

## ORACLE APPLICATION FRAMEWORK (OAF) Lab Book

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## Lab 1. JDeveloper Setup

<b>Goals</b>	<ul style="list-style-type: none"> <li>Setup your Development Environment.</li> <li>Configure the JDEV_USER_HOME Environment Variable</li> <li>Start JDeveloper</li> </ul>
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### 1.1: Setup your Development Environment

Create a web page to display the text 'This is the first html page created'.

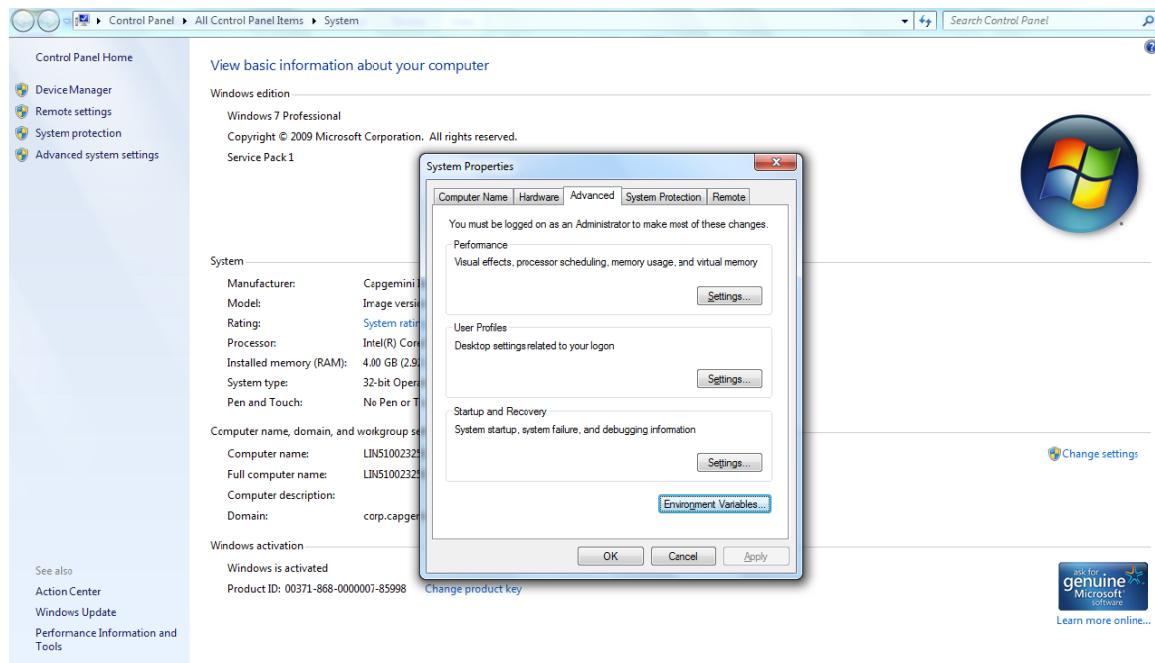
#### Solution:

#### Step 1: Setup your Development Environment.

Unzip p9172975\_R12\_GENERIC – OAF extensions for R12.1.3 Version of EBS.  
It will create 3 folders – jdevbin, jdevdoc, jdevhome

#### Step 2: Configure the JDEV\_USER\_HOME Environment Variable

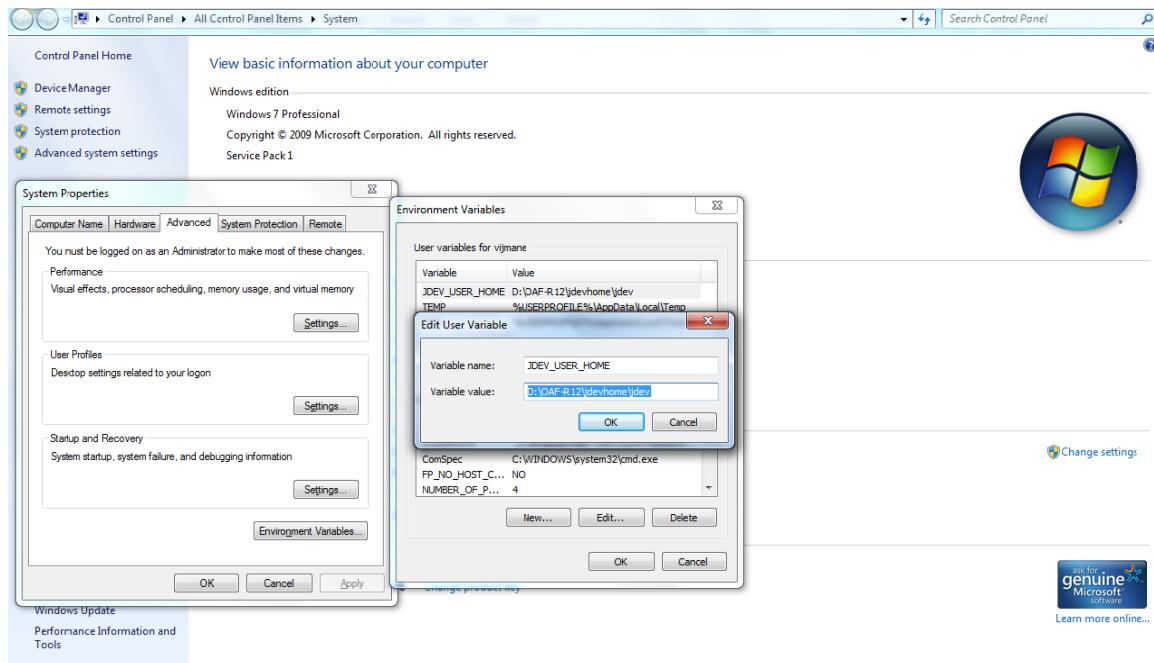
Select *My Computer* on your desktop, right-click and select *Properties*.  
In the System Properties dialog, select the *Advanced System Settings link*.  
In the Advanced page, select the *Environment Variables...* button.



In the Environment Variables dialog, select the *New...*

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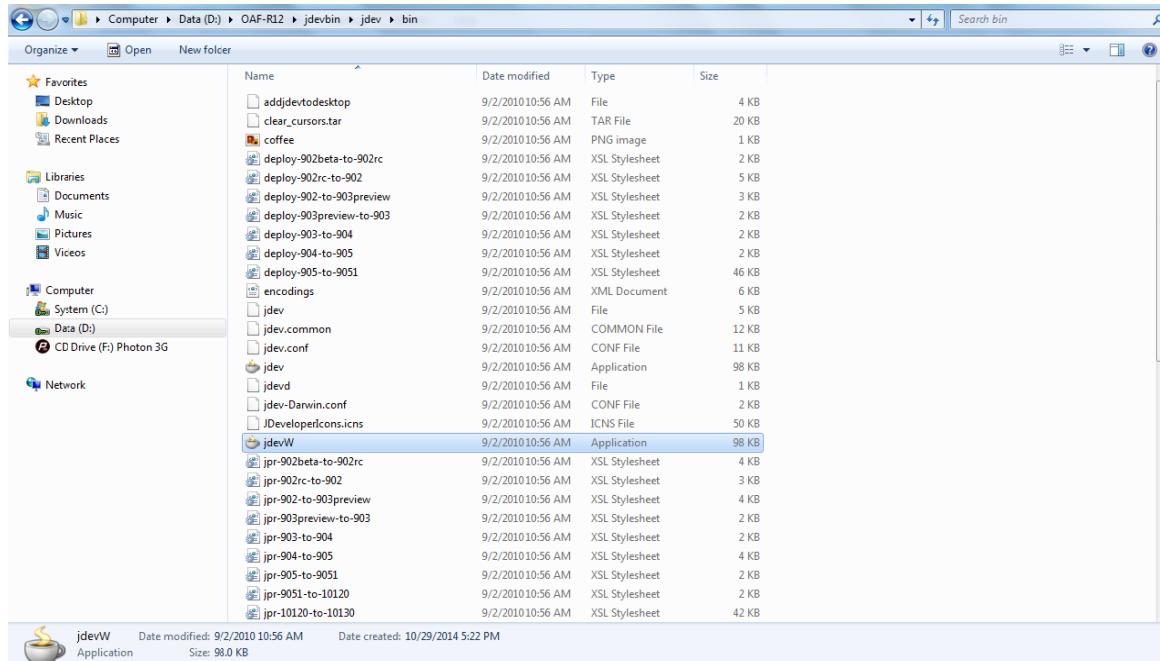
In the New User Variable dialog, Enter JDEV\_USER\_HOME in the Variable Name field. Set the Variable Value field to point to your jdev directory (ex: E:\OAF\jdevhome\jdev)



Select OK in each of the dialogs you opened to save the new user environment.

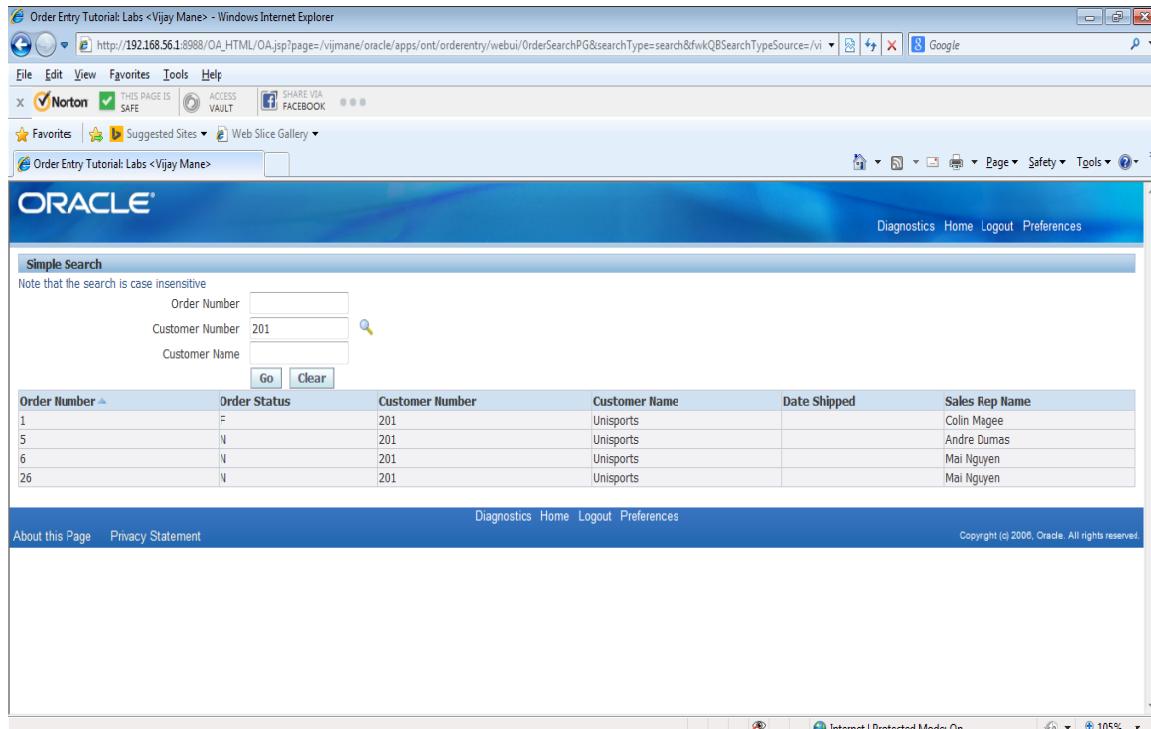
### Step 3:Start JDeveloper

Launch Oracle Jdeveloper 10.1.3.3.0 from - <Install Folder>\jdevbin\jdev\bin\jdevW.exe



## Orders: Search Overview

In this exercise, we will be implementing a simple search and results page as shown below.



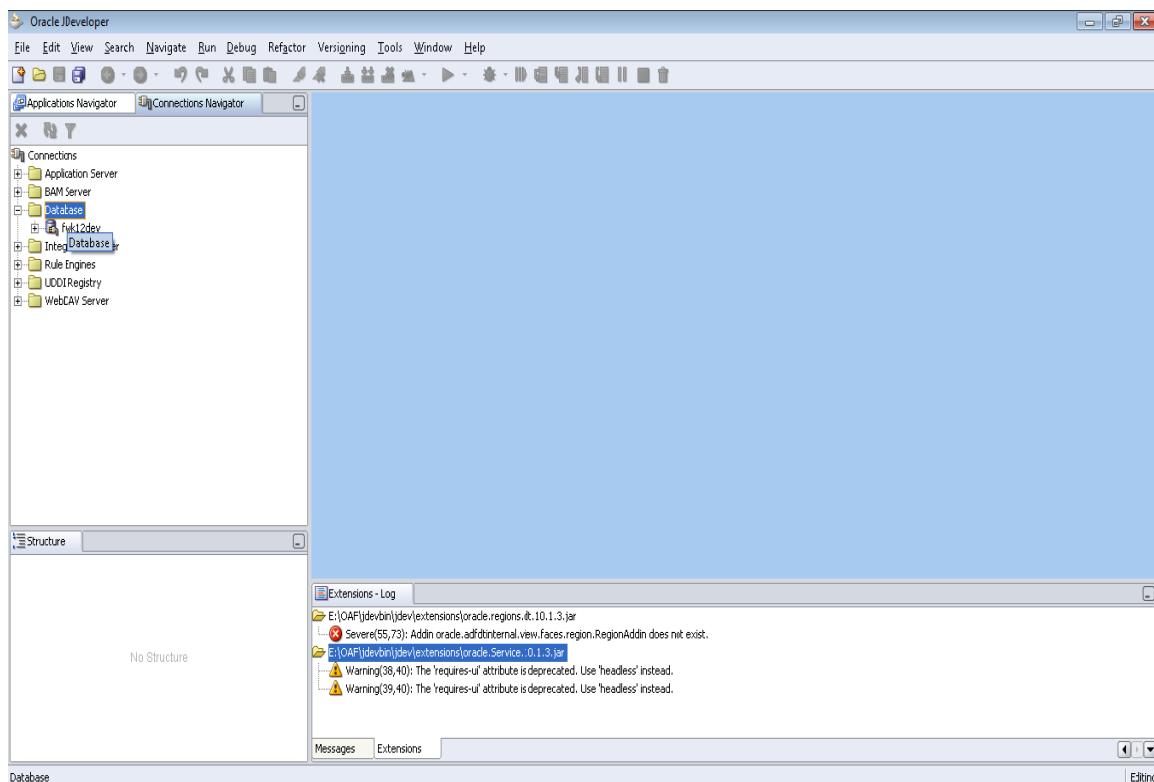
The screenshot shows the Oracle Application Framework (OAF) Lab Book interface. At the top, there is a navigation bar with links for Diagnostics, Home, Logout, and Preferences. Below the navigation bar is a search section titled "Simple Search" with fields for Order Number, Customer Number, and Customer Name. A "Go" button is located next to the search fields. Below the search section is a table displaying search results:

Order Number	Order Status	Customer Number	Customer Name	Date Shipped	Sales Rep Name
1	P	201	Unisports		Colin Magee
5	N	201	Unisports		Andre Dumas
6	N	201	Unisports		Mai Nguyen
26	N	201	Unisports		Mai Nguyen

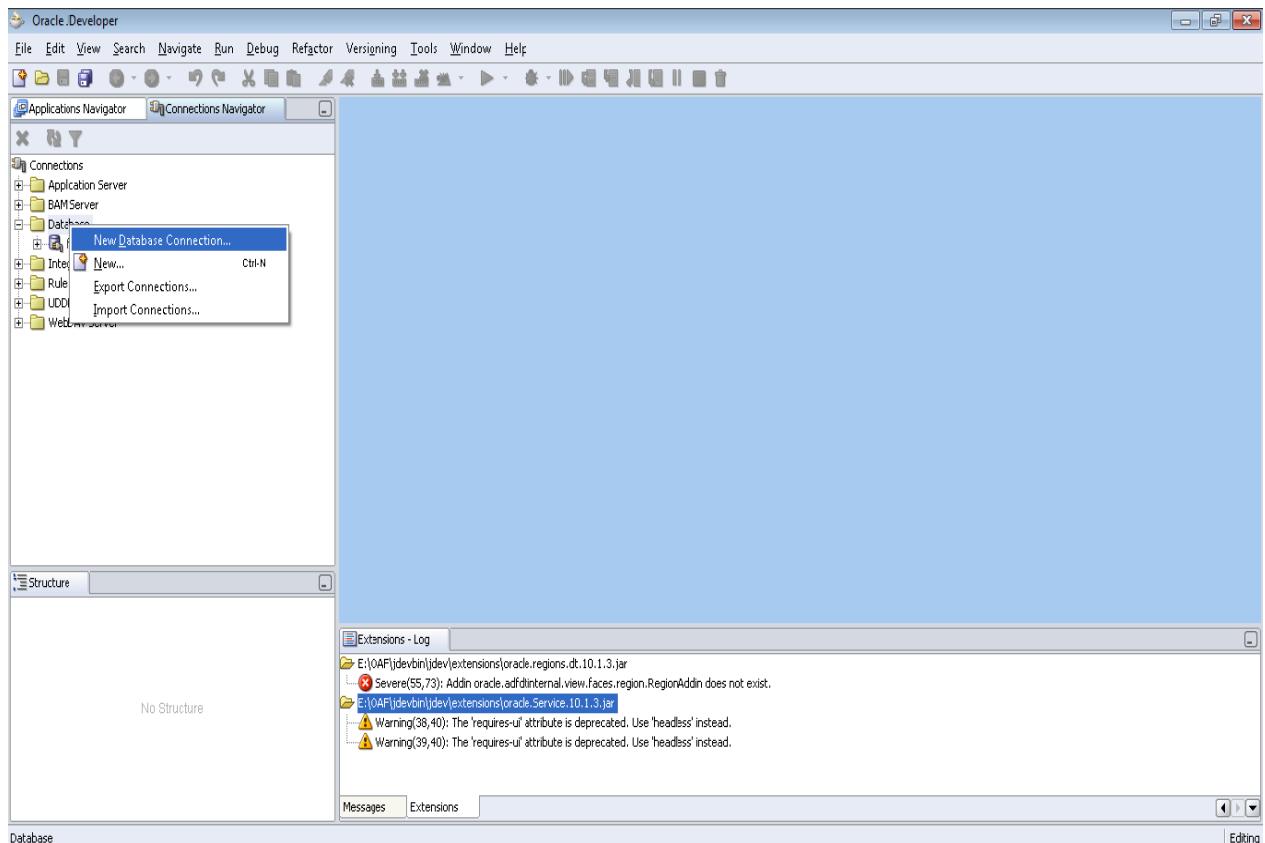
At the bottom of the page, there are links for About this Page, Privacy Statement, and Copyright information.

- Create database connection -

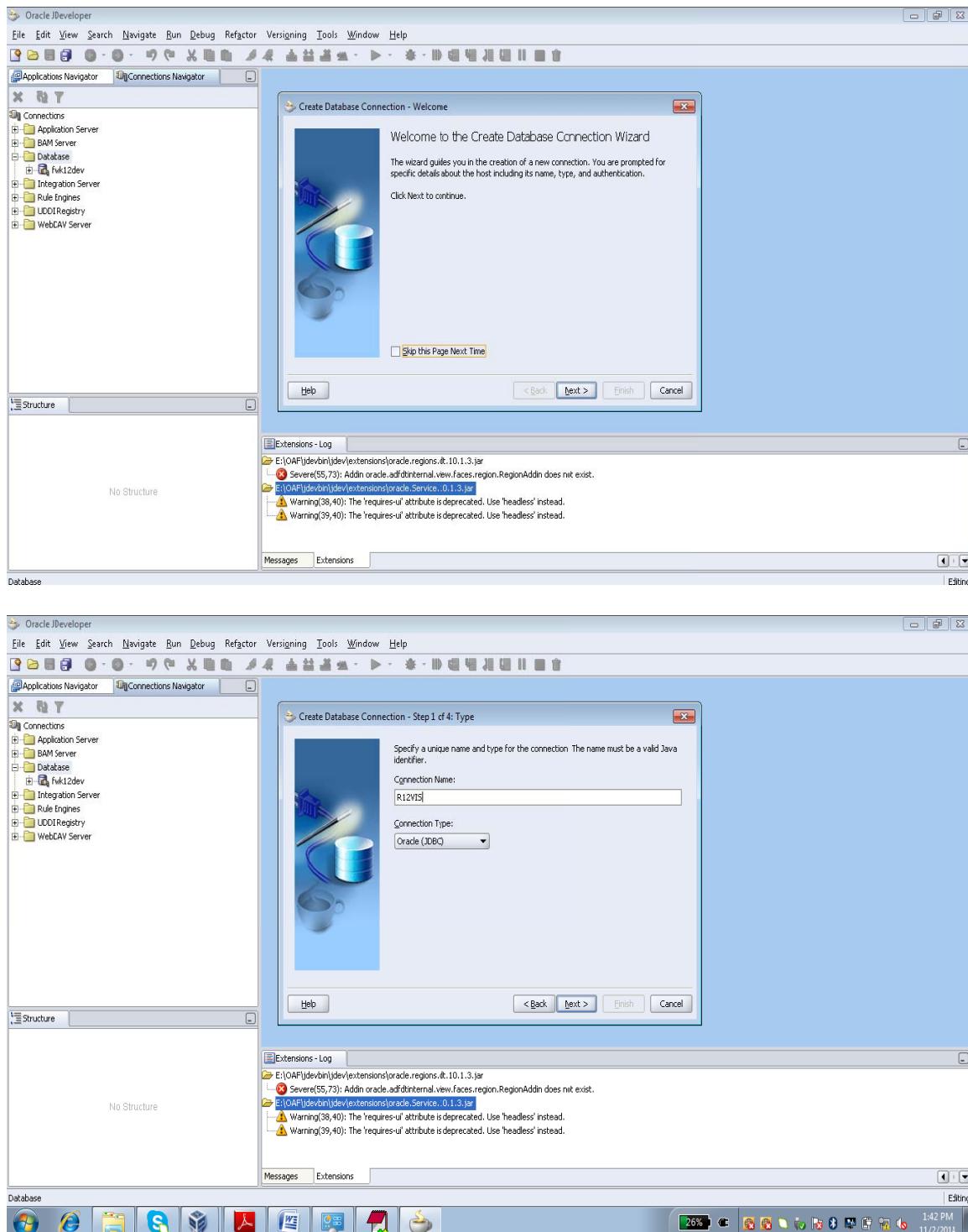
Expand the *Connections* node in the JDeveloper System Navigator,  
Then expand the Database node.



- Right-click on the Database node.



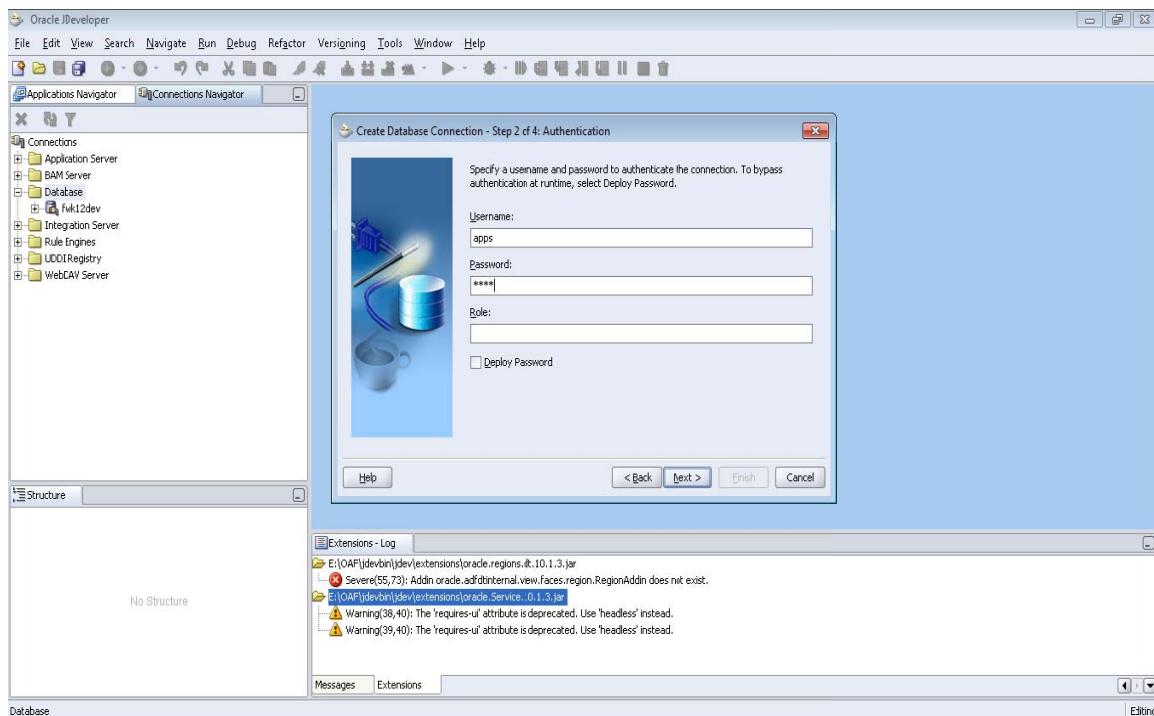
- Select New Connection to open the Connection Wizard.  
Click Next



Username = apps  
Password = apps

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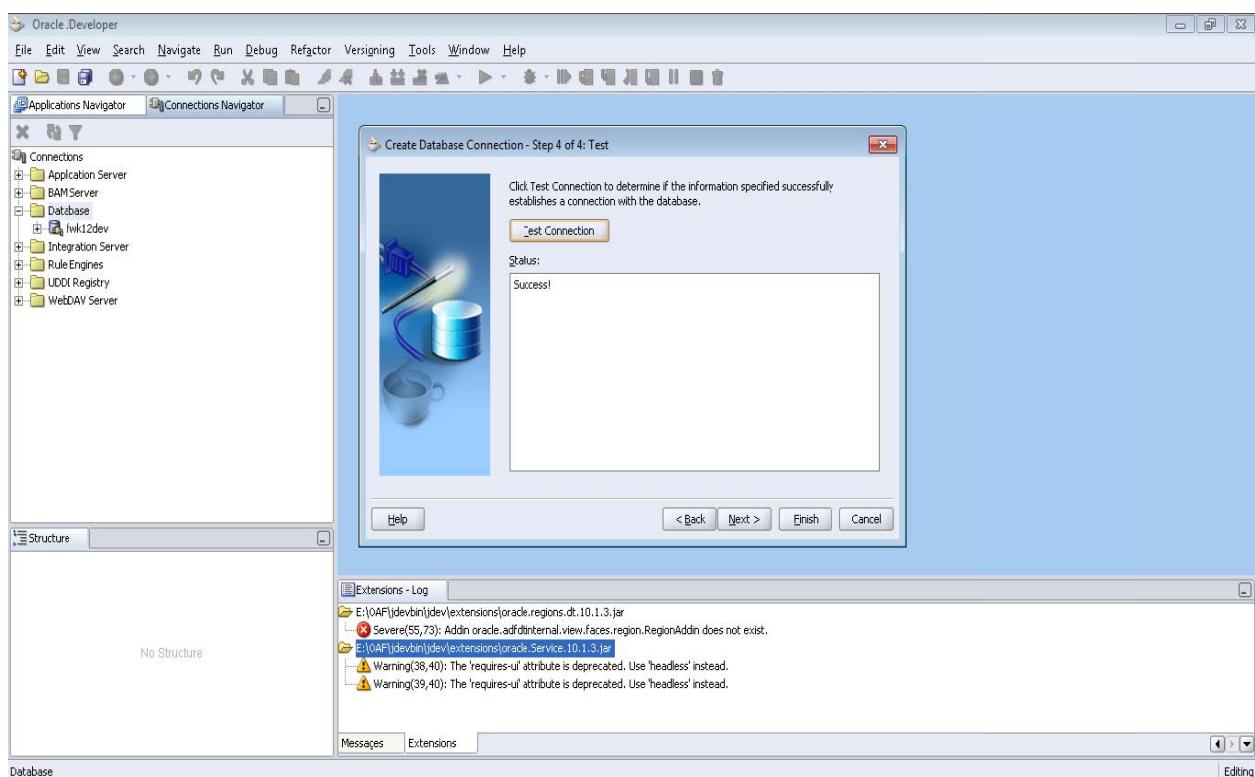
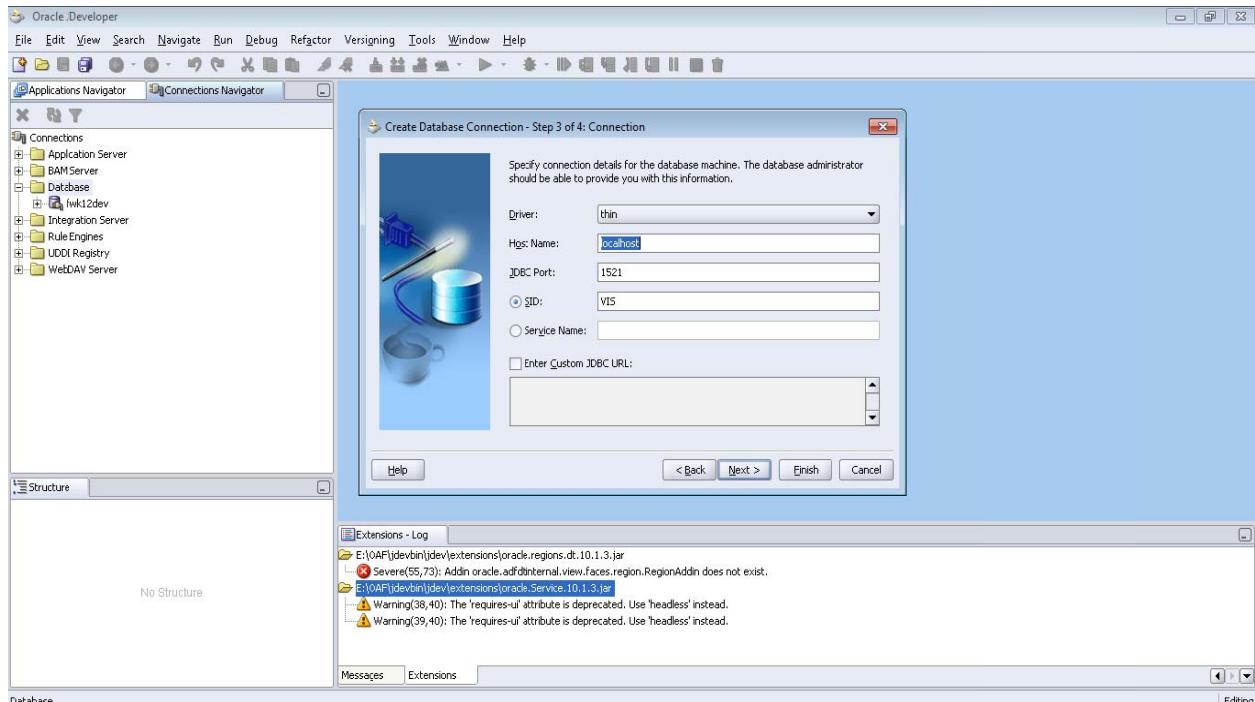
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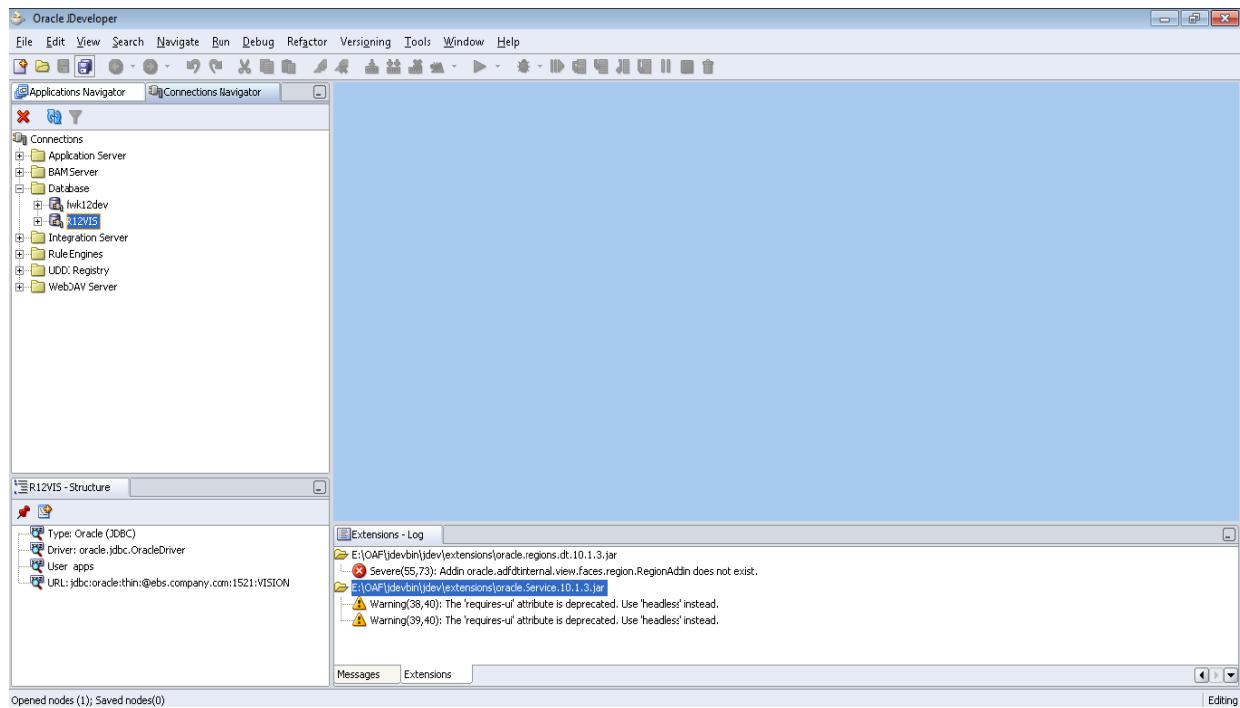


