



Oracle Application Express: Developing Database Web Applications

Hands-On-Labs Guide

Unit 5: Developing Reports

This exercise includes three hands-on-labs.

- **HOL 5-1 Creating a Classic Report**: In this hands-on-lab, you create a classic report region on the Dashboard page of the Demo Projects application.
- **HOL 5-2 Creating an Interactive Report**: In this hands-on lab, you create a new database application and then using the Create Page wizard, you add an interactive report page.
- **HOL 5-3 Creating an Interactive Grid**: In this hands-on lab, you use the Create Page wizard and add an interactive grid page in the Budget App application.
- **HOL 5-4 Creating a Faceted Search Page**: In this hands-on lab, you create and use a Faceted Search Page.

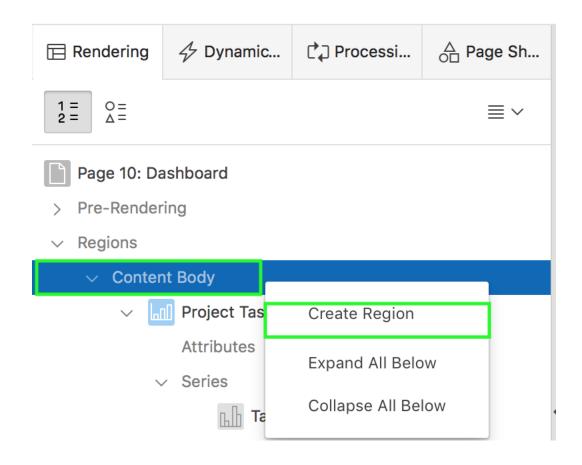
HOL 5-1 Creating a Classic Report

In the Demo Projects application, you create a report that allows each Team Member to see their outstanding tasks.

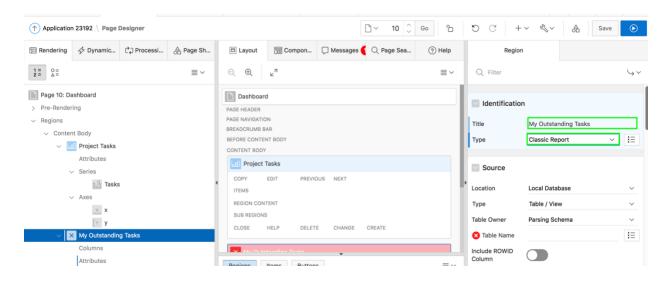
1. View the Dashboard page in page designer. If you are on the Dashboard page, then click **Edit Page** <*n*> in the Developer Toolbar.



2. In the Rendering tree, right-click Content Body and select Create Region.



3. In the property editor, under Identification, enter **My Outstanding Tasks** for Title. Select **Classic Report** for Type.

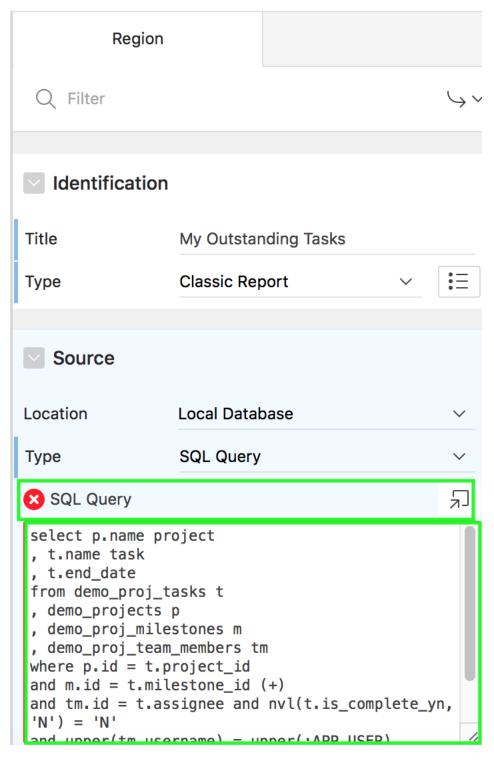


4. In the property editor, under Source, select **SQL Query** for Type. Then, copy and paste the following code for SQL Query.

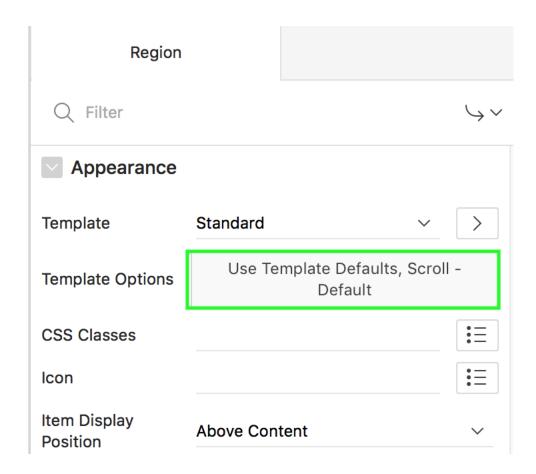
4

```
select p.name project
, t.name task
, t.end_date
from demo_proj_tasks t
, demo_projects p
, demo_proj_milestones m
, demo_proj_team_members tm
where p.id = t.project_id
and m.id = t.milestone_id (+)
and tm.id = t.assignee and nvl(t.is_complete_yn, 'N') = 'N'
and upper(tm.username) = upper(:APP_USER)
order by t.end_date
```

