMAR DHANAP to US

## **Practices for Lesson 8: Overview**

#### **Practices Overview**

In this practice, you create a blender to merge data from two versions, Accessories and HardwareSoftware, into a new version TotalComputer. You then reorganize the Geography hierarchy by inserting nodes from the Entity hierarchy.



# Practice 8-1: Blending the Accessories and HardwareSoftware Versions

#### Overview

In this practice, you create a blender to merge data.

#### **Tasks**

By now, you have cleaned the data and updated it with action scripts. You are ready to blend the Accessories version and the HardwareSoftware versions. For this particular blend, you want to blend the HardwareSoftware version into the Accessories version. Following the blend, you move some nodes from the Entity hierarchy to the Geography hierarchy, enabling you to delete the Entity hierarchy.

- 1. Define a blender with the following configuration:
  - a. Configure the source:
    - Blend the HardwareSoftware version into the Accessories version.
    - Blend all hierarchies.
  - b. Configure the style:
    - Process structure and properties.
    - Allow hierarchy creation.
  - c. Configure the filter to process only inserts and moves.

Note: It is important that you do not process removes.

- d. Configure properties:
  - Blend all properties, but not validations and access control.
  - Propagate property values from the source to the target only when they are different in the source.
- e. Configure the target:
  - Create a new version named TotalComputer.
  - Enter the following description: HardwareSoftware blended into Accessories.
  - Set the maximum number of iterations to 3.
- 2. Save the blender as follows:
  - Name: TotalComputer
  - Description: Blends the HardwareSoftware version into the Accessories version
  - Object Access Group: User
- 3. Run the blender and review the run statistics.
- 4. In the TotalComputer version, verify the blender results:
  - a. Verify that the Accounts, Activity, Geography, Entity, and Product hierarchies are listed.
  - b. Verify that the Product hierarchy consists of Computer Accessories, Hardware, and Software nodes, as well as their descendants.
- 5. Make the following adjustments in the Geography hierarchy:
  - a. Insert the East and West nodes from the Entity hierarchy into the Geography hierarchy as children of the USA node.

- b. Move the Connecticut and Massachusetts nodes under the East node as children. Move the California node under the West node as a child. Move the San Francisco node under the California node as a child.
- 6. Delete the Entity hierarchy.
- 7. Adjust the Country property so that it references the correct node level to derive the country name in the Geography hierarchy.
- 8. Save the TotalComputer version.



# Solution 8-1: Blending the Accessories and HardwareSoftware **Versions**

## **Steps**

## **Defining the Blender**

- On the Home tab, select the **Blend** task group.
- On the toolbar, click the New Blender button ( ).

The New Blender tab is displayed, and the Source subtab is displayed by default.

- 3. Configure the source:
  - In the Source Version drop-down list, select **HardwareSoftware**.
  - In the Target Version drop-down list, select **Accessories**.
  - Leave Blend All Hierarchies selected.
- 4. Configure the style:
  - Click the **Style** tab. a.
  - b. Select the following options:
    - **Process Structure**
    - **Allow Hierarchy Creation**
    - **Allow Leaf Promotion**
    - **Process Properties**
- 5. Configure the filter:
  - Click the **Filters** tab. a.
- PAL (sasi77@gmail.com) has a guide. b. Leave Process Inserts and Process Moves selected.
  - Clear the following options:
    - **Process Removes** (It is important that you do not process removes.)
    - **Process Activations**
    - **Process Hierarchy Validation Assignments**
- 6. Configure properties:
  - a. Click the **Properties** tab.

The Profile Defaults subtab is displayed.

- b. In the Property Selection drop-down list, verify that All Excluding Val/Access is selected.
- In the Property Propagate Mode drop-down list, select **Difference**. C.
- Leave the Propagate Property Locks option unselected.
- 7. Configure the target:
  - a. Click the **Target** tab.
  - In the Target Version drop-down list, select **Copy to New Version**.
  - C. In the Name box, enter **TotalComputer**.
  - In the Description box, enter HardwareSoftware blended into Accessories.
  - e. In the Max Iterations box, enter 3.
    - Leave all other options as is.

#### Saving the Blender

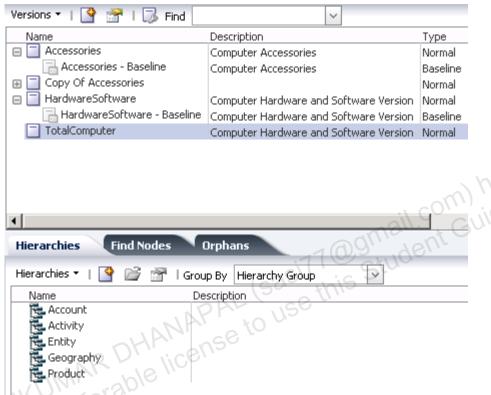
- On the toolbar, click the Save As button ( 1 ). The Save Blender dialog box is displayed.
- 2. In the Name box, enter TotalComputer.
- In the Description box, enter Blends the HardwareSoftware version into the Accessories
- In the Object Access Group drop-down list, leave **User** selected. 4.
- Click OK. 5.

#### **Running the Blender**

- On the toolbar, click the Run button ( ). The blender is processed without errors.
- Lelender tab.Al- (Sasi77@gmail.com) has a selender tab.Al- (Sasi77@gmail 2.

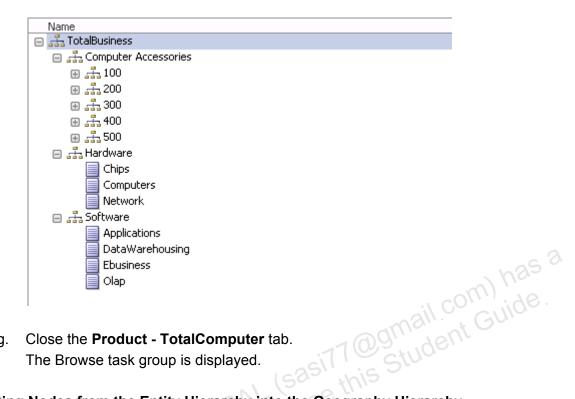
#### Verifying the Blender Results

- Select the **Browse** task group.
   In the version list, the TotalComputer version is loaded but not saved.
- 2. Select the **TotalComputer** version.
- View the hierarchy structure on the Hierarchies tab and verify that the Account, Activity, Entity, Geography, and Product hierarchies are listed (as shown in the following figure):



- 4. Verify that the Product hierarchy consists of Computer Accessories, Hardware, and Software nodes, as well as their descendants:
  - Double-click the **Product** hierarchy.
    - The Product TotalComputer tab is displayed.
  - b. Review the hierarchy structure.
    - The TotalBusiness node has three children: Computer Accessories, Hardware, and Software.
  - Expand the Computer Accessories node.
    - The Computer Accessories node has the following limb nodes: 100, 200, 300, 400, and 500.
  - d. Expand the **Hardware** node.
    - The Hardware node has the following leaf nodes: Chips, Computers, and Network.
  - e. Expand the **Software** node.
    - The Software node has the following leaf nodes: Applications, DataWarehousing, Ebusiness, and Olap.

f. Verify that your results are the same as the following figure:



Close the **Product - TotalComputer** tab.

The Browse task group is displayed.

# Inserting Nodes from the Entity Hierarchy into the Geography Hierarchy

On the Hierarchies tab, double-click the **Geography** hierarchy to open it.

The Geography - TotalComputer tab is displayed.

2. Expand the North America node.

The USA node is a child node of the North America node.

3. Expand the **USA** node.

The following limb nodes are children of the USA node: California, Connecticut, and Massachusetts.

4. Right-click the **USA** node, and select **Insert**.

The Insert Node dialog box is displayed.

- 5. Next to Insert From, leave **Existing Hierarchy** selected.
- In the Hierarchy drop-down list, select **Entity**.
- In the Nodes list, expand United States of America United States, and select the East 7. node.
- 8. Next to Insert As, leave Child selected.
- 9. Click OK.

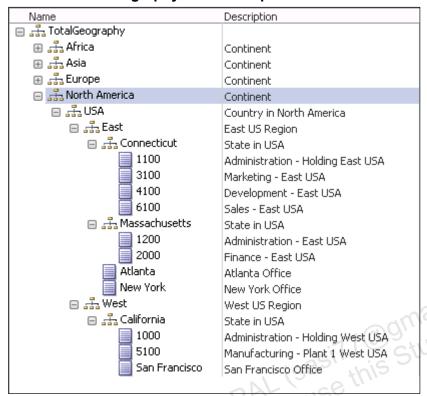
10. Repeat steps 4 through 9 to insert the **West** node from the Entity hierarchy as a child into the USA node (as shown in the following figure):

Name	Description	
□ ♣ TotalGeography	Descripcion	
🕀 🚜 Africa	Continent	
🕀 📇 Asia	Continent	
🕀 🚜 Europe	Continent	
🖃 🚠 North America	Continent	
□ ♣ USA	Country in North America	
🕀 👬 California	State in USA	
🕀 👬 Connecticut	State in USA	
🕀 📇 East	East US Region	
⊕ 🚜 Massachusetts	State in USA	
⊕ 🚠 West	West US Region	
I .		

## **Reorganizing Nodes Within the Geography Hierarchy**

- Drag the Connecticut node to the East node.
   The Choose Node Destination dialog box is displayed.
- Leave Put as Child selected, and click OK.
   The Connecticut node is displayed as a child of the East node.
- 3. Repeat steps 1 and 2 to move the **Massachusetts** node under the **East** node.
- 4. Repeat steps 1 and 2 to move the California node under the West node.
- 5. Repeat steps 1 and 2 to move the **San Francisco** node under the **California** node.
- 6. Select the **USA** node.
- 8. In the Expand to Level box, enter **5**, and click **OK**. All nodes under the USA node are displayed.

9. Verify that your node structure under the USA node is the same as the following figure, and then close the **Geography - TotalComputer** tab.



# **Deleting the Entity Hierarchy**

- 1. Click the **Home** tab.
- 2. On the Hierarchy tab, right-click the **Entity** hierarchy, and select **Delete**. The Confirm Delete dialog box is displayed.
- 3. Select Delete this item.

The Entity hierarchy is removed.

## Saving the TotalComputer Version

- 1. In the versions list, select **TotalComputer**.
- 2. In the Versions drop-down list, select **Save**.

A check mark is displayed in the Saved column for the TotalComputer version.

Practices for Lesson 9: Creating Derived Prom Chapter 9 Creatile Creatile Chapter 9
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# **Practices for Lesson 9: Overview**

#### **Practices Overview**

You are ready to create business rules for your data. In the exercises for this lesson, you create business rules by creating four derived properties with formulas and scripts.

# **Practice 9-1: Creating the DefaultAlias Property**

#### Overview

In this practice, you create a formula-derived property that concatenates node name and description values.

#### **Tasks**

Create a property named DefaultAlias that concatenates node name and description values. For example, suppose the name is East and the description is East US Region. The value for the DefaultAlias property should be East-East US Region. When a node does not have a description, the property value is null.

- 1. Define the property:
  - a. Configure the property parameters as defined in the following table:

Parameter	Value	
Name	DefaultAlias	n) has a
Label	Default Alias	com) has
Description	Alias for Default Table	co, Guige.
Property Level	Local Node	int
Property Type	Derived, Formula	
Data Type	String	
Maximum Length	80 10	
Column Width	20	

- b. Add the property to the Essbase property category.
- 2. Enter the formula and test it on the East node in the Geography hierarchy in the TotalComputer version. The result should be East-East US Region. Save the property.
- 3. In the Geography hierarchy in the TotalComputer version, verify that the DefaultAlias values are the same as those listed in the following table:

Node	Default Alias Property Value	
TotalGeography	<null></null>	
North America	North America-Continent	
USA	USA-Country in North America	
East	East-East US Region	
Atlanta	Atlanta-Atlanta Office	

# **Solution 9-1: Creating the DefaultAlias Property**

## **Steps**

## **Defining the Property**

- Select the Administer task group.
- 2. In the New drop-down list, select **Property Definition**. The New Property tab is displayed.
- 3. Configure the property parameters as defined in the following table:

Parameter	Value	
Name	DefaultAlias	
Label	Default Alias	
Description	Alias for Default Table	c 2
Property Level	Local Node	WINSS
Property Type	Derived, Formula	com) has a
Data Type	String	nt Go.
Maximum Length	80 ill Stude	7
Minimum Length	(leave empty)	
Column Width	20 15	

 On the Categories tab, select Essbase in the Available list, and click the Select button ( ) to add it to the Selected list.

# **Entering and Testing the Formula**

Essbase is added to the Selected list.