Host Name = oslcoe04.capgemini.com

JDBC Port = 1525

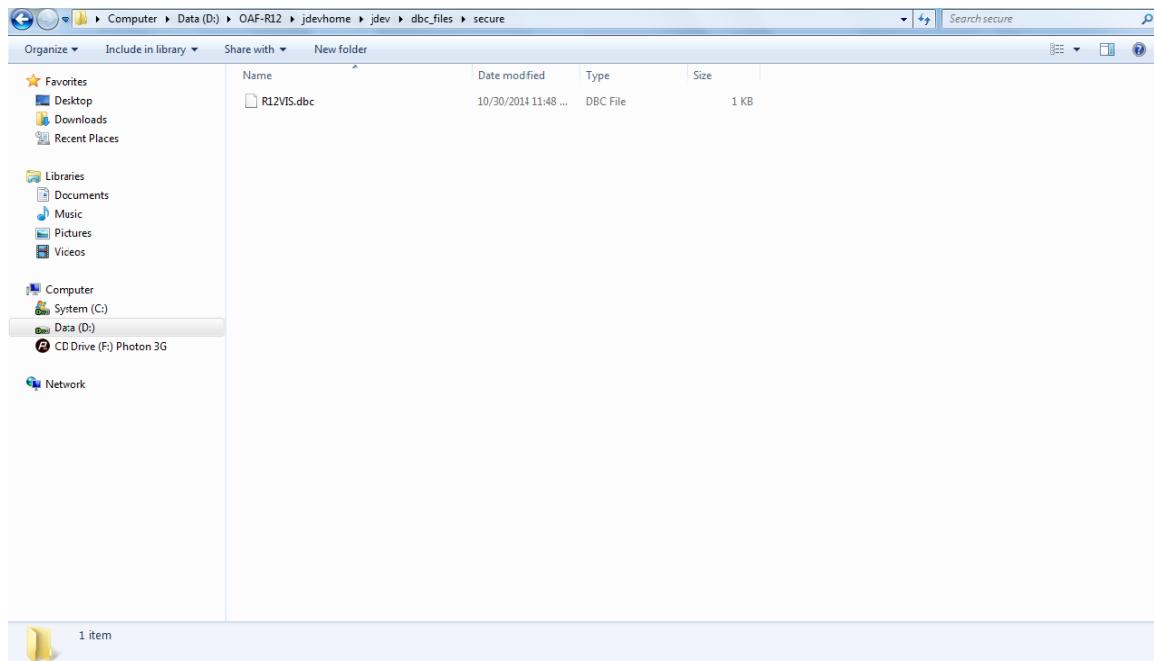
SID = R12VIS





Get DBC file from DBA or from Unix server.  
Put DBC File in below directory

<Installation Directory>\jdevhome\jdev\dbc\_files\secure



## Lab 2. Create a Search Page

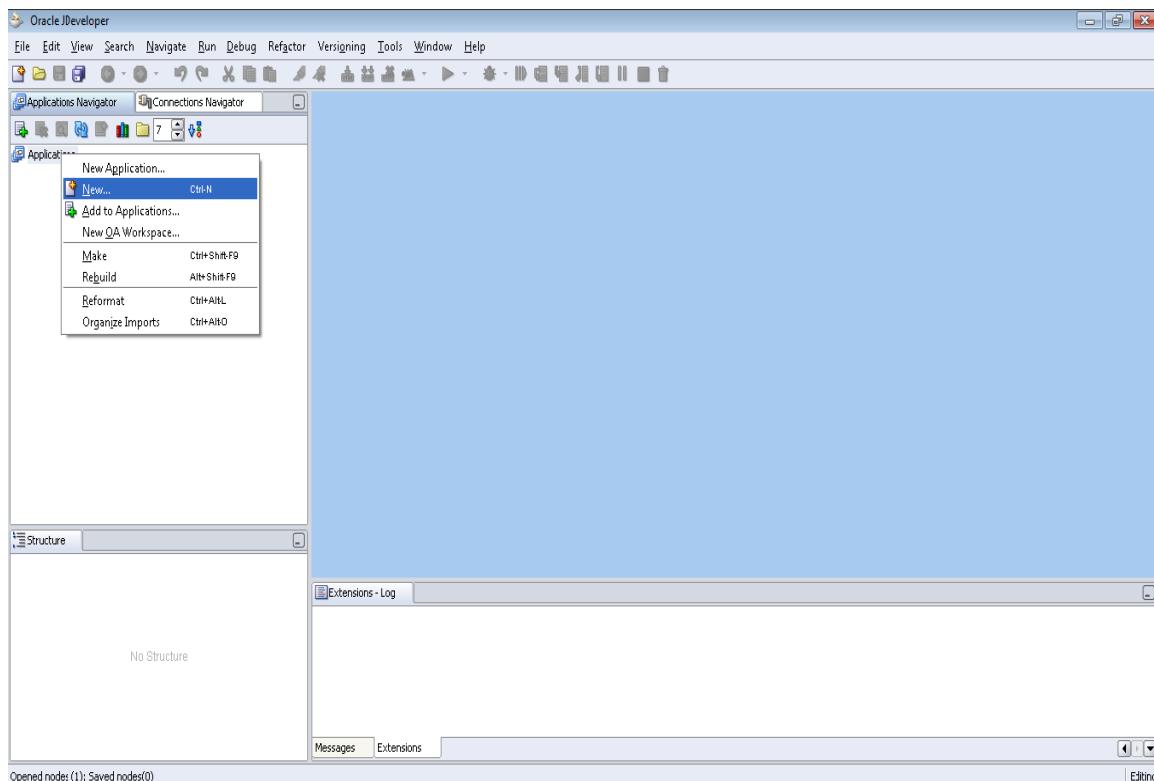
**Important Note → Your all objects naming should start with xxdm.<yourusername>.**

### 2.1: Create Your Project

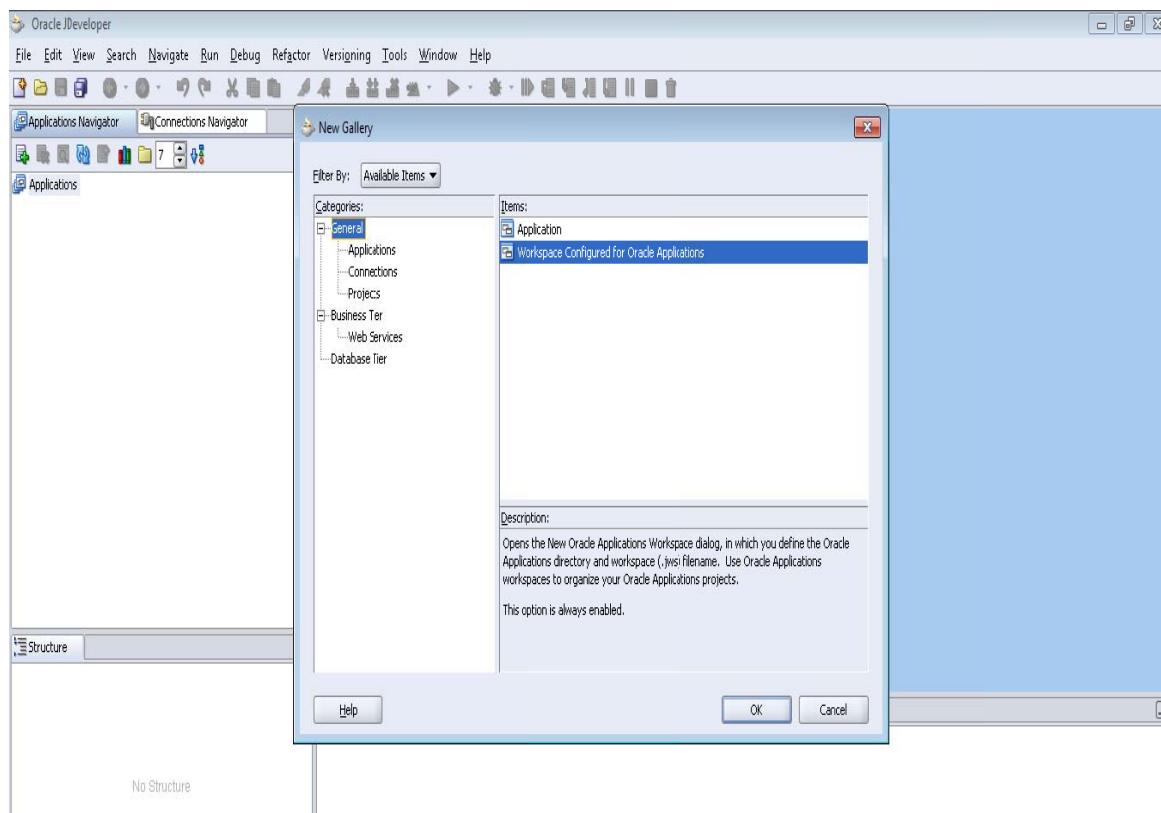
#### 2.1.1 Create an Oracle Applications (OA) Project

This is the project where we will create all our lab work.

Create a new OA Workspace, select **File > New** from the main menu.



In the **General** menu choose **Workspace Configured for Oracle Applications**, and select OK.



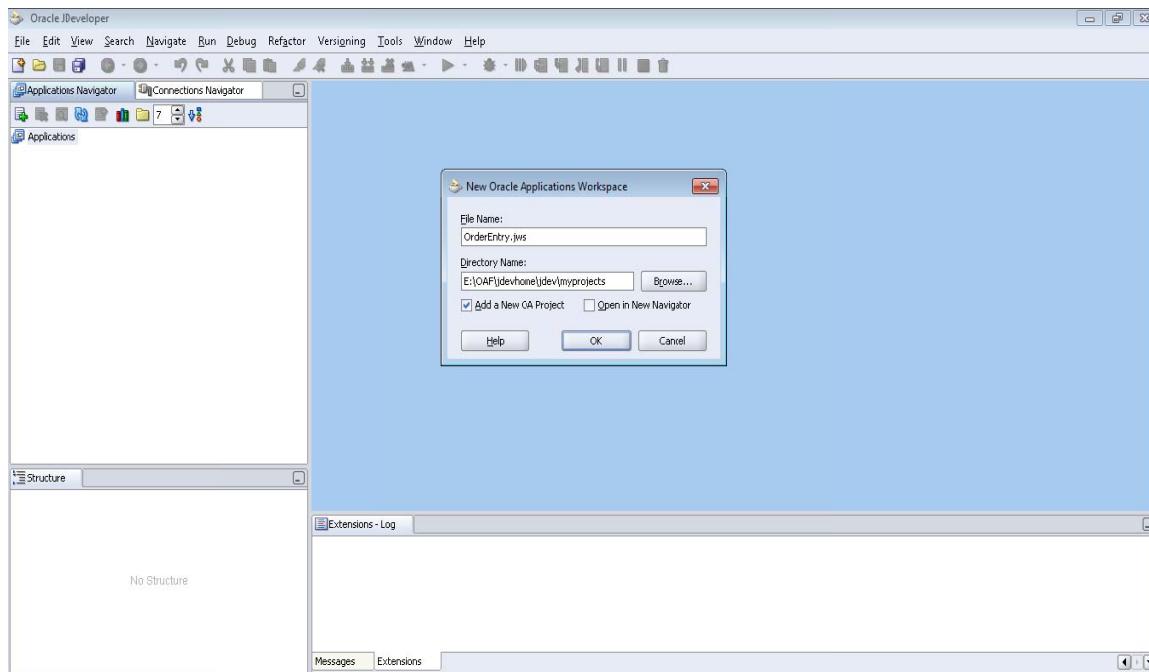
In the window that pops up

Check if the directory name is

**Drive\_name:\<your JDEV\_USER\_HOME>\myprojects**

In the file name field, fill in **OrderEntry.jws**

Ensure that Add a New OA Project checkbox is checked.

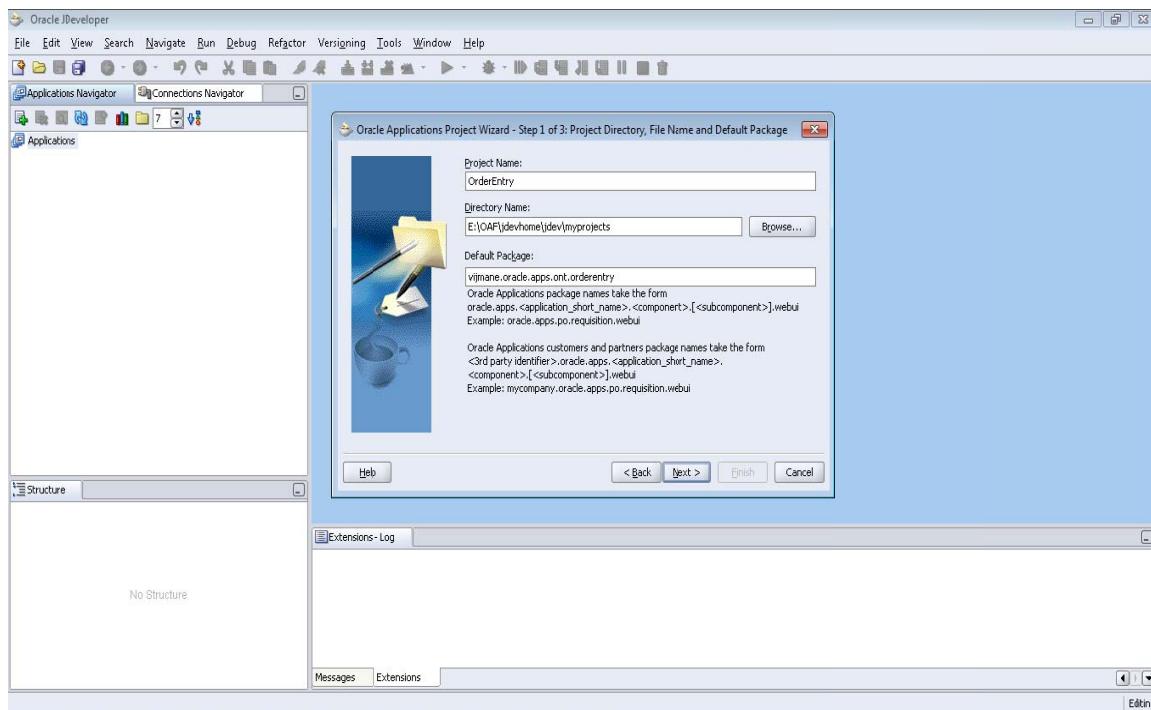


If the Welcome page appears, select Next.

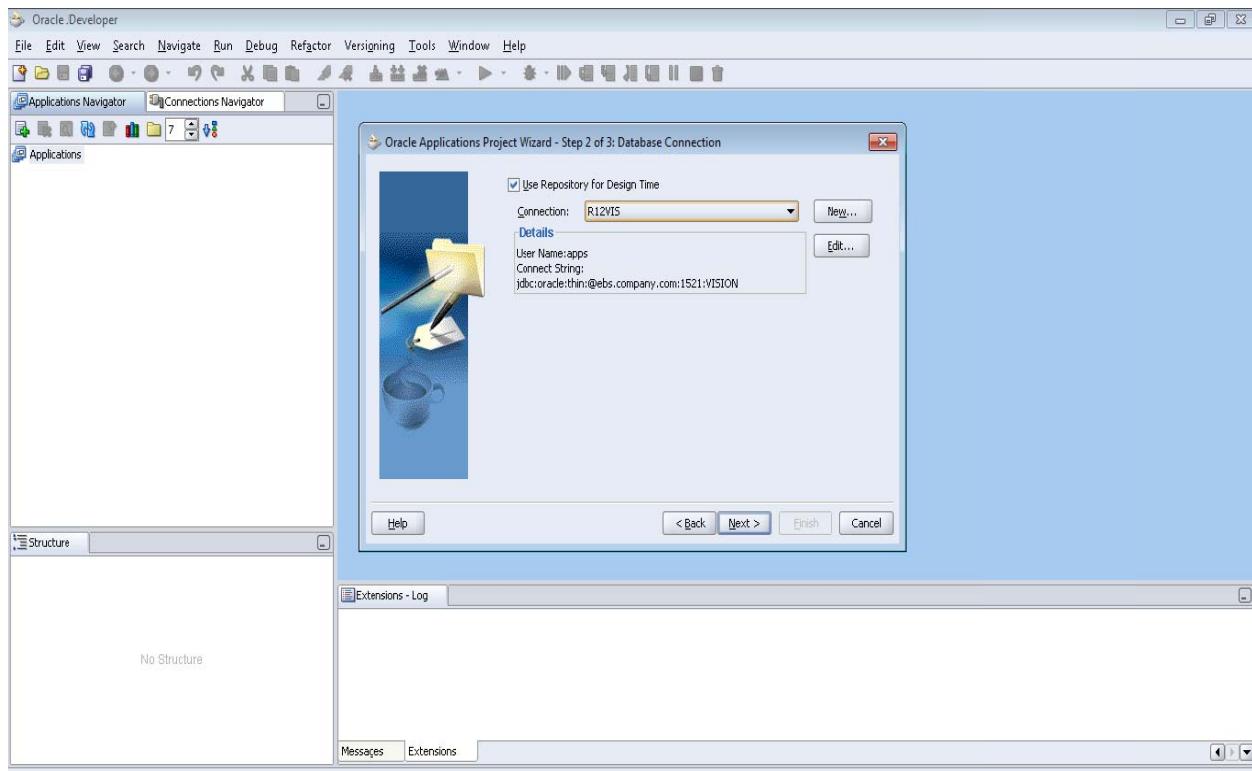
Change (or verify) the Directory Name field to your directory <install directioy>\myprojects

Change the File Name field to **OrderEntry.jpr**

Set the Default Package field to xxdm.<**yourcguserid**>.oracle.apps.ont.orderentry



Select the connection – Which is created.  
Or you can create new by clicking in “New” Button.



Select **Next** and check the "**Use repository at design time**" check box, and select the database connection that you defined.

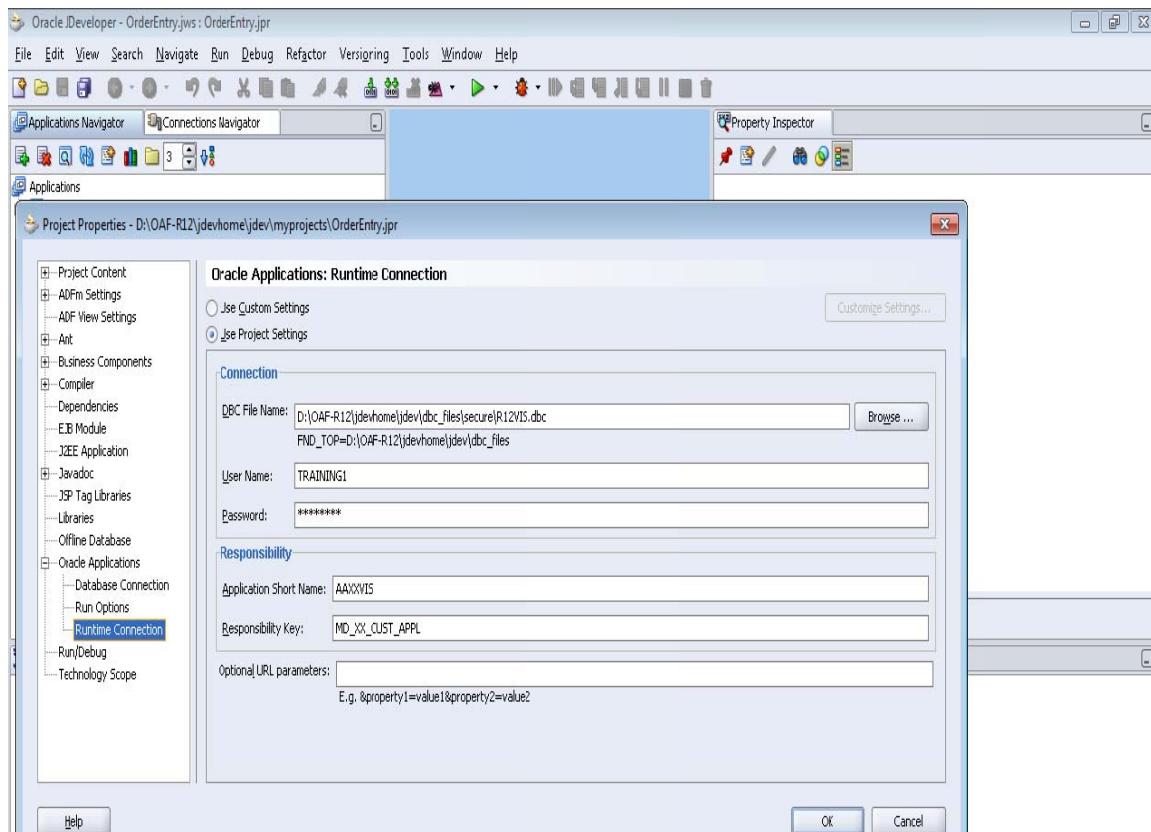
Select **Next** to define the runtime connections. These are from Oracle Application user / responsibility information.

User Name = TRAINING1

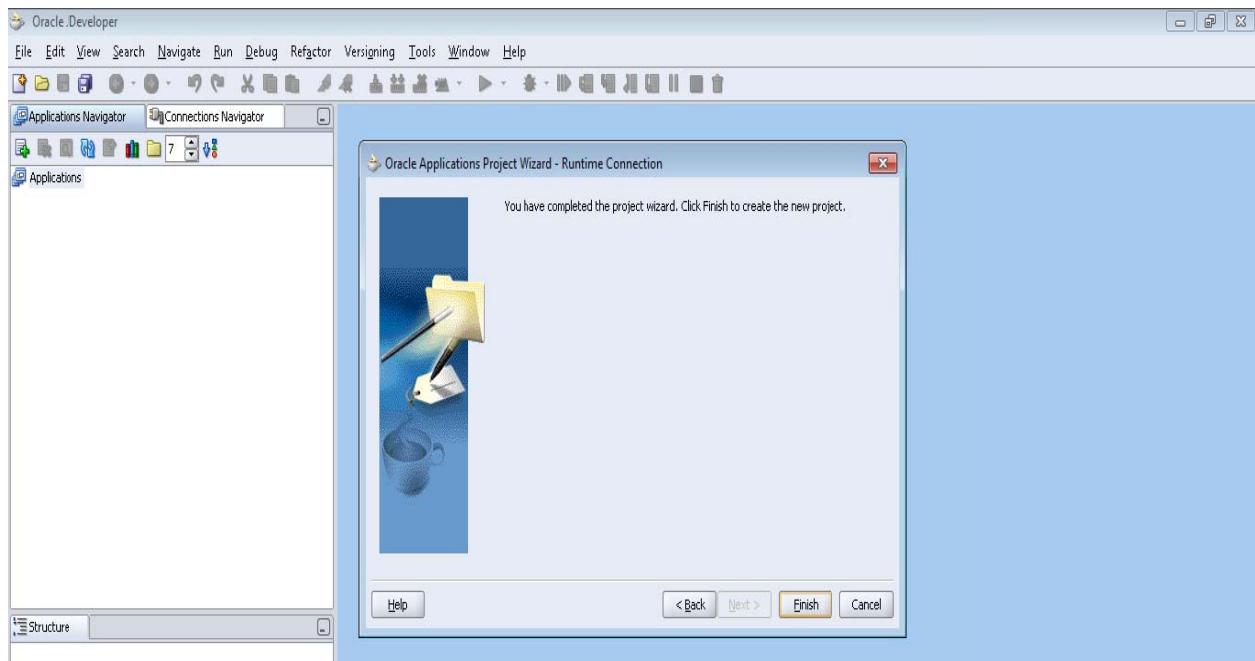
Password = welcome1

Application Short name = AAXXVIS

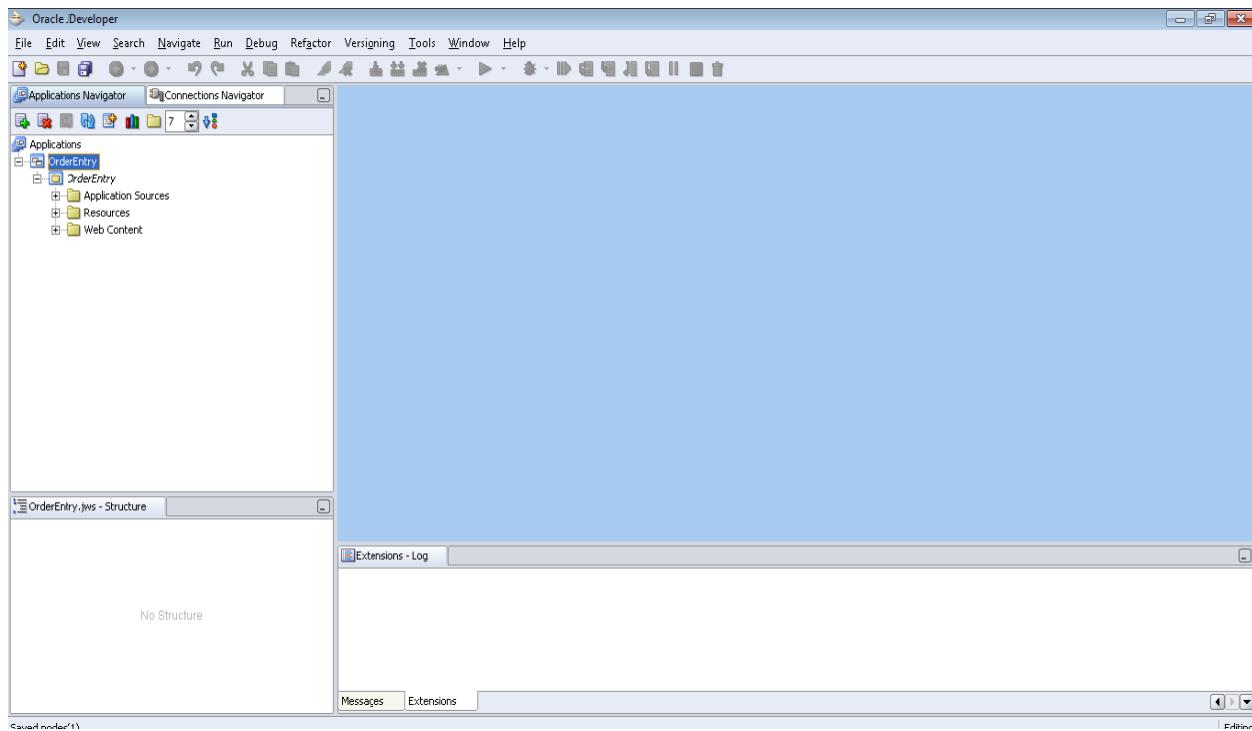
Responsibiliy Key = MD\_XX\_CUST\_APPL



Click the **Finish** button to create your project.



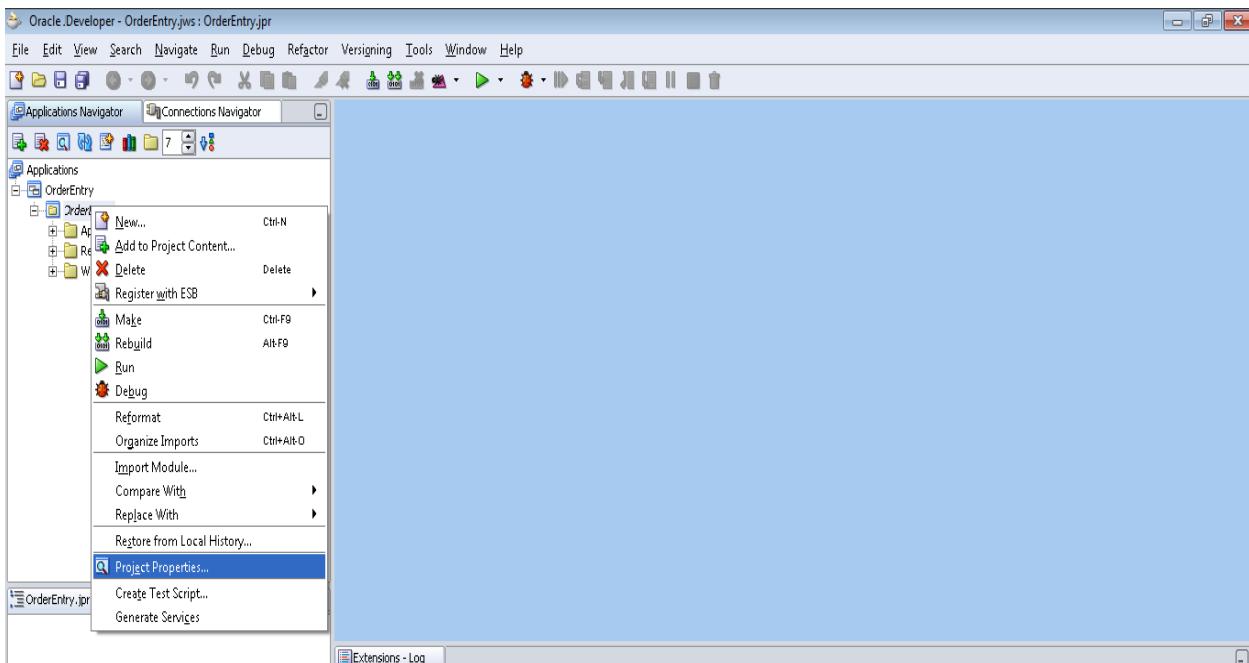
Project is Created as follows -



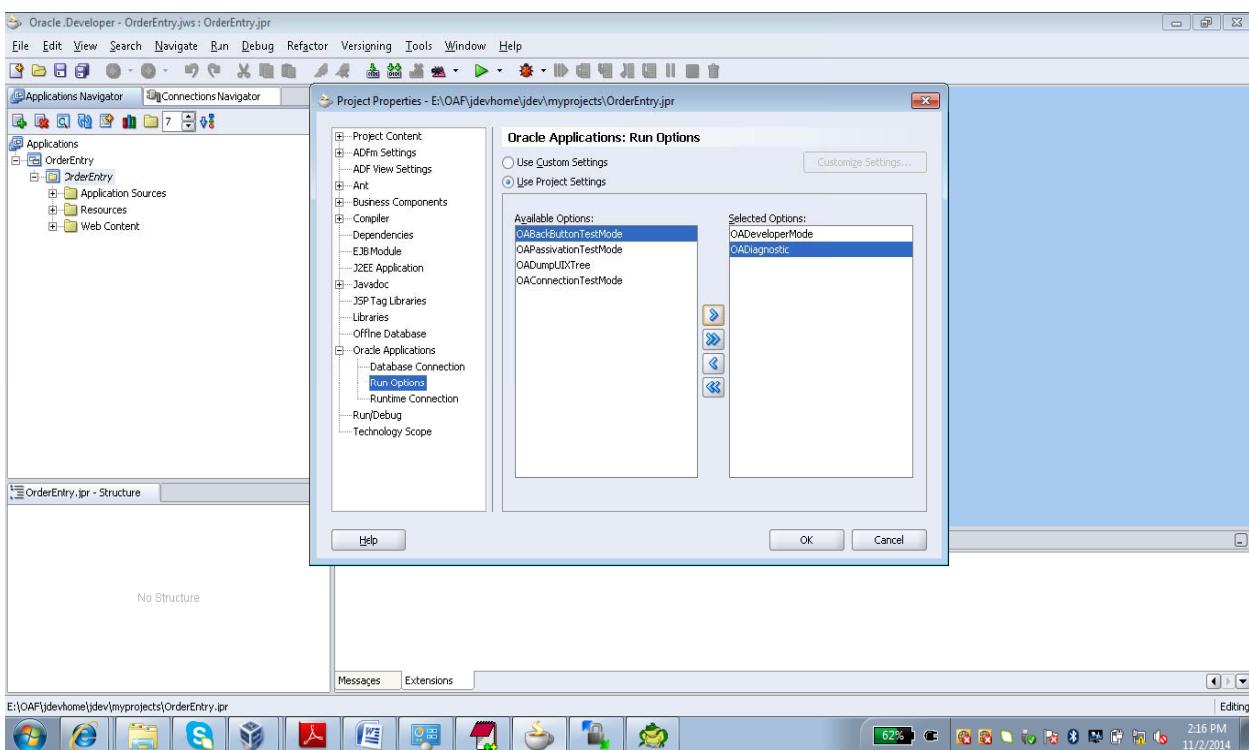
### 2.1.2 Enable Developer Diagnostics

As a general rule you should ensure that the developer test mode and OA diagnostics are enabled in your projects to help you identify various coding standards violations and leverage the AOL/J logging feature.

Select the **OrderEntry.jpr** project in the Navigator, right-click and select **Project Settings...** from the context menu.



In the **Project Settings** page, choose **Oracle Applications > Run Options**.  
Select **OADeveloperMode** and **OADiagnostic**, and shuttle them to the Selected



Select OK to exit the Project Settings window.

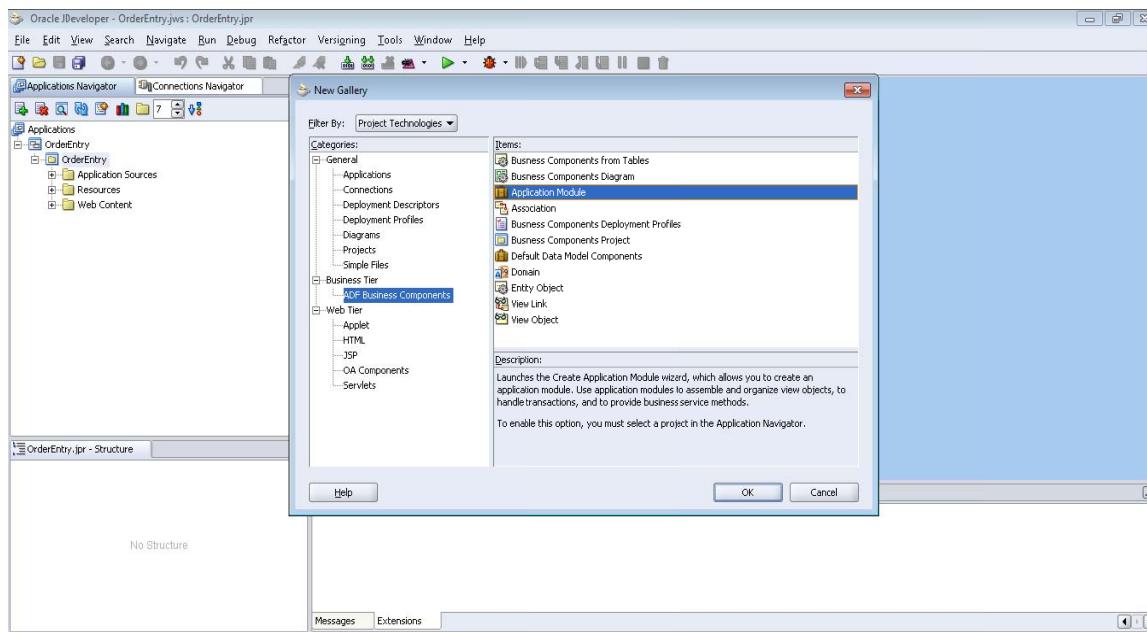
## 2.2: Create Your Page's Model Components

In this task, you'll create the initial standards-compliant packages and objects that make up the model in your Order Entry Model-View-Controller (MVC) application.