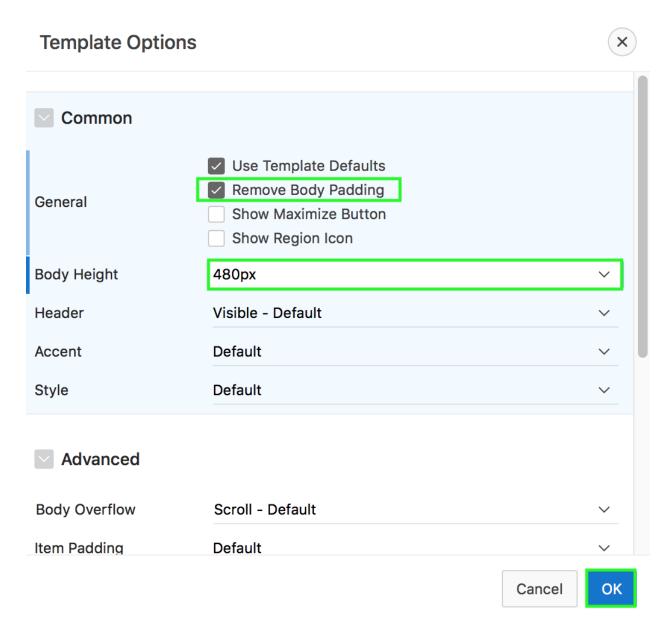
Note: The where condition of username = :APP_USER restricts the records to those assigned to the person running the application.



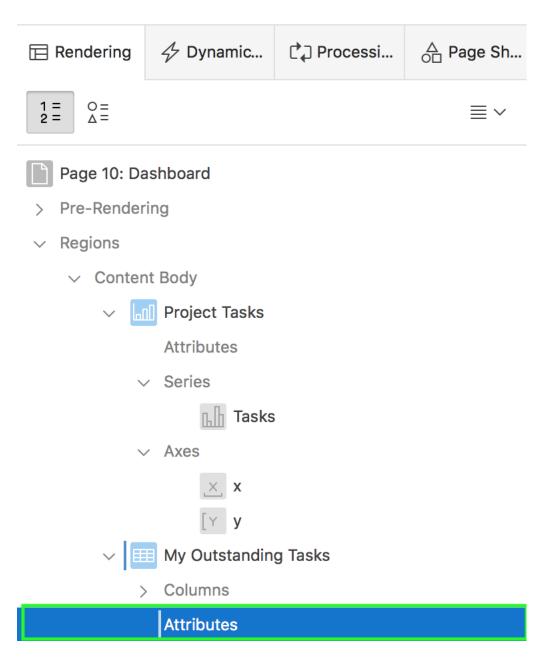
5. In the Property Editor, locate Appearance > Template Options and click **Use Template Defaults, Scroll - Default.**



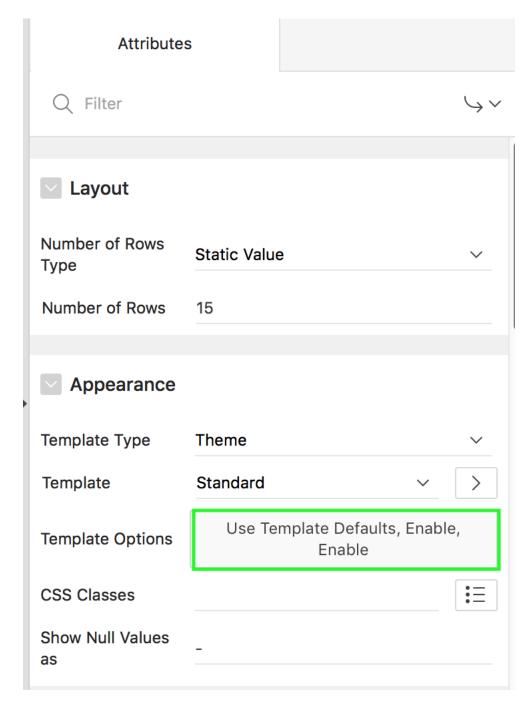
6. For General, enable Remove Body Padding, and for Body Height select 480px. Click OK.



7. Locate the Rendering tree. Under the My Outstanding Tasks region, click **Attributes**.

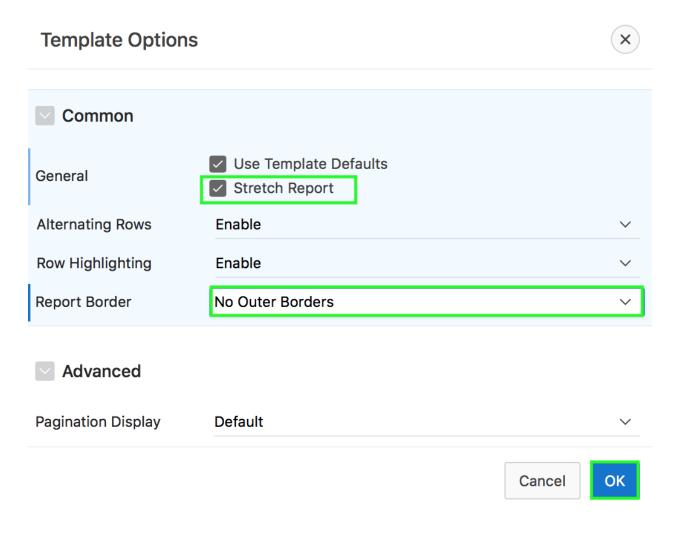


8. In the Property Editor, under Attributes, locate Appearance > Template Options and click **Use Template Defaults, Enable.**