- On the toolbar, click the Save button ( ).
   The New Property tab is renamed Custom.DefaultAlias.
- 2. Click the Parameters tab.
- 3. In the formula box, enter the following formula:

IF(Equals(String,Descr(),),,Concat(Abbrev(),-,Descr()))

- 4. Test the formula:
  - Leave Remove Spaces selected.
  - b. Next to Evaluate With, leave Selected Node selected.
  - c. Next to the Selected Node box, click the ellipsis button ( ...).

The Select Node dialog box is displayed.

- d. In the Version drop-down list, select **TotalComputer**.
- e. In the Hierarchy drop-down list, select **Geography**.
- f. Under Nodes, expand the **North America** and **USA** nodes, and select the **East** node.
- g. Click OK.

"TotalComputer~Geography~East" is displayed in the Selected Node box.

- h. Above the formula box, click **Evaluate**.
- i. Verify that "East-East US Region" is displayed in the Evaluation Results box.
- 5. On the toolbar, click the Save button ( ).
- 6. Close the Custom.DefaultAlias tab.

## **Verifying Property Values**

- 1. Select the **Browse** task group.
- 2. If necessary, select the **TotalComputer** version and click the **Hierarchies** tab.
- 3. Double-click the **Geography** hierarchy to open it. The Geography TotalComputer tab is displayed.
- 4. Select the **TotalGeography** node.
- 5. In the Category drop-down list on the Properties tab, select **Essbase**, and verify that the value for the Default Alias property is blank.
- 6. Repeat steps 4 and 5 for the **North America**, **USA**, **East**, and **Atlanta** nodes, and verify that the results match the information in the following table:

Node	Default Alias Property Value	
North America	North America-Continent	
USA	USA-Country in North America	
East	East-East US Region	
Atlanta	Atlanta-Atlanta Office	

Note: Keep the Geography - TotalComputer tab open.

# **Practice 9-2: Creating the AllowAdj Property**

#### Overview

In this practice, you create a formula-derived property that evaluates whether the node is a leaf.

#### **Tasks**

Create a property named AllowAdj that determines whether journal adjustments are allowed. The property value is determined by whether the node is a leaf. If the node is a leaf, then the value is True. If not, then the value is False.

- 1. Define the property:
  - a. Configure the property parameters defined in the following table:

Parameter	Value	
Name	AllowAdj	
Label	Allow Adj	-62
Description	Allow Journal Adjustments	Mas
Property Level	Local Node	om) has a
Property Type	Derived, Formula	nt Go.
Data Type	Boolean	
Column Width	20 (505) this	

- b. Add the property to the FM property category.
- 2. Enter the formula and test it on the Atlanta node in the Geography hierarchy in the TotalComputer version. The result should be True. Save the property.
- 3. In the Geography hierarchy in the TotalComputer version, verify that the Allow Adj values match the values listed in the following table:

Node	AllowAdj Property Value	
Asia	False	
Atlanta	True	

# Solution 9-2: Creating the AllowAdj Property

## **Steps**

## **Defining the Property**

- Click the Home tab and then select the Administer task group.
- In the New drop-down list, select **Property Definition**.The New Property tab is displayed.
- 3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	AllowAdj	
Label	Allow Adj	
Description	Allow Journal Adjustments	
Property Level	Local Node	25 2
Property Type	Derived, Formula	m) has
Data Type	Boolean	il comige.
Maximum Value	(leave empty)	il com) has a dent Guide.
Minimum Value	(leave empty)	O'O
Column Width	20 (5:00 this	



5. On the toolbar, click the Save button ( ).

The New Property tab is renamed Custom.AllowAdj.

## **Entering and Testing the Formula**

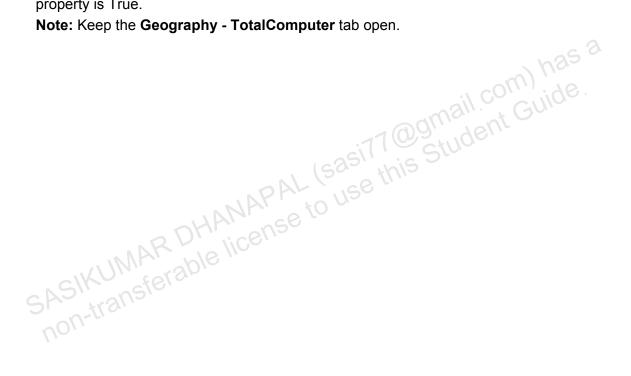
- 1. Click the **Parameters** tab.
- 2. In the formula box, enter the following formula: NodeIsLeaf()
- 3. Test the formula:
  - Leave Remove Spaces selected.
  - b. Next to Evaluate With, leave **Selected Node** selected.
  - c. Next to the Selected Node box, click the ellipsis button ( \_\_\_\_\_).
     The Select Node dialog box is displayed.
  - d. In the Version drop-down list, select **TotalComputer**.
  - e. In the Hierarchy drop-down list, select **Geography**.
  - f. Under Nodes, expand the **North America** node, then the **USA** node, and then the **East** node.
  - g. Browse to page 2.
  - h. Select the **Atlanta** node, and click **OK**.

"TotalComputer~Geography~Atlanta" is displayed in the Selected Node box.

- Above the formula box, click **Evaluate**. i.
- Verify that True is displayed in the Evaluation Results box. j.
- On the toolbar, click the Save button ( ). 4.
- 5. Close the Custom.AllowAdj tab.

# **Verifying Property Values**

- Click the **Geography TotalComputer** tab.
- 2. If needed, in the Category drop-down list on the Properties tab, select **FM**.
- In the hierarchy tree, select the Asia node, and verify that the value for the Allow Adj property is False.
- In the hierarchy tree, select the Atlanta node, and verify that the value for the Allow Adj 4. property is True.



# **Practice 9-3: Creating the DefaultParent Property**

#### Overview

In this practice, you create a formula-derived property that defines the default parent for the node.

#### **Tasks**

Create a property named DefaultParent that concatenates "DefaultParent=" and the name of the parent node. If the node is at the first level in the hierarchy, then the property value is Top Node.

- 1. Define the property:
  - a. Configure the property parameters defined in the following table:

Parameter	Value
Name	DefaultParent
Label	Default Parent
Description	Default Parent
Property Level	Local Node
Data Type	String
Property Type	Derived, Formula
Column Width	20 (Sas this

- b. Add the property to the FM property category.
- 2. Enter the formula and test it on the Profit Percent node in the Account hierarchy in the TotalComputer version. The result should be DefaultParent=Ratios. Save the property.
- 3. In the Geography hierarchy in the TotalComputer version, verify that the Default Parent values match the values listed in the following table:

Node	DefaultParent Property Value	
East	DefaultParent=USA	
New York	DefaultParent=East	
TotalGeography	Top Node	

# **Solution 9-3: Creating the DefaultParent Property**

## **Steps**

#### **Defining the Property**

- Click the Home tab and then select the **Administer** task group.
- In the New drop-down list, select **Property Definition**. The New Property tab is displayed.
- 3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	DefaultParent	
Label	Default Parent	
Description	Default Parent	
Property Level	Local Node	com) has a
Data Type	String	has
Property Type	Derived, Formula	11 comide.
Column Width	20	Jent G
	sill Stu	<del></del>
n the Categories tab, sele	ect <b>FM</b> in the Available list, and click the	e Select button ( 🎉 ) t

- On the Categories tab, select **FM** in the Available list, and click the Select button ( ) to move it to the Selected list.
- On the toolbar, click the Save button ( ). The New Property tab is renamed Custom. DefaultParent.

#### **Entering and Testing the Formula**

- Click the Parameters tab.
- 2. In the formula box, enter the following formula:

```
IF (Equals (String, PropValue (Core.Level), 1), Top
Node, Concat (DefaultParent=, ParentPropValue (Core.Abbrev)))
```

**Note:** Be sure to *not* include a paragraph return at the end of the formula.

- Test the formula:
  - a. Clear Remove Spaces.
  - Next to Evaluate With, leave Selected Node selected.
  - Next to the Selected Node box, click the ellipsis button ( ....). The Select Node dialog box is displayed.
  - In the Version drop-down list, select **TotalComputer**. d.
  - In the Hierarchy drop-down list, select **Account**. e.
  - f. Under Nodes, expand Ratios, select Profit Percent, and click OK. "TotalComputer~Account~Profit Percent" is displayed in the Selected Node box.
  - Above the formula box, click **Evaluate**. g.
  - Verify that "DefaultParent=Ratios" is displayed in the Evaluation Results box.

- On the toolbar, click the Save button ( 11). 4.
- Close the **Custom.DefaultParent** tab. 5.

# **Verifying Property Values**

- Click the Geography TotalComputer tab.
- If needed, in the Category drop-down list on the Properties tab, select FM.
- 3. If needed, expand the USA node in the hierarchy tree.
- 4. Select the East node, and verify that the value for the Default Parent property is DefaultParent=USA.
- If needed, expand the East node. 5.
- Select the New York node, and verify that the value for the Default Parent property is DefaultParent=East.
- SASIKUMAR DHANAPAL (sasi77@gmail.com) has a student Guide. Select the TotalGeography node, and verify that the value for the Default Parent property is 7.
- 8.

# **Practice 9-4: Creating the EntitySize Property**

#### Overview

In this practice, you create a script-derived property that evaluates the size of the enterprise in each region based on the number of regional offices.

#### **Tasks**

Create a property named EntitySize that counts the number of descendants for limb nodes and is assigned a value according to the following business logic:

- If the number of descendants is less than or equal to 5, assign "Small."
- If the number of descendants is more than 5 and less than or equal to 10, assign "Medium."
- If the number of descendants is more than 10, assign "Large."
- For leaf nodes, assign "N/A."
- 1. Define the property:
  - a. Configure the property parameters defined in the following table:

For leaf nodes, assign "N/A."		
efine the property:		, 25 2
Configure the property paramet	ers defined in the following table:	W) has
Parameter	Value	com) has a
Name	EntitySize	nt Go
Label	Entity Size	
Description	Entity Size	
Property Level	Local Node	
Property Type	Derived, Script	
Data Type	String	
Column Width	20	

- Add the property to the Location property category.
- Enter the script and test it on the USA node in the Geography hierarchy in the TotalComputer version. The result should be Large. Save the property.
- In the Geography hierarchy in the TotalComputer version, verify that the EntitySize property values are the same as those listed in the following table:

Node	EntitySize Property Value
USA	Large
East	Medium
Massachusetts	Small
Atlanta	N/A

# **Solution 9-4: Creating the EntitySize Property**

## **Steps**

# **Defining the Property**

- Click the Home tab and then select the Administer task group.
- 2. In the New drop-down list, select **Property Definition**. The New Property tab is displayed.
- 3. Configure the property parameters defined in the following table:

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- 4. On the Categories tab, select **Location** in the Available list, and click the Select button ( ) to move it to the Selected list.
- 5. On the toolbar, click the Save button ( ).

  The New Property tab is renamed as Custom.EntitySize.

## **Entering and Testing the Script**

- Click the Parameters tab.
- 2. In the script editor, enter the following script:

```
var numDescendants = node.PropValue("Core.Descendants");
if (numDescendants == 0)
   return ("N/A");
else if (numDescendants > 0 && numDescendants <= 5)
   return ("Small");
else if (numDescendants > 5 && numDescendants <=10)
   return ("Medium");
else
   return ("Large");</pre>
```

- 3. Test the script:
  - a. Next to Evaluate With, leave Selected Node selected.
  - b. Next to the Selected Node box, click the ellipsis button ( .....).

    The Select Node dialog box is displayed.

- c. In the Version drop-down list, select **TotalComputer**.
- d. In the Hierarchy drop-down list, select **Geography**.
- e. Under Nodes, expand the **North America** node, select the **USA** node, and click **OK**. "TotalComputer~Geography~USA" is displayed in the Selected Node box.
- f. Above the script editor, click **Evaluate**.
- g. Verify that "Large" is displayed in the Evaluation Results box.
- 4. On the toolbar, click the Save button ( 🗖 ).
- 5. Close the **Custom.EntitySize** tab.

#### **Verifying Property Values**

- 1. Click the **Geography TotalComputer** tab.
- 2. In the hierarchy tree, select the **TotalGeography** node.
- 3. In the Category drop-down list on the Properties tab, select **Location**, and verify that the value for the Entity Size property is **Large**.
- 4. Repeat steps 2 and 3 for the USA, East, Massachusetts, and Atlanta nodes, and verify that the results match the information in the following table:
  Node
  FM Desc Property Value

Node	FM Desc Property Value
USA	Large
East	Medium (SOS)
Massachusetts	Small
Atlanta	N/A

5. Close the Geography - TotalComputer tab.

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# **Practices for Lesson 10: Overview**

#### **Lesson Overview**

After working with the data for some time, you conclude that you would always like to enforce some business rules. Therefore, you decide to create validations to handle these situations.