### 2.2.1 Create Your Root UI Application Module (AM)

Create a new Application Module (AM) to be used as the root UI application module for your page.

Select Your Project and File->New , Select **ADF Business Components** Tab Select **Application Module...** from the menu to open the Application Module (AM) wizard

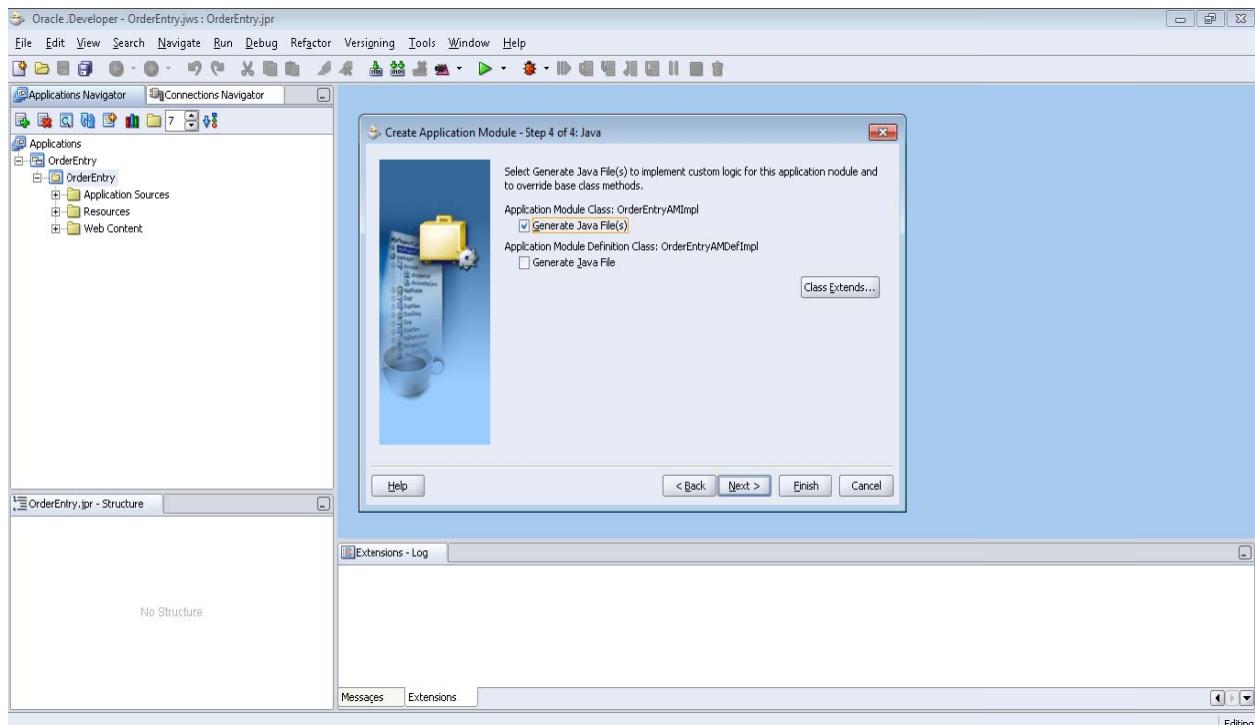


If the Welcome page appears, select Next.

In the Name page, specify **OrderEntryAM** as the AM name and set that the Package is **xxdm.<yourcguserid>.oracle.apps.ont.orderentry.server**

Click the **Next** button until you get to Step 4 of 4.

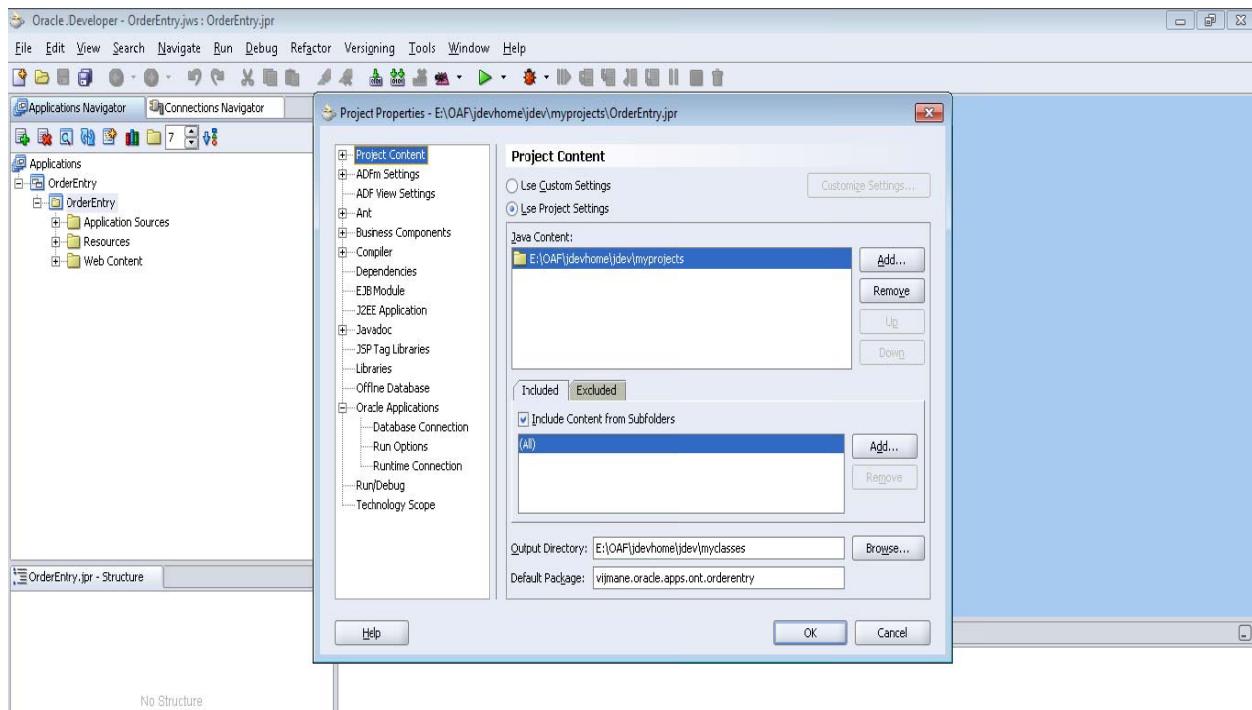
In the Java page, select the **Generate Java File(s)** checkbox.



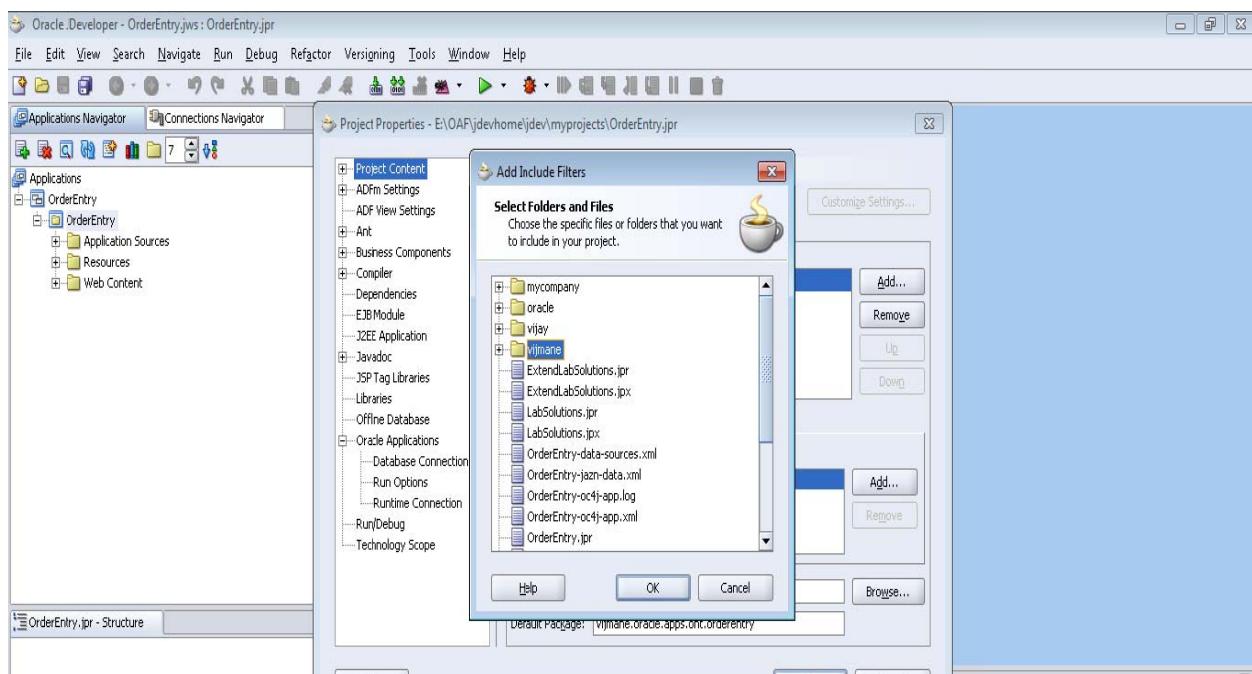
Select the **Finish** button to create the AM.

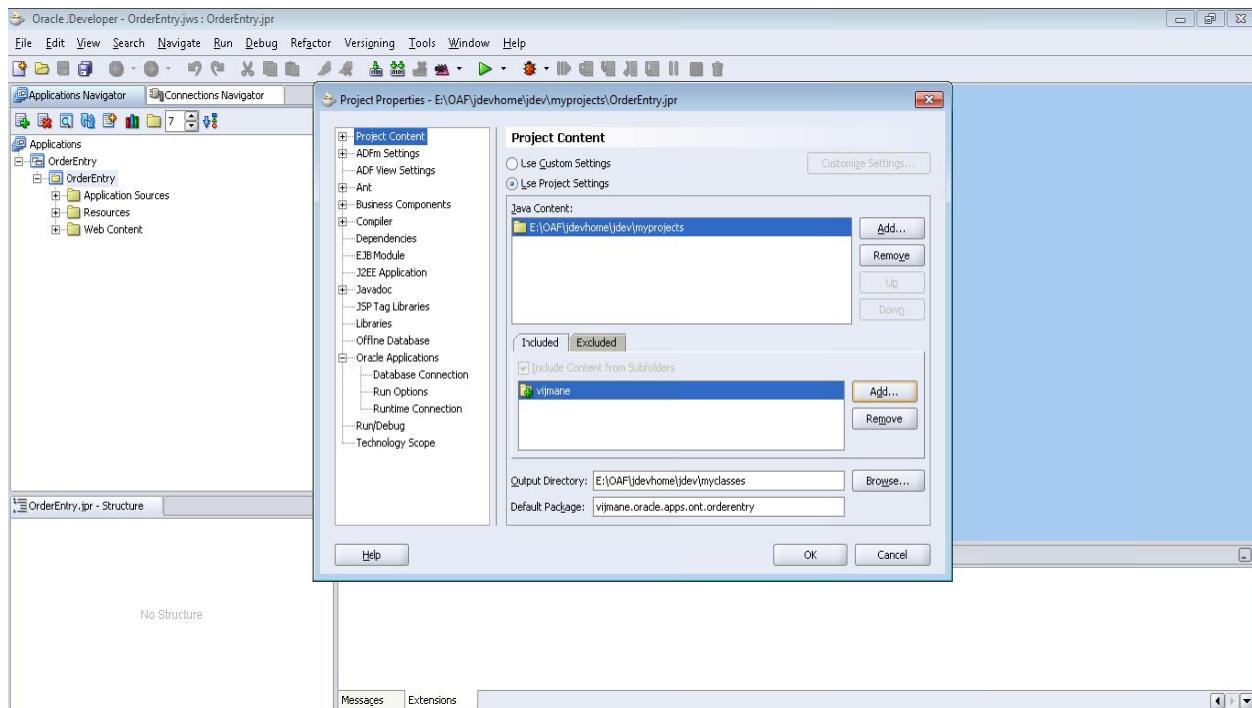
**Note:** The packages have been split into orderentry.server and schema.server for better classification. orderentry.server will contain the components that involve UI and schema.server will contain components that interact with the database. This classification is not mandatory but it is followed to get a better understanding.

To view Our Project Content –  
Right Click OrderEntry.jpr.  
Select Project Properties from Context menu  
Select Project Content  
Click on “Add” Button near “Included” Tabs section



Select your folder structure starting with your xxdm.<cguserid>. Click on OK

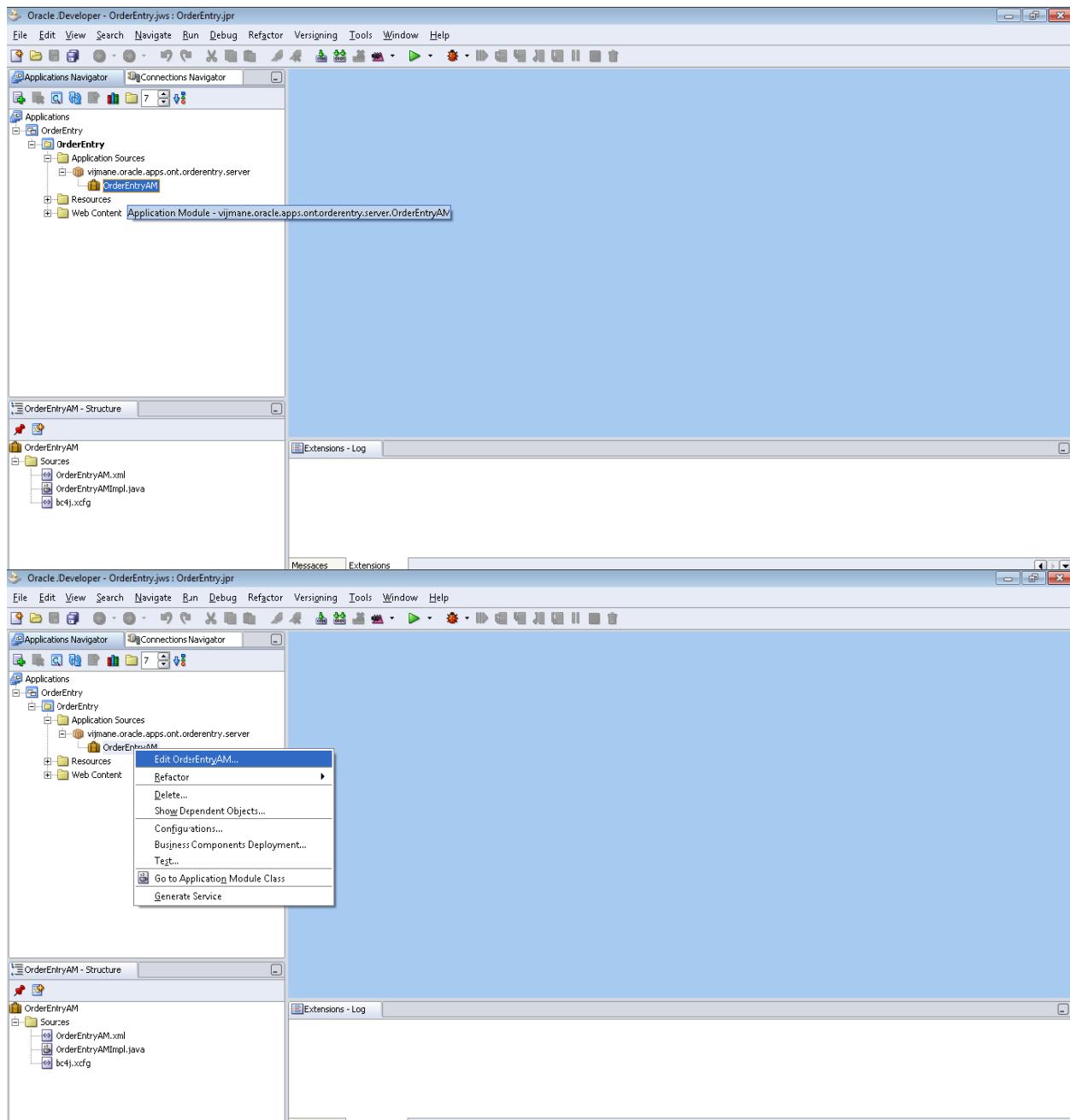




### 2.2.2 Enable Passivation for the Root UI Application Module

Passivation should be enabled for all root UI application modules.

Select the **OrderEntryAM** application module in the Navigator, right-click and select **Edit OrderEntryAM...** from the context menu.



In the Application Module Wizard, navigate to the **Properties** page.

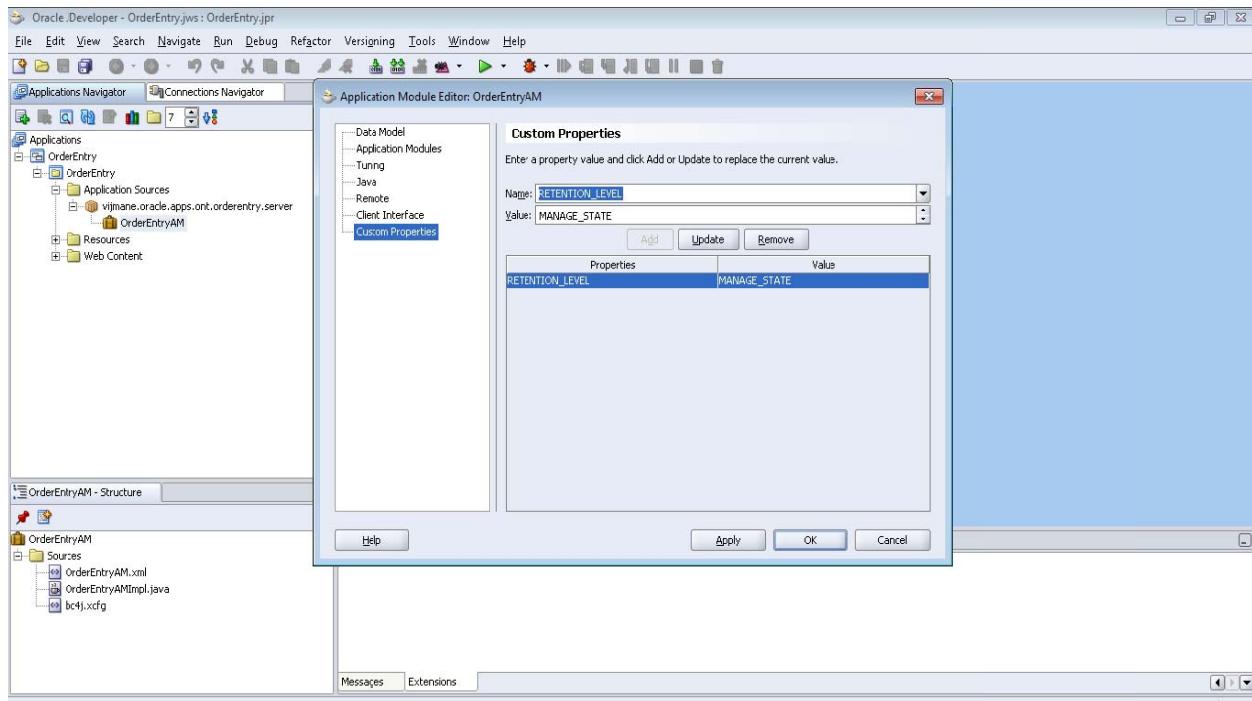
In the **Name** field enter **RETENTION\_LEVEL**

In the **Value** field enter **MANAGE\_STATE**

Select the Add button.

Select the Apply button.

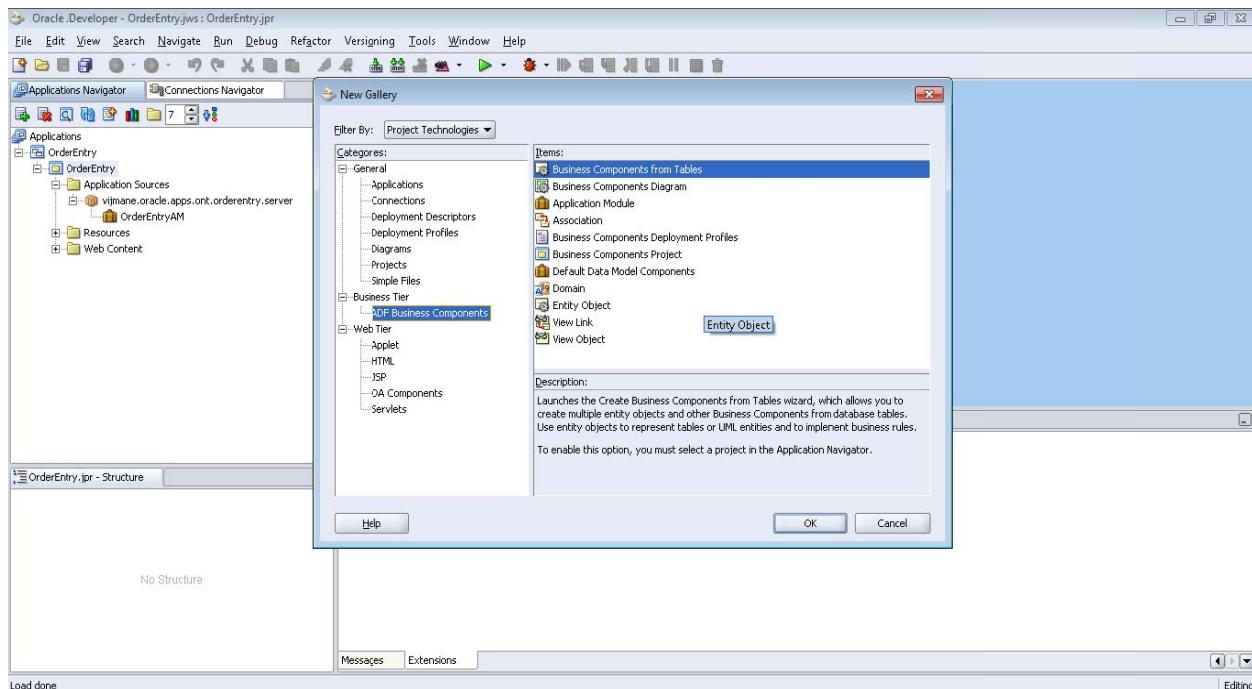
Select the OK button to close the Application Module Wizard window.



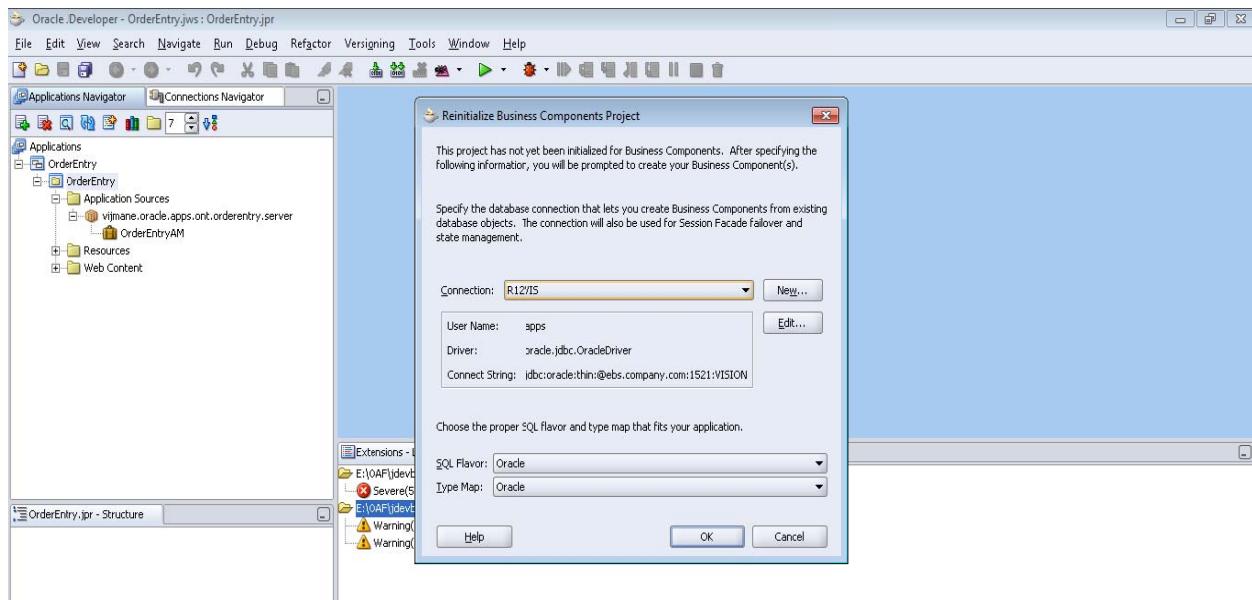
### 2.2.3 Create an Orders Entity Object (EO)

Create an entity object (EO) for the **DEM\_ORDERS** table in the OA Framework OrderEntry Schema.

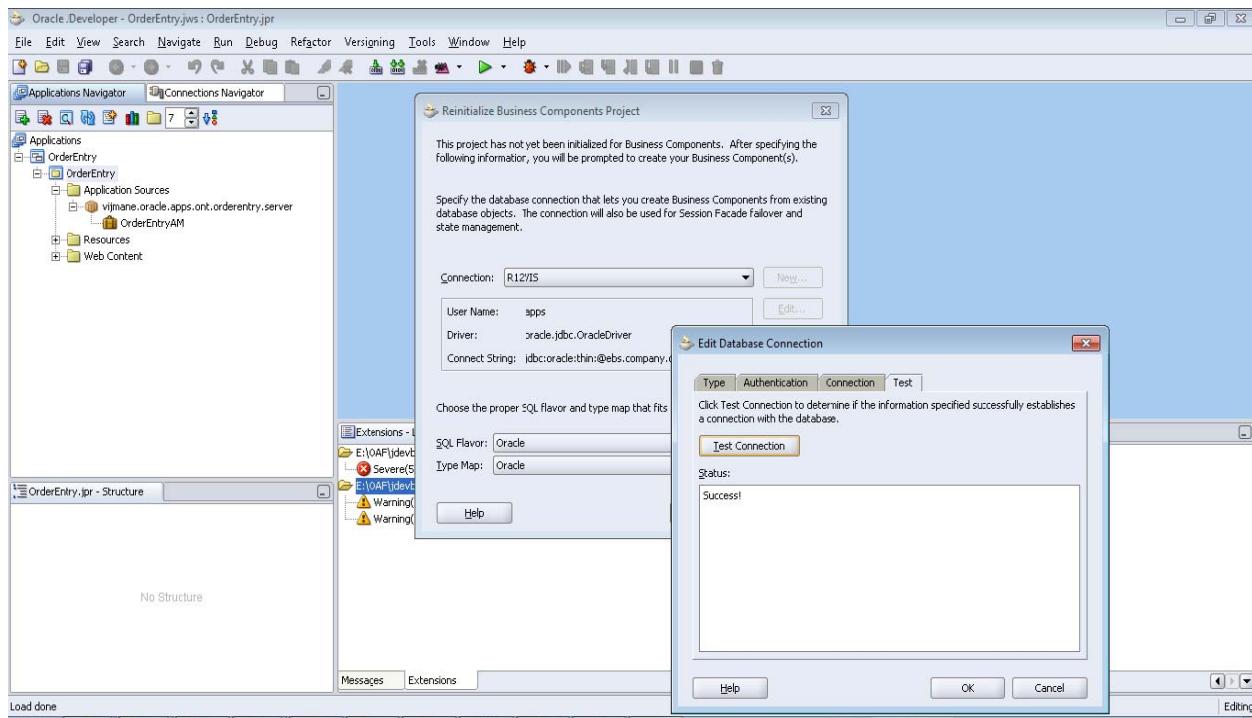
Right Click on Project → Select New  
In New Gallery select as follows –



### Select the database connection



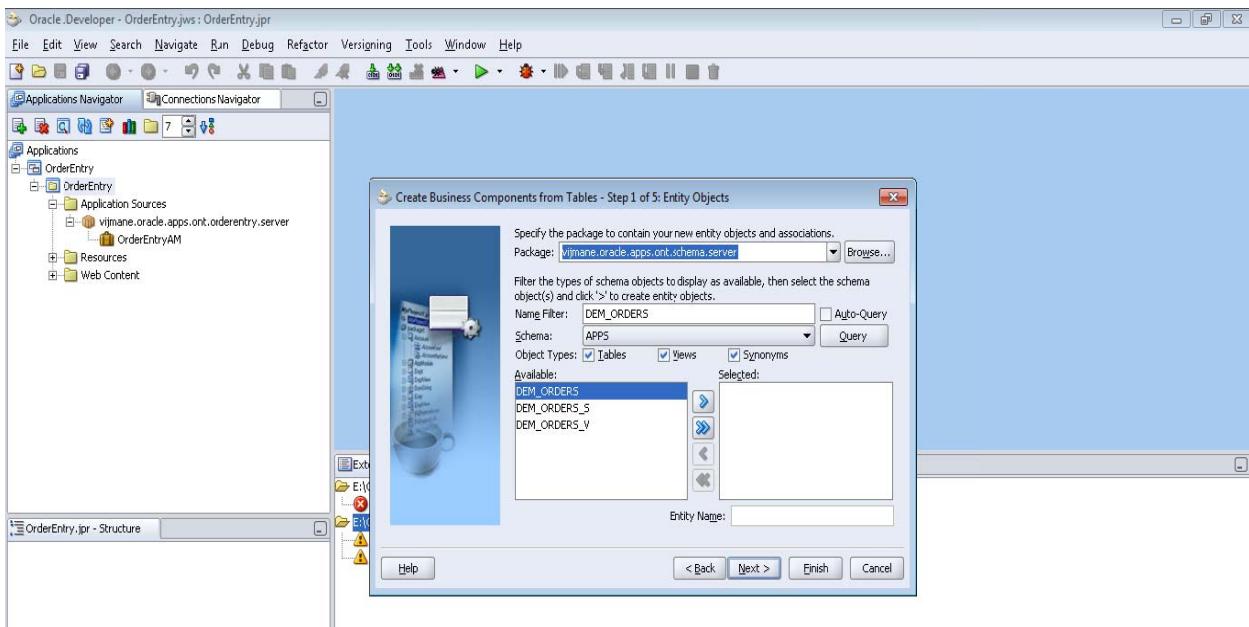
### Select Edit and Test connection



In Package field edit as follows -

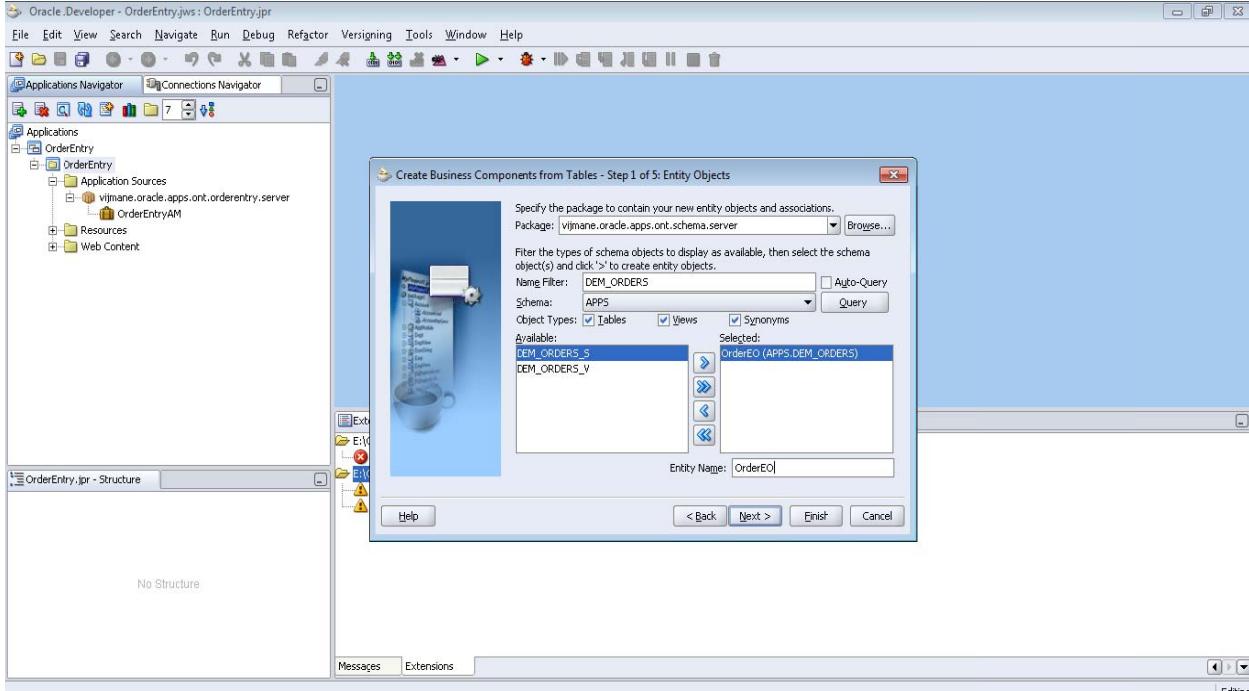
xxdm.<yourcguserid>.oracle.apps.ont.schema.server