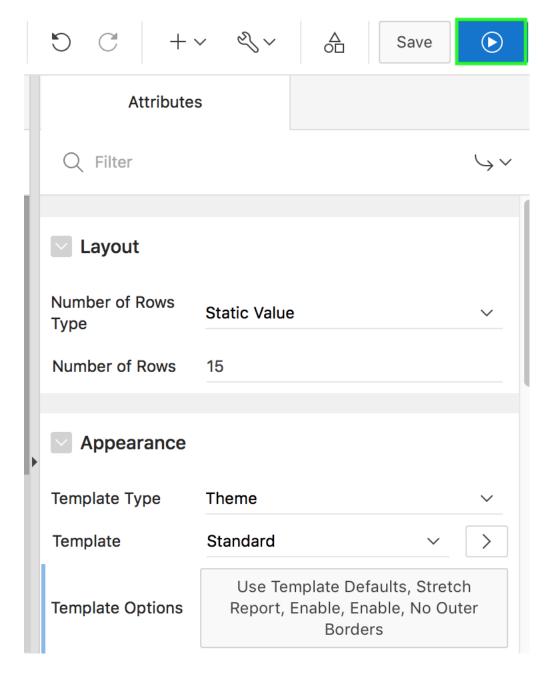


9. For General, enable **Stretch Report**, and for Report Border, select **No Outer Borders**. Click **OK**.

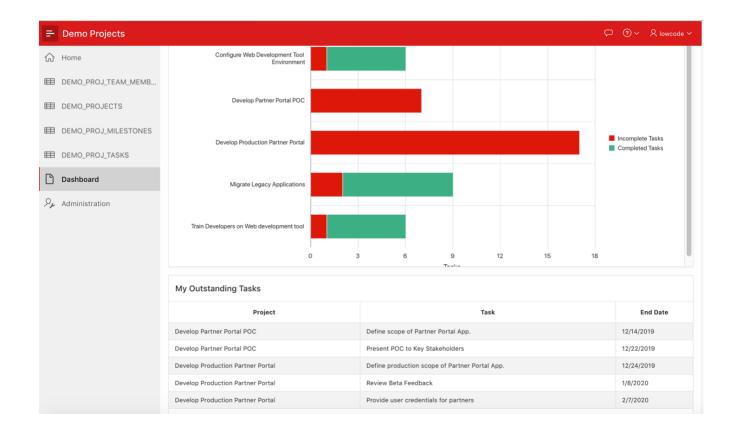
Note: Region Template Options (such as Body Height, Header, Style and so on) alter the overall presentation of a region. However, Attribute Template Options (such as Stretch Report, Row Highlighting and so on) alter the way the records within a region display.



10. Run the application to see how the Home page looks now. Click Save and Run Page.



11. Your Dashboard page might look like:

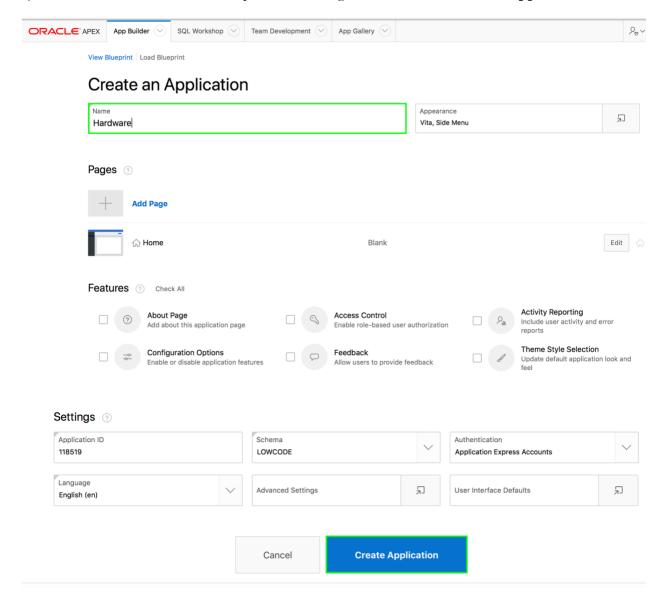


12. In the Developer Toolbar, click **Home**.

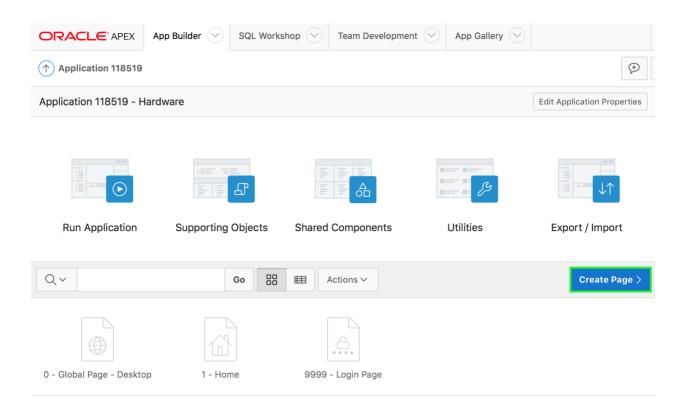
HOL 5-2 Creating an Interactive Report

In this lab, you create an interactive report on the HARDWARE table. You created this table in HOL 2-2. First, you create a database application and then you create the interactive report page.