# **Practice 10-1: Creating a Name Length Validation**

#### Overview

You need to ensure that node names are a certain length. Therefore, you create a validation to ensure that all node names are between 2 and 20 characters long.

#### **Task**

- Define the validation: 1.
  - a. Configure the validation parameters defined in the following table:

Parameter	Value
Name	NameLength
Label	Name Length
Failure Message	Name length must be between 2 and 20 characters

- Select the appropriate class and level.
- Configure the validation to run in real time.
- d. Configure the class parameters.
- Save the validation.
- Assign the validation to the Geography hierarchy in the TotalComputer version.
- Les to the Geo Liers long. Test the validation by trying to add nodes to the Geography hierarchy that have names less

# **Solution 10-1: Creating a Name Length Validation**

## Steps

Defining the Name Length Validation

- Select the Administer task group.
- 2. In the New drop-down list, select **Validation**.

The New Validation tab is displayed.

- 3. In the Name box, enter **NameLength**.
- 4. In the Label box, enter Name Length.
- 5. In the Failure Message box, enter Name length must be between 2 and 20 characters.
- 6. In the Class drop-down list, select **PropLength Property length check**.
- 7. In the Level drop-down list, leave **Node** selected.
- 8. Clear Batch (run when manually triggered), and select Real Time (always runs).
- 9. Configure the class parameters:
  - a. On the PropName row in the table, click the Edit button ( // ).
  - b. In the Value drop-down list for the Property parameter, select **Core.Abbrev**, and click the Update button ( ].
  - c. On the MinLength row, click the Edit button ( /).
  - d. In the Value box for the MinLength parameter, enter **2**, and click the Update button ( ☐).
  - e. On the MaxLength row, click the Edit button ( 🥒 ).
  - f. In the Value box for the MaxLength parameter, enter **20**, and click the Update button ( ⋅ ).
- 10. On the toolbar, click the Save button ( 🔚 ).

The tab is renamed Custom.NameLength.

11. Close the Custom.NameLength tab.

# Assigning the Name Length Validation to the Geography Hierarchy

- Select the **Browse** task group.
- If needed, in the versions list, select the TotalComputer version.
- 3. Select the **Geography** hierarchy.
- 4. In the Hierarchies drop-down list, select **Assign Validations**.

The Properties tab displays validations.

- 5. Click the Value box for the Name Length validation, and select **Real-Time**.
- 6. Click Save.

## **Testing the Name Length Validation**

- On the Hierarchies tab, double-click the Geography hierarchy to open it. The Geography - TotalComputer tab is displayed.
- With **TotalGeography** selected, in the Nodes drop-down list, select **New** and then **Limb**. The New Limb Node dialog box is displayed.
- In the Name box, enter any name that is more than 20 characters long (for example, Extra Long Continent Name), and click OK.

An Error dialog box displays the following message: "The server returned an error processing the action. AddNode. Error message: DRM-14021: Node Extra Long Continent Name failed validation Name Length with this message: Name length must be between 2 and 20 characters."

- 4. Click OK.
- 5. In the Name box, enter one character (for example, **A**), and click **OK**. An Error dialog box displays the following message: "The server returned an error processing the action. AddNode. Error message: DRM-14021: Node Extra Long Continent Click Cancel to close the dialog box.

  8. Close the Geography - TotalComputer tab. Name failed validation Name Length with this message: Name length must be between 2
- 6. Click OK.
- 7.
- 8.

# Practice 10-2: Creating the DynamicCalcLeaf Validation Based on a Validation Script

#### Overview

You need to ensure that a formula is available in the Member Formula property when a node's Data Storage property is set to Dynamic Calc. You decide to create a validation based on a script that checks this business rule and outputs a failure message including the failed node name and the node hierarchy name. You want the validation to run only when it is manually triggered.

- 1. Create a validation:
  - a. Configure the validation parameters defined in the following table:

Parameter	Value	
Name	DynamicCalcLeaf	
Label	Dynamic Calc Leaf	
Failure Message	Dynamic Calc requires a formula for node node_name in hierarchy hierarchy_name.	(mo-

- b. Select the appropriate class and level, configure the validation to run only when manually triggered, develop the script, and save the validation.
- 2. Assign the validation to the Account hierarchy in the TotalComputer version.
- Run the validation and verify that the validation results include two nodes: Margin Percent and Profit Percent.
- 4. Update the Member Formula property for the resulting nodes as follows:
  - For the Margin Percent node, set Member Formula = Margin % Sales.
  - For the Profit Percent node, set Member Formula = Profit % Sales.
- 5. Rerun the validation on the Account hierarchy.

The validation should have completed successfully (no nodes should be listed).

# Solution 10.2 Creating the DynamicCalcLeaf Validation Based on a Validation Script

## Steps

## **Creating the Dynamic Calc Leaf Validation**

- Select the **Administer** task group.
- In the New drop-down list, select **Validation**. The New Validation tab is displayed.
- In the Name box, enter **DynamicCalcLeaf**. 3.
- In the Label box, enter **Dynamic Calc Leaf**.
- In the Failure Message box, enter Dynamic Calc requires a formula for node {0} in hierarchy {1}.
- 6. In the Class drop-down list, select **Script**.
- 7. In the Level drop-down list, leave **Node** selected.
- 8. Leave **Batch (run when manually triggered)** selected.
- 9. On the toolbar, click the Save button ( \big| ).

# **Entering and Testing the Script**

```
manually triggered) selected.

On the toolbar, click the Save button ( ...).

The New Validation tab is renamed to Custom.DynamicCalcLeaf.

ering and Testing the Script

In the Script Editor, enter the following script:

returnObject = new Object

MemberFormul
var returnObject
var MemberFormulaProp = node.PropValue("Essbase.Formula");
var DataStorageProp = node.PropValue("Essbase.DataStorage");
if (node.Leaf && MemberFormulaProp.length == 0 && DataStorageProp ==
     "Dynamic Calc") {
     returnObject.success
                                       = Boolean(false);
     returnObject.parameters = Array(node.Abbrev, node.HierAbbrev);
}
else
     returnObject.success = Boolean(true);
return (returnObject);
```

- 2. Test the script:
  - Next to Evaluate With, leave **Selected Node** selected.
  - b. Next to the Selected Node box, click the ellipsis button ( ....). The Select Node dialog box is displayed.
  - In the Version drop-down list, select **TotalComputer**. C.
  - In the Hierarchy drop-down list, select **Account**.
  - e. Under Nodes, expand the **Ratios** node, select the **Margin Percent** node, and click **OK**.

"TotalComputer~Account~Margin Percent" is displayed in the Selected Node box.

- f. Above the script editor, click **Evaluate**.
- g. Verify that the following text is displayed in the Evaluation Results box:

```
{
    success: False
    failureMessage: Dynamic Calc requires a formula for node
Margin Percent in hierarchy Account
}
```

- 3. On the toolbar, click the Save button ( \bigcolor{1}{1}).
- 4. Close the Custom.DynamicCalcLeaf tab.

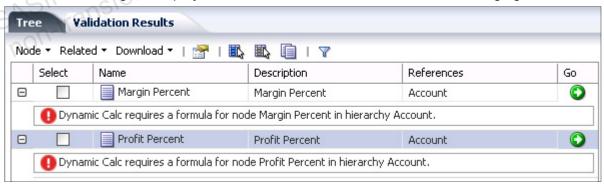
## Assigning the Dynamic Calc Leaf Validation to the Account Hierarchy

- 1. Select the **Browse** task group.
- 2. Select the **TotalComputer** version if necessary.
- 3. Right-click the **Account** hierarchy, and select **Assign Validations**. The Properties tab displays validations.
- 4. Click in the Value box for the Dynamic Calc Leaf validation, and select **Batch**.
- 5. Click Save.

# Running the Dynamic Calc Leaf Validation and Verifying Results

- 1. On the Hierarchies tab, double-click the **Account** hierarchy The Account TotalComputer tab is open.
- 2. In the hierarchy tree, right-click the **Measures** node, select **Validate**, and then **Assigned**. The validation is executed, and the Validation Results tab is displayed.
- 3. Expand Margin Percent and Profit Percent.

The failure message is displayed under both nodes as shown in the following figure:



# **Updating the Formulas for the Resulting Nodes**

- 1. In the results list, select the **Margin Percent** node.
  - **Note:** Select the name, not the check box.
- 2. On the Properties tab, in the Category drop-down list, select **Essbase**.
- 3. Click in the Value box for Member Formula, and enter **Margin % Sales**.
- 4. Click Save.
- 5. In the results list, select the **Profit Percent** node.

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- 6. On the Properties tab, click in the Value box for Member Formula, and enter **Profit %**Sales
- 7. Click Save.

## **Rerunning the Dynamic Calc Leaf Validation**

- 1. Click the Tree tab.
- Right-click the Measures node, select Validate, and then Assigned.
   The Information dialog box indicates that the validation completed successfully. No nodes are listed.
- Click **OK**.
   The Validation Results tab is no longer displayed.
- 4. Close the **Account TotalComputer** tab.



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Practices for Lesson 11: Setting Up Node Types Setting Setting Setting Chapter 11
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# **Practices for Lesson 11: Overview**

#### **Lesson Overview**

Your ProjectOne application has many properties now. You want to control which properties are displayed for each node; therefore, you decide to set up node types to accomplish this job. You first set up node types for all hierarchies based on their dimension type. Next, you set up a specific node type for the Geography hierarchy in the TotalComputer version to further filter properties in that hierarchy.

# **Practice 11-1: Setting Up Node Types Based on Dimension Types**

#### Overview

Hierarchies in your application contain entity, product, or finance data. Therefore, you decide to filter properties for nodes based on the kind of data contained in each hierarchy. To do this, you specify a dimension type for each hierarchy through a new hierarchy-level property named DimensionType. You then create node types for each type of dimension. For example, if a hierarchy is an entity-type dimension, only entity-type properties should be displayed for the nodes in that hierarchy.

#### **Tasks**

- 1. Create a property:
  - a. Configure the property parameters as defined in the following table:

Parameter	Value	
Name	DimensionType	125 2
Label	Dimension Type	n.as
Description	Type of hierarchy	ige.
Property Level	Hierarchy	
Data Type	String	
Property Type	Defined	
List	Selected	
Column Width	20	

- b. Assign the DimensionType property to the Common property category.
- c. Add Entity, Finance, and Product as list values.
- d. Save the property
- 2. For the hierarchies in the TotalComputer version, configure the DimensionType property as defined in the following table:

Hierarchy	DimensionType Property Value
Account	Finance
Activity	Finance
Geography	Entity
Product	Product

3. Create glyphs as defined in the following table:

Glyph Name	PNG File (in the class files folder)	
Accounts	Accounts.png ( )	
Product	Product.png (ເ≝)	
Global	Global.png ( )	
Diamond	Diamond.png ( )	

4. Create node types as defined in the following table. Alphabetize the property names for each node type.

Node Type Name	Node Type Description	Glyph	Properties to Include
Finance	Nodes that have finance-type properties	Accounts	All properties from the Essbase, FM, and Common property categories
Product	Nodes that have product-type properties	Product	All properties from the Essbase and Common property categories
Entity	Nodes that have geography-type properties	Global	All properties from the Location and Common property categories

- 5. For each hierarchy in the TotalComputer version, set the HierarchyNodeType property equal to the DimensionType property.
- 6. Verify that the correct property categories and properties are displayed for each hierarchy.

# **Solution 11-1: Setting Up Node Types Based on Dimension Types**

# **Steps**

# **Creating the DimensionType Property**

- 1. Select the Administer task group.
- 2. In the New drop-down list, select **Property Definition**.

The New Property tab is displayed.

3. Configure the property parameters defined in the following table:

Parameter	Value	
Name	DimensionType	
Label	Dimension Type	
Description	Type of hierarchy	
Property Level	Hierarchy	
Data Type	String	
Property Type	Defined	
List	Selected	
Column Width	20 (585) this	

- 4. On the Categories tab, select the **Common** category, and click the Select button ( ) to move it to the Selected list.
- 5. Configure the list values:
  - a. Click the List Values tab.
  - b. Click Add.
  - c. In the first List Item box, enter **Entity**, and click the Update button ( 🔚 ).
    - d. Click Add.
  - e. In the second List Item box, enter **Finance**, and click the Update button ( **!**).
  - f. Click Add.
  - g. In the third List Item box, enter **Product**, and click the Update button ( **!**).
- 6. On the toolbar, click the Save button ( ).

  The New Property tab is renamed Custom.DimensionType.
- 7. Close the **Custom.DimensionType** tab.