In name Filter – select DEM\_ORDERS and click on Query  
Available Objects will be shown as follows

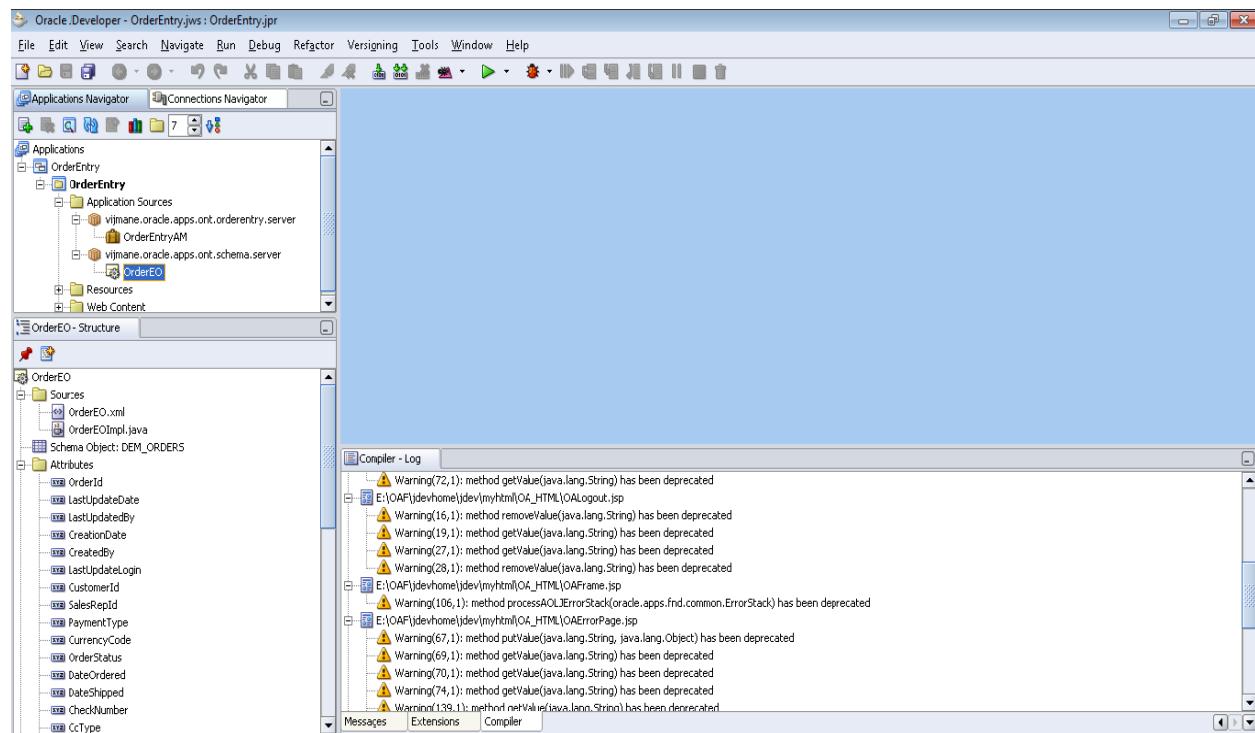
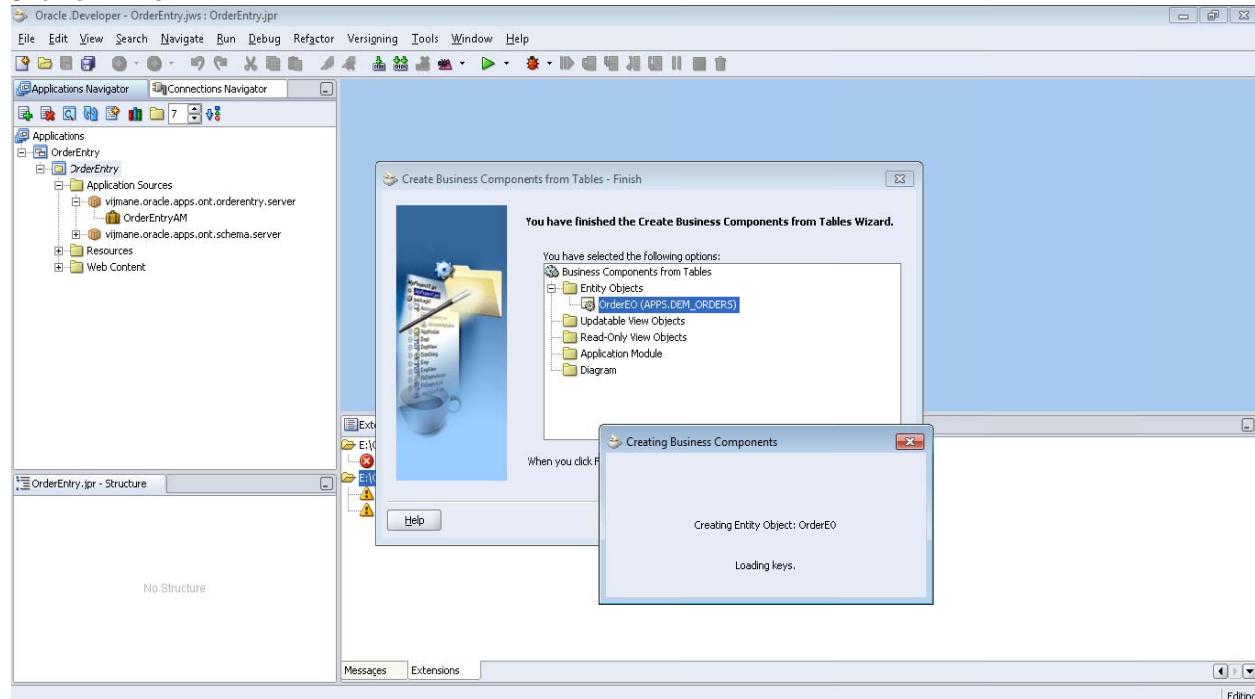


In Available section select DEM\_ORDERS and move it to right side "Selected" by clicking on arrow.

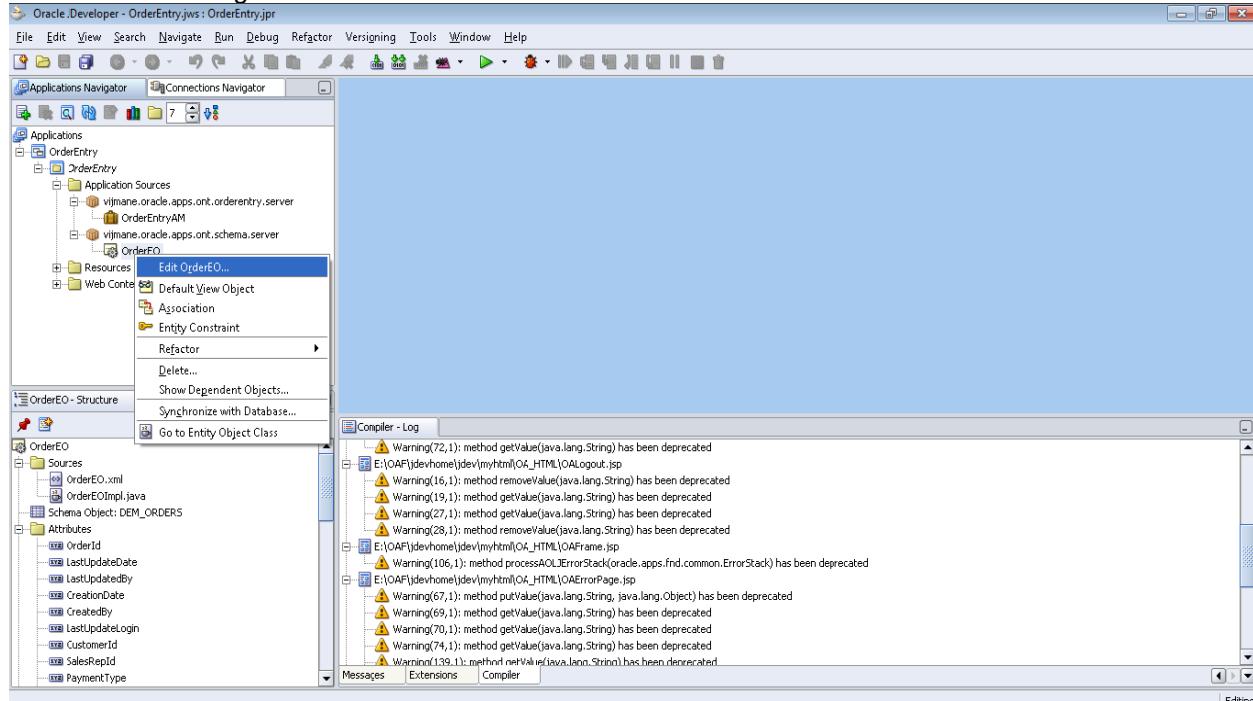
Put Entity Name as "OrderEO"



Click on Finish.

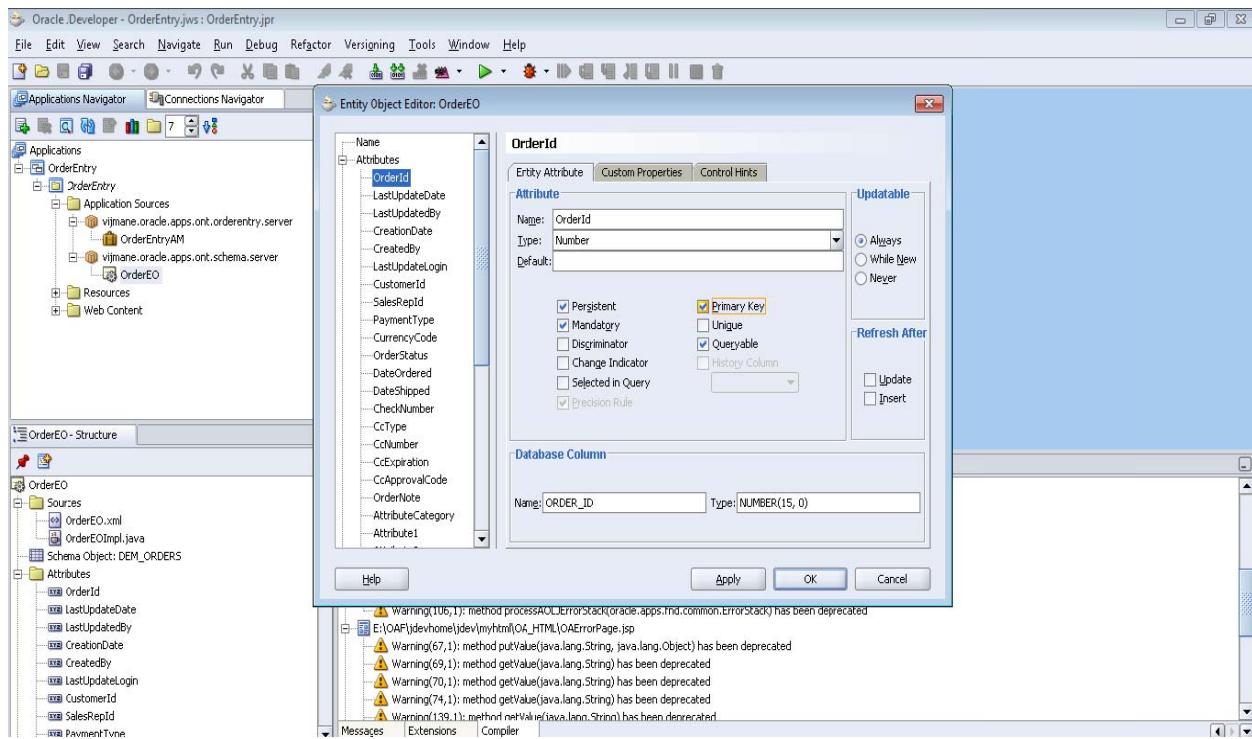


## Select OrderEO. Right Click and select Edit Order EO



In Attribute →

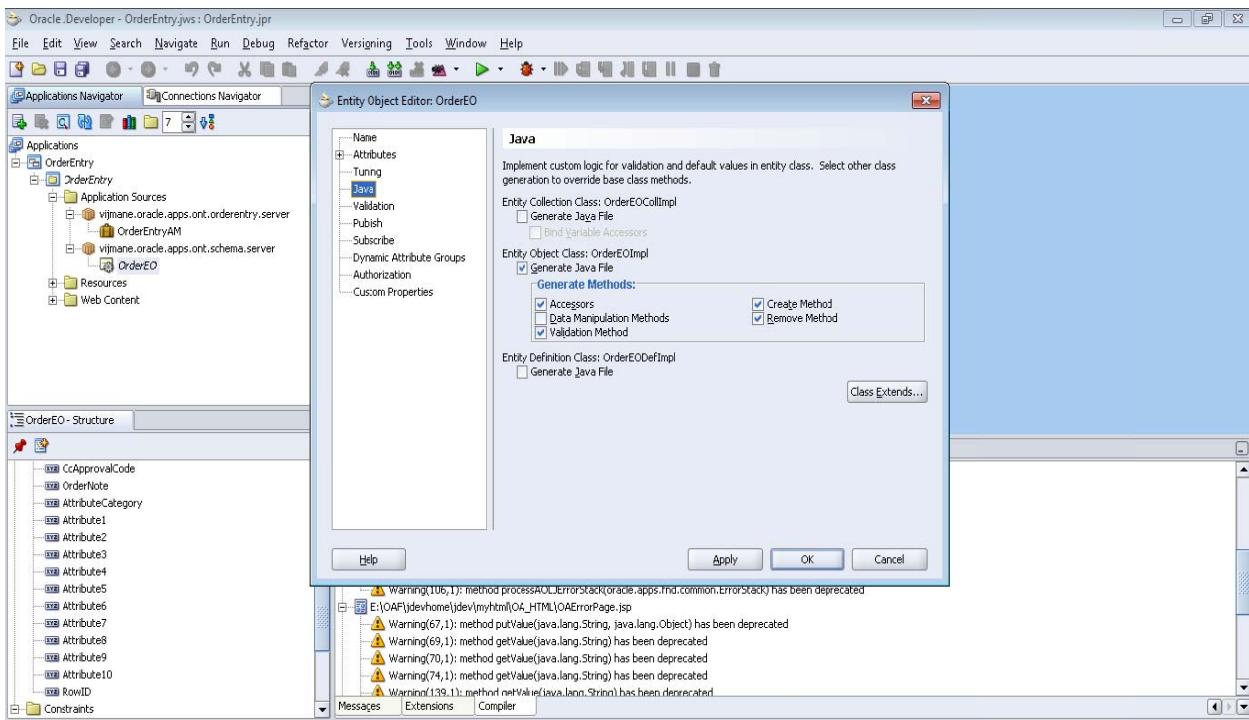
Make OrderId as Primary Key and Mandatory by clicking on check boxes as shown below



Select Java →

In Generate Methods select the checkboxes as follows.

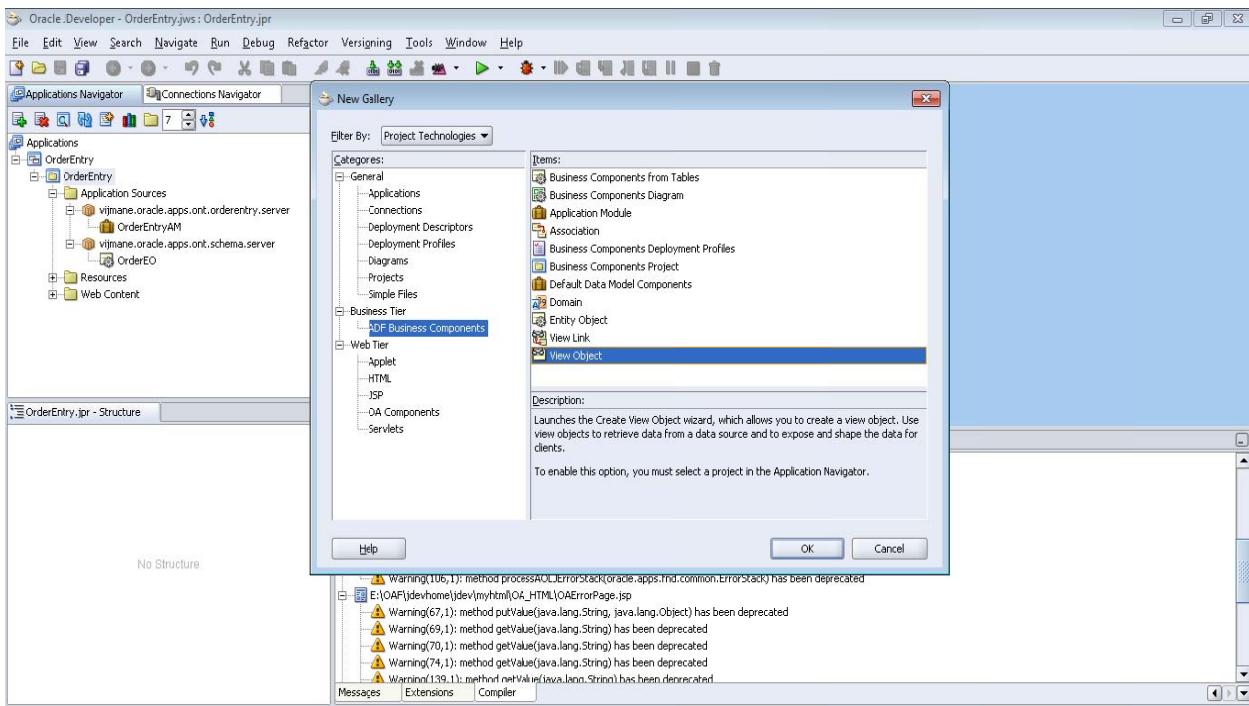
Click "Apply" and "OK" buttons



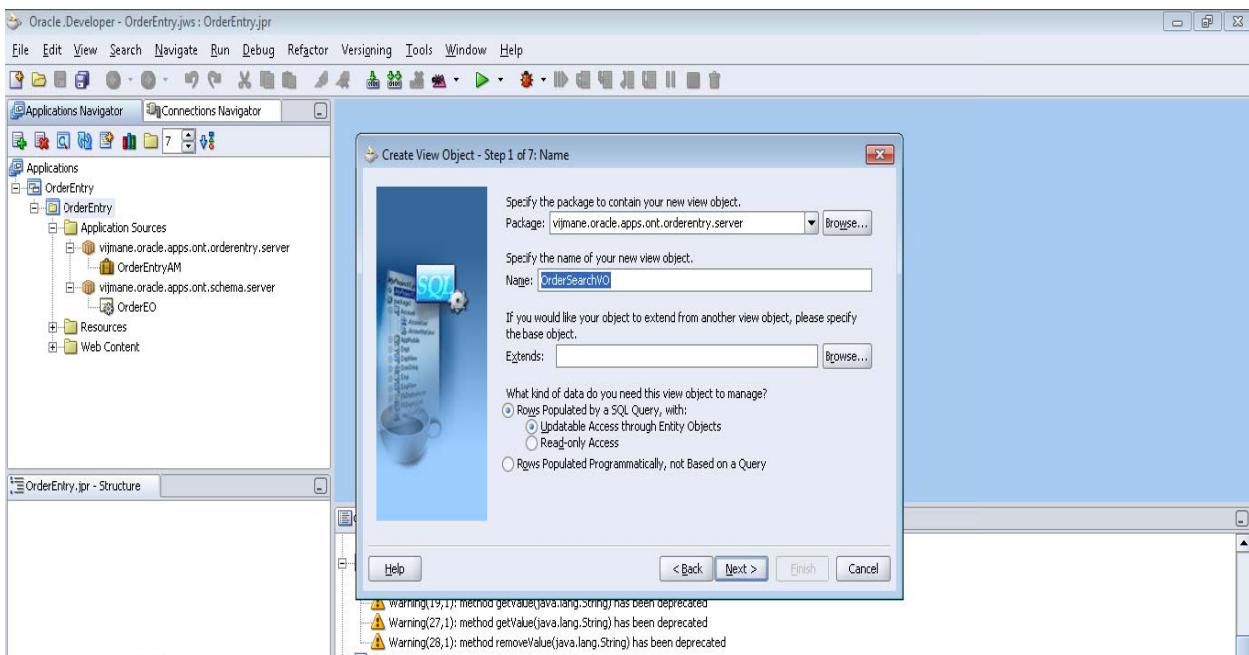
#### 2.2.4 Create an OrderSearchVO View Object (VO)

Create a summary-level view object including only those attributes that you need for the Orders search results table. This view object is the main view object for your Search page. It should leverage the **OrderEO**.

Navigator, right-click and select **New View Object...** from the context menu to open the View Object wizard.



In the Name page, specify **OrderSearchVO** as the view object's name and verify that the Package is **xxdm.<yourcguserid>.oracle.apps.ont.orderentry.server**

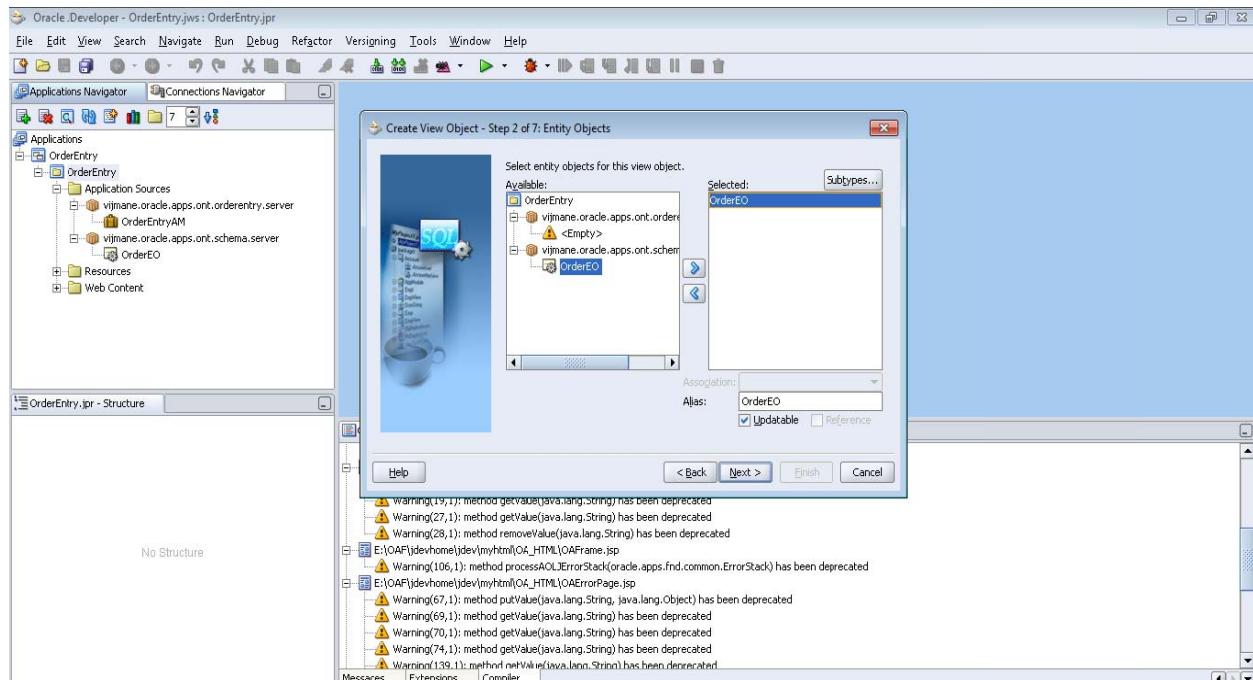


Select the Next button.

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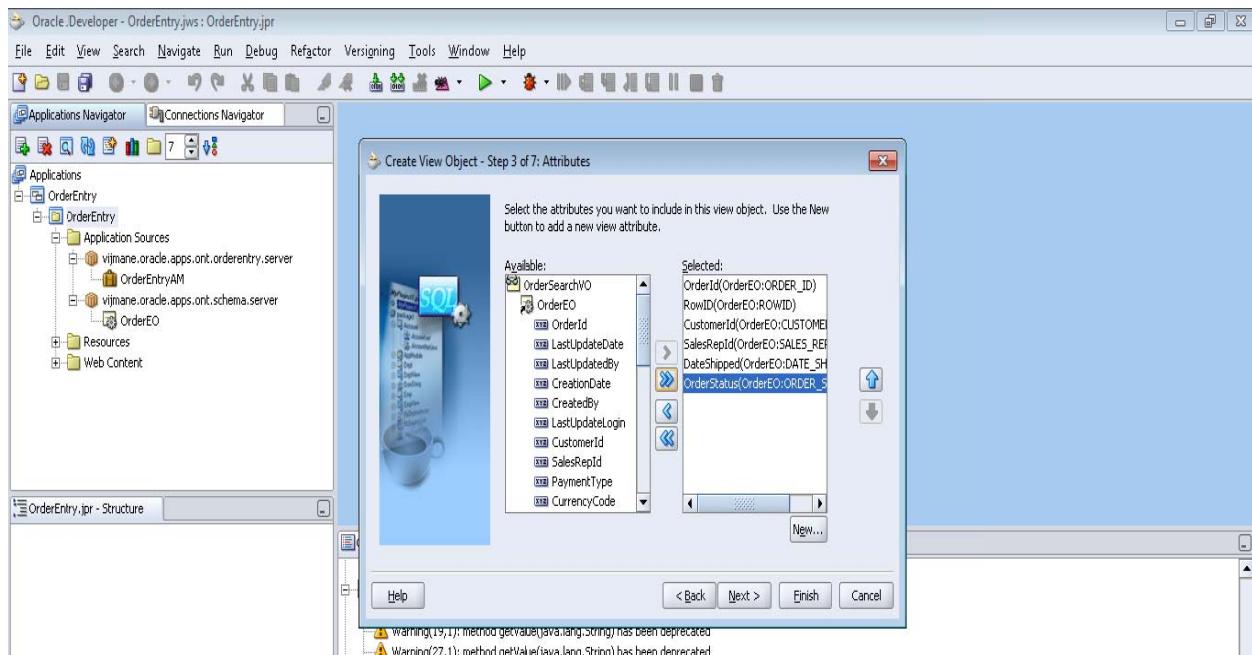
In the Entity Objects page, select the **OrderEO** in the Available list and shuttle it to the Selected list.



Select the Next button.

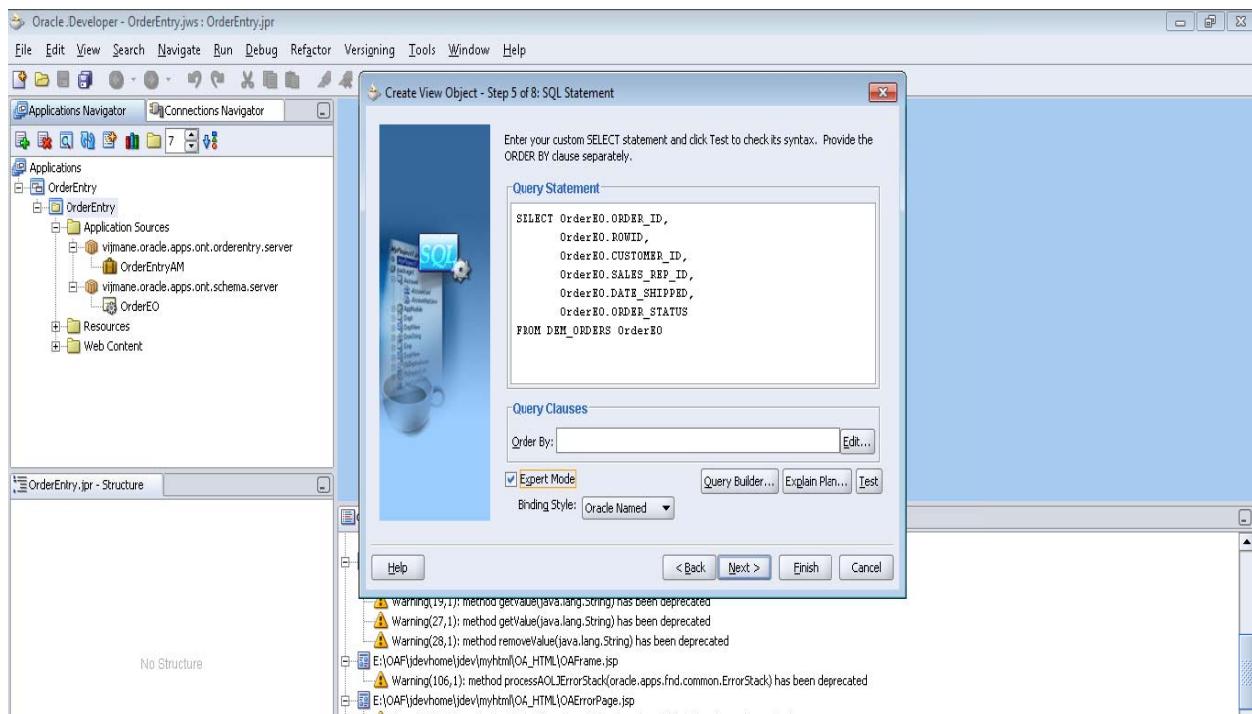
In the Attributes page, select the following attributes from the Available list and shuttle them to the Selected list From OrderEO:

- OrderId
- CustomerId
- SalesRepId
- DateShipped
- OrderStatus



Select the Next button twice.

Select the Expert Mode checkbox. This allows you to edit the generated query.

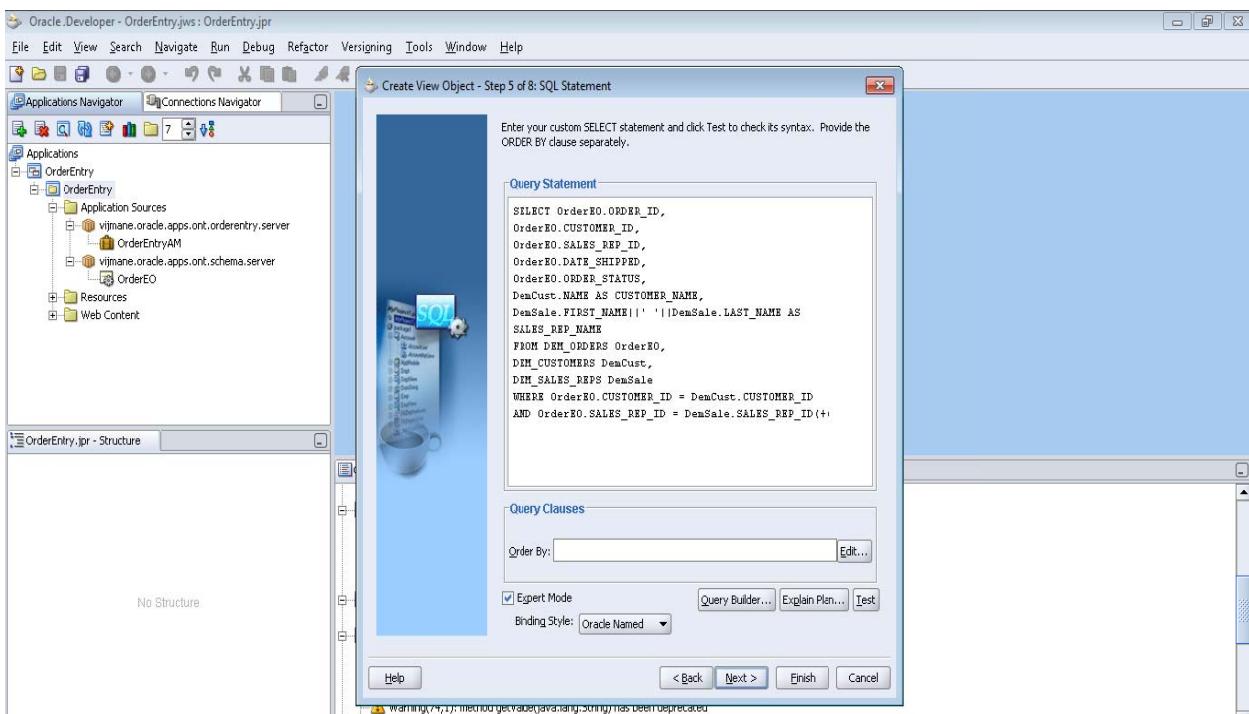


In the Query Statement text box modify the query so it looks like the following

```

SELECT OrderEO.ORDER_ID,
OrderEO.CUSTOMER_ID,
OrderEO.SALES REP_ID,
OrderEO.DATE_SHIPPED,
OrderEO.ORDER_STATUS,
DemCust.NAME AS CUSTOMER_NAME,
DemSale.FIRST_NAME||' '|DemSale.LAST_NAME AS SALES REP_NAME,
OrderEO.ROWID
FROM DEM ORDERS OrderEO,
DEM CUSTOMERS DemCust,
DEM SALES REPS DemSale
WHERE OrderEO.CUSTOMER_ID = DemCust.CUSTOMER_ID
AND OrderEO.SALES REP_ID = DemSale.SALES REP_ID(+)

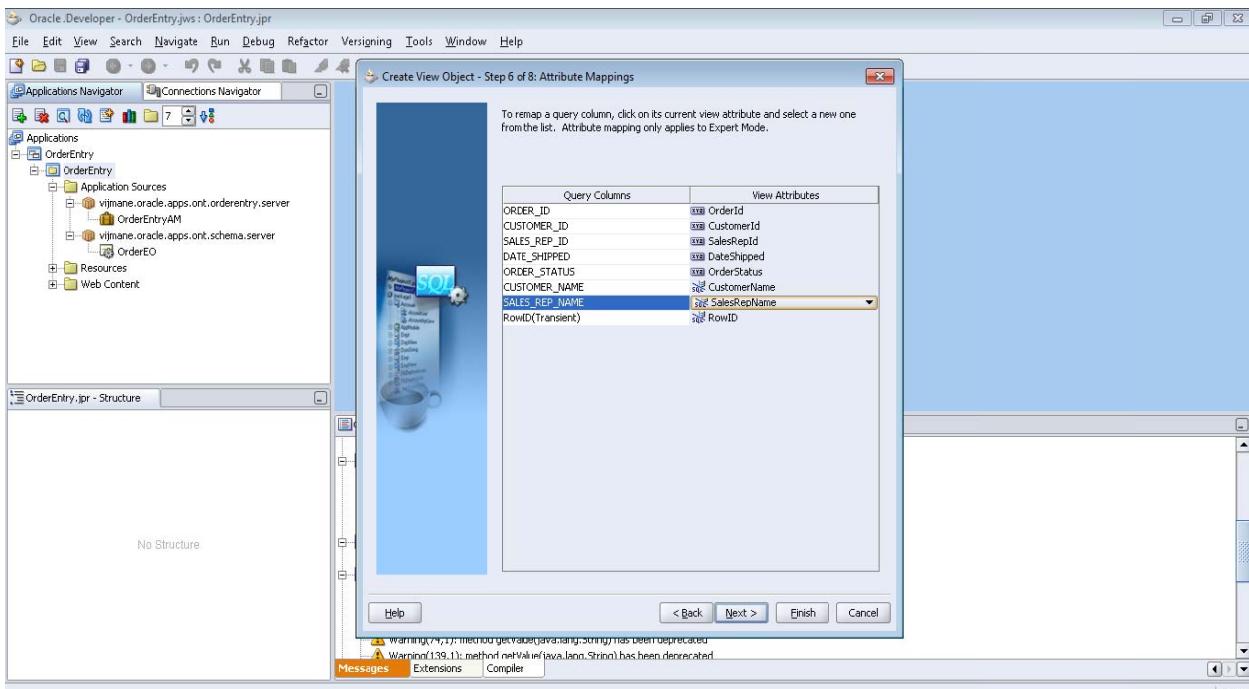
```



When you are finished with your editing, select the Test button to ensure your syntax is correct.