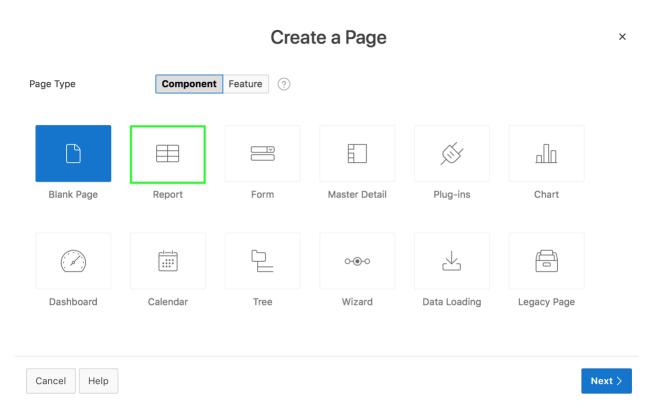
- 1. Create a database application. Perform the following steps:
 - a) Navigate to App Builder. Click Create.
 - b) Click **New Application**.
 - c) Enter Hardware for Name, accept the remaining defaults and click Create Application.



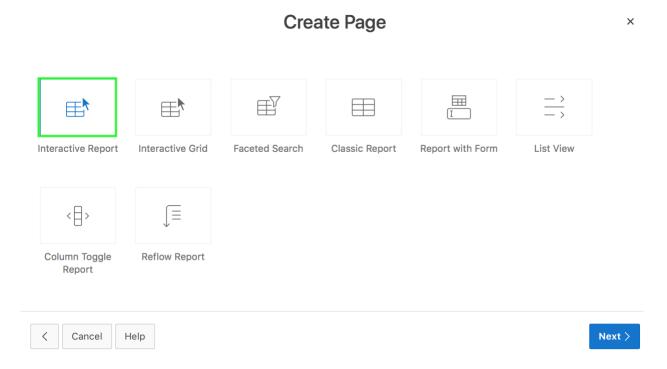
2. Now, create an interactive report on the HARDWARE table. On the application home page, click **Create Page**.



3. For Page Type, select **Report**.

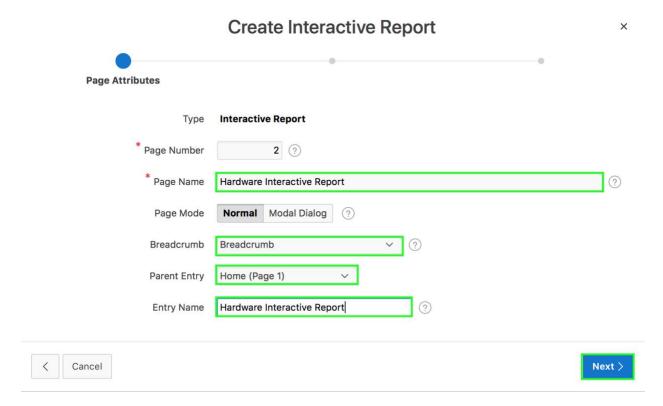


4. Next, select **Interactive Report**.



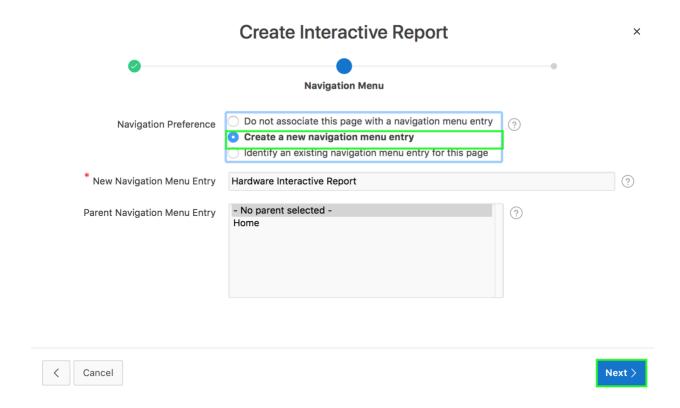
- 5. For Page Attributes:
 - Page Name: Enter Hardware Interactive Report
 - Breadcrumb: Select **Breadcrumb**
 - Parent Entry: Home(Page1)
 - Entry Name: Enter Hardware Interactive Report

Click Next.

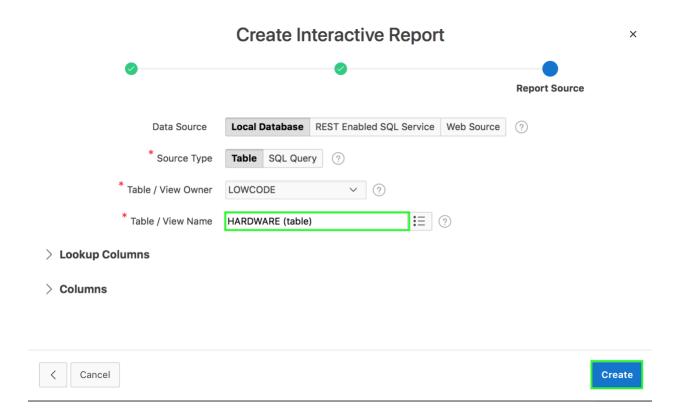


- 6. For Navigation Menu:
 - Navigation Preference: Select Create a new navigation menu entry
 - Parent Navigation Menu Entry: Home

Click Next.