## Configuring the DimensionType Property for the Hierarchies

- 1. Configure the Account hierarchy:
  - a. Select the **Browse** task group.
  - b. On the Hierarchies tab, right-click **Account** and select **Properties**.
    - The Properties tab for the Account hierarchy is displayed.
  - c. On the Properties tab, in the Category drop-down list, select **Common**.
  - d. Select the **Dimension Type** property.
  - e. In the Value box, select Finance.
  - f. Click Save.
- 2. Configure the Activity hierarchy:
  - a. On the Hierarchies tab, select the **Activity** hierarchy.
    - The Properties tab for the Activity hierarchy is displayed.
  - b. On the Properties tab, in the Category drop-down list, leave **Common** selected.
  - c. Select the **Dimension Type** property.
  - d. In the Value box, select Finance.
  - e. Click Save.
- 3. Configure the Geography hierarchy:
  - a. On the Hierarchies tab, select the **Geography** hierarchy.
    - The Properties tab for the Geography hierarchy is displayed.
  - b. On the Properties tab, in the Category drop-down list, leave **Common** selected.
  - c. Select the **Dimension Type** property.
  - d. In the Value box, select Entity.
  - e. Click Save.
- 4. Configure the Products hierarchy:
  - a. On the Hierarchies tab, select the **Product** hierarchy.
    - The Properties tab for the Product hierarchy is displayed.
  - b. On the Properties tab, in the Category drop-down list, leave **Common** selected.
  - c. Select the **Dimension Type** property.
  - d. In the Value box, select **Product**.
  - e. Click Save.

## **Creating Glyphs**

- Click the Home tab and then select the Administer task group.
- 2. In the New drop-down list, select **Glyph**.
  - The New Glyph tab is displayed.
- 3. In the Name box, enter Accounts
- 4. Next to the Upload New Glyph box, click **Browse**.
  - The "Choose File to Upload" dialog box is displayed.
- 5. Browse to the **Glyphs** folder in the class files folder, select **Accounts.png** ( ), and click **Open**.
- 6. Next to Glyph, click **Preview**.
  - The glyph is displayed.

- 7. On the toolbar, click the Save & New button ( ). The New Glyph tab is displayed.
- 8. Repeat steps 3 through 7 to create the glyphs defined in the following table:

Glyph Name	PNG File
Product	Product.png (₩)
Global	Global.png ( )
Diamond	Diamond.png ( )

**Note:** After defining the Diamond glyph, click the Save button (  $\blacksquare$  ) on the toolbar.

- 9. Close the **Diamond** tab.
- 10. In the Administer task group, expand **Glyphs**, and verify that there are four glyphs (as shown in the following figure):



#### **Creating the Finance Node Type**

- In the New drop-down list, select Node Type.
   The New Node Type tab is displayed.
- 2. In the Name box, enter **Finance**.
- 3. In the Description box, enter **Nodes that have finance-type properties**.
- In the Glyph drop-down list, select **Accounts**.
   The glyph is displayed next to the Glyph drop-down list.
- 5. On the Properties tab, in the Category drop-down list, select **Essbase**, and click the Select All button ( ) to move all properties to the Selected list.
- 6. In the Category drop-down list, select **FM**, and click the Select All button ( ) to move all properties to the Selected list.
- 7. In the Category drop-down list, select **Common**, and click the Select All button ( ) to move all properties to the Selected list.
- 8. Click the Alphabetize button ( ) to sort the selected properties in alphabetical order.
- 9. Verify that the Selected list displays the following properties:
  - Allow Adj
  - Allow Children Adi
  - Consolidation
  - Data Storage
  - Default Alias
  - Default Currency
  - Default Parent
  - Holding Company

- IC Partner
- Member Formula
- Security Class
- Two Pass Calc
- UDA1
- UDA2
- UDA3

**Note:** If your properties are in another order, verify that their labels are correct. A property label might be missing a space.

10. On the toolbar, click the Save & New button ( ).

The New Node Type tab is displayed.

#### **Creating the Product Node Type**

- 1. In the Name box, enter **Product**.
- 2. In the Description box, enter **Nodes that have product-type properties**.
- In the Glyph drop-down list, select **Product**.
   The glyph is displayed next to the Glyph drop-down list.
- 4. On the Properties tab, in the Category drop-down list, select **Essbase**, and click the Select All button ( ) to move all properties to the Selected list.
- 5. In the Category drop-down list, select **Common**, and click the Select All button ( ) to move all properties to the Selected list.
- 6. Click the Alphabetize button ( ) to sort the selected properties in alphabetical order.
- 7. Verify that the Selected list displays the following properties:
  - Consolidation
  - Data Storage
  - Default Alias
  - Member Formula
  - Two Pass Calc
  - UDA1
  - UDA2
  - UDA3

The New Node Type tab is displayed.

#### **Creating the Entity Node Type**

- In the Name box, enter Entity.
- 2. In the Description box, enter Nodes that have geography-type properties.
- 3. In the Glyph drop-down list, select **Global**.
  - The glyph is displayed next to the Glyph drop-down list.
- 4. On the Properties tab, in the Category drop-down list, select **Location**, and click the Select All button ( ) to move all properties to the Selected list.

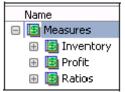
- In the Category drop-down list, select **Common**, and click the Select All button ( ) to move all properties to the Selected list.
- Click the Alphabetize button ( 1 ).
- Verify that the Selected list displays the following properties:
  - Country
  - **Default Currency**
  - **Entity Size**
  - Local Office
  - Regional Manager
  - State Province
  - UDA1
  - UDA2
  - UDA3
- On the toolbar, click the Save button ( ). The New Node Type tab is renamed Entity.
- Close the **Entity** tab.

#### Configuring the HierarchyNodeType Property

- Select the **Browse** task group.
- 7@gmail.com) has a 7@gmail.com) has a !his Student Guide. 2. On the Hierarchies tab, select the Account hierarchy.
- 3. If necessary, on the Properties tab, in the Category drop-down list, select **System**.
- On the Properties tab, select the **Hierarchy Node Type** property 4.
- On the Hierarchy Node Type row, click the ellipsis button ( ). The Select Property dialog box is displayed.
- 6. In the Category drop-down list, leave **Common** selected.
- Select Dimension Type, and click OK.
- 8. Click Save.
- 9. Repeat steps 2 through 8 for the **Activity**, **Geography**, and **Product** hierarchies.

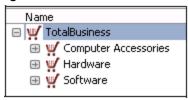
#### **Verifying the Properties for the Hierarchies**

- Verify the properties for the Account hierarchy:
  - a. On the Hierarchies tab, double-click the **Account** hierarchy.
  - The Account TotalComputer tab is displayed.
  - b. Notice that there are glyphs displayed next to node names, as shown in the following figure:



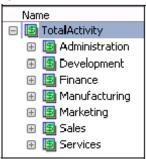
**Note:** In the Nodes drop-down list, select **Refresh** if necessary.

- c. On the Properties tab, view the **Category** drop-down list, and verify that the list displays the following property categories:
  - System
  - Common
  - Essbase
  - FΜ
  - Stats
- Verify the properties for the Product hierarchy:
  - a. On the Hierarchies tab, double-click the **Product** hierarchy. The Product - TotalComputer tab is displayed.
  - b. Notice that there are glyphs displayed next to node names, as shown in the following figure:



- c. On the Properties tab, view the Category drop-down list, and verify that the list displays

- Verify the properties for the Activity hierarchy:
  - On the Hierarchies tab, double-click the **Activity** hierarchy. The Activity - TotalComputer tab is displayed.
  - Notice that there are glyphs displayed next to node names, as shown in the following figure:



- at the list com) in the list com in the list com) in the list com in the list com) in the list com in the list com in the list com in the list com in the list com) in the list com in the On the Properties tab, view the **Category** drop-down list, and verify that the list displays the following property categories:
  - System
  - Common
  - Essbase
  - FΜ
  - Stats
- Verify the properties for the Geography hierarchy:
  - On the Hierarchies tab, double-click the **Geography** hierarchy.

The Geography - TotalComputer tab is displayed.

Notice that there are glyphs displayed next to node names, as shown in the following figure:



- On the Properties tab, view the **Category** drop-down list, and verify that the list displays the following property categories:
  - System
  - Common
  - Location
  - Stats
- Close the following tabs: Geography TotalComputer, Activity TotalComputer, Product - TotalComputer, and Account - TotalComputer.

# **Practice 11-2: Creating a Note Type for the Geography Hierarchy**

#### Overview

The Geography hierarchy still displays unrelated properties for levels 1 to 4 nodes. For example, the Regional Manager property at the continent level is not applicable. Therefore, you decide to create another node type that further filters the property list for these nodes.

#### **Tasks**

- 1. Create a property:
  - a. Configure the property parameters as defined in the following table:

Parameter	Value
Name	TypeofNode
Label	Type of Node
Description	Determines nonregional nodes in the Geography hierarchy
Property Level	Local Node
Data Type	String
Property Type	Derived
Deriver Class	Script 370 Student
Column Width	20 (505) this

- b. Add the TypeofNode property to the Common property category, and save the property.
- c. Define a script that evaluates the following: If a node is in the Geography hierarchy, and its level is less than 5, then set the TypeofNode property equal to Nonregional; otherwise, set it equal to the hierarchy-level DimensionType property value.
- d. Test the script on the Africa and Connecticut nodes in the Geography hierarchy.

  For the Africa node, the TypeofNode value should be equal to Nonregional. For the Connecticut node, the TypeofNode value should be equal to Entity.
- e. Save the property.
- 2. Add the property to the Entity node type.
- 3. In the Geography hierarchy, verify the TypeofNode property values for nodes listed in the following table:

Node	TypeofNode Property Value
TotalGeography	Nonregional
North America	Nonregional
USA	Nonregional
East	Nonregional
Connecticut	Entity

- Create a node type named Nonregional with the following description and properties:
  - Description: Nodes in the Geography hierarchy that are nonregional
  - Properties: Add only the properties from the Common property category.
  - Glyph: Diamond

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- 5. For the Geography hierarchy, set the HierarchyNodeType property to TypeofNode.
- 6. Verify the properties in the Geography hierarchy:
  - Select any level 1 through 4 node, and verify that the following property categories are available: System, Common, and Stats.
  - Select any level 5 or 6 node, and verify that the following property categories are available: System, Common, Location, and Stats. The Location property category provides additional entity-type properties for these nodes.



# Solution 11-2: Creating a Node Type for the Geography Hierarchy

#### **Steps**

#### **Creating the TypeofNode Property**

- 1. Select the **Administer** task group.
- 2. In the New drop-down list, select **Property Definition**.

The New Property tab is displayed.

3. Configure the property parameters defined in the following table:

Parameter	Value
Name	TypeofNode
Label	Type of Node
Description	Determines nonregional nodes in the Geography hierarchy
Property Level	Local Node
Data Type	String
Property Type	Derived
Deriver Class	Script
Column Width	20

- On the Categories tab, select the Common category, and click the Select button ( ) to move it to the Selected list.
- 5. On the toolbar, click the Save button ( ). The tab is renamed Custom. Typeof Node.
- 6. Click the **Parameters** tab.
- 7. In the Script editor, enter the following script:

```
if (node.Hier=="Geography" && node.Level<5)
    return ("Nonregional");
else
    return (node.Hier.PropValue("Custom.DimensionType"));</pre>
```

- 8. Next to Evaluate With, leave **Selected Node** selected.
- 9. Next to the Selected Node box, click the ellipsis button ( ......). The Select Node dialog box is displayed.
- 10. In the Version drop-down list, select **TotalComputer**.
- 11. In the Hierarchy drop-down list, select **Geography**.
- 12. In the Nodes list, select the **Africa** node.
- 13. Click **OK**.
- 14. Click Evaluate.

The Evaluation Results box is equal to Nonregional because it is a level 2 node and it is part of the Geography hierarchy.

- 15. Repeat steps 9 through 14 for the **Connecticut** node.
  - The Evaluation Results box is equal to Entity because it is a level 5 node and it is part of the Geography hierarchy.
- 16. On the toolbar, click the Save button ( 🛅 ).
- 17. Close the **Custom.TypeofNode** tab.

#### Adding the TypeofNode Property to the Entity Node Type

- If necessary, select the **Administer** task group.
- 2. Expand **Node Types**, and double-click the **Entity** node type to open it.
- In the Category drop-down list, select **Common**.
- 4. In the Available list, select **Type of Node**, and click the Select button ( ) to move it to the Selected list.
- 5. Click the Alphabetize button ( ) to sort the Selected list is alphabetical order.
- 6. On the toolbar, click the Save button ( 🛅 ).
- 7. Close the **Entity** tab.