Select the Next button.

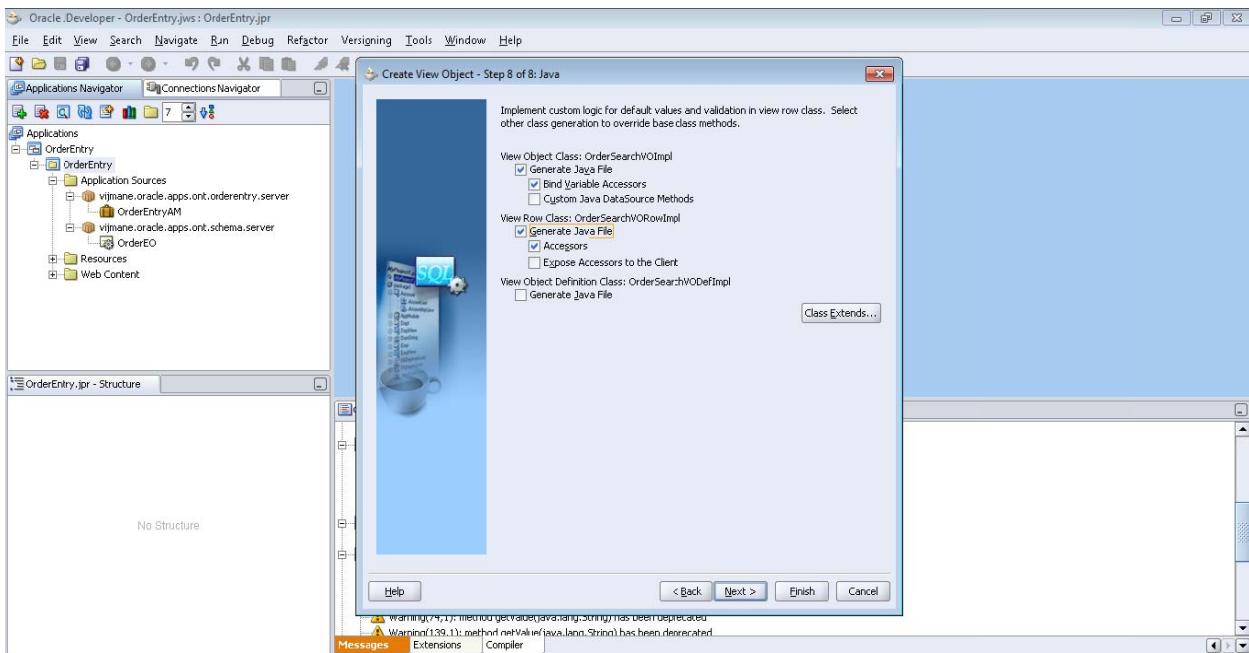
**In the Attribute Mappings page, verify that your view object attributes map to the correct query columns.** If you need to make any changes, place your cursor into the incorrect View Attributes field and select the correct value from the poplist.



Select the Next button.

In the Java page,

Do select the Generate Java File for View Row Class: OrderSearchVORowImpl to comply with OA Framework coding standards.

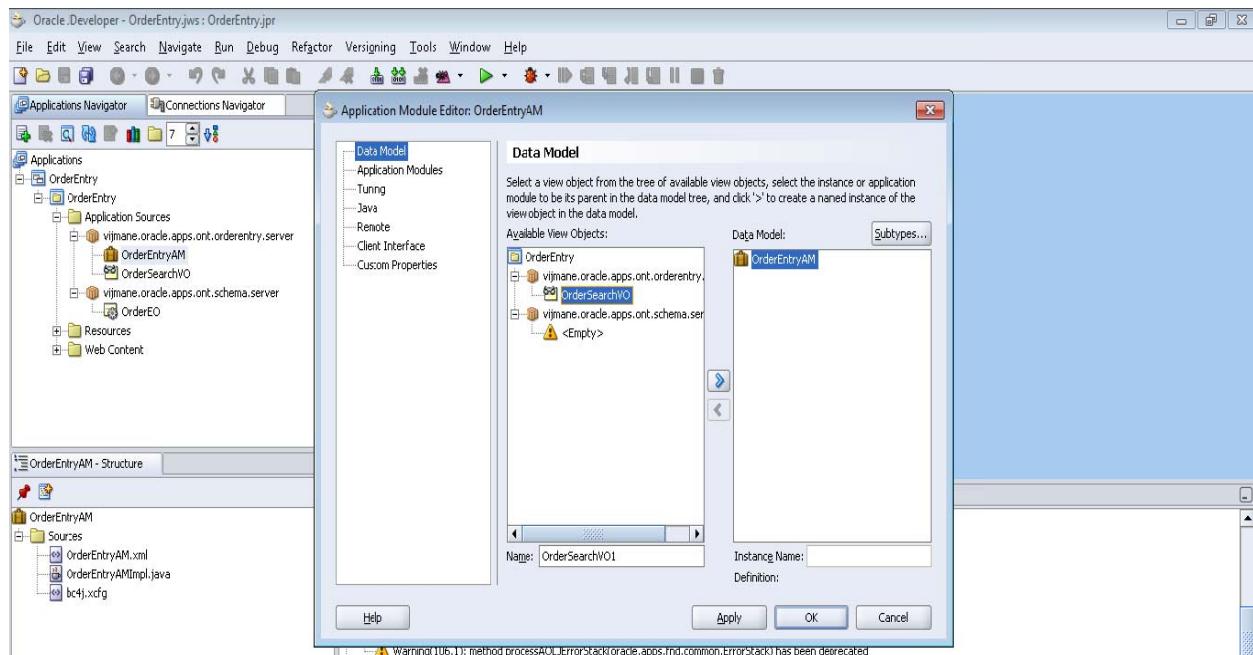


Select the **Finish** button to create your VO.

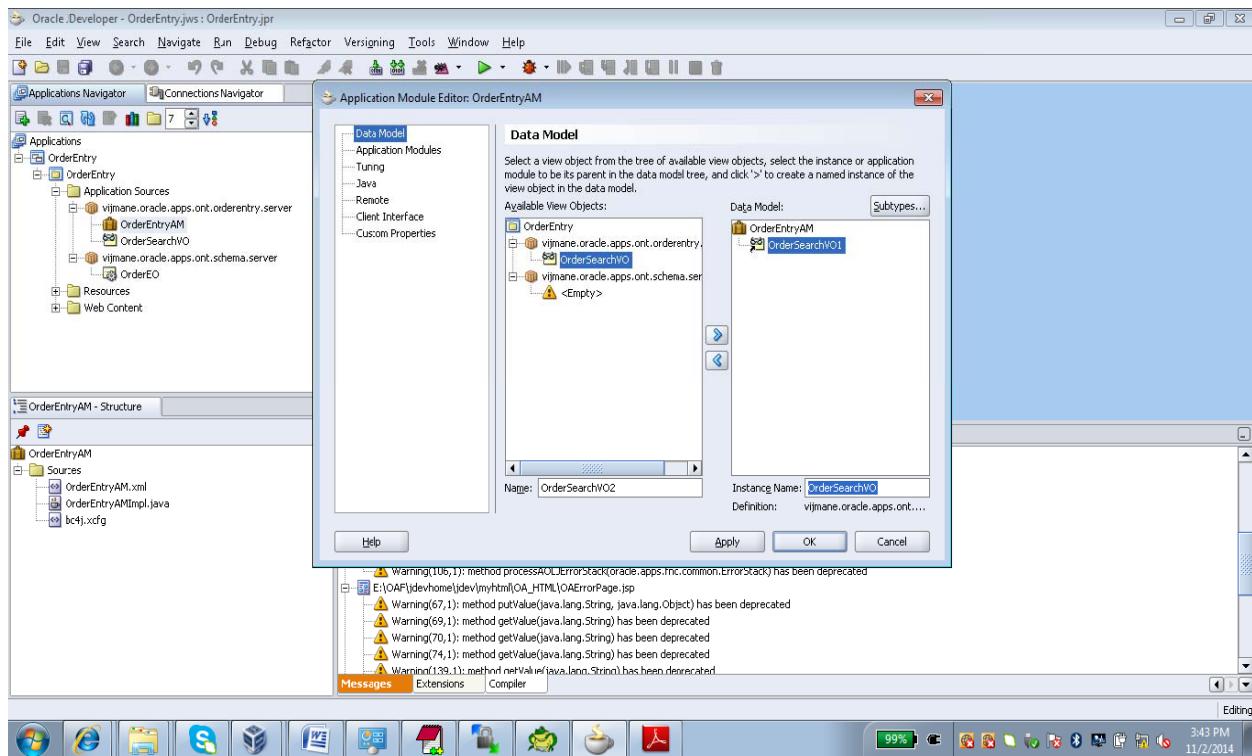
### 2.2.5 Add Your View Object to the Root UI Application Module

View objects can be used only within the context of a containing application module. Before you can use the **OrderSearchVO** in your page, you must add it to the page's root UI Application Module.

Select the **OrderEntryAM** in the Navigator pane, right-click and select **Edit OrderEntryAM...** from the context menu to open the Application Module wizard. Navigate to the Data Model page.



Select the **OrderSearchVO** view object in the Available View Objects list and shuttle it to the Data Model list. The Instance Name appears as OrderSearchVO1 at the right bottom. Change the instance name to OrderSearchVO.



Select the OK button to finish adding your VO to your root AM.

## 2.3: Create Your Initial Page

For this task, you will build and run a page with just the **Orders : Search** page title and the instruction text

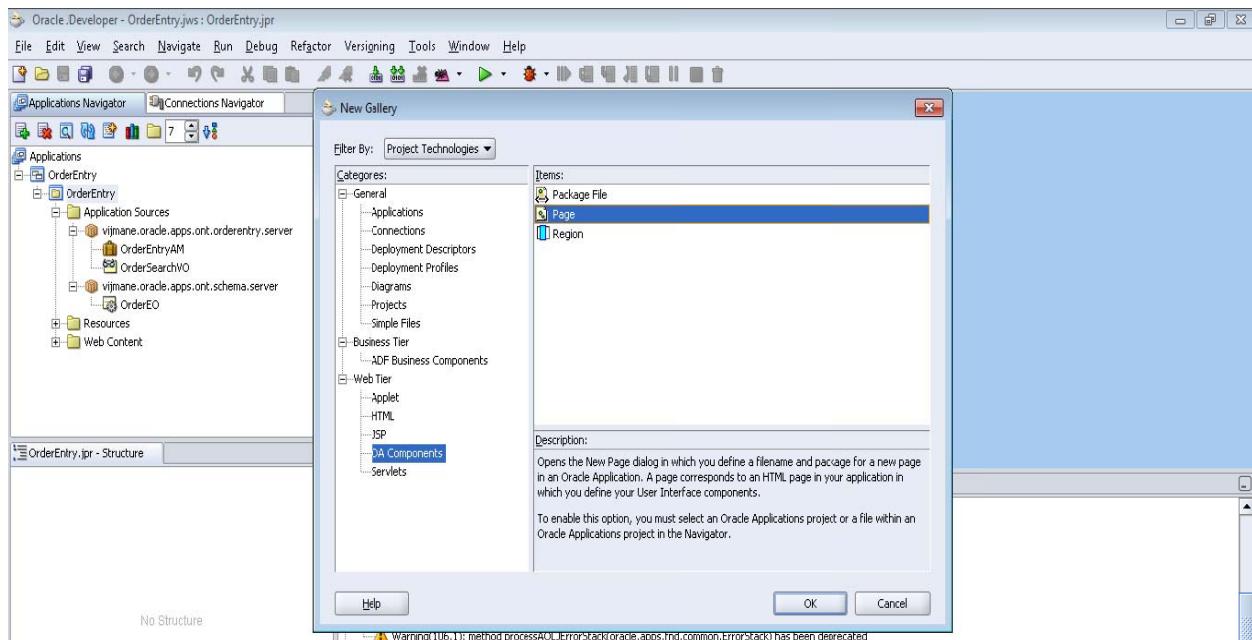
### 2.3.1 Create the OrderSearchPG Page

Create a new UI page in the xxdm.<yourcguserid>.oracle.apps.demxx.orderentry.webui package.

Select the **OrderEntry.jpr** project in the Navigator, right-click and select "New..." from the context menu.

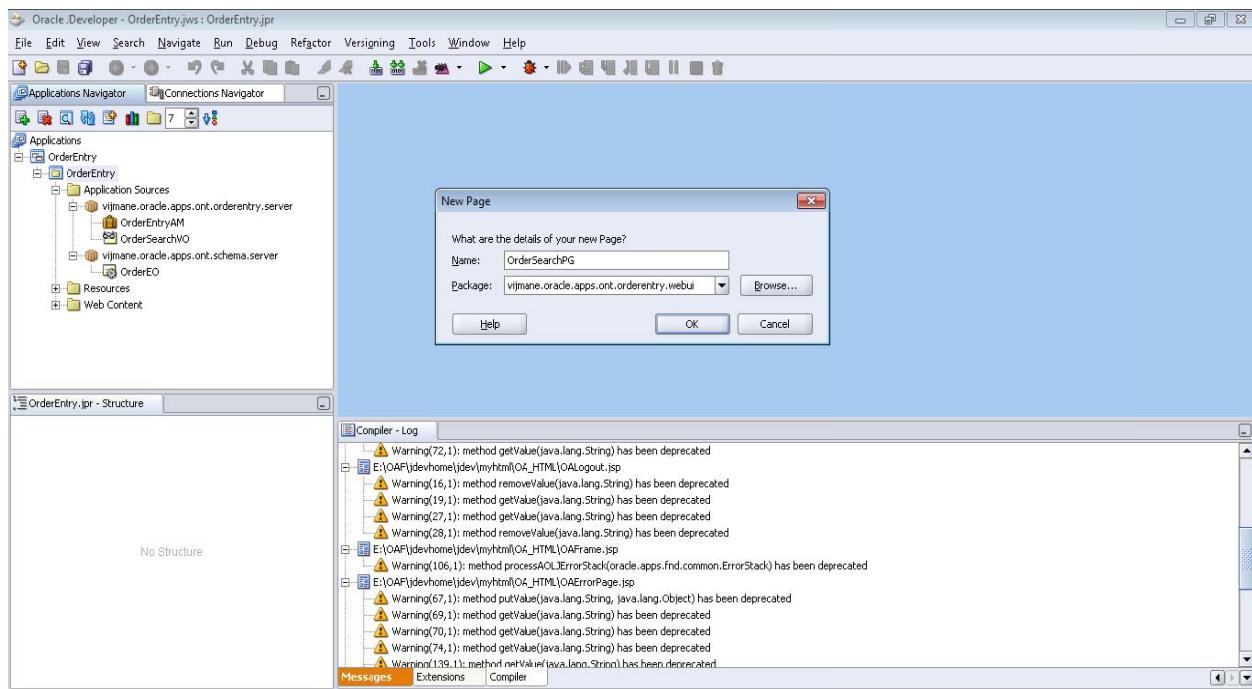
In the New window, expand the Web Tier hierarchy and select OA Components.

Select Page in the OA Components Items list.

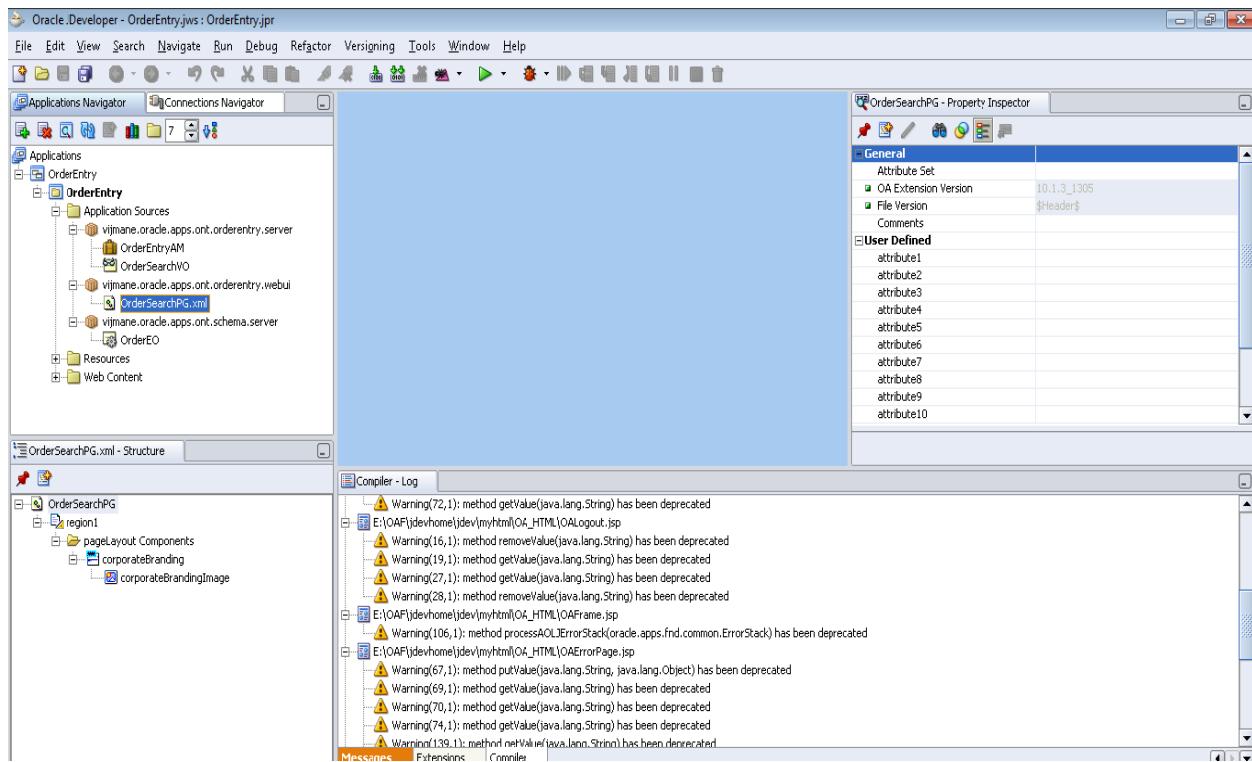


Select the OK button to continue.

In the New Page dialog, enter OrderSearchPG in the Name field and xxdm.<yourcguserid>.oracle.apps.ont.orderentry.webui in the Package field. This package will be created and the page will be created under this package



Select the **OK** button to create your page.



### 2.3.2 Modify the pageLayout Region

Select your **OrderSearchPG** in the Structure pane and select the **region1** that JDeveloper created for you.

Verify and set (if necessary) the following properties:

ID = PageLayoutRN

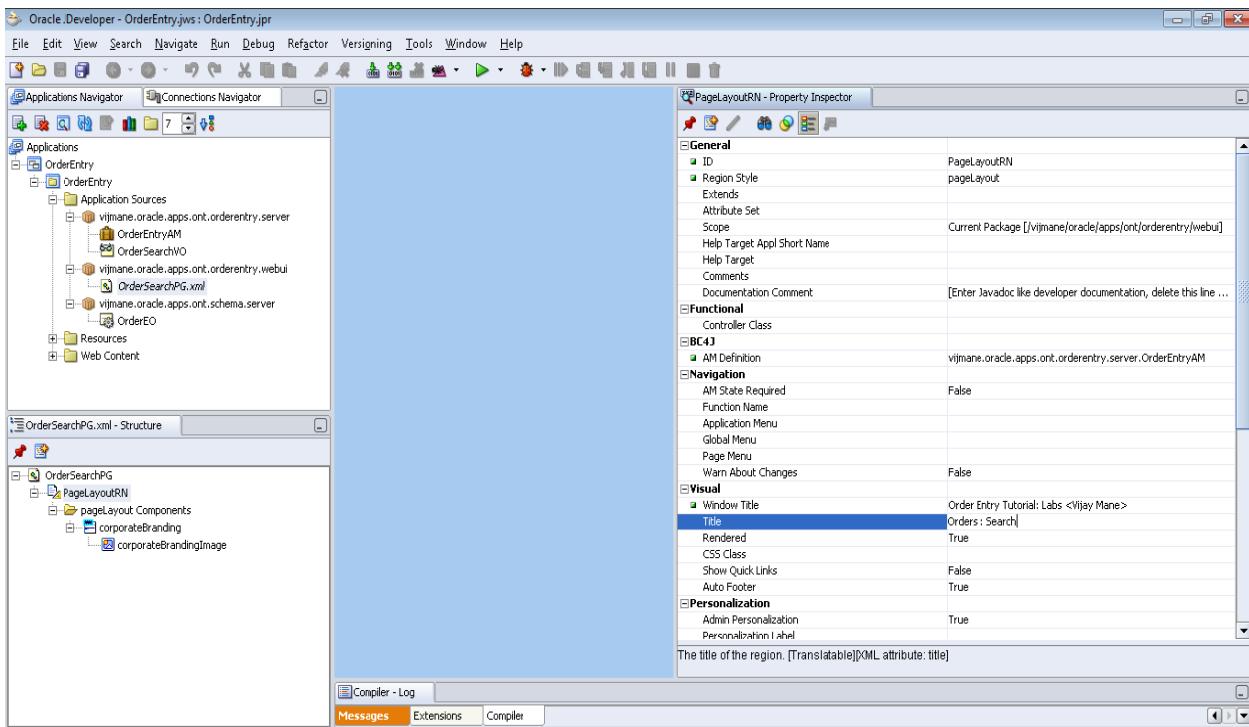
Region Style = pageLayout

AM Definition = xxdm.<yourcguserid>.oracle.apps.ont.orderentry.server.OrderEntryAM

WindowTitle = Order Entry Tutorial: Labs <your name>

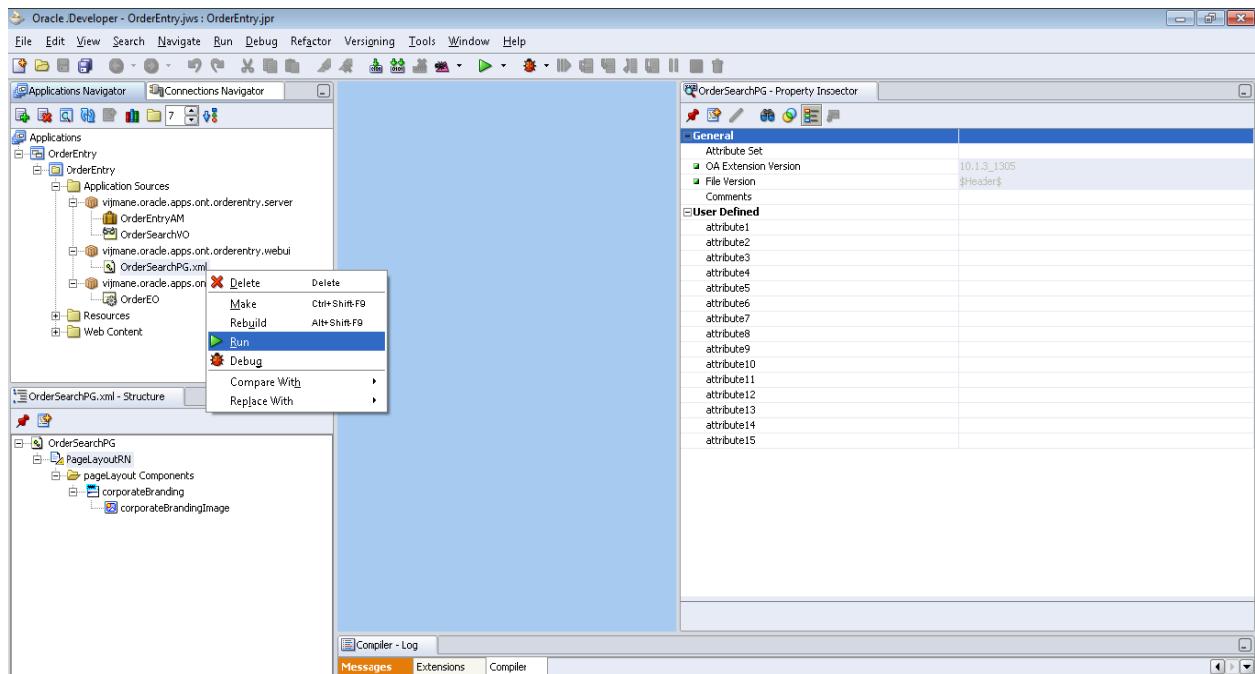
Title = Orders : Search

AutoFooter = True

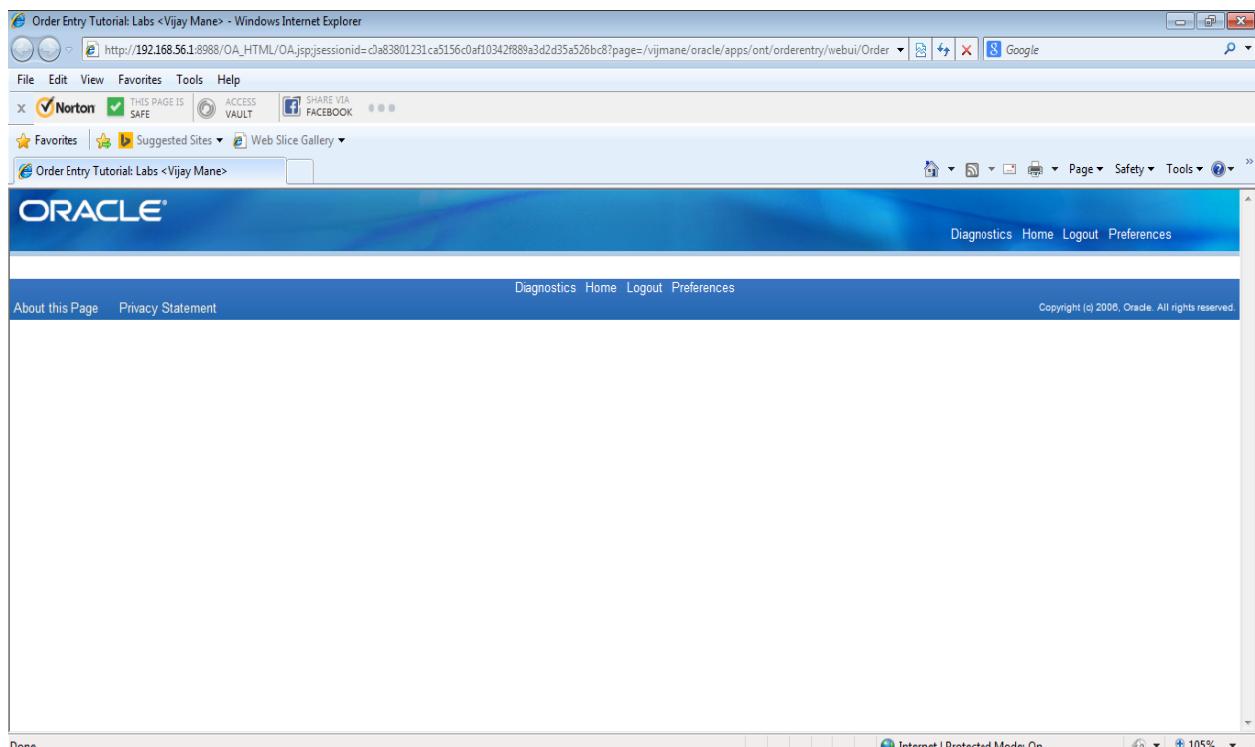


### 2.3.3 Test Your Work

Select your page in either the Structure pane or the Navigator window, right-click and choose Run <file name> from the context menu.



Your page is shown as follows –



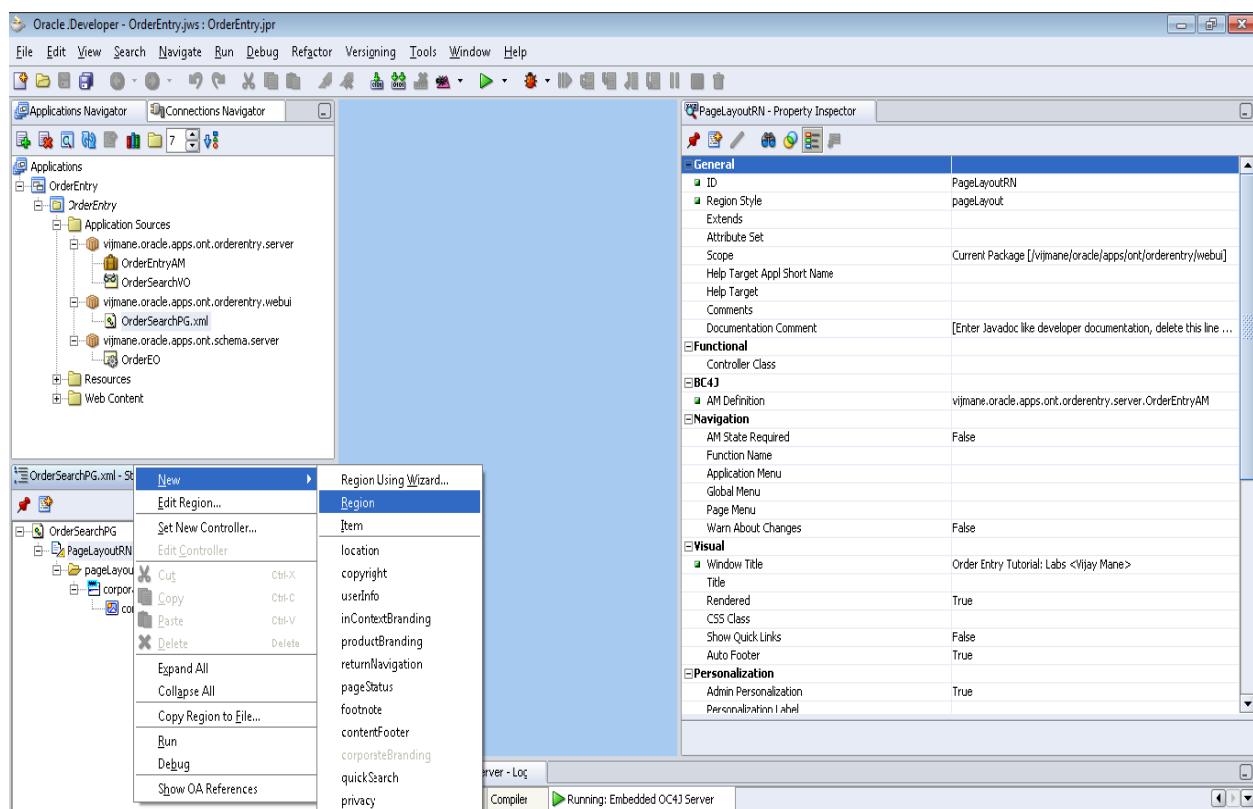
## 2.4: Configure a Results-Based Search

In this section, you will create a simple "results-based" search by leveraging the OA Framework query region.

### 2.4.1 Add a Query Bean to Your Page

Add the query bean region to your page.

Select the **PageLayoutRN** in the Structure pane, right-click and select New > Region from the context menu.