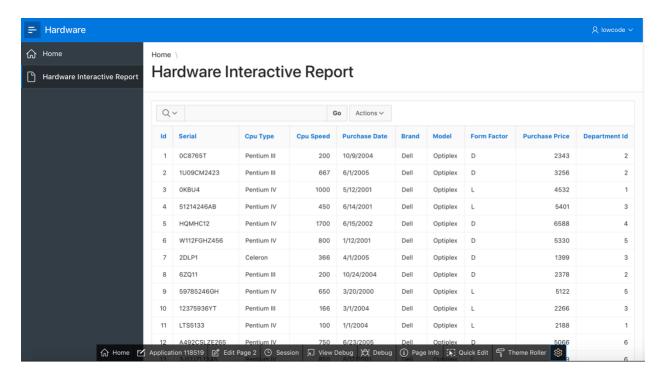


7. For Report Source > Table / View Name, select **HARDWARE(table)** and click **Create**.



8. Click Save and Run Page.

Enter your Workspace username and password. Click **Sign In**. Your interactive report might look like:

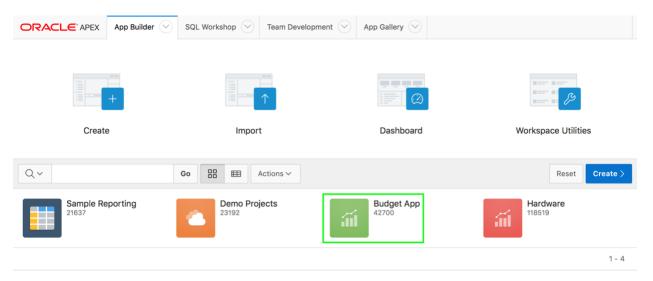


9. In the Developer Toolbar, click **Home**.

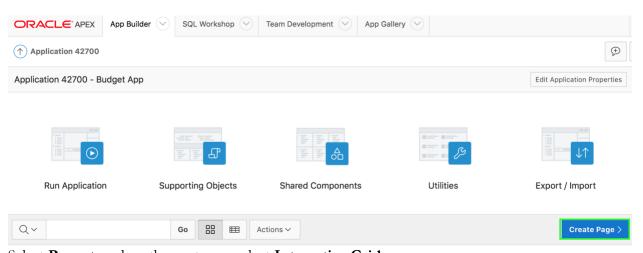
HOL 5-3 Creating an Interactive Grid

In this lab, you create an interactive grid on the PROJECT_BUDGET table. You already created the Budget App application in HOL 3-2. Now, you create an interactive grid in the Budget App application.

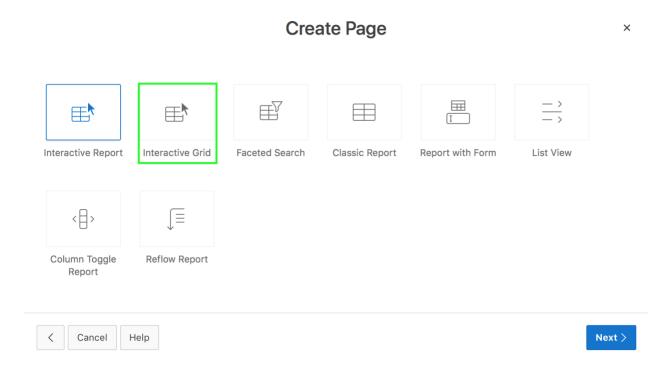
1. Navigate to **App Builder**. Select **Budget App**. If you are in the View Report mode, select **Budget App** under Name.



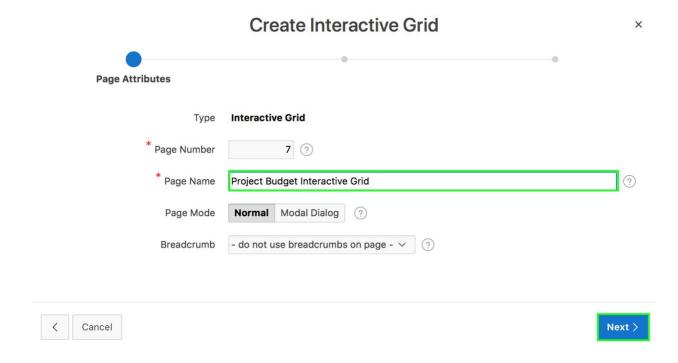
2. Click Create Page.



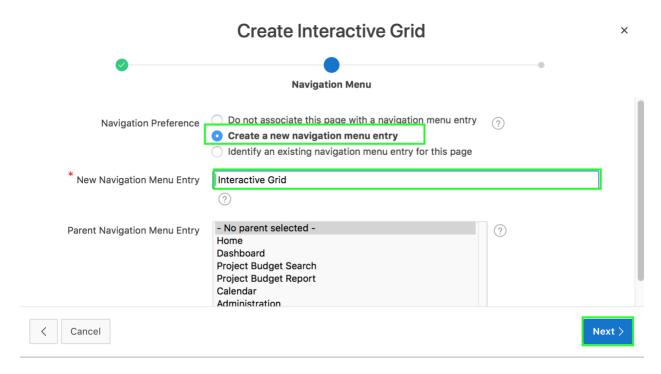
3. Select **Report**, and on the next page select **Interactive Grid**.