# Verifying the TypeofNode Property Value in the Geography Hierarchy 1. Click the Home tab and then select the Provided in the Geography Hierarchy

- 2. On the Hierarchies tab, double-click the **Geography** hierarchy to open it. The Geography - TotalComputer tab is displayed.
- 3. On the Properties tab, in the Category drop-down list, leave **Common** selected.
- 4. On the toolbar, click the "Expand tree to specified level" button ( 🔧 ). The Expand Tree to Level dialog box is displayed.
- 5. In the Expand to Level box, enter 5, and click **OK**.
  - All nodes are displayed in the hierarchy tree.
- 6. With TotalGeography selected in the hierarchy tree, view the value for the **Type of Node** property.
  - The value should be equal to Nonregional because the node is at level 1.
- 7. In the hierarchy tree, select the **North America** node, and view the **Type of Node** property value.
  - The value should be equal to Nonregional because the North America node is at level 2.
- 8. Select the **USA** node, and view the **Type of Node** property value.
  - The value should be equal to Nonregional because the USA node is at level 3.
- 9. Select the **East** node, and view the **Type of Node** property value.
  - The value should be equal to Nonregional because the East node is at level 4.
- 10. Select the Connecticut node, and view the Type of Node property value.
  - The value should be equal to Entity because the Connecticut node is at level 5.

#### **Creating the Nonregional Node Type**

- 1. Click the **Home** tab and then select the **Administer** task group.
- In the New drop-down list, select **Node Type**.
  - The New Node Type tab is displayed.

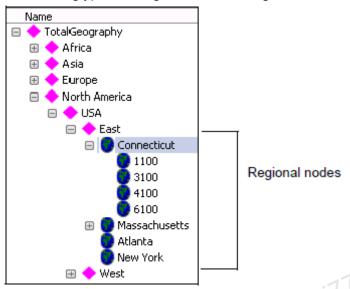
- 3. In the Name box, enter **Nonregional**.
- 4. In the Description box, enter Nodes in the Geography hierarchy that are nonregional.
- In the Glyph drop-down list, select **Diamond**.
  - The glyph is displayed next to the Glyph drop-down list.
- In the Category drop-down list, select **Common**, and click the Select All button ( ) to move all properties to the Selected list.
- 7. Verify that the Selected list displays the following properties:
  - Type of Node
  - UDA1
  - UDA2
  - UDA3
- On the toolbar, click the Save button ( 🗖 ). 8.
- 9. Close the **Nonregional** tab.

# Configuring the HierarchyNodeType Property for the Geography Hierarchy

- On the Properties tab, select the Hierarchy Node Type property.
   On the Hierarchy Node Type row. click the allient The Select Property dialog box is displayed.
- Jue, and click C 5. In the Category drop-down list, leave **Common** selected.
- 6. Select Type of Node, and click OK.

#### Verifying the Properties in the Geography Hierarchy

- Click the Geography TotalComputer tab.
- 2. In the Nodes drop-down list, select **Refresh** if necessary.
- 3. Notice the glyphs for regional and nonregional nodes (as shown in the following figure):



- In the hierarchy tree, select the **TotalGeography** node. 4.
- @gmail.com) has a grander. 5. On the Properties tab, verify that the following property categories are available:
  - System
  - Common
  - Stats

Note: These are property categories of the Nonregional node type.

- In the hierarchy tree, select the **North America** node, and repeat step 5.
- 7. Select the **USA** node, and repeat step 5.
- 8. Select the **East** node, and repeat step 5.
- Select the **Connecticut** node, and verify that the following property categories are listed:
  - System
  - Common
  - Location
  - Stats

**Note:** The Connecticut node is at level 5 and should have one additional property category: Location.

10. Close the **Geography - TotalComputer** tab.

SASIKUMAR DHANAPAL (sasi77@gmail.com) not gride.

Practices for Lesson 12: Exporting Data Exporting Exporting Chapter 12

SASIKUMAR DHANAPAL Chapter 12

SASIKUMAR DHANAPAL Chapter 12

# **Practices for Lesson 12: Overview**

#### **Practices Overview**

In these practices, you export data from the ProjectOne application for further consumption in target systems.

SASIKUMAR DHANAPAL (sasi77@gmail.com) has this Student Guide.

# **Practice 12-1: Exporting Finance Data to a Flat File**

#### Overview

The Financial Management team requests finance data from the ProjectOne application so that they can transfer it to a Financial Management application. They require the data to be in a comma-delimited flat-file format.

#### Task

- 1. Create a hierarchy export:
  - Include only active leaf and limb nodes.
  - b. Recurse from the top node.
  - Remove duplicates based on the Name property, because you want to export nodes only once, even if they occur in multiple hierarchies.
  - ipany NAPAL (sasi77@gmail.com) has a student Guide.

    Pass to use this Student Guide.

    Pass to use this student Guide. Set a filter on the Dimension Type property to equal Finance.
  - Include the following columns in the export file:
    - Name
    - Allow Adj
    - Allow Children Adj
    - **Default Parent**
    - **Default Currency**
    - **FM** Description
    - **Holding Company**
    - **IC** Partner
    - **Security Class**
    - UDA1
    - UDA2
    - UDA3
  - In the export file, include column headings, a blank line between the header/footer and body, and a header named Finance Nodes. Select the appropriate field delimiter.
- Save the export as Export FinanceNodes, and set Object Access Group to User.
- Run the export, save the export file to the desktop with its default name, and then view and close the export file.

# Solution 12-1: Exporting Finance Data to a Flat File

#### **Steps**

## **Creating the Hierarchy Export**

1. Select the **Export** task group.

The Exports tab is displayed.

2. On the toolbar, click the New Export button ( 🏂 ).

The Choose Export Type dialog box is displayed.

3. In the Hierarchy Exports area, select **Hierarchy**.

The New Export tab is displayed, and the Source subtab is displayed by default.

- 4. Configure the source:
  - a. In the Version drop-down list, select **TotalComputer**.
  - b. Click Add.

The Select Node dialog box is displayed.

- c. In the Hierarchy drop-down list, select **Activity**.
- d. In the Nodes list, leave the top node (in this case, TotalActivity) selected.
- e. Click OK.
- f. Repeat steps b through e for the **Account**, **Geography**, and **Product** hierarchies.
- 5. Configure the style:
  - a. Click the **Style** tab.
  - b. Next to Node Selection, leave All Nodes selected.
  - c. Leave Recurse from Top Node selected.
  - d. Clear Include Inactive Nodes.
  - e. Select Remove Duplicates Based on Key.
- 6. Configure the filter:
  - a. Click the Filter tab.
  - b. Next to the Query drop-down list, click the ellipsis button ( ....).

The Query: New Query dialog box is displayed.

- c. Click Add.
- d. In the Property drop-down list, select **Dimension Type**.
- e. In the Operator drop-down list, select **Equal**.
- f. In the Value box, enter **Finance**.
- g. Leave Inherit selected.

h. In the Action column, click the Update button ( ].

The following formula is displayed:

Dimension Type Equal Finance

Formula is Valid

i. Click OK.

The following is displayed in the Description box: "Dimension Type Equal Finance."

- Configure the columns:
  - Click the **Columns** tab.
  - In the Category drop-down list, leave **System** selected.
  - In the Available list, select **Name**, and click the Select button ( ) to move it to the Selected list.
  - In the Category list, select **FM**, and click (Select All) to move all FM properties to the Selected list.
  - In the Category list, select **Common**. e.
  - , JDA2, and UDA.

    Jied list.

    Jing properties: In the Available list, select the user-defined properties (UDA1, UDA2, and UDA3), and click the Select button ( ) to move them to the Selected list.
  - Verify that the Selected list consists of the following properties:
    - 1 Name
    - 2 Allow Adj
    - 3 Allow Children Adj
    - 4 Default Currency
    - 5 Default Parent
    - 6 Holding Company
    - 7 IC Partner
    - 8 Security Class
    - 9 UDA1
    - 10 UDA2
    - 11 UDA3
- Configure column options:
  - a. Click the Column Options tab.
  - b. On the first row for the [Core] Name property, in the Action column, click the Edit button ( **/** ).
  - In the Primary Key column on the first row, select the check box.
  - In the Action column, click the Update button ( ].

The Name property is set as the primary key.

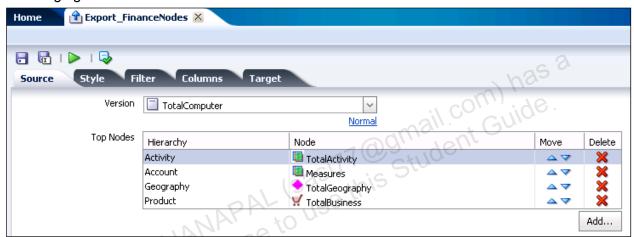
- Configure the target:
  - a. Click the **Target** tab.
  - b. In the Device drop-down list, select Client File.
  - Next to Format, select **Column Headings**. C.
  - Next to Header/Footer, select Blank line between Header/Footer and Body.

- e. In the Header box, enter Finance Nodes.
- f. In the Field Delimiter drop-down list, select (Comma).

#### Saving the Export

- 1. On the toolbar, click the Save button ( ]. The Save Export dialog box is displayed.
- 2. In the Name box, enter **Export\_FinanceNodes**.
- 3. In the Object Access Group drop-down list, select **User**.
- 4. Click OK.

The tab is renamed Export\_FinanceNodes and the Source tab is displayed, as shown in the following figure:



# Running the Export and Saving and Viewing the Export File

- On the toolbar, click the Run button ( ).
   The Opening File dialog box displays a prompt asking whether you want to open or save the file.
- Select Save File and click OK.

The Save As dialog box is displayed.

- 3. In the "Save in" drop-down list, leave **Desktop** selected.
- 4. In the "File name" box, leave the default name as is (it is similar to 20110104105929\_Export\_FinanceNodes.txt).
- 5. Click Save.

The download is completed.

6. Click Open.

The file opens in Notepad.

Compare your results to the following figure:

```
🕞 20110131221619_Export_FinanceYodes.txt - Notepad
                                    Ble Edit Format Yew Help
                            Name_A}]ow Adj.Allow Children Adj.Default Currency,Default Parent,FN Description,Holding Company,IC
Partner,Security class,uba1,uba2,uba3
SASIKUMAR DHANAPAL use this Student icense to use the use the
```

- 8.

# **Practice 12-2: Exporting Essbase Account Measures to an Oracle Database Table**

#### Overview

The Essbase team requires account measures from the ProjectOne application for one of their Essbase applications to be exported into an Oracle table. You decide to use the drm export. ess acc measures table that has been already created in your Oracle database.

#### **Tasks**

- 1. Create an export:
  - a. Configure the source as the Account hierarchy in the TotalComputer version.
  - Export all nodes, recurse from the top node, and include inactive nodes.
  - Select the following property values to export (be sure to configure this exact order):
    - Parent Node
  - d.

9 ,	. `	c to configure this exact order).
<ul> <li>Parent Node</li> </ul>		wing tasks:
<ul> <li>Name</li> </ul>		has
<ul> <li>Consolidation</li> </ul>		om) '40
<ul> <li>Description</li> </ul>		azili Co Guido.
<ul> <li>Data Storage</li> </ul>	10	Daugent C
<ul> <li>Two Pass Calc</li> </ul>	G1710	Sivio
<ul> <li>Member Formula</li> </ul>	(583, thi	5
Set the Name property to be t	the primary key.	
Configure the target, and be s	sure to perform the follo	wing tasks:
<ul> <li>Clear all rows in the datal</li> </ul>	base table.	
Match the properties to t	ne database columns ac	ccording to the following table:
Column Name	Database Column	
Parent Node [Core]	PARENT	
Name [Core]	NAME	
Consolidation [Essbase]	CONSOLIDATION	
Description [Core]	DESCR	
Data Storage [Essbase]	DATASTORAGE	
Two Pass Calc [Essbase]	TWOPASSCALC	
Member Formula [Essbase]	FORMULA	

- Save the export as Export EssbaseAccountMeasures, and set Object Access Group to User.
- Run the export and review the exported data in SQL Developer. You can log on to SQL Developer as drm export with the password oracle.

# Solution 12-2: Exporting Essbase Account Measures to an Oracle **Database Table**

#### **Steps**

#### Creating the Export

Select the **Export** task group.

The Exports subtab is displayed.

2. On the toolbar, click the New Export button ( ).

The Choose Export Type dialog box is displayed.

3. In the Hierarchy Exports section, select **Hierarchy**.

The New Export tab is displayed.

- 4. Configure the source:
  - a. On the Source tab, in the Version drop-down list, select **TotalComputer**.
  - b. Click Add.

The Select Node dialog box is displayed.