Select the new region (**region1**), and set/verify its properties as follows:

ID =QueryRN

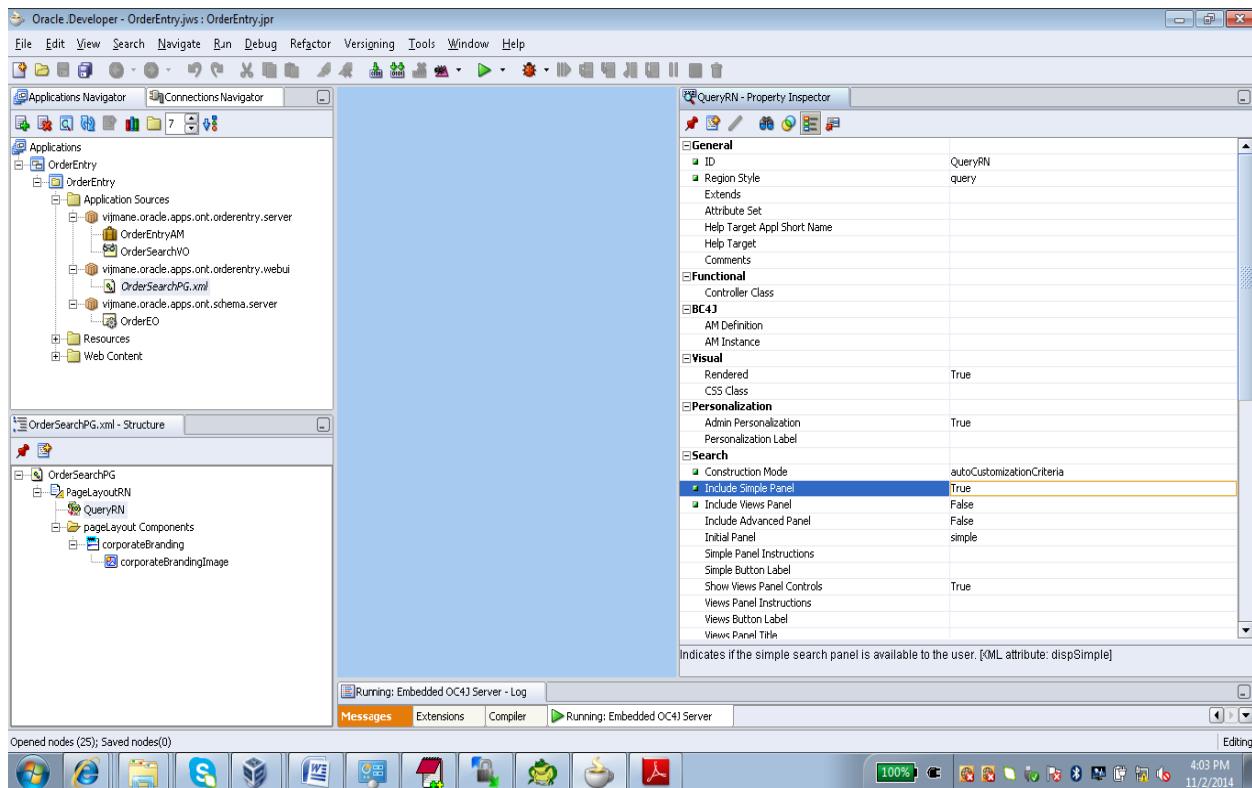
Region Style =query

Construction Mode = autoCustomizationCriteria

Include Simple Panel =True

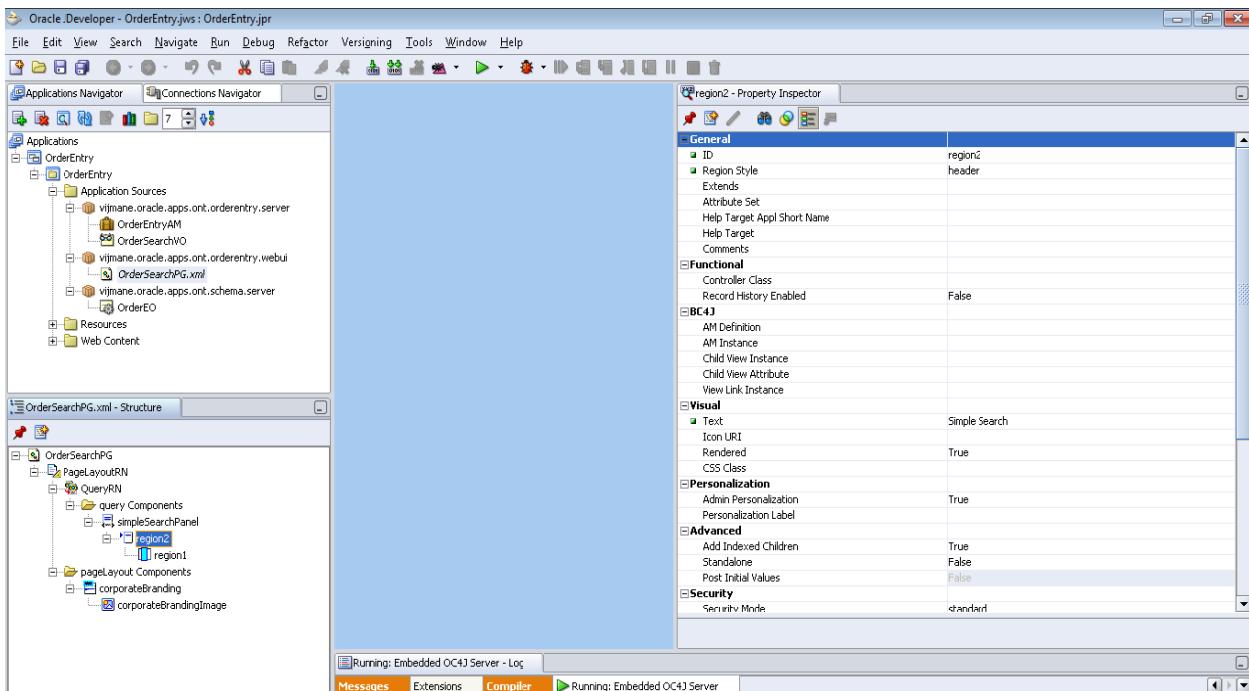
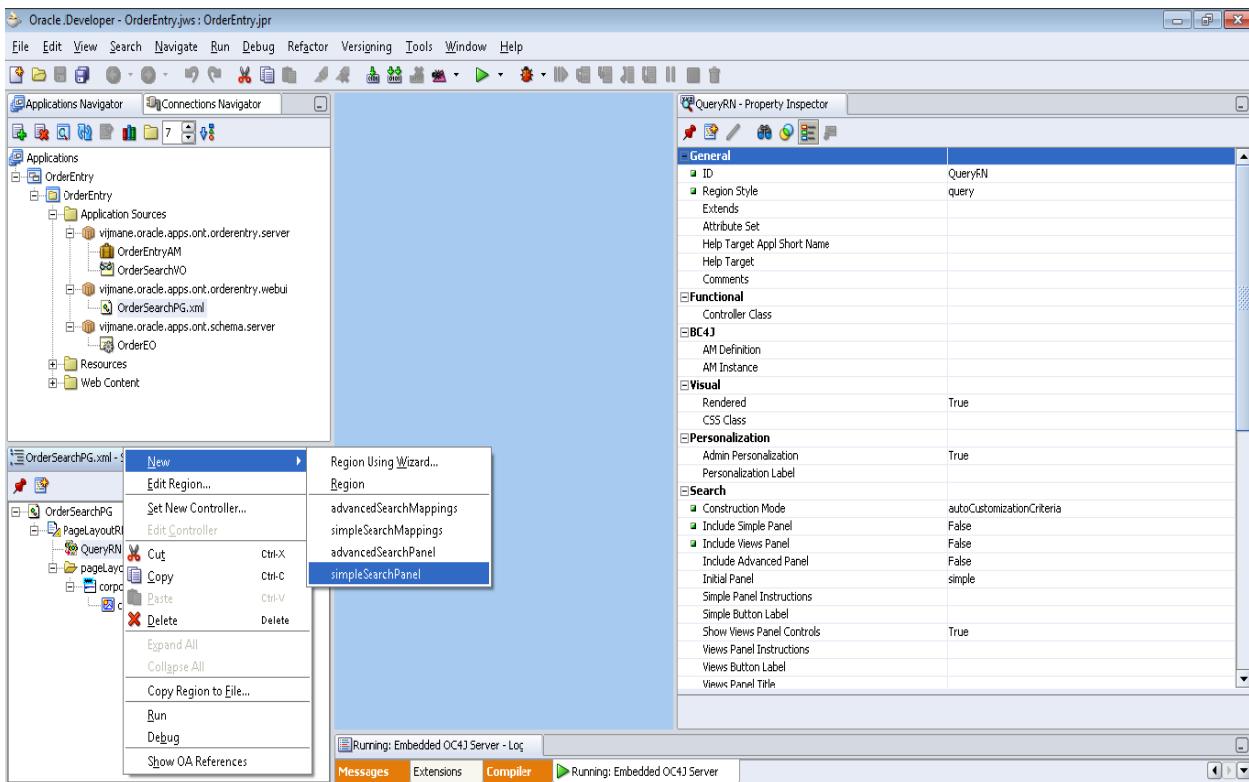
Include Views Panel =False

Include Advanced Panel=False

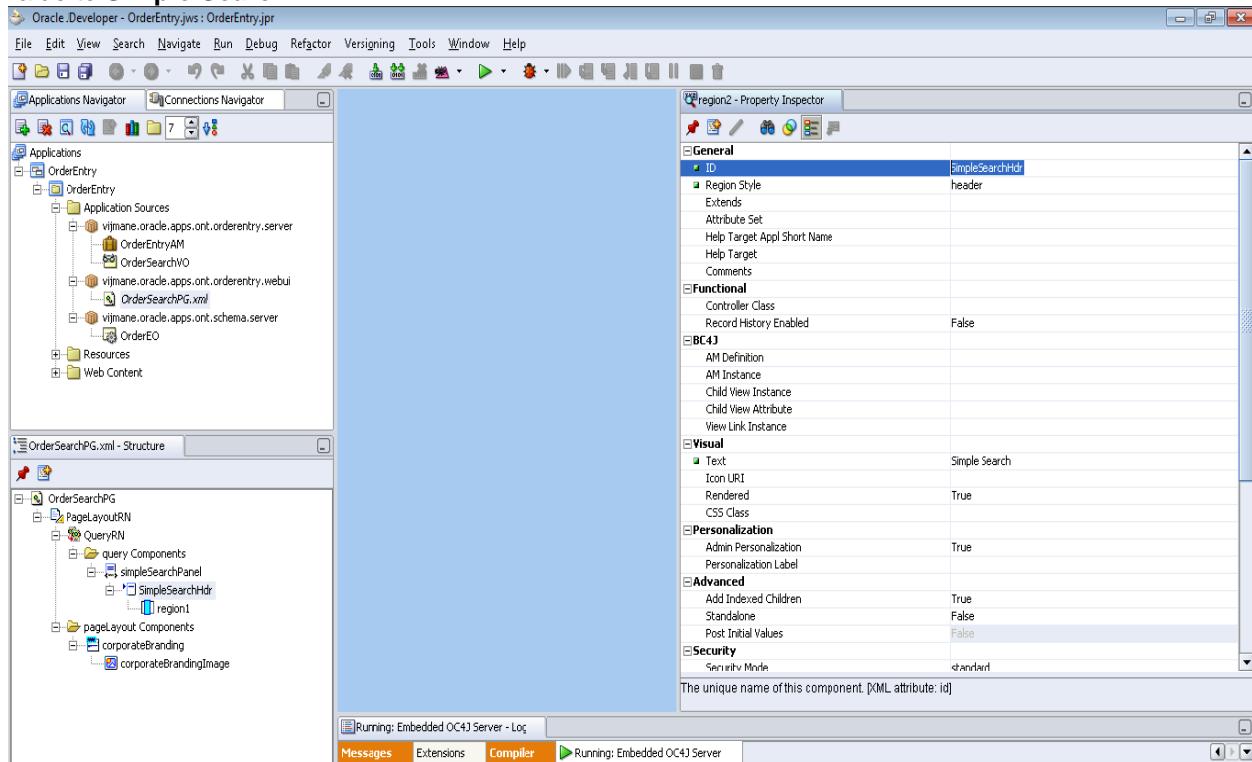


## Add a Simple Search Region

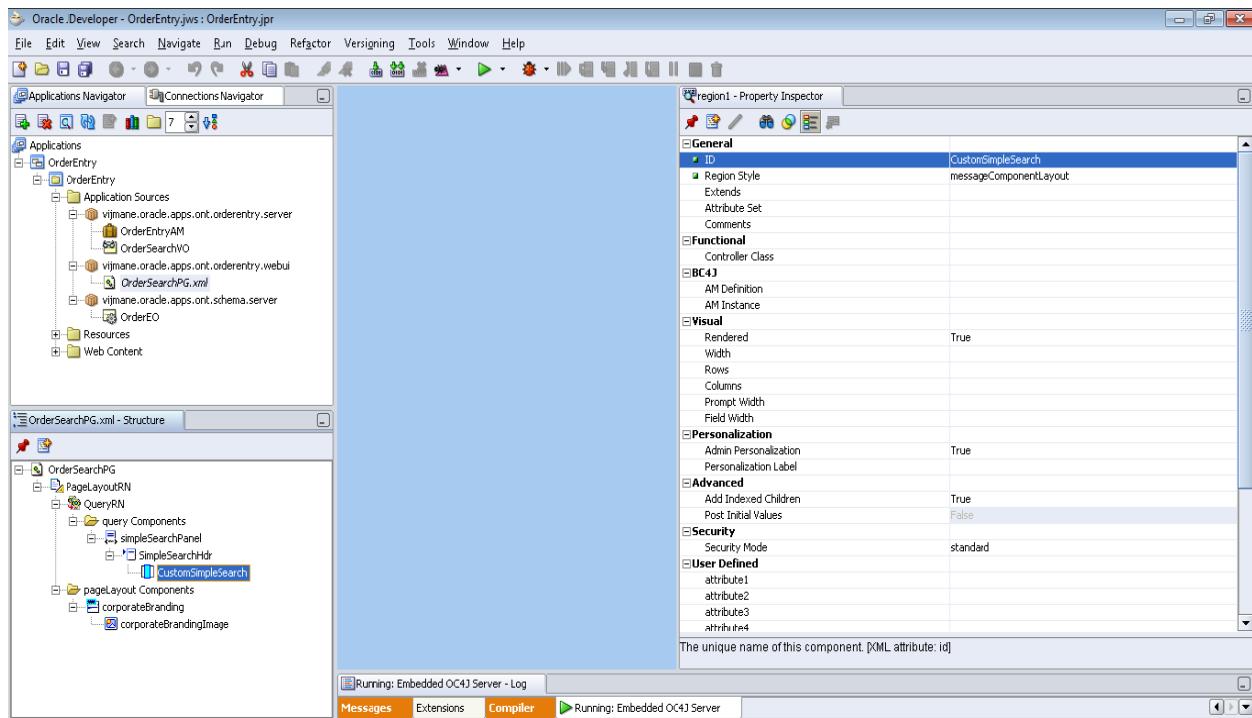
Select the **QueryRN** in the Structure pane, right-click and choose *New > simpleSearchPanel* from the context menu (remember this is a named child of the query region). A header region (**region2**) and a messageComponentLayout region (**region1**) will be created automatically.



Select the header region, set its ID to **SimpleSearchHdr** and change the default Text property value to **Simple Search**.

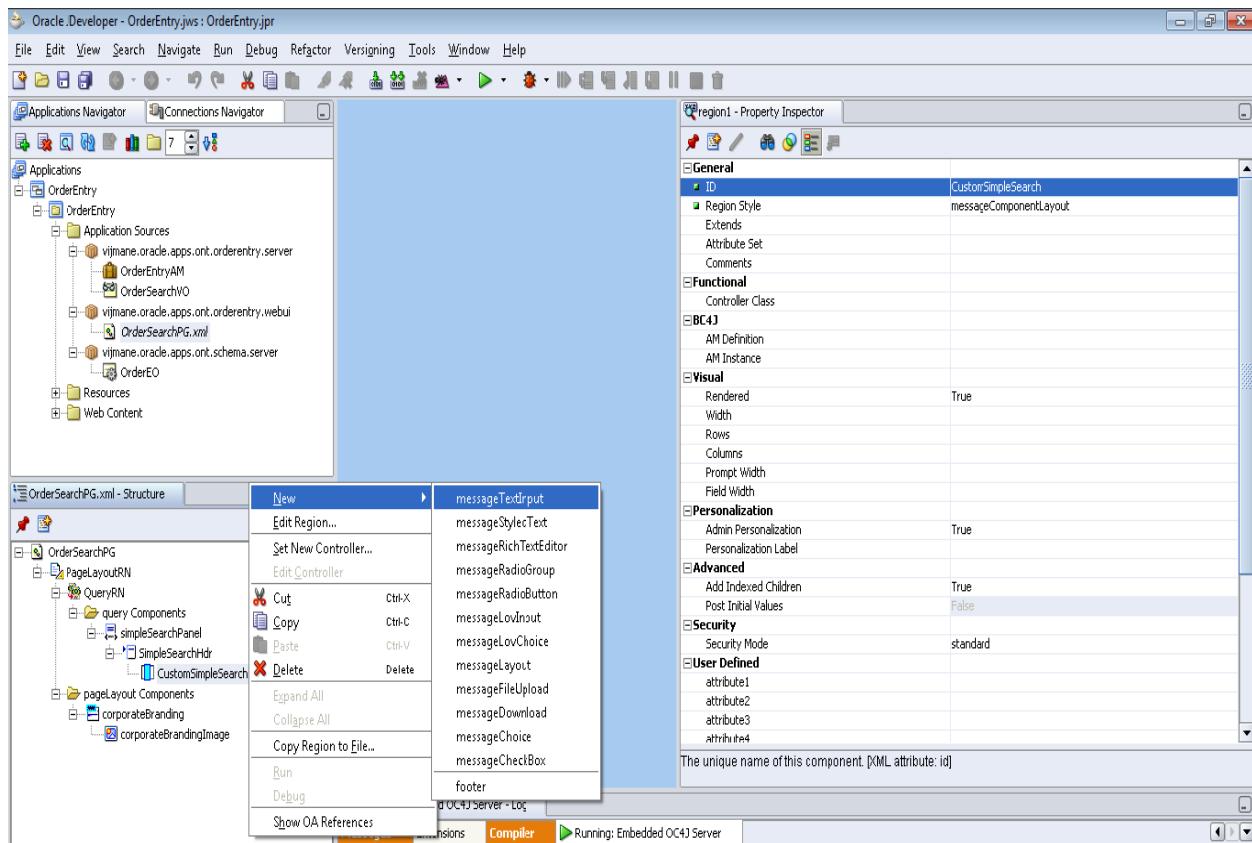


Select the default **messageComponentLayout** region created under the simpleSearchPanel folder (**region1**) and set its ID to **CustomSimpleSearch**.



### Create an OrderId Search Item

Select **CustomSimpleSearch** region in the Structure pane, right-click and select **New > messageTextInput** from the context menu.



Select this item, and set or verify its properties as follows

ID = SearchOrdNum

Item Style = messageTextInput

Selective Search Criteria = True

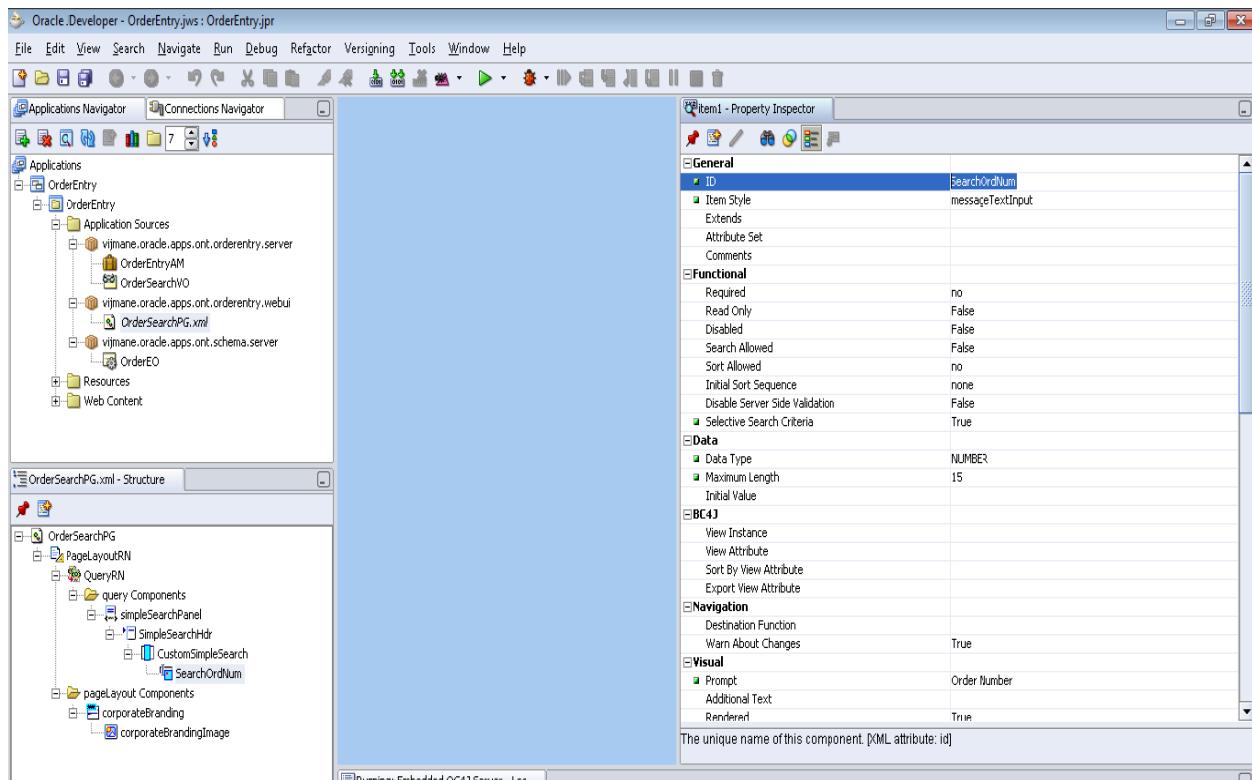
Data Type = NUMBER

Maximum Length = 15

Prompt = Order Number

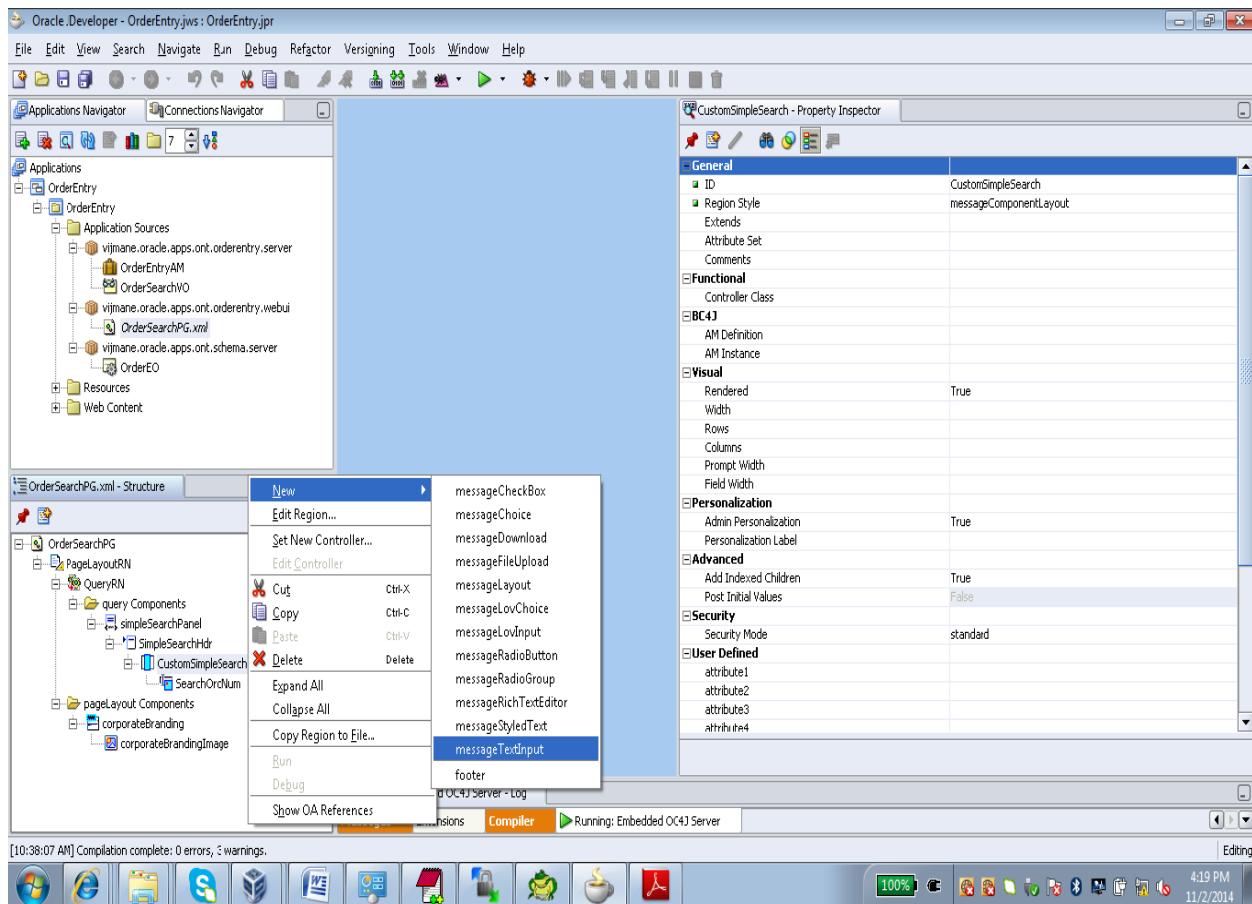
CSS Class = OraFieldText

Length = 15



### Create an CustomerId Search Item

Select **CustomSimpleSearch** region in the Structure pane, right-click and select **New >messageTextInput** from the context menu.



Select this item, and set or verify its properties as follows –

ID = SearchCustId

Item Style = messageTextInput

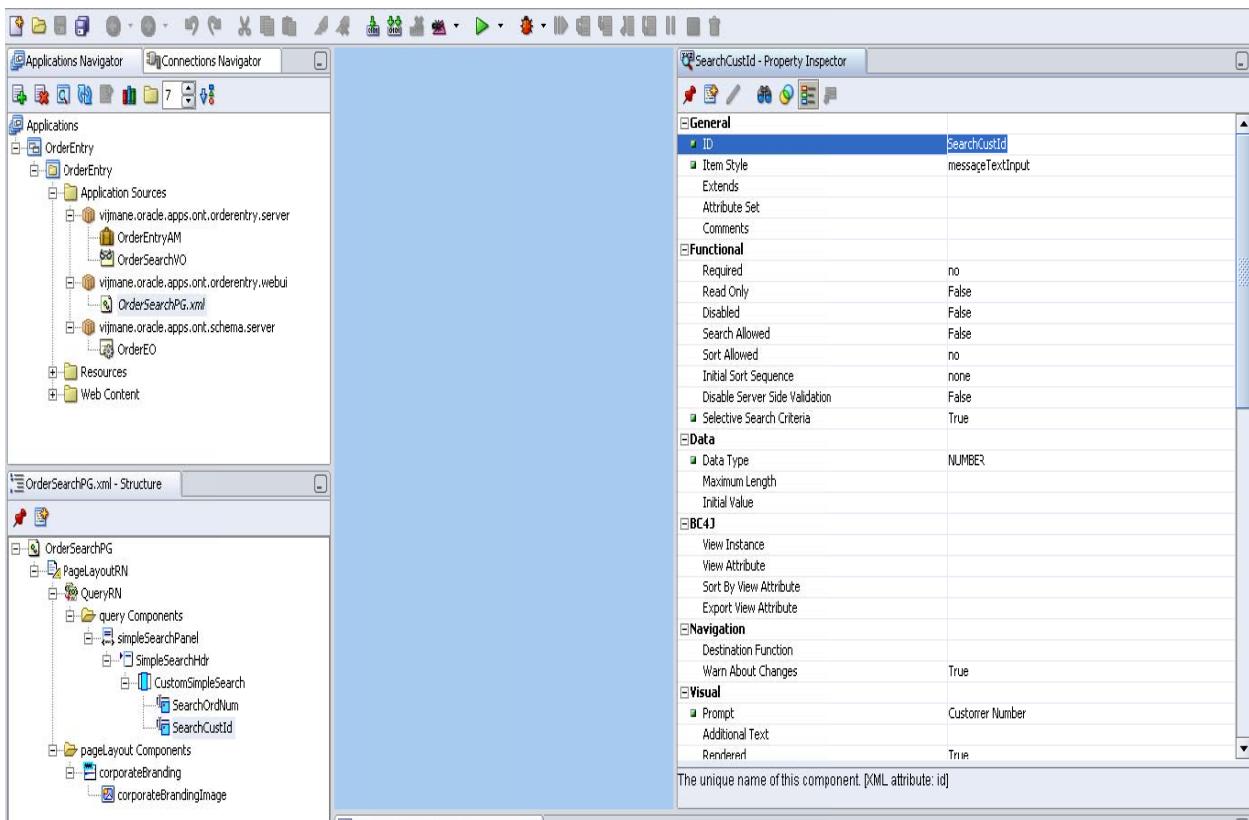
Selective Search Criteria = True

Data Type = NUMBER

Prompt = Customer Number

CSS Class = OraFieldText

Length = 15



### Create an CustomerName Search Item

Select **CustomSimpleSearch** region in the Structure pane, right-click and select **New >messageTextInput** from the context menu.

Select this item, and set or verify its properties as follows

ID = SearchCustName

Item Style = messageTextInput

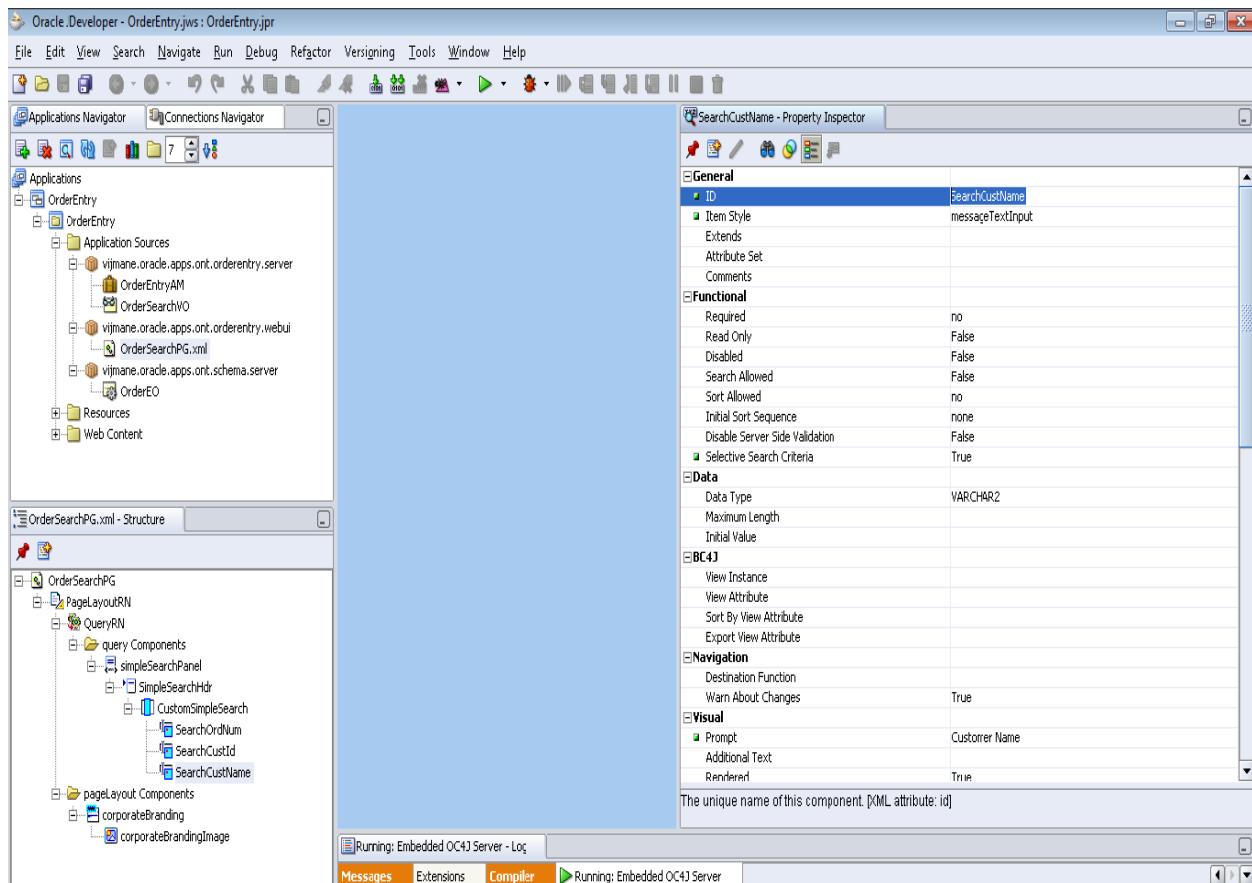
Selective Search Criteria = True

Data Type = VARCHAR2

Prompt = Customer Name

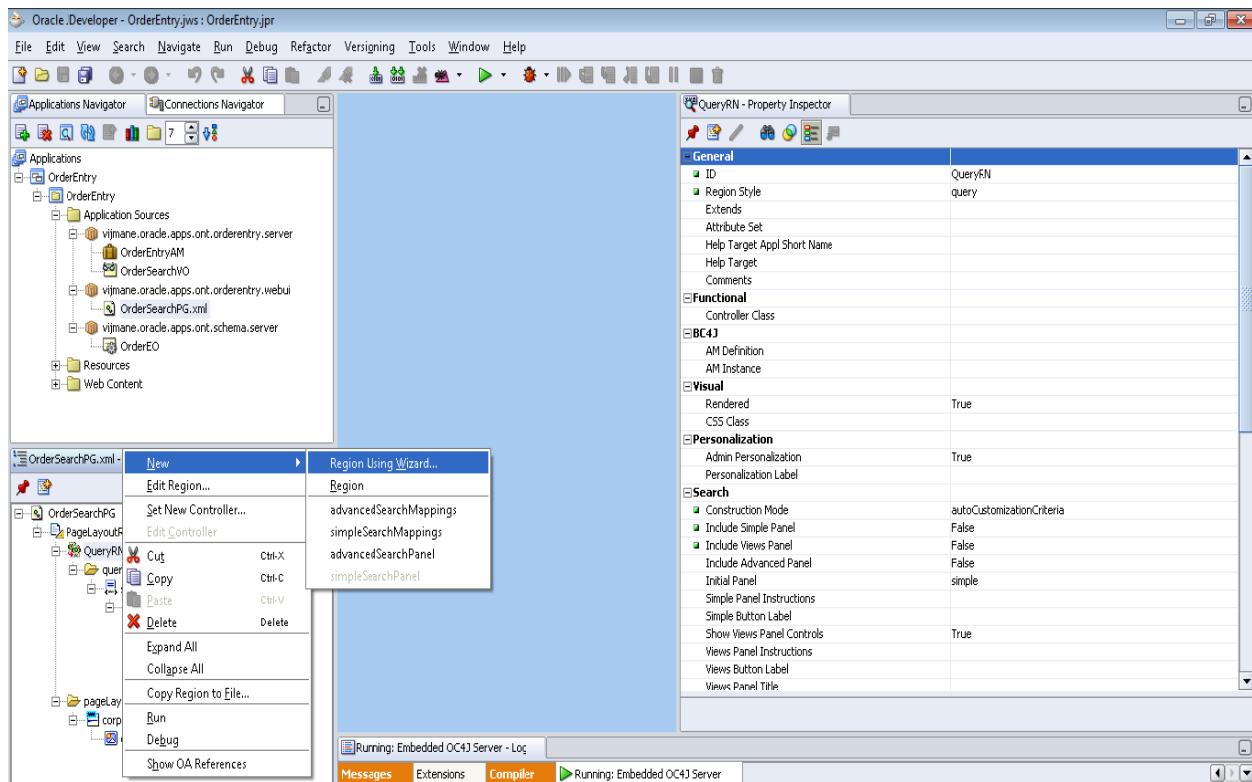
CSS Class = OraFieldText

Length = 15



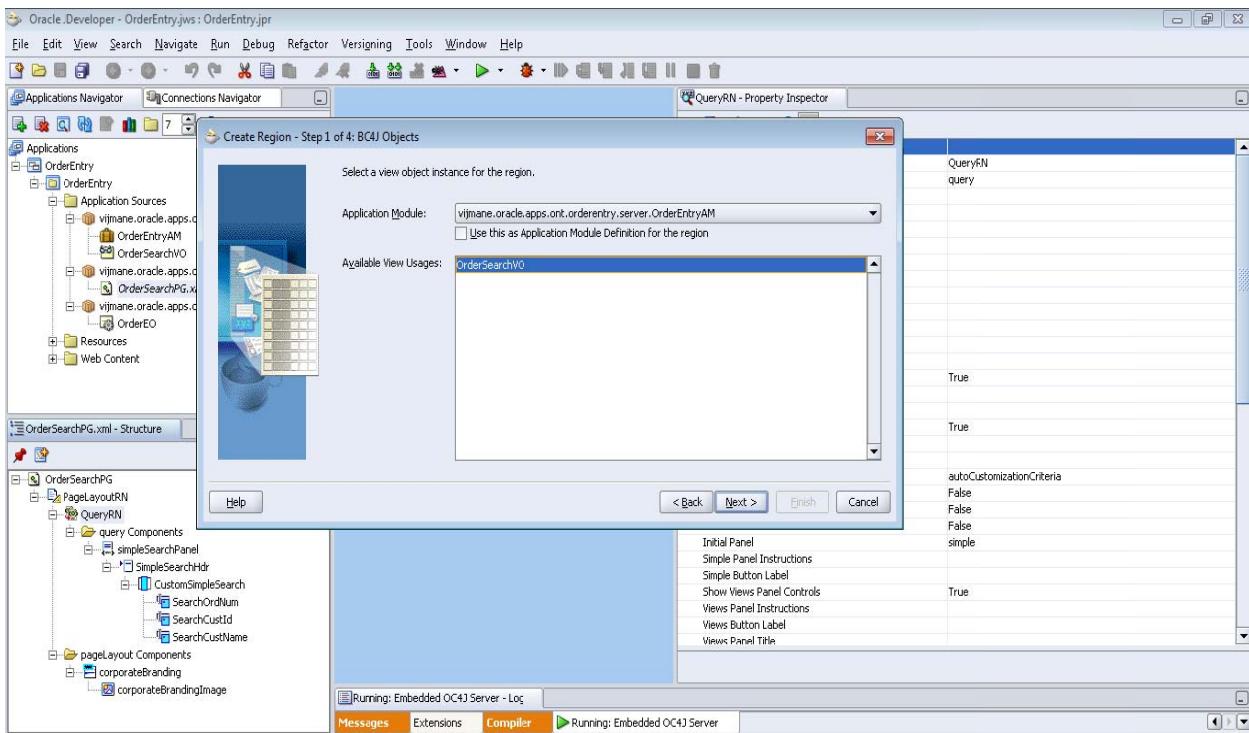
### Add a Results Data Table to Your QueryRN

Select the **QueryRN** in the Structure pane, right-click and select New > Region Using Wizard from the context menu.