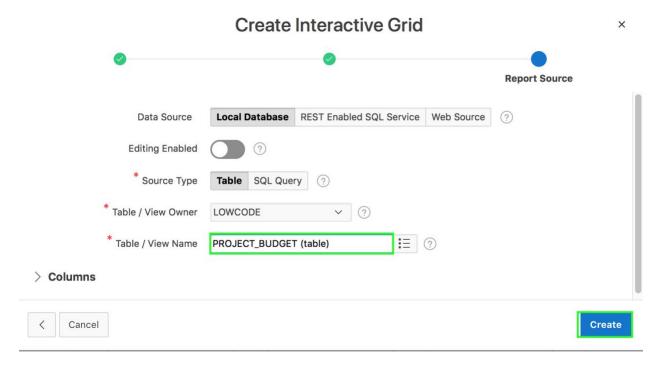
4. For Page Attributes, Enter Project Budget Interactive Grid for Page Name and click Next.



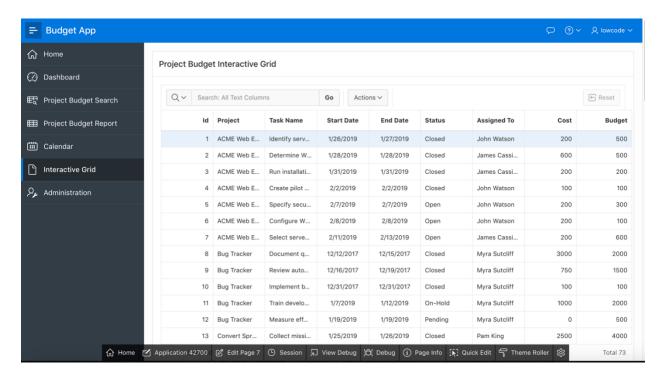
- 5. For Navigation Menu:
 - Navigation Preference: Select Create a new navigation menu entry
 - New Navigation Menu Entry: Enter Interactive Grid Click Next.



6. In the Report Source dialog, note that you can set the Editing Enabled to either enabled or not. In this lab, you accept the default, which is not enabled.
Select Project_Budget for Table / View Name and click Create.



7. Click **Save and Run Page**. Log in using the Workspace username and password. The interactive grid displays. Your screen might look like:

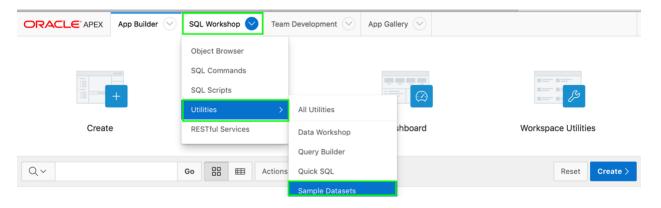


8. In the Developer Toolbar, click **Home**.

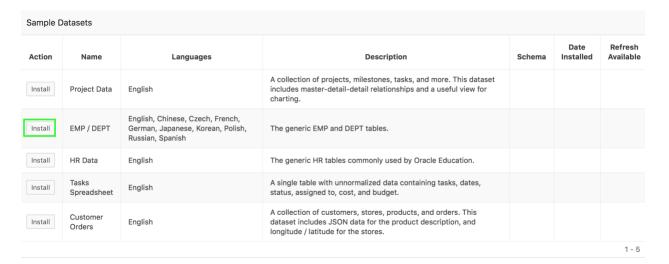
HOL 5-4 Creating a Faceted Search Page

In this lab, you create an application by loading the sample EMP / DEPT data. The application includes a faceted search page. You review this report and perform some filtering of the data. Later, you edit the page and modify the facet properties.

1. Navigate to your Workspace home page. Navigate to **SQL Workshop > Utilities > Sample Datasets**.

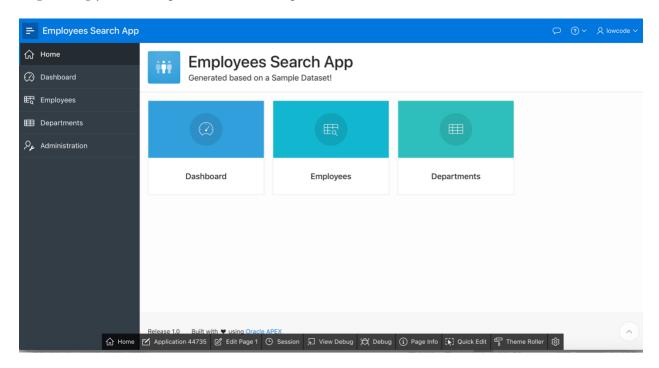


2. Click Install for EMP / DEPT. This installs the generic EMP and DEPT tables

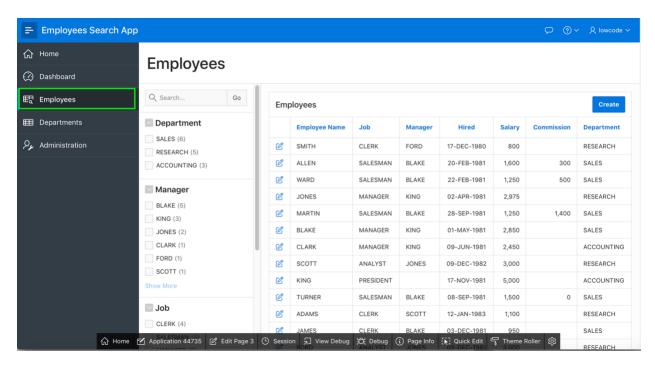


- 3. Click **Next**.
- 4. Click **Install Dataset**.
- 5. Click **Create Application**.
- 6. Enter **Employees Search App** for Name. Click **Create Application**.
- 7. The application is now successfully created. Click **Run Application**.