- c. In the Hierarchy drop-down list, select **Account**.
- d. In the Nodes list, leave **Measures** selected.
- e. Click OK.
- 5. Configure the style:
  - a. Click the **Style** tab.
- asi77@gmail.com) has a guide.

  asi77@gmail.com) has a guide. b. Leave All Nodes, Recurse from Top Node, and Include Inactive Nodes selected.
  - c. Leave all other options cleared.
- 6. Configure the columns:
  - a. Click the Columns tab.
  - b. In the Category drop-down list, leave **System** selected.
  - In the Available list, select the following properties, and click the Select button ( >> ) to move them to the Selected list:
    - **Description**
    - Name
    - Parent Node
  - In the Category drop-down list, select **Essbase**.
  - In the Available list, select the following properties, and click the Select button ( ) to move them to the Selected list:
    - Consolidation
    - Data Storage
    - Member Formula
    - **Two Pass Calc**
  - f. In the Selected list, arrange the properties in the following order by using (Move Up) and (Move Down):
    - 1 Parent Node
    - 2 Name

- 3 Consolidation
- 4 Description
- 5 Data Storage
- 6 Two Pass Calc
- 7 Member Formula
- 7. Configure column options:
  - Click the Column Options tab.
  - b. On the second row (for the Name property), in the Action column, click the Edit button ( / ).
  - c. In the Primary Key column on the second row, select the check box.
  - d. In the Action column, click the Update button ( ☐ ).
     The Name property is set as the primary key.
- 8. Configure the target:
  - a. Click the Target tab.
  - b. In the Device drop-down list, select Database Table.
  - c. In the Connection list, leave Oracle Database selected.
  - d. In the Database Table drop-down list, leave DRM\_EXPORT.ESS\_ACC\_MEASURES selected.
  - e. Next to Clear Table, select Clear All Rows
  - f. For each column in the list, in the Action column, click the Edit button ( ✓), select the matching name in the Field Name drop-down list, and click the Update button ( 🗔 ). Refer to the following table for matching column and field names:

Column Name	Field Name
Parent Node [Core]	PARENT
Name [Core]	NAME
Consolidation [Essbase]	CONSOLIDATION
Description [Core]	DESCR
Data Storage [Essbase]	DATASTORAGE
Two Pass Calc [Essbase]	TWOPASSCALC
Member Formula [Essbase]	FORMULA

#### Saving the Export

- On the toolbar, click the Save button ( ).
   The Save Export dialog box is displayed.
- 2. In the Name box, enter Export\_EssbaseAccountMeasures.
- 3. In the Object Access Group drop-down list, select **User**.

#### 4. Click **OK**.

The tab is renamed Export\_EssbaseAccountMeasures and the Source tab is displayed, as shown in the following figure:

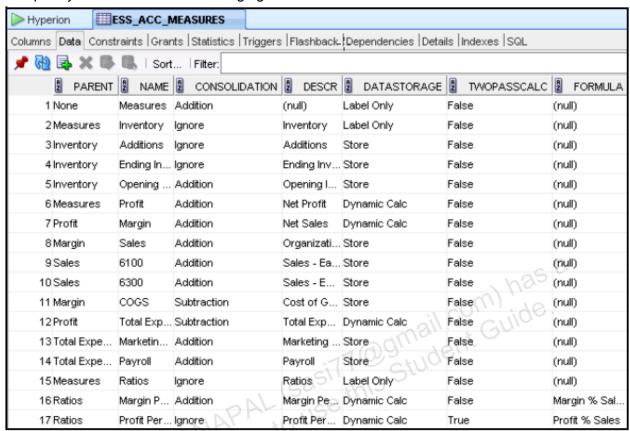


## Running the Export and Reviewing the Exported Data

- On the toolbar, click the Run button ( ). A Confirmation dialog box indicates that the process is completed successfully.
- 2.
- 3.
- On the Desktop, double-click the **SQL Developer** shortcut.

  Oracle SQL Developer is started.
- Under Connections on the left, expand **DRM Exports**. The Connection Information dialog box is displayed.
- 6. On the left, expand **Tables**.
- Select the **ESS ACC MEASURES** table. 7.
- On the right, click the **Data** tab. Table data is displayed.

9. Compare your results to the following figure:



- 10. Select File and then Exit.
- 11. Return to Web Client, and close the **Export\_EssbaseAccountMeasures** tab.

Practices for Lesson 13:
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# **Practices for Lesson 13: Overview**

#### **Practices Overview**

In these practices, you create two users and two node access groups. You then assign nodes to the nodes groups and test security setup.



# **Practice 13-1: Creating Users and Node Access Groups**

#### **Overview**

Set up two users, ChrisW (Chris Wilson) and PatM (Pat Murray). ChrisW maintains the Financial Management hierarchies for the United States. PatM maintains the Essbase and Financial Management hierarchies for Europe.

#### Task

To accomplish this task:

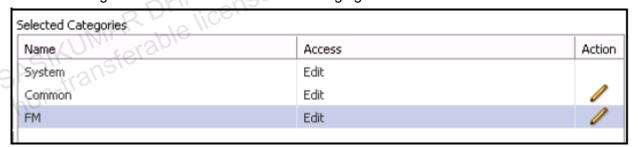
- 1. Create a user named ChrisW with the password Oracle! (which should not expire). Assign him the Interactive User role and enable him to edit Common and FM property categories.
- 2. Create another user named PatM with the password Oracle! (which should not expire). Assign him the Interactive User role and enable him to edit Common, FM, and Essbase property categories.
- 3. Create node access groups and assign users to them as defined in the following table:

Name	Label	Description	Group Type	Users
USA	USA	United States of America	Interactive	ChrisW
Europe	Europe	Europe	Interactive	PatM
	<sub>B</sub> DH	ANAPA' to Us		
CIKUN	MAR DH	ANAPASe to US		
ASIKU!	MAR DH Insferable	Europe  ANAPAL 10 US  Alicense to US		

# **Solution 13-1: Creating Users and Node Access Groups**

#### **Creating the User Chris Wilson**

- 1. Select the **Administer** task group.
- 2. In the New drop-down list, select **User**.
  - The New User tab is displayed.
- 3. In the Username box, enter **ChrisW**.
- 4. In the Full Name box, enter **Chris Wilson**.
- 5. Select Password does not expire.
- 6. On the Roles tab, select **Interactive User**, and click the Select button ( ) to move the role to the Selected list.
- 7. Click the **Property Categories** tab.
- 8. In the Available Categories list, select **Common**, and click the Select button ( ) to move it to the Selected Categories list.
- In the Available Categories list, select FM, and click the Select button ( ) to move it to the Selected Categories list.
- In the Selected Categories list, for the Common property category, click the Edit button ( // ).
- 11. In the Access drop-down list, select Edit.
- 12. In the Action column, click the Update button ( ).
- 13. Repeat steps 10 through 12 for the FM property category. The user configuration should look like the following figure:



14. On the toolbar, click the Save & New button ( 🛅 ).

The Change User Password dialog box is displayed.

- 15. In the New Password and Re-enter New Password boxes, enter Oracle!.
- 16. Click **OK**.

#### **Creating the User Pat Murray**

- In the Username box, enter PatM.
- In the Full Name box, enter Pat Murray.
- 3. Select Password does not expire.
- 4. On the Roles tab, select **Interactive User**, and click the Select button ( ) to move the role to the Selected list.
- 5. Click the **Property Categories** tab.
- 6. In the Available Categories list, select **Common**, and click the Select button ( ) to move it to the Selected Categories list.
- 7. In the Available Categories list, select **FM**, and click the Select button ( ) to move it to the Selected Categories list.
- 8. In the Available Categories list, select **Essbase**, and click the Select button ( ) to move it to the Selected Categories list.
- 9. In the Selected Categories list, for the Common property category, click the Edit button ( // ).
- 10. In the Access drop-down list, select **Edit**, and click the Update button ( ).
- 11. Repeat steps 9 and 10 for the **FM** and **Essbase** property categories. The user configuration should look the same as the following figure:

Selected Categories		
Name	Access	Action
System	Edit	
Common	Edit	
FM VVIVIE COLOR	Edit	
Essbase	Edit	0

12. On the toolbar, click the Save button ( ).

The Change User Password dialog box is displayed.

- 13. In the New Password and Re-enter New Password boxes, enter Oracle!.
- 14. Click **OK**.
- 15. Close the **PatM** tab.

### **Creating the USA Node Access Group**

- Ensure that you are working in the Administer task group.
- 2. In the New drop-down list, select **Node Access Group**. The New Node Access Group tab is displayed.
- 3. In the Name and Label boxes, enter **USA**.
- 4. In the Description box, enter **United States of America**.
- 5. In the Group Type drop-down list, leave **Interactive** selected.
- 6. In the Users area, in the Available list, select **ChrisW**, and click the Select button ( ) to move ChrisW to the Selected list.

On the toolbar, click the Save & New button ( ).
 The USA node access group is saved, and a New Node Access Group tab is displayed.

#### **Creating the Europe Node Access Group**

- 1. In the Name, Label, and Description boxes, enter **Europe**.
- 2. In the Group Type drop-down list, leave **Interactive** selected.
- 3. In the Users area, in the Available list, select **PatM**, and click the Select button ( ) to move PatM to the Selected list.
- 4. On the toolbar, click the Save button ( ]. The Europe node access group is saved.
- 5. Close the **Custom.Europe** tab.

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# **Practice 13-2: Assigning Nodes to Node Access Groups**

#### **Overview**

Your ProjectOne application has the following security requirements:

- US operations have Financial Management applications that use the Activity and Geography hierarchies.
- European operations have an Essbase application that uses the Product hierarchy (to which the US operations does not have access) and Financial Management applications that use the Geography hierarchy.

You want to enforce security privileges. To accomplish this task, assign nodes to node access groups according to the following table:

USA Activity TotalActivity Limb Access: Read Leaf Access: Read
Geography USA Limb Access: Read Leaf Access: Add
EUROPE Product TotalBusiness Limb Access: Add Leaf Access: Add
Geography Europe Limb Access: Read Leaf Access: Add

# **Solution 13-2: Assigning Nodes to Node Access Groups**

# Assigning Access to the Activity Hierarchy Nodes for the USA Node Access Group

- 1. Select the **Browse** task group.
- 2. In the versions list, select the **TotalComputer** version.
- 3. Double-click the **Activity** hierarchy to open it.
  - The Activity TotalComputer tab is displayed.
- 4. In the hierarchy tree, right-click the **TotalActivity** node, and select **Assign** and then **Node Access**.
  - On the Properties tab, the category is set to Limb Access.
- 5. For the USA (Limb) value, select **Read**.
- 6. Click Save.
- 7. In the Category drop-down list, select **Leaf Access**.
- 8. For the USA (Leaf) value, select Read.
- 9. Click Save.

# Assigning Access to the Geography Hierarchy Nodes for the USA Node Access Group

- 1. Click the **Home** tab.
- 2. On the Hierarchies tab, double-click the **Geography** hierarchy to open it.
  - The Geography TotalComputer tab is displayed.
- 3. In the hierarchy tree, expand the **North America** node.
- 4. Right-click the **USA** node, and select **Assign** and then **Node Access**.
  - On the Properties tab, the category is set to Limb Access.
- 5. For the USA (Limb) value, select **Read**.
- 6. Click Save.
- 7. In the Category drop-down list, select **Leaf Access**.
- 8. For the USA (Leaf) value, select Add.
- 9. Click Save.

# Assigning Access to the Geography Hierarchy Nodes for the Europe Node Access Group

- 1. Right-click the **Europe** node, and select **Assign** and then **Node Access**.
  - On the Properties tab, the category is set to Limb Access.
- 2. For the Europe (Limb) value, select **Read**.
- 3. Click Save.
- 4. In the Category drop-down list, select **Leaf Access**.
- 5. For the Europe (Leaf) value, select **Add**.
- 6. Click Save.

# Assigning Access to the Product Hierarchy Nodes for the Europe Node Access Group

1. Click the **Home** tab.

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- 2. On the Hierarchies tab, double-click the **Product** hierarchy to open it. The Product TotalComputer tab is displayed.
- Right-click the TotalBusiness node, and select Assign and then Node Access.
   On the Properties tab, the category is set to Limb Access.
- 4. For the Europe (Limb) value, select Add.
- 5. Click Save.
- 6. In the Category drop-down list, select **Leaf Access**.
- 7. For the Europe (Leaf) value, select Add.
- 8. Click Save.



# **Practice 13-3: Testing Security**

Before providing ChrisW and PatM access to the ProjectOne application, you want to log on and verify the security settings.

- Log on to the ProjectOne application as ChrisW, and verify the following security settings:
  - ChrisW can access only the Activity and Geography hierarchies.
  - ChrisW can only read limb and leaf nodes in the Activity hierarchy.
  - ChrisW can read limb nodes in the USA node and add leaf nodes to the USA node in the Geography hierarchy.
  - ChrisW can only read other nodes outside the USA node structure in the Geography hierarchy (for example, the Europe and France nodes).
- Log on to the ProjectOne application as PatM, and verify the following security settings:
  - PatM can access only the Product and Geography hierarchies.
  - PatM can add limb and leaf nodes to the Product hierarchy.
  - PatM can read limb nodes in the Europe node and add leaf nodes to the Europe node in the Geography hierarchy.
  - PatM can only read other nodes outside the Europe node structure in the Geography sas admin (pas.