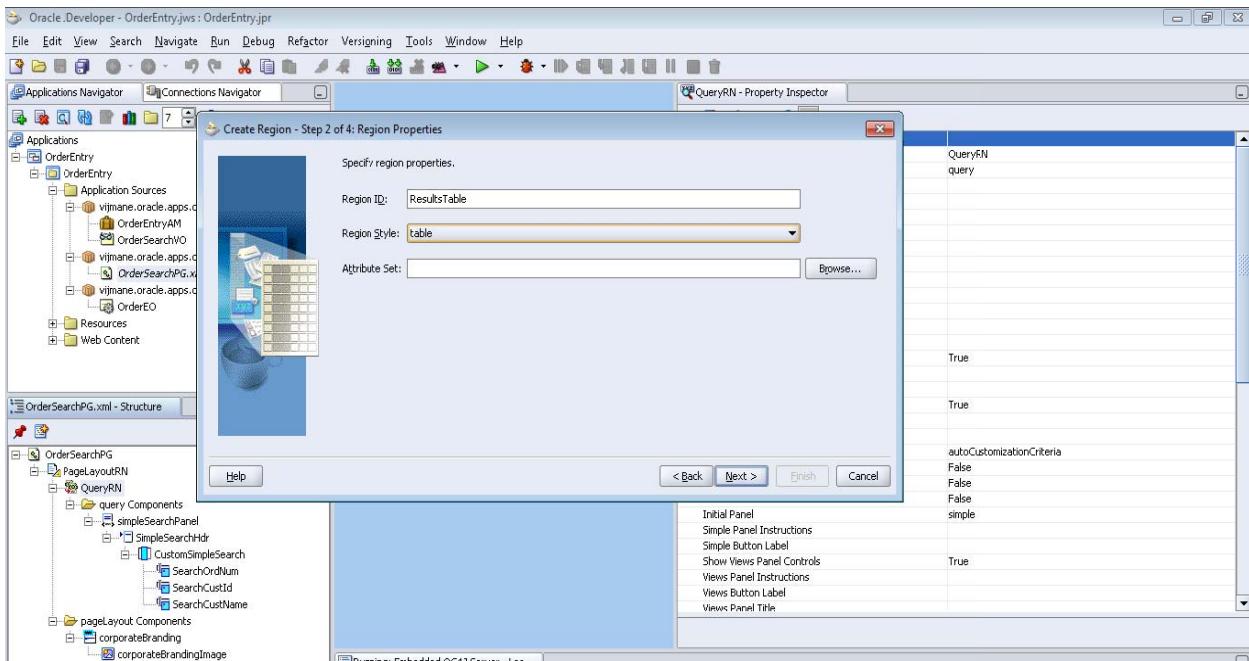


If the **Welcome** page appears, select Next.

In the BC4J Objects page, select your **OrderEntryAM** (xxdm.<yourcguserid>.oracle.apps.ont.orderentry.server.OrderEntryAM), and then select your **OrderSearchVO** view object instance from the Available View Objects list.



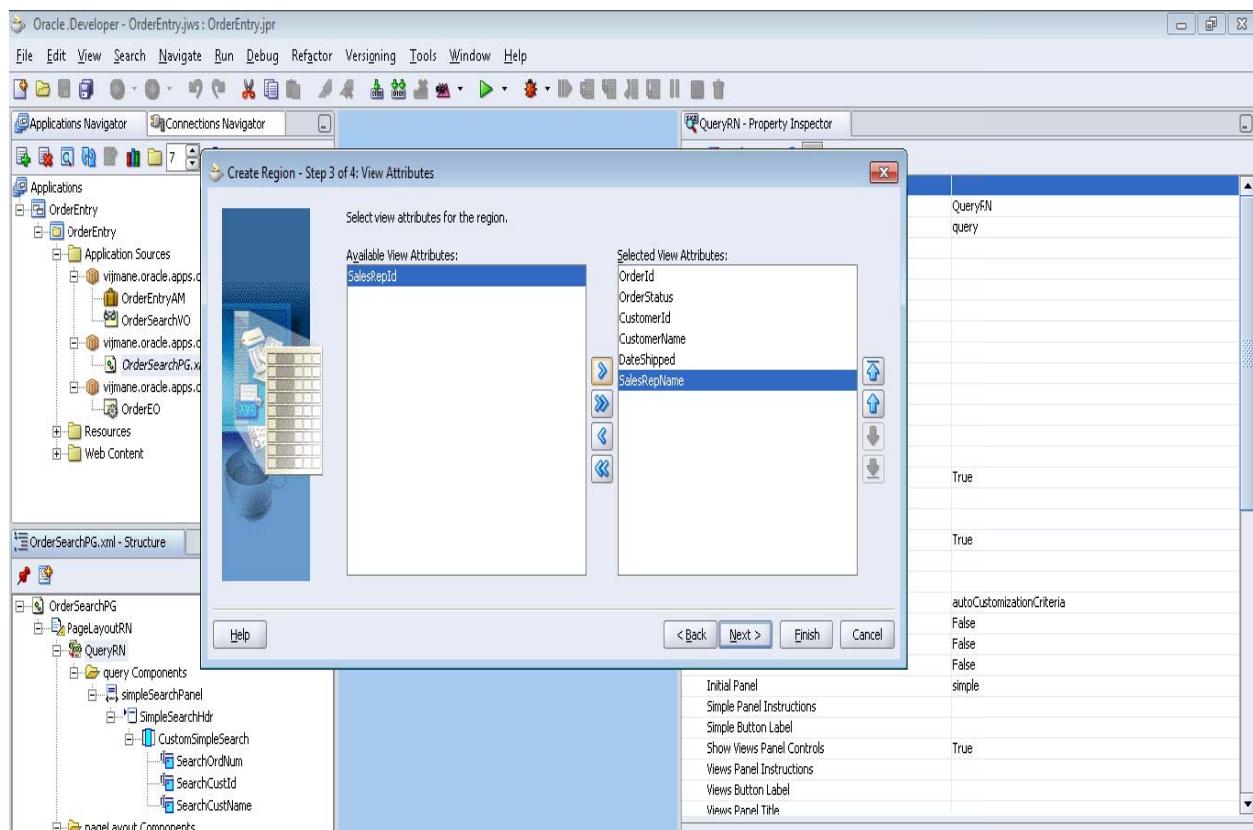
In the Region Properties page, set the Region ID field value to **ResultsTable** and set the Region Style to **table**.



Select the Next button.

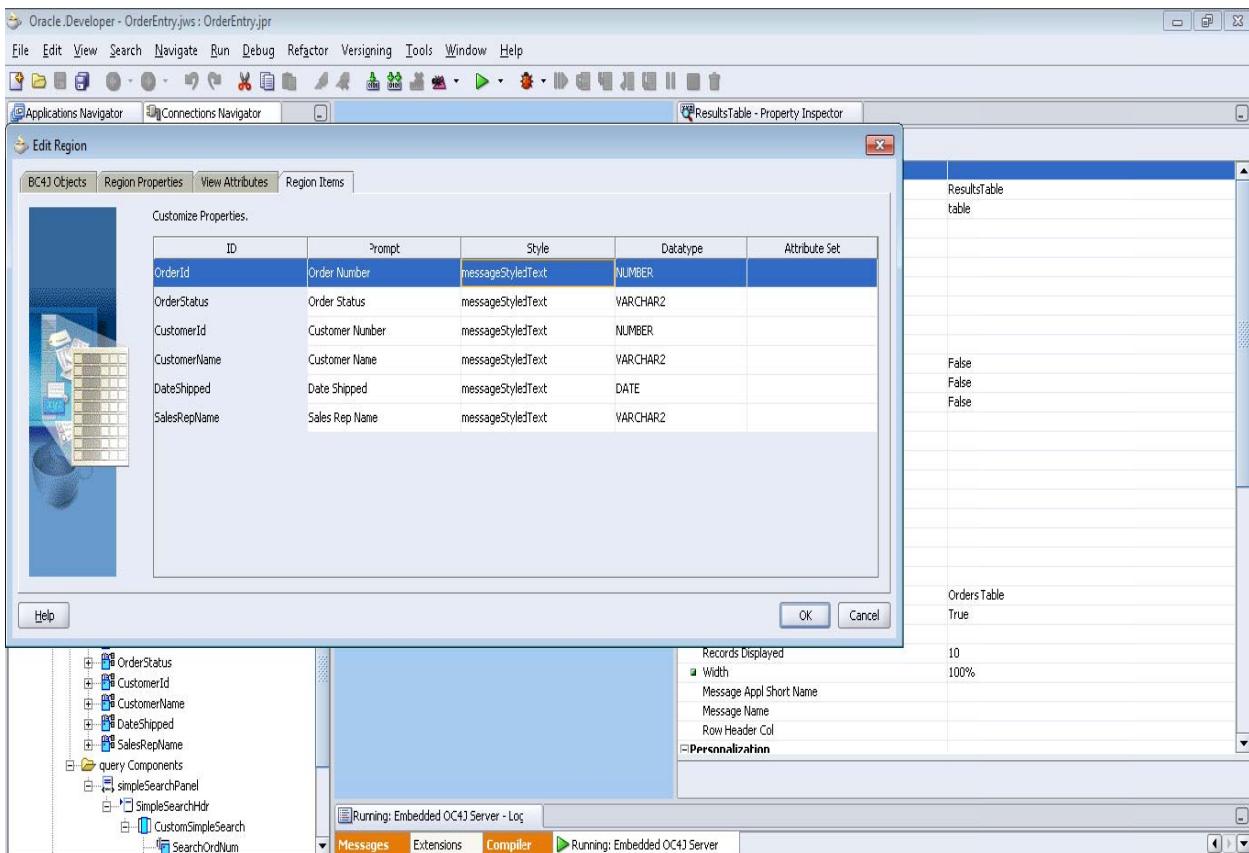
In the View Attributes page, select the following attributes from the Available View Attributes list and shuttle them to the Selected View Attributes list:

- OrderId
- OrderStatus
- CustomerId
- CustomerName
- DateShipped
- SalesRepId



Select the **Next** button.

In the Region Items page, set the ID, Style, and Attribute Set properties as follows –  
Set Field Prompts as per screenshot.  
Style = messageStyledText

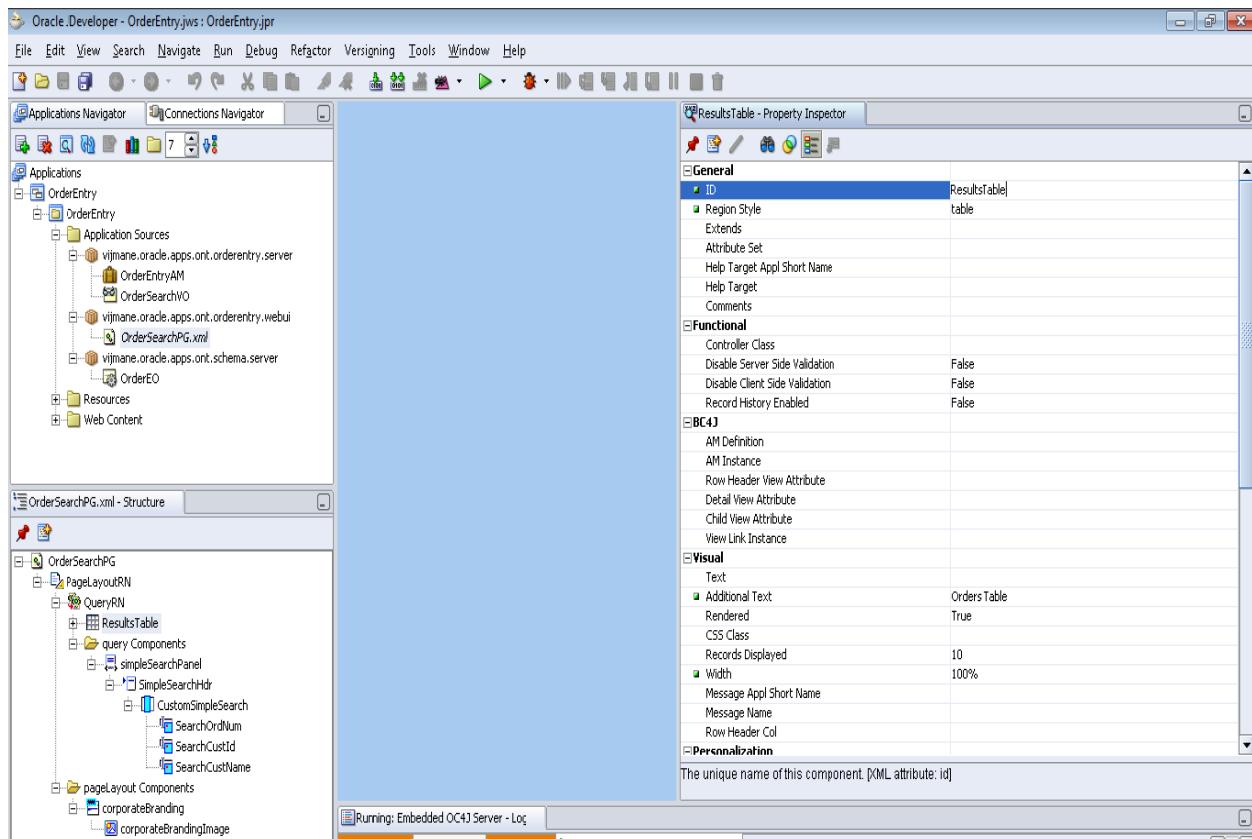


Click the **Finish** button to create your data table.

### Set or Verify Your ResultsTable Region Properties

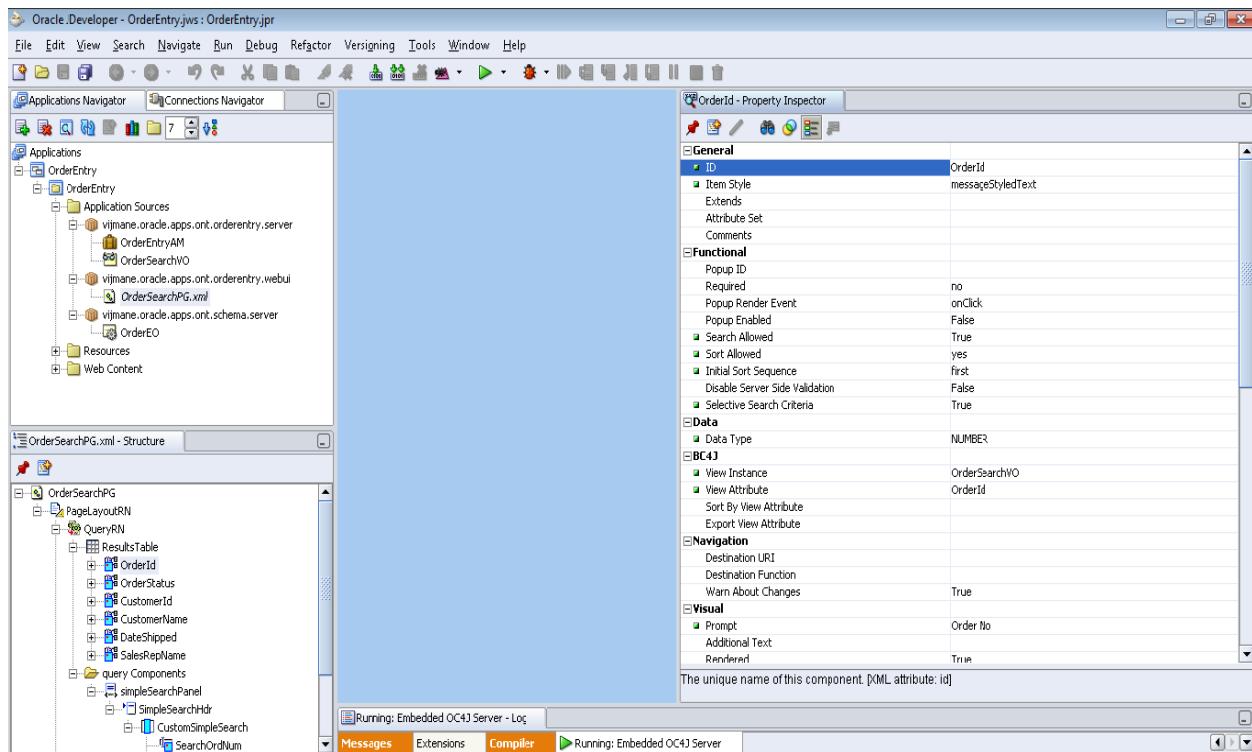
Select the **ResultsTable** region in the Structure pane, and set/verify the following properties:

**ID** = ResultsTable  
**Region Style** = table  
**Additional Text** = Orders Table  
**Rendered** = True  
**Records Displayed** = 10  
**Width** 100%  
**User Personalization** = True



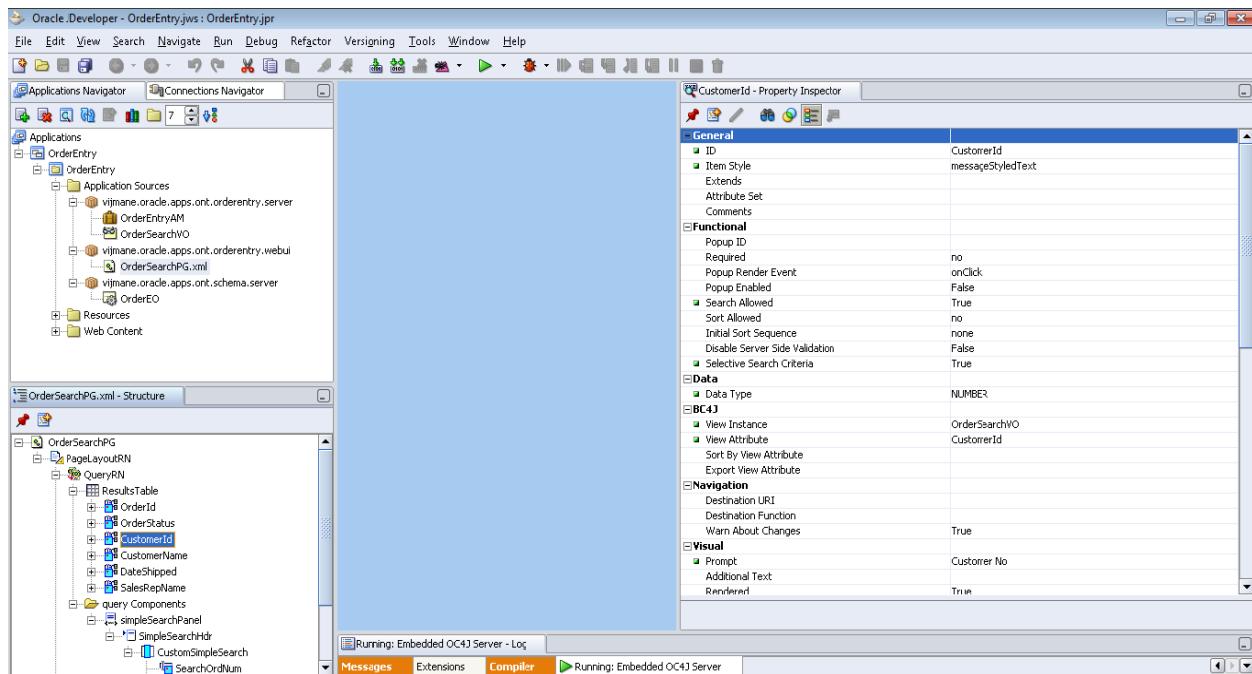
For the **OrderId** item set or verify:

- Sort Allowed property to **yes**
- Initial Sort Sequence to **first**
- Search allowed **True**
- Selective Search Criteria property to **True**
- User Personalization property to **True**



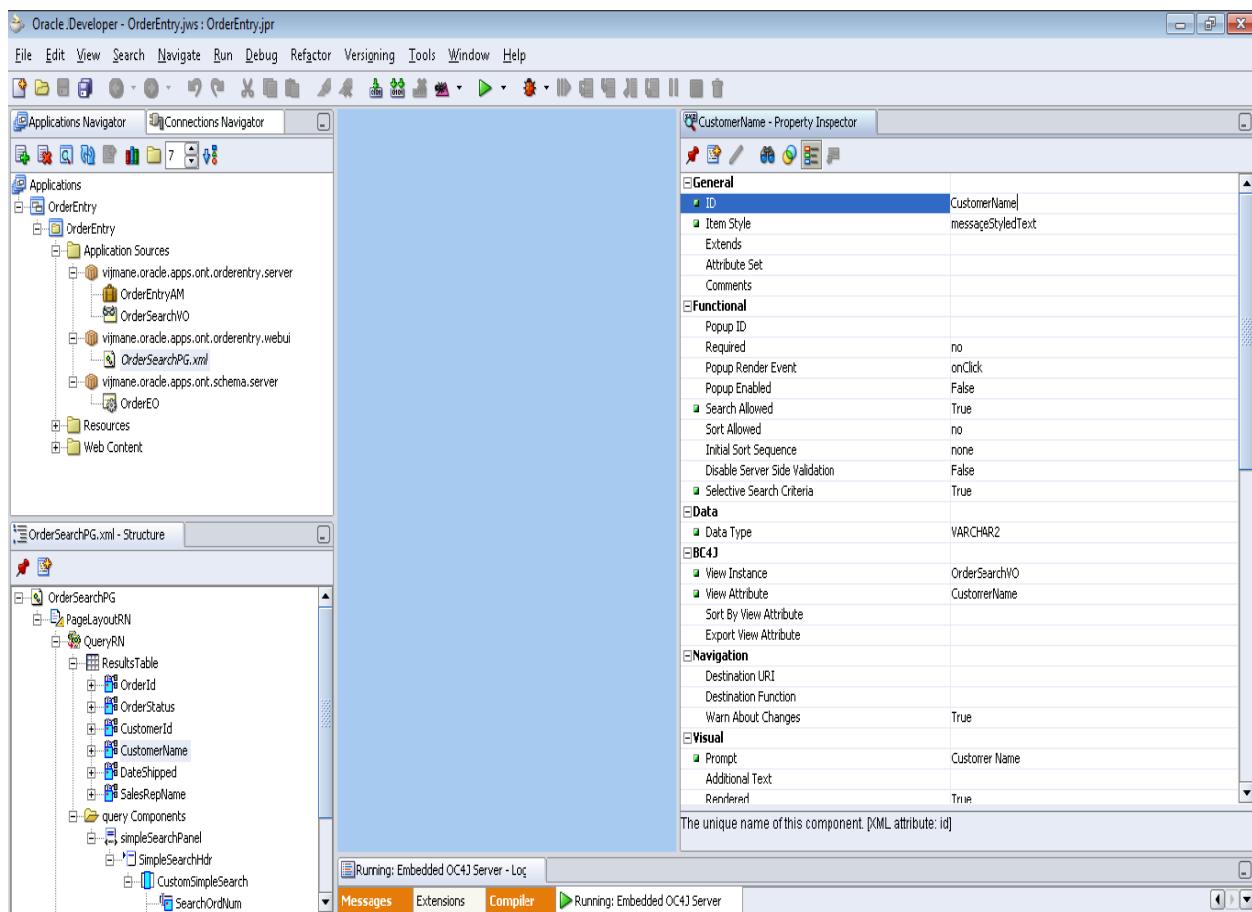
For the **CustomerId** item:

- Search Allowed property to **True**
- Selective Search Criteria property to **True**
- User Personalization property to **True**



For the **CustomerName** item:

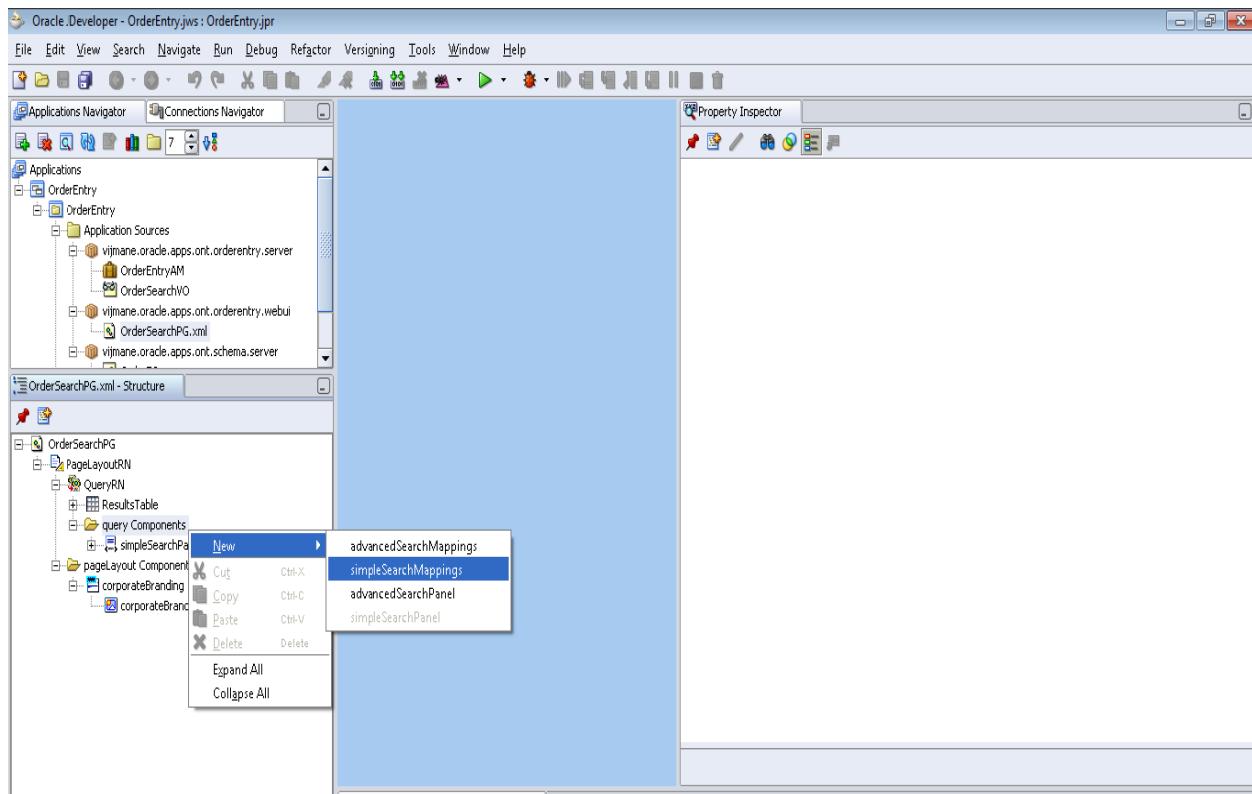
- Search Allowed property to **True**
- Selective Search Criteria property to **True**
- User Personalization property to **True**



### Create Search Mappings Between Search Items and ResultsTable

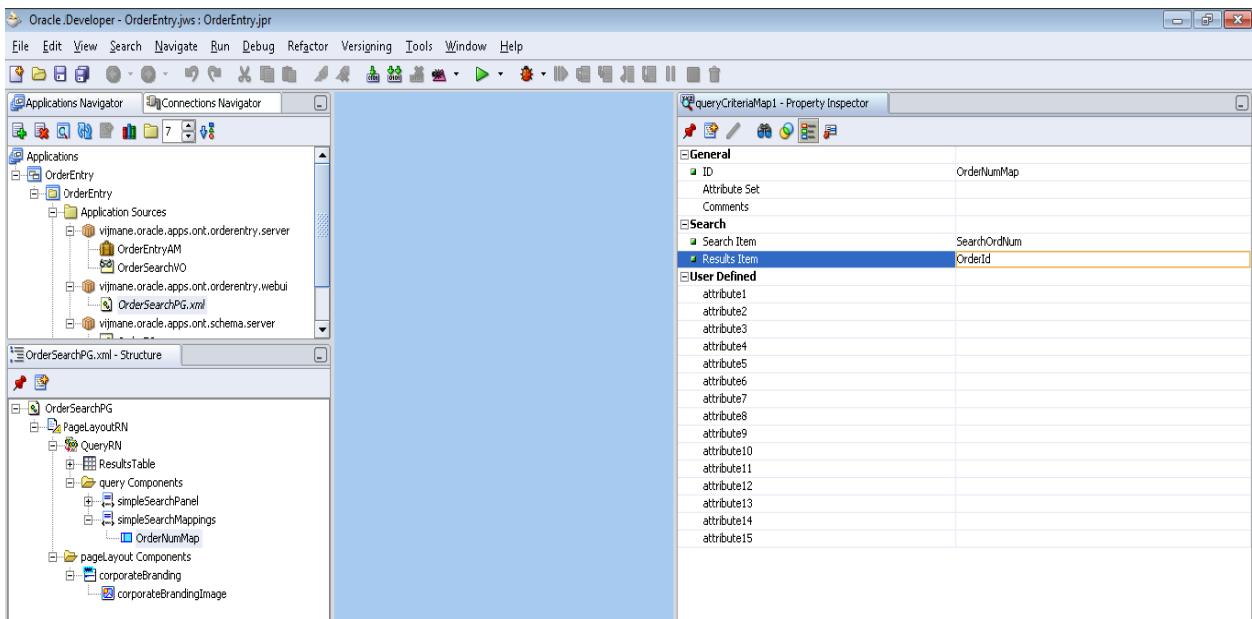
The OA Framework uses the mappings that you define between your custom search items and columns in the **ResultsTable** to handle the query automatically when the user selects the **Go** button.

Select the query bean or the query Components folder in the Structure pane, rightclick and choose **New > simpleSearchMappings** from the context menu.