8. Login using your Workspace username and password.

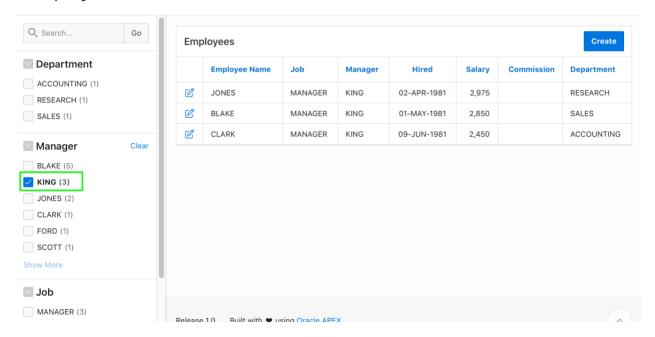


9. In the left navigation menu, click Employees. The faceted search page is displayed.



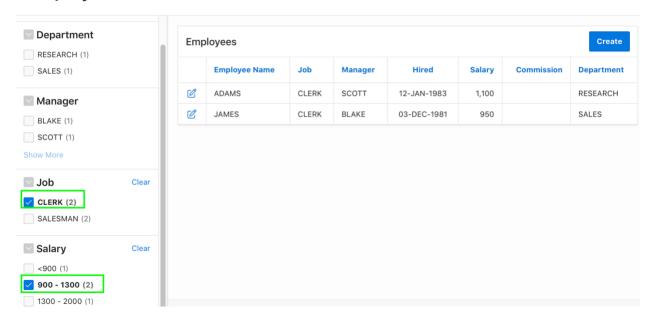
10. Under Manager, select the **King** checkbox. Notice that the report is filtered and refreshed. Notice that based on this selection, values for other facets are also adjusted.

Employees



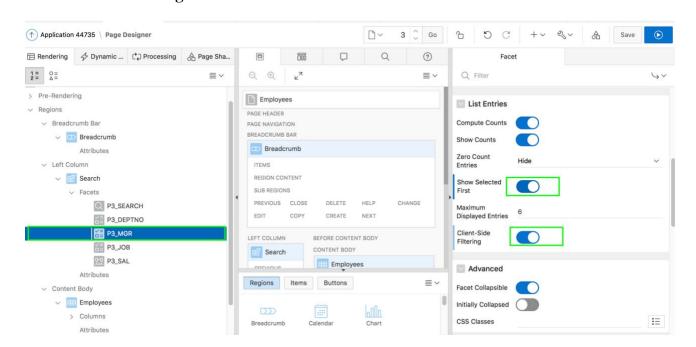
- 11. Click **Clear** to remove the filter.
- 12. Now, under Job, select **CLERK**. Then, under Salary, select **900 1300**. Notice that the report is filtered and refreshed.



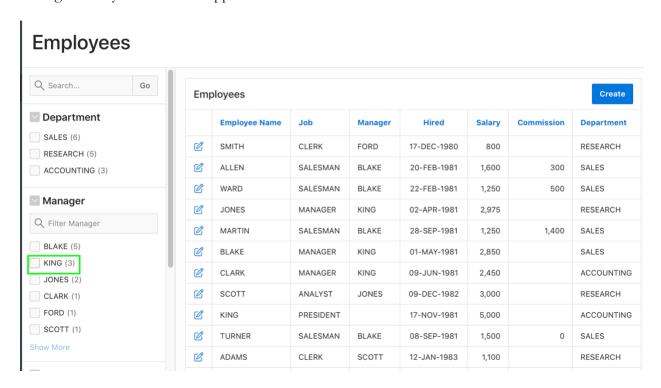


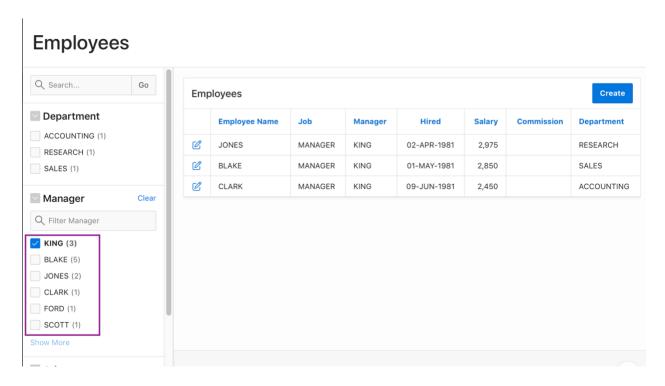
- 13. Click Clear for both Salary and Job.
- 14. In the Developer Toolbar, click Edit Page 3.

- 15. Under Rendering, expand Facets and select **P3_MGR**.
- 16. In the property editor, navigate to List Entries and click to enable Client-side Filtering and Show Selected First.
 Click Save and Run Page.

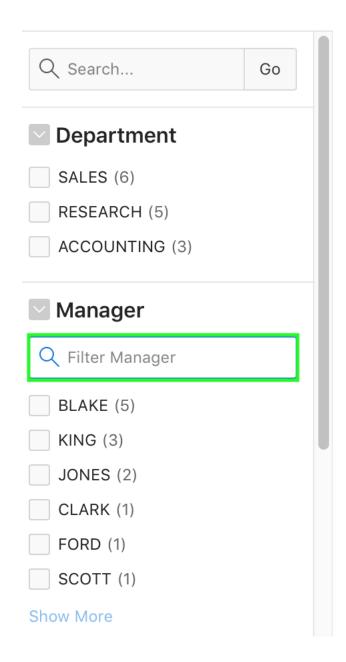


17. Under Manager, select **KING**. Notice that the report is filtered and refreshed. Also, under the Manager facet you see KING appears first.