    SASIKUMAR DHANAPAL use to use non-transferable license to use hierarchy (for example, the USA node).
- Log on to the ProjectOne application as admin (password is Welcome!). 3.

# **Solution 13-3: Testing Security**

#### Testing Access for ChrisW

**Note:** ChrisW belongs to the USA node access group.

- 1. Log on as ChrisW:
  - a. At the top of Web Client, select **Logout**.
    - The logon page is displayed.
  - b. In the User Name box, enter **ChrisW**.
  - c. In the Password box, enter **Oracle!**.
  - d. Click Log On.
- 2. Verify that ChrisW can access only the Activity and Geography hierarchies:
  - a. In the versions list, select the **TotalComputer** version.
  - b. On the Hierarchies tab, verify that the **Activity** and **Geography** hierarchies are listed. The Account and Product hierarchies are not listed, because ChrisW is not granted access to them.
- 3. Verify that Chrisw can only read limb and leaf nodes in the Activity hierarchy:
  - a. On the Hierarchies tab, double-click the **Activity** hierarchy to open it.
     The Activity TotalComputer tab is displayed.
  - b. With the TotalActivity node selected in the hierarchy tree, verify that Leaf Access and Limb Access are set to Read on the Properties tab.
  - c. In the hierarchy tree, select a node at the next level (for example, the Administration node).
  - d. On the Properties tab, verify that Leaf Access and Limb Access are set to Read.
  - e. In the hierarchy tree, select a node at the next level (for example, expand the **Administration** node and select the **1000** node, which is a leaf node).
  - f. On the Properties tab, verify that Leaf Access and Limb Access are set to Read.
- 4. Verify that ChrisW can read limb nodes in the USA node and add leaf nodes to the USA node in the Geography hierarchy:
  - a. Click the **Home** tab.
  - b. On the Hierarchies tab, double-click the **Geography** hierarchy to open it. The Geography TotalComputer tab is displayed.
  - c. In the hierarchy tree, right-click the **North America** node.

    Notice that the New menu item is not available (grayed out). This is because ChrisW can only read other nodes outside the USA nodes structure.
  - d. Expand the North America node and select the USA node.
  - e. On the Properties tab, verify that the Leaf Access value is Add and the Limb Access value is Read.
  - f. In the hierarchy tree, right-click the **USA** node and then select **New**.

    Notice that only the Leaf menu item is available. You confirmed that ChrisW can add only leaf nodes to the USA node.

#### Testing Access for Patm

**Note:** PatM belongs to the Europe node access group.

- Log on as PatM:
  - a. At the top of Web Client, select **Logout**.
    - The logon page is displayed.
  - b. In the User Name box, enter **PatM**.
  - c. In the Password box, enter **Oracle!**.
  - d. Click Log On.
- 2. Verify that PatM can access only the Product and Geography hierarchies:
  - a. In the version list, select the **TotalComputer** version.
  - b. On the Hierarchies tab, verify that the **Geography** and **Product** hierarchies are listed. The Account and Activity hierarchies are not listed because PatM is not granted access to them.
- 3. Verify that PatM can add limb and leaf nodes to the Product hierarchy:
  - a. On the Hierarchies tab, double-click the **Product** hierarchy to open it.
     The Product TotalComputer tab is displayed.
  - b. With the TotalBusiness node selected, verify that Leaf Access and Limb Access are both set to Add on the Properties tab.
  - c. In the hierarchy tree, right-click the **TotalBusiness** node, and select **New**.

    Both the Limb and Leaf menu items are available. You confirmed that PatM can add limb and leaf nodes to the Product hierarchy.
- 4. Verify that PatM can read limb nodes in the Europe node and add leaf nodes to the Europe node in the Geography hierarchy:
  - a. Click the **Home** tab.
  - b. On the Hierarchies tab, double-click the **Geography** hierarchy to open it. The Geography TotalComputer tab is displayed.
  - c. With the TotalGeography node selected, verify that Leaf Access is set to Read and Limb Access is set to Read on the Properties tab.
  - d. In the hierarchy tree, select the **Europe** node.
  - e. On the Properties tab, verify that Limb Access is set to Read and that Leaf Access is set to Add.
  - f. Right-click the **Europe** node, and select **New**.
    Notice that only the Leaf menu item is available. You confirmed that PatM can add only leaf nodes to the Europe node.
- 5. Verify that PatM can only read other nodes outside the Europe node structure in the Geography hierarchy:
  - a. In the hierarchy tree, expand the **North America** node.
  - b. Select the **USA** node.
  - c. On the Properties tab, verify that both Leaf Access and Limb Access are equal to Read.

#### Logging On to the ProjectOne Application as the Administrator

- 1. At the top of Web Client, select **Logout**.
  - The logon page is displayed.
- 2. In the User Name box, enter **admin**.

- 3. In the Password box, enter **Welcome!**.
- 4. Click Log On.

The Accessories, Copy Of Accessories, HardwareSoftware, and TotalComputer versions are listed on the Home tab.



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# Practices for Lesson 14: Configuring Governance Workflows SASIKUMAR DHANAPAL SASIKUMAR DHANAPAL Incense

Chapter 14

### **Practices for Lesson 14: Overview**

#### **Practices Overview**

In these practices, you add a governance user and assign the user to a new workflow node access group. You then create a workflow task and workflow model for a new type of change request to maintain products in the ProjectOne application. During the creation of the workflow model, you define workflow stages to control how the request is submitted, approved, and committed. After the workflow model is created. You assign workflow node access group to hierarchies used by the workflow model. To test the workflow model, you log on to the ProjectOne application as the governance user and create a new single item change request to add a new product. As the commitment user, you approve the change request and review the request activity.



# **Practice 14-1: Building the Product Maintenance Workflow Model**

#### Overview

Set up governance users, BobJ (Bob Jones) and PatM (Pat Murray). Create workflow node access groups for submitting and approving product changes and assign the workflow node access groups to the Product hierarchy. Create a workflow task for submitting requests to add products. Create a workflow model to maintain products and add the workflow task to the model for the Submit stage.

#### Task

To accomplish this task:

- 1. Create a user named BobJ with the password Oracle! (which should not expire). Assign him the Governance User role.
- 2. Edit the existing user named PatM by assigning him the Governance User role.
- 3. Create workflow node access groups and perform the following assignments:
  - Assign users to the node access groups as defined in the following table: \( \)

Node Access Group Name	Node Access Group Description	Users
ProductWorkflow	Product Workflow Group	BobJ
MgrWorkflow	Manager Workflow Group	PatM

 Assign the node access groups to the Product hierarchy as defined in the following table:

Node Access Group Name	Limb Access	Leaf Access
ProductWorkflow	Submit	Submit
MgrWorkflow	Commit	Commit

4. Create a workflow task for adding new products to the Product hierarchy with parameters as defined in the following table:

Workflow Task Parameter	Limb Access
Name and Label	Add Product
Instructions	Define the name, description, and parent for a new product.
Action Type	Add Leaf

5. Create a workflow model for maintaining products with parameters as defined in the following table:

Workflow Model Parameter	Value
Name and Label	Product Maintenance
Description	Make changes to the Product hierarchy.
Request Duration	7
Claim Duration	2

- 6. Define the details of the workflow model stages:
  - For the Submit stage:

Stage Parameter	Value
Label	Specify Product Changes
Workflow Task	Add Product
Node Access	Custom.ProductWorkflow
Workflow Method	Any Group
Re-Approval	All
Notify	Assignees

# • For the Commit stage

Stage Parameter	Value
Label	Commit Product Changes
Node Access	Custom.MgrWorkflow
Workflow Method	Any Group
Re-Approval	All 109 dent
Notify	Assignees and Participants
Notify  Notify  ASIKUMAR DHAM  And the lick of the lic	anse to

# **Solution 14-1: Building the Product Maintenance Workflow Model**

#### **Creating the User Bob Jones**

- Select the Administer task group.
- 2. In the New drop-down list, select **User**.
  - The New User tab is displayed.
- 3. In the Username box, enter **BobJ**.
- 4. In the Full Name box, enter **Bob Jones**.
- 5. Select Password does not expire.
- 6. On the Roles tab, select **Governance User**, and click the Select button ( ) to move the role to the Selected list.
- 7. On the toolbar, click the Save button ( ).

  The Change User Password dialog box is displayed.
- 8. In the New Password and Re-enter New Password boxes, enter **Oracle!**.
- 9. Click OK.
- 10. Close the **BobJ** tab.

# **Editing the User Pat Murray**

- 1. Ensure that you are working in the **Administer** task group.
- 2. If necessary, expand **Security** and then **Users** to display the list of the existing users.
- Right-click PatM and select Edit from the pull-down menu.
   The PatM tab is displayed.
- 4. On the Roles tab, select **Governance User**, and click the Select button ( ) to move the role to the Selected list.
- 5. On the toolbar, click the Save button ( ].
- 6. Close the **PatM** tab.

# Creating the ProductWorkflow Node Access Group

- 1. Ensure that you are working in the **Administer** task group.
- 2. In the New drop-down list, select **Node Access Group**.
  - The New Node Access Group tab is displayed.
- 3. In the Name and Label boxes, enter ProductWorkflow.4. In the Description box, enter Product Workflow Group.
- 5. In the Group Type drop-down list, select **Workflow**.
- 6. In the Users area, in the Available list, select **BobJ**, and click the Select button ( ) to move BobJ to the Selected list.
- On the toolbar, click the Save & New button ( ).
   The ProductWorkflow node access group is saved, and a New Node Access Group tab is displayed.

# **Creating the MgrWorkflow Node Access Group**

In the Name and Label boxes, enter MgrWorkflow.

- 2. In the Description box, enter Manager Workflow Group.
- 3. In the Group Type drop-down list, select **Workflow**.
- 4. In the Users area, in the Available list, select **PatM**, and click the Select button ( ) to move PatM to the Selected list.
- On the toolbar, click the Save button ( ).
   The MgrWorkflow node access group is saved.
- 6. Close the **Custom.MgrWorkflow** tab.

# Assigning the Workflow Node Access Groups to the Product Hierarchy

- Select the **Browse** task group.
- 2. In the versions list, select the **TotalComputer** version.
- Double-click the **Product** hierarchy to open it.
   The Product TotalComputer tab is displayed.
- 4. In the hierarchy tree, right-click the **TotalBusiness** node, select **Assign** and then **Node Access**.

On the Properties tab, the category is set to Limb Access.

- 5. For the ProductWorkflow (Limb) value, select **Submit**.
- 6. For the MgrWorkflow (Limb) value, select Commit.
- 7. Click Save.
- 8. In the Category drop-down list, select Leaf Access.
- 9. For the ProductWorkflow (Leaf) value, select **Submit**.
- 10. For the MgrWorkflow (Leaf) value, select Commit.
- 11. Click Save.
- 12. Close the Product TotalComputer tab.

# **Creating the Add Product Workflow Task**

- Select the Administer task group.
- 2. In the New drop-down list, select **Workflow Task**.

The New Workflow Task tab is displayed.

- 3. In the Name and Label boxes, enter **Add Product**.
- 4. In the Instructions box, enter **Define the name, description, and parent for a new product**.
- 5. In the Action Type drop-down list, select **Add Leaf**.

The Name, Description, and Parent Node default properties are added to the Selected list on the Properties tab.

6. On the toolbar, click the Save button ( ].

The Add Product workflow task is saved.

7. Close the **Add Product** tab.

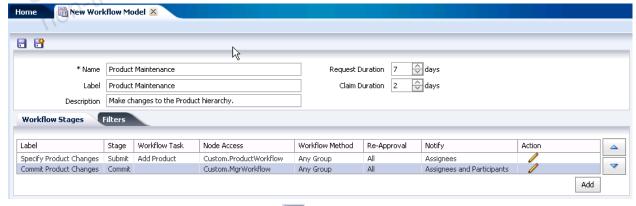
#### **Creating the Product Maintenance Workflow Model**

- 1. Ensure that you are working in the **Administer** task group.
- 2. In the New drop-down list, select Workflow Model.

The New Workflow Model tab is displayed.