Select the default mapping created under the simpleSearchMappings and set its properties to the following:

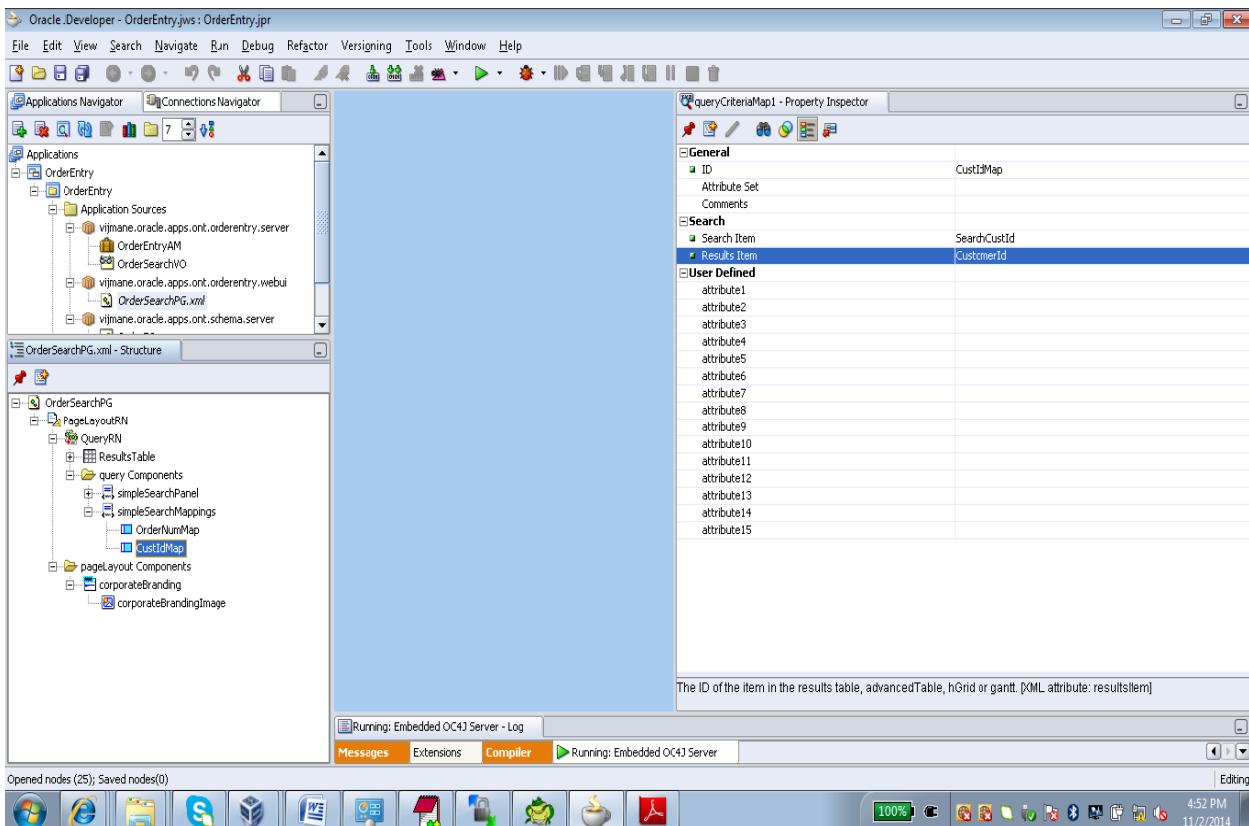
ID = OrderNumMap  
Search Item = SearchOrdNum  
Results Item = OrderId



Select the simpleSearchMappings folder in the Structure pane, right-click and choose New > queryCriteriaMap from the context menu.

Select the new mapping and set its properties as follows:

**ID** = CustIdMap  
**Search Item** = SearchCustomerId  
**Results Item** = CustomerId



Select the simpleSearchMappings folder in the Structure pane, right-click and choose

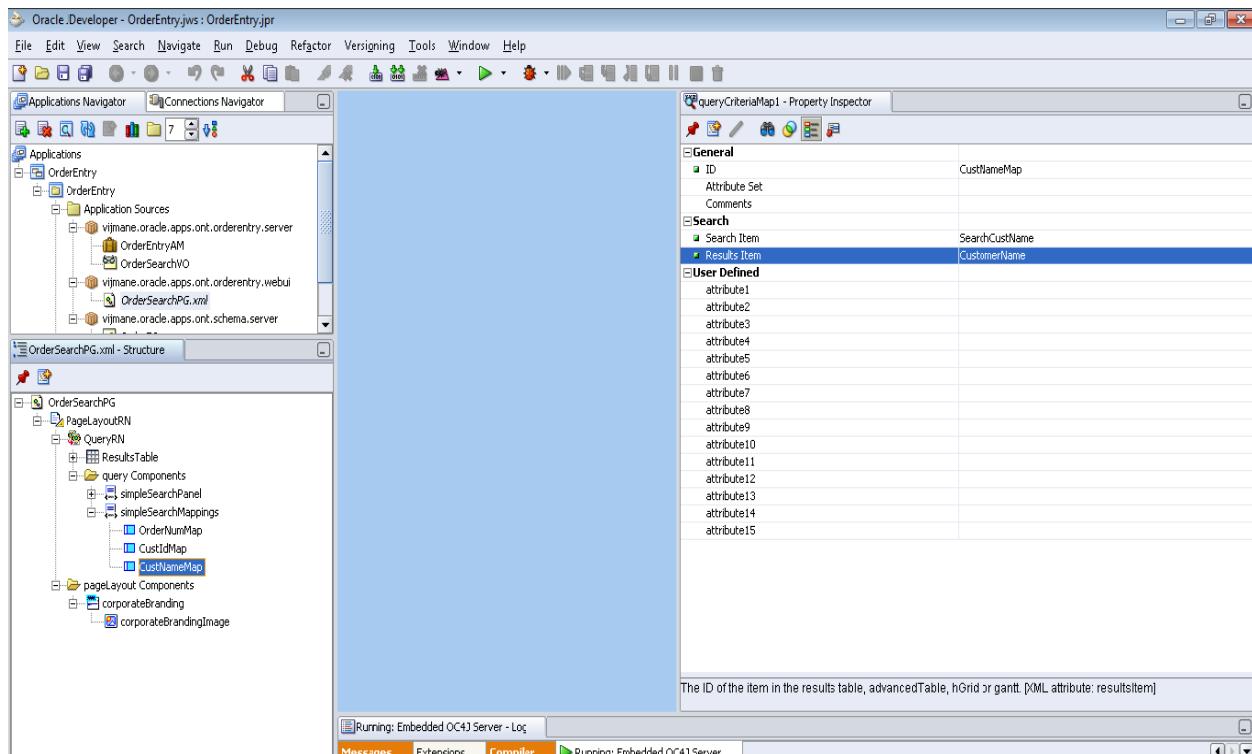
**New > queryCriteriaMap** from the context menu.

Select the new mapping and set its properties as follows:

ID = CustNameMap

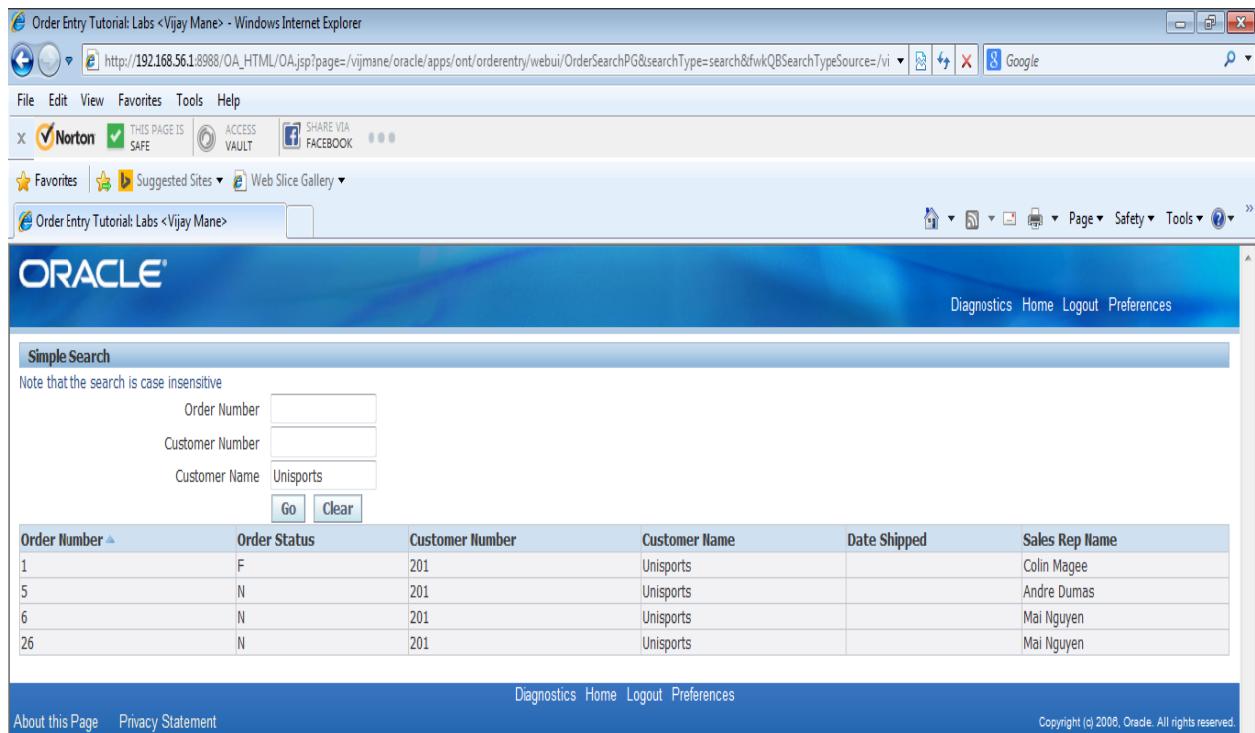
Search Item = SearchCustName

Results Item = CustomerName



### Test Your Work

Test your work.



The screenshot shows a Windows Internet Explorer window displaying the Oracle Application Framework (OAF) Lab Book. The title bar reads "Order Entry Tutorial: Labs <Vijay Mane> - Windows Internet Explorer". The address bar shows the URL "http://192.168.56.1:8988/OA\_HTML/OA.jsp?page=/vijayme/oracle/apps/ont/orderentry/webui/OrderSearchPG&searchType=search&fwkQBSearchTypeSource=/vi". The page content includes a "Simple Search" section with fields for Order Number, Customer Number, and Customer Name, along with "Go" and "Clear" buttons. Below this is a table with columns: Order Number, Order Status, Customer Number, Customer Name, Date Shipped, and Sales Rep Name. The table contains the following data:

Order Number	Order Status	Customer Number	Customer Name	Date Shipped	Sales Rep Name
1	F	201	Unisports		Colin Magee
5	N	201	Unisports		Andre Dumas
6	N	201	Unisports		Mai Nguyen
26	N	201	Unisports		Mai Nguyen

At the bottom of the page, there are links for "Diagnostics", "Home", "Logout", and "Preferences". The footer includes links for "About this Page" and "Privacy Statement", and a copyright notice: "Copyright (c) 2006, Oracle. All rights reserved."

### Lab 3. Register the OAF page in Oracle Apps

Here we have to first attach the created OAF Page to Oracle E-Business Suite using the following steps :

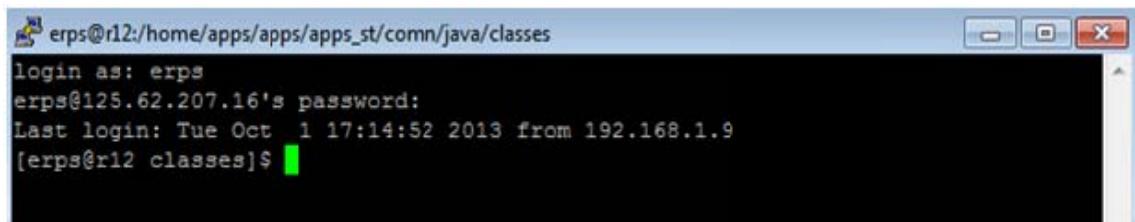
#### 3.1 Move OAF files to Oracle Apps Server

#### 3.2 Register the OAF page to Oracle E-Business suite

##### 3.1 : Move OAF files to Oracle Apps Server

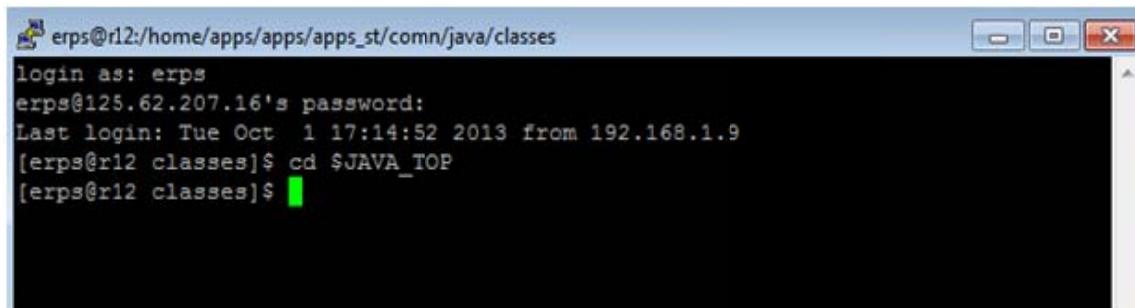
**Step 1** : Find the server path where exactly to place the OAF project files into Oracle Applications server.

- Login to Putty



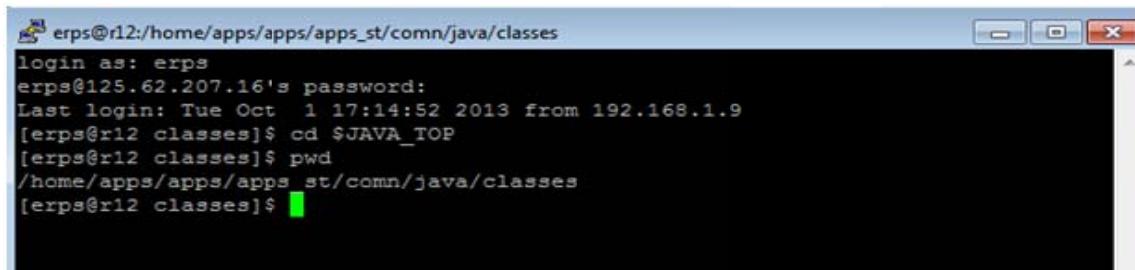
```
erps@r12:/home/apps/apps_st/comn/java/classes
login as: erps
erps@125.62.207.16's password:
Last login: Tue Oct  1 17:14:52 2013 from 192.168.1.9
[erps@r12 classes]$
```

- Execute cd \$JAVA\_TOP command to go to the JAVA TOP directory



```
erps@r12:/home/apps/apps_st/comn/java/classes
login as: erps
erps@125.62.207.16's password:
Last login: Tue Oct  1 17:14:52 2013 from 192.168.1.9
[erps@r12 classes]$ cd $JAVA_TOP
[erps@r12 classes]$
```

- Now execute pwd command to get the path where exactly the JAVA TOP is located in your sever.  
example: /home/apps/apps\_st/comn/java/classes



```
erps@r12:/home/apps/apps_st/comn/java/classes
login as: erps
erps@125.62.207.16's password:
Last login: Tue Oct  1 17:14:52 2013 from 192.168.1.9
[erps@r12 classes]$ cd $JAVA_TOP
[erps@r12 classes]$ pwd
/home/apps/apps_st/comn/java/classes
[erps@r12 classes]$
```

**Step 2** : Copy OAF Project Files into Oracle APPS Server

- Open the installed WINSCP, select the saved session or else type it out as "oslcoe04.capgemini.com" in the Host Name, and click on login, provide the user name as xxdm and the password as xxdm.
- A winscp window will be opened, which on the LHS will show your local machine and on the RHS will show your remote Apps Server(Unix machine).
- On the LHS, using the "/" button go to your local machines root (D or C drive), and go to the folder in which your page is saved.
- Similary, on the RHS, set the path.
- On the LHS, right click on your file and take the option Upload. The file is automatically copied to the current path at the RHS. Set the properties to 755. Now, close/Terminate the WINSCP session , after checking the file uploaded on the RHS.

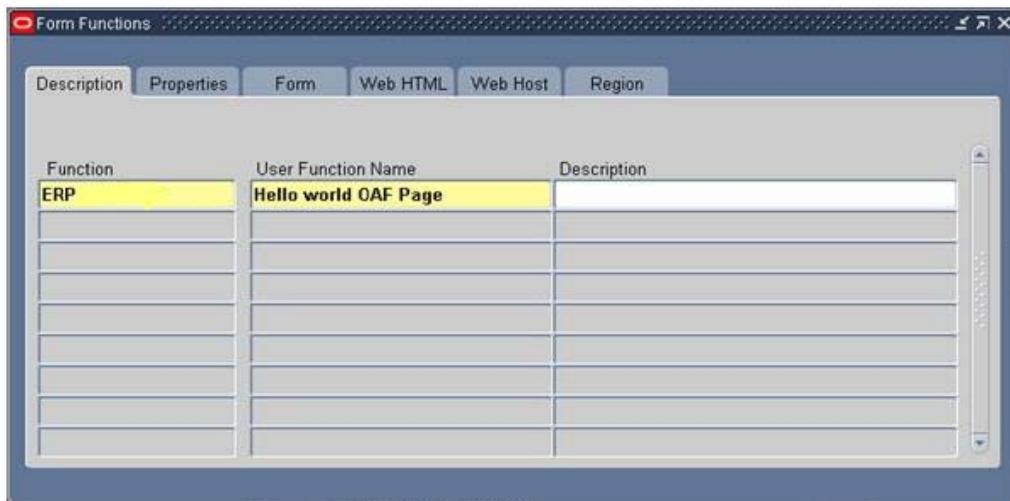
**3.2 : Register the OAF page to Oracle E-Business suite**

**Step 1** : Login to Oracle Application E-Business Suite. Got to System Administrator responsibility to create function. The below image shows the navigation in System Administrator.



**Step 2** : Function window will get open. Give the details in each tab as shown below.

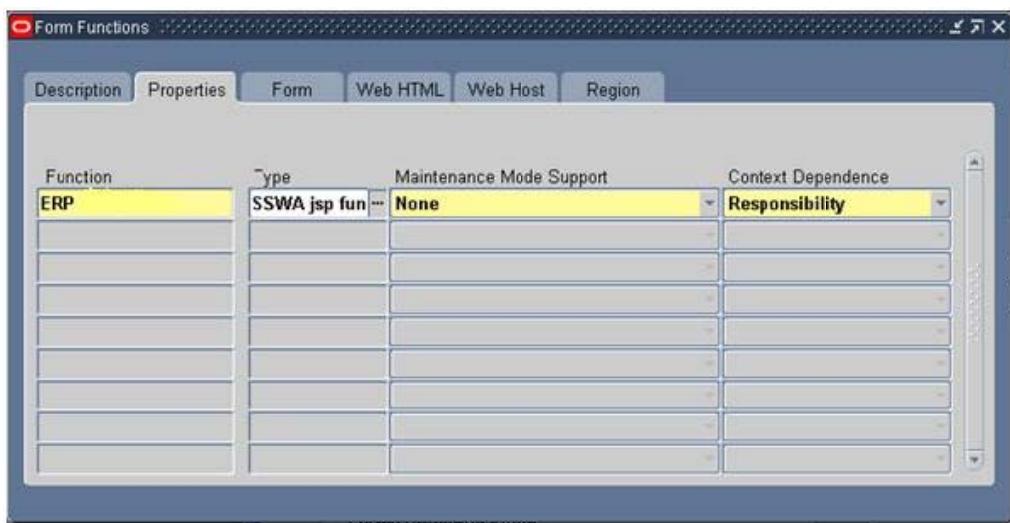
Description:



The screenshot shows the 'Form Functions' dialog box with the 'Description' tab selected. A single row is present in the grid:

Function	User Function Name	Description
ERP	Hello world OAF Page	

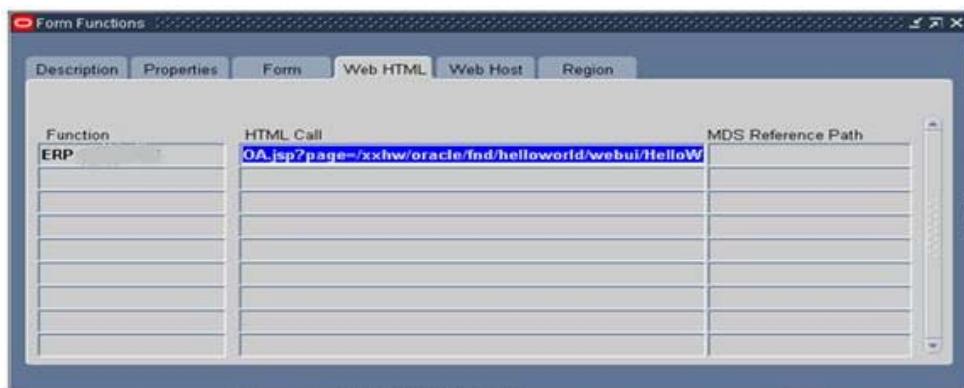
Properties:



The screenshot shows the 'Form Functions' dialog box with the 'Properties' tab selected. The 'ERP' function is selected, and its properties are displayed in the grid:

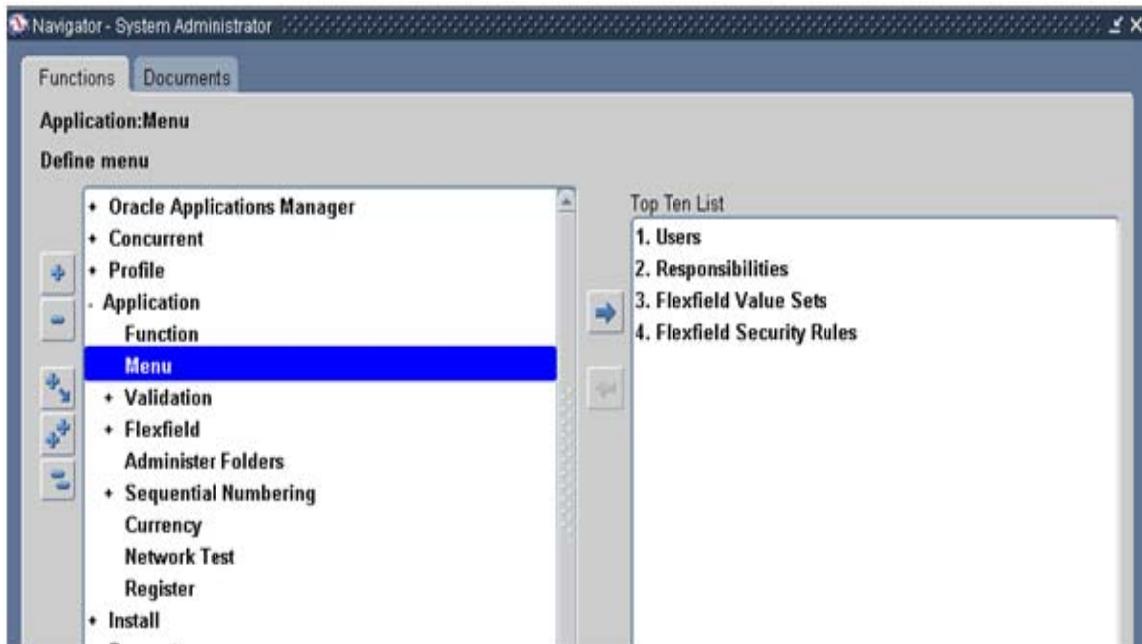
Function	Type	Maintenance Mode Support	Context Dependence
ERP	SSWA jsp fun...	None	Responsibility

Web HTML:

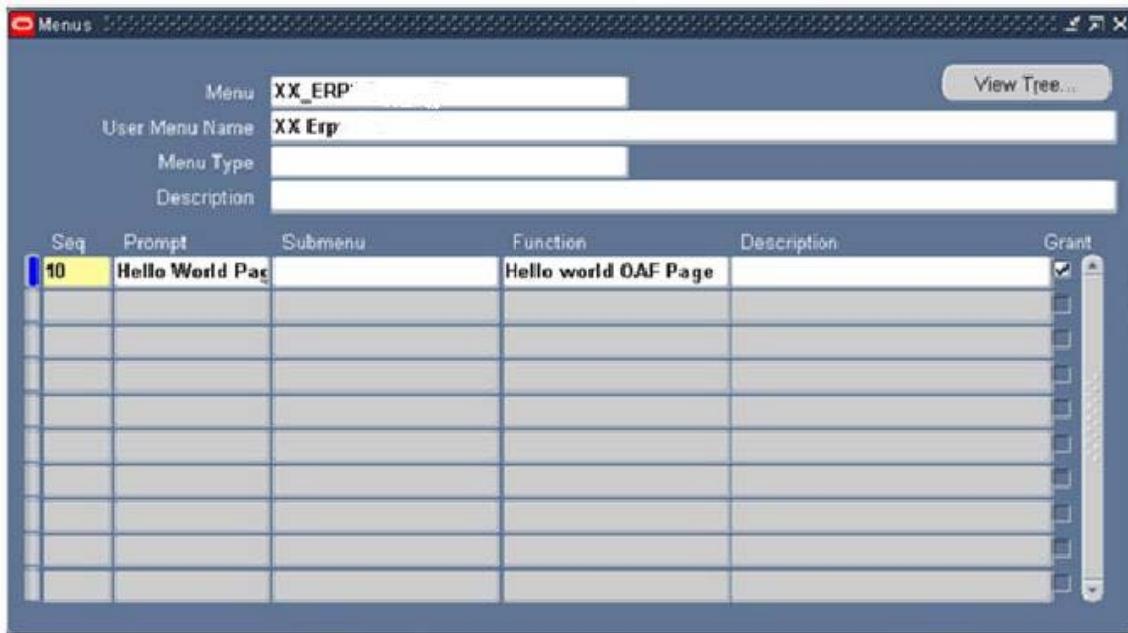


Save it.

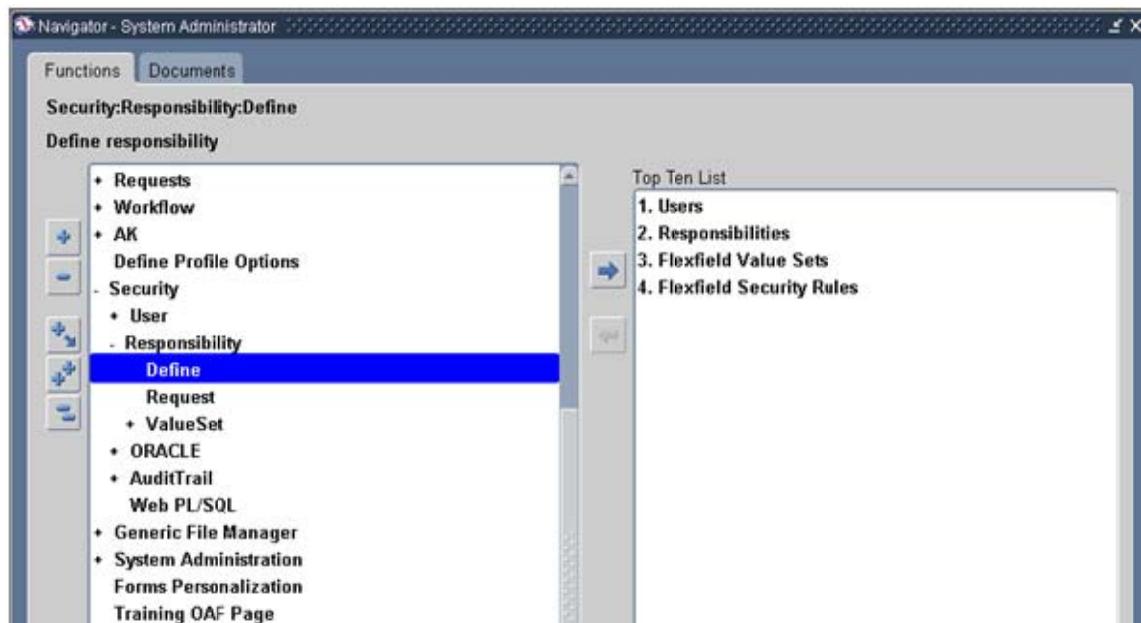
**Step 3 :** Navigate to create menu. Application -> Menu



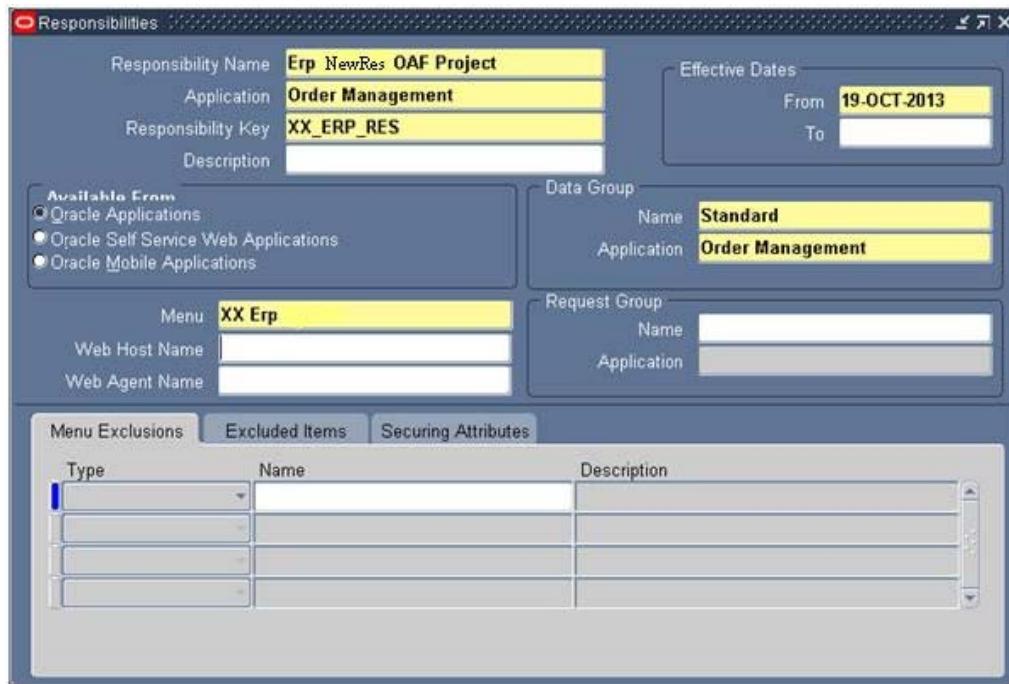
**Step 4** :Give Menu name and function name. Design the menu structure according to the Oracle Applications.



**Step 5 :** Create a responsibility and add menu to responsibility, the below shows the responsibility navigation in System Administration.

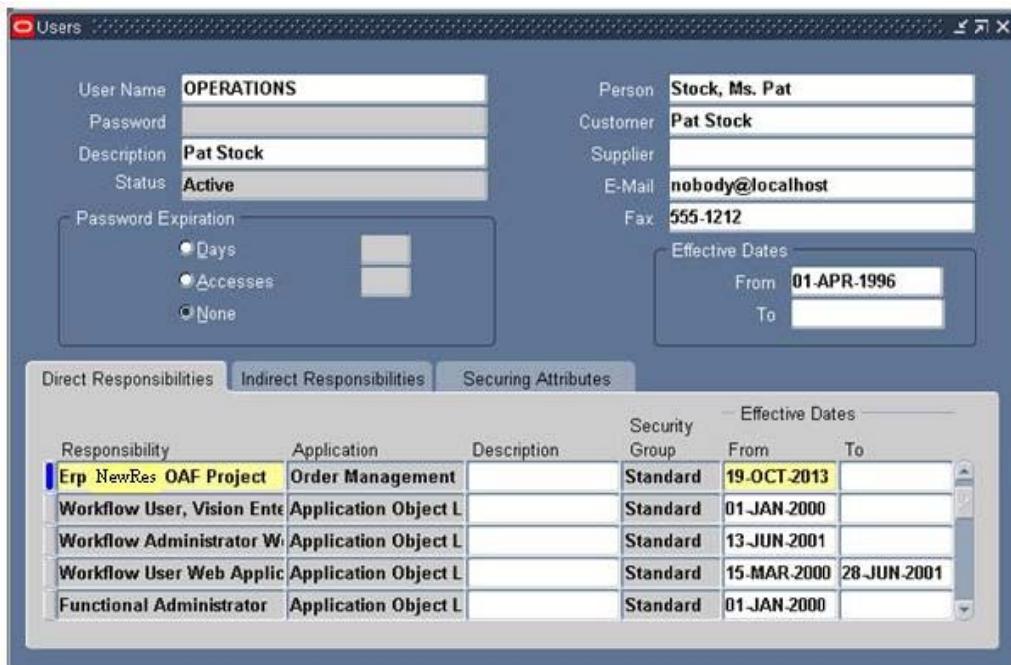


**Step 6 :** Now assign the menu to Responsibility as shown in the below image



The screenshot shows the 'Responsibilities' window in the Oracle Application Framework. The 'Responsibility Name' field is set to 'Erp\_NewRes\_OAF Project'. The 'Application' field is set to 'Order Management'. The 'Responsibility Key' field is set to 'XX\_ERP\_RES'. The 'Effective Dates' section shows 'From' as '19-OCT-2013' and 'To' as an empty field. In the 'Available From' section, the radio button for 'Oracle Self Service Web Applications' is selected. The 'Data Group' section shows 'Name' as 'Standard' and 'Application' as 'Order Management'. The 'Menu' field is set to 'XX\_Erp'. The 'Web Host Name' and 'Web Agent Name' fields are empty. The 'Request Group' section shows 'Name' and 'Application' both as empty fields. At the bottom, there are tabs for 'Menu Exclusions', 'Excluded Items', and 'Securing Attributes'. The 'Menu Exclusions' tab is active, displaying a table with columns 'Type', 'Name', and 'Description'. The table has five rows, but all fields are empty.

**Step 7 :** Attach Responsibility to the User .



Now Bounce the server to reflect the changes.

The below image shows the example navigation of responsibility which we attached to E-business suite