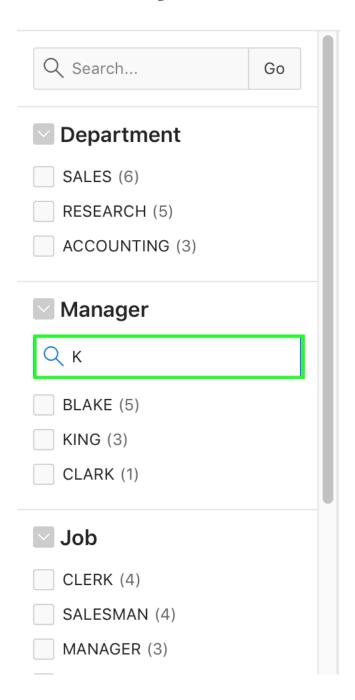




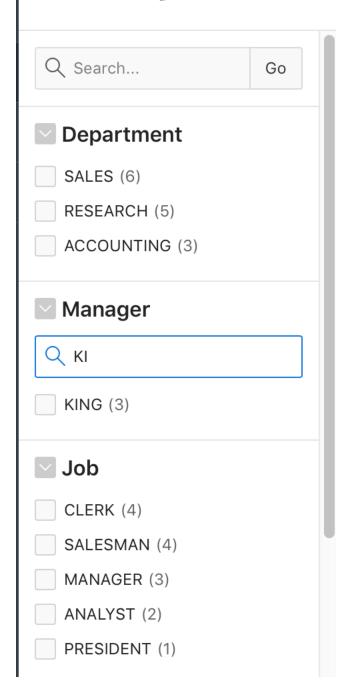
- 18. Click **Clear** for Manager.
- 19. Under Manager, enter K in the Filter Manager box. Notice that the facets' values are updated. Then enter I and see that the values are further refreshed.



Employees

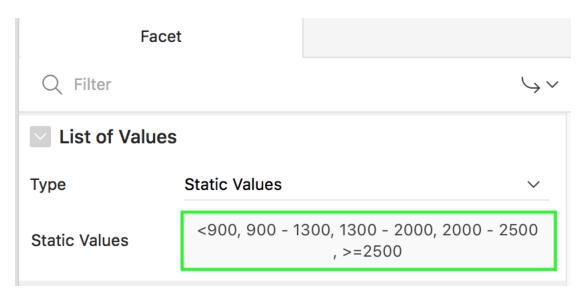


Employees

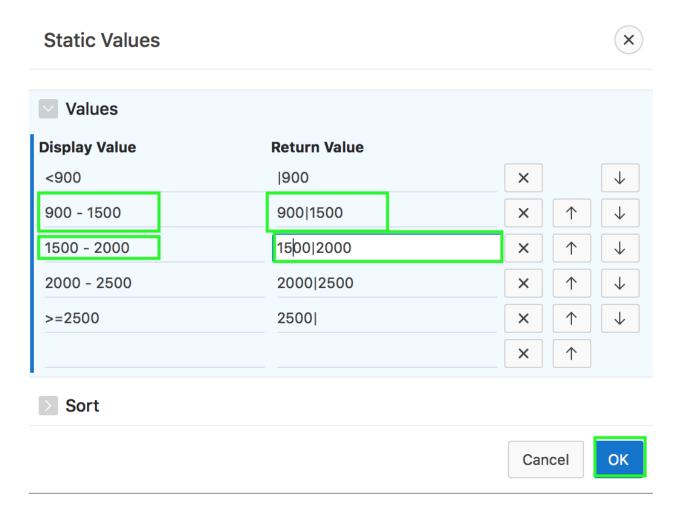


- 20. Clear the Filter Manager text box.
- 21. In the Developer Toolbar, click Edit Page 3.
- 22. Under Rendering, expand Facets and select P3_SAL.

23. In the property editor, navigate to List of Values and click Static Values.

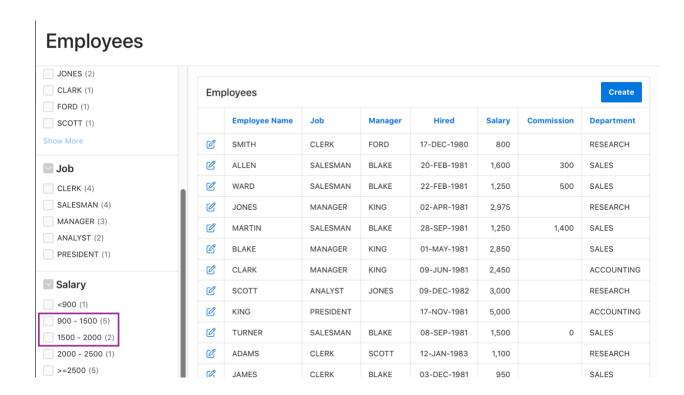


- 24. In the Static Values dialog, adjust the display and return values and click **OK**.
 - Display Value: 900 1500; Return Value: 900 | 1500
 - Display Value: 1500 2000; Return Value: 1500 | 2000



25. Click Save and Run Page.

26. In the report page, scroll down to Salary facet. Notice that the range values are now updated.







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