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- 3. In the Name and Label boxes, enter **Product Maintenance**.
- 4. In the Description box, enter Make changes to the Product hierarchy.
- 5. In the Request Duration box, enter **7**.
- 6. In the Claim Duration box, enter 2.
- 7. On the Workflow Stages tab, in the Submit stage row, click the Edit button ( // ). The Submit stage row becomes editable.
- 8. Perform the following tasks:
  - a. In the Label box, enter Specify Product Changes.
  - b. In the Workflow Task drop-down list, select Add Product and click Close.
  - c. In the Node Access drop-down list, select **ProductWorkflow** and click **Close**.
  - d. In the Workflow Method drop-down list, verify that **Any Group** is selected and select it if necessary.
  - e. In the Re-Approval drop-down list, verify that All is selected and select it if necessary.
  - f. In the Notify drop-down list, select **Assignees**.
  - g. In the Action column, click the Update button ( ].
- 9. On the Workflow Stages tab, in the Commit stage row, click the Edit button ( // ). The Submit stage row becomes editable.
- 10. Perform the following tasks:
  - a. In the Label box, enter Commit Product Changes.
  - b. In the Node Access drop-down list, select MgrWorkflow and click Close.
  - c. In the Workflow Method drop-down list, verify that **Any Group** is selected and select it if necessary.
  - In the Re-Approval drop-down list, verify that All is selected and that you cannot change it.
  - e. In the Notify drop-down list, select Assignees and Participants.
  - f. In the Action column, click the Update button ( ].



11. On the toolbar, click the Save button (lacksquare).

The Product Maintenance workflow model is saved.

12. Close the **Product Maintenance** tab.

# **Practice 14-2: Creating and Approving a New Product Request**

#### Overview

Your company expands the product list and a request to add a product is submitted for approval.

#### Task

To accomplish this task:

1. Log on to the ProjectOne application as BobJ and create a single item change request to add a product with the following properties:

Product Name	Product Description
100-40	Wireless Speakers

Submit the request for approval and commitment.

- Log on to the ProjectOne application as PatM (password is Oracle!), approve the request contransferable license to use this study sasificans to use the sa to commit the request changes to the Product hierarchy, and review all activity for the
- 3. Log on to the ProjectOne application as admin (password is Welcome!).

# Solution 14-2: Creating and Approving a New Product Request

#### **Creating a Single Item Request**

- 1. Log on as BobJ:
  - a. At the top of Web Client, select Logout.
    - The logon page is displayed.
  - b. In the User Name box, enter **BobJ**.
  - c. In the Password box, enter Oracle!.
  - d. Click **Log On**.
- 2. Create a new change request:
  - a. In the New Request drop-down list, select Product Maintenance.
    - The New Request tab is displayed. The workflow model label and description is displayed at the top of the tab.
  - b. In the Version drop-down list, select **TotalComputer**.
  - c. Click Add Items.

The Add Items dialog box is displayed.

- d. In the Task drop-down list, select **Add Product** and click **OK**.
  - The Add Product task is added to the Request Items table and the Item Details fields are displayed below the table.
- e. In the Name box, enter 100-40.
- f. In the Description box, enter Wireless Speakers.
- g. Next to the Parent box, click the ellipsis button ( ) to select the parent node.
  - The Select Parent dialog box is displayed with the Product hierarchy selected.
- h. Select the **Browse** tab.

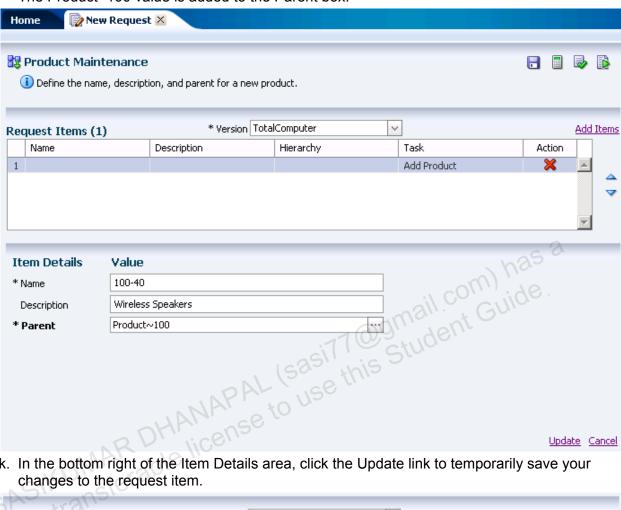
The Product hierarchy top node TotalBusiness is displayed.

i. Expand TotalBusiness and then Computer Accessories.

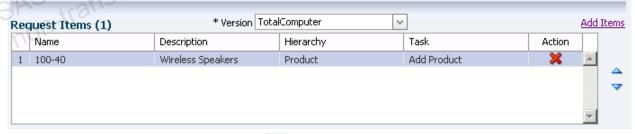


j. Select 100 and click OK.

The Product~100 value is added to the Parent box.



k. In the bottom right of the Item Details area, click the Update link to temporarily save your changes to the request item.



- I. In the toolbar, click the Save button ( ).
  - The Save Request dialog box is displayed.
- m. In the Request Title box, enter Wireless Speakers and click OK.

The New Request tab is renamed Wireless Speakers.

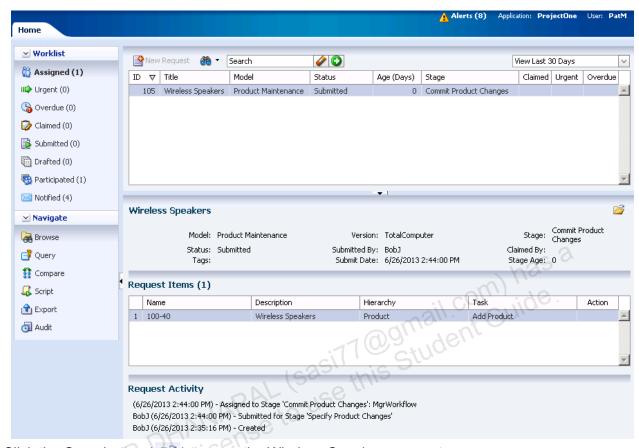
- 3. Submit the Wireless Speakers request:
  - a. In the Workflow Path area, view the list of workflow stages associated with the Product Maintenance workflow model.
    - The current stage Specify Product Changes is bold faced and the Commit Product Changes stage is displayed after it.
  - b. In the toolbar, click the Submit button ( ).

The request is validated and submitted to the workflow model for assignment to the next user(s). The Workflow Path area displays the request status (Submitted) and the current stage of the request in bold font. The previous stage that has been completed is marked with a checkmark icon.



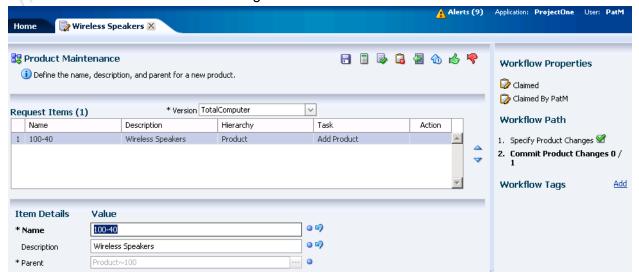
- - c. In the Password box, enter Oracle!.
  - d. Click Log On.

The Worklist page displays the assigned Wireless Speakers request and its summary.



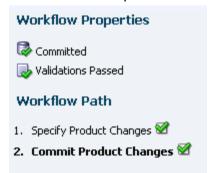
- Click the Open button ( ) to open the Wireless Speakers request.
   The Wireless Speakers tab is open. Note that the request item details are not yet editable.
- 3. Click the Claim button ( ) to act upon and lock the request.

The Workflow Properties area displays that the request is claimed by user Patm. Note that item details are now enabled for editing.



4. Click the Approve button ( ) to approve the request.

The Workflow Properties area displays the Committed status of the request.



## **Reviewing the Request Activity**

Click and drag the slider above the Request Activity area to expand the section for viewing purposes. View the content of the Request Activity area to identify the users who participated in the request, when they participated, and the actions that they took during the life of the request.



Note that the hierarchy owner user (ADMIN) is implicitly used by the workflow model to commit request changes to nodes in a single hierarchy.

# Logging On to the ProjectOne Application as the Administrator

- 1. At the top of Web Client, select **Logout**.
  - The logon page is displayed.
- 2. In the User Name box, enter admin.
- 3. In the Password box, enter **Welcome!**.
- 4. Click Log On.

The Accessories, Copy Of Accessories, HardwareSoftware, and TotalComputer versions are listed on the Home tab.

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Practices for Lesson 15: Analyzing Data Change Chapter 15 Analyz

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Chapter 15

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# **Practices for Lesson 15: Overview**

#### **Practice Overview**

In this practice, you create an As-Of version to identify changes in the Member Formula property over time.

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# **Practice 15-1: Identifying Changes to the Member Formula Property**

#### Overview

You want to understand the changes that occurred to the Member Formula property values in the TotalComputer version since the day before. Therefore, you create an As-Of version and then compare the Member Property values in the As-Of version to the current version.

- 1. Create an As-Of version of the TotalComputer version. Set the transaction date and time as the previous day at 9:00 AM.
- 2. Create a compare:
  - a. Configure the From Version and the To Version appropriately.
  - b. When configuring the style, specify to join on the Name property and return the results in a list format.
  - c. Set the filter appropriately.
  - d. In the results, show the Name and filter properties.
- 3. Save the compare as follows:
  - Name: Compare Formulas
  - Description: Compare formulas in Account hierarchies
  - Object Access Level: User
- Run the compare and verify the results: Margin Percent and Profit Percent are listed as different in the As-Of version and the current version.
  - In the As-Of version, the formulas are missing.
  - In the current version, the formula for Margin Percent is Margin % Sales, and the formula for Profit Percent is Profit % Sales.

# Solution 15-1: Identifying Changes to the Member Formula Property

#### Creating an As-Of Version of the TotalComputer Version

- Select the Browse task group.
- 2. In the version list, right-click the **TotalComputer** version, and select **Create As-Of Version**. The Create As-Of Version dialog box is displayed.
- 3. In the As-Of Type drop-down list, leave **Transaction Date/Time** selected.
- 4. In the Transaction Date drop-down list, select the previous day.
- 5. In the Transaction Time box, enter **09:00 AM**.
- 6. Click OK.

The "TotalComputer - As Of:<date/time>" version is listed. Its status is marked as Expired.

#### **Creating a Compare**

- 1. Select the **Compare** task group.
- 2. On the toolbar, click the New Compare button ( ).

  The New Compare tab is displayed, and the Source tab is displayed by default.
- 3. Configure the "From Version":
  - a. In the From Version drop-down list, select the As-Of version that you just created (for example, **TotalComputer As Of:5/3/2013 9:00:00AM**).
  - b. In the Hierarchy/Node box, click the ellipsis button (....). The Select Node dialog box is displayed.
  - c. In the Hierarchy drop-down list, select **Account**.
  - d. In the Nodes list, leave the **Measures** node selected.
  - e. Click OK.
- 4. Configure the "To" version:
  - a. In the To Version drop-down list, select the **TotalComputer** version.
  - b. Verify that the Hierarchy/Node box displays the **Account** hierarchy and the **Measures** node.
- 5. Configure the style:
  - a. Click the Style tab.
  - b. In the Compare Type drop-down list, select **Property**.
  - c. In the Join Field, leave Name selected.
  - d. In the Result Display drop-down list, select **List**.
- 6. Set a filter:
  - a. Click the Filters tab.
  - b. In the Category drop-down list, select **Essbase**.
  - c. In the Available list, select **Member Formula**, and click the Select button ( ) to move it to the Selected list.
- 7. Configure the columns:
  - a. Click the Columns tab.
  - b. In the Category drop-down list, leave **System** selected.

- c. In the Available list, select **Name**, and click the Select button ( ) to move it to the Selected list.
- d. At the top, select Include Compare/Filter Properties.

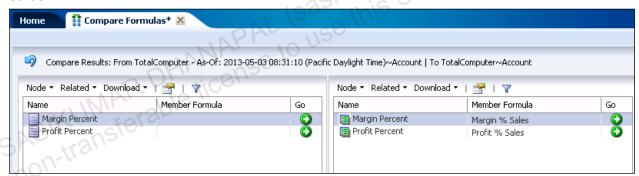
#### **Saving the Compare**

- 1. On the toolbar, click the Save button ( ). The Save Compare dialog box is displayed.
- 2. In the Name box, enter **Compare Formulas**.
- 3. In the Description box, enter Compare formulas in Account hierarchies.
- 4. In the Object Access Level drop-down list, leave **User** selected.
- 5. Click OK.

# **Running the Compare and Verifying the Results**

- 1. On the toolbar, click the Run button ( ).
- 2. Verify that your results are the same as the following figure.

The results indicate that the formulas for Margin Percent and Profit Percent were different the day before. The formulas in the As-Of version are different than the formulas in the current version. In the As-Of version, the formulas are missing. In the current version, the formula for Margin Percent is Margin % Sales, and the formula for Profit Percent is Profit % Sales.



Close the Compare Formulas tab.

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