



Oracle Application Express: Developing Database Web Applications

Hands-On-Labs Guide

Unit 4: Managing Pages in Page Designer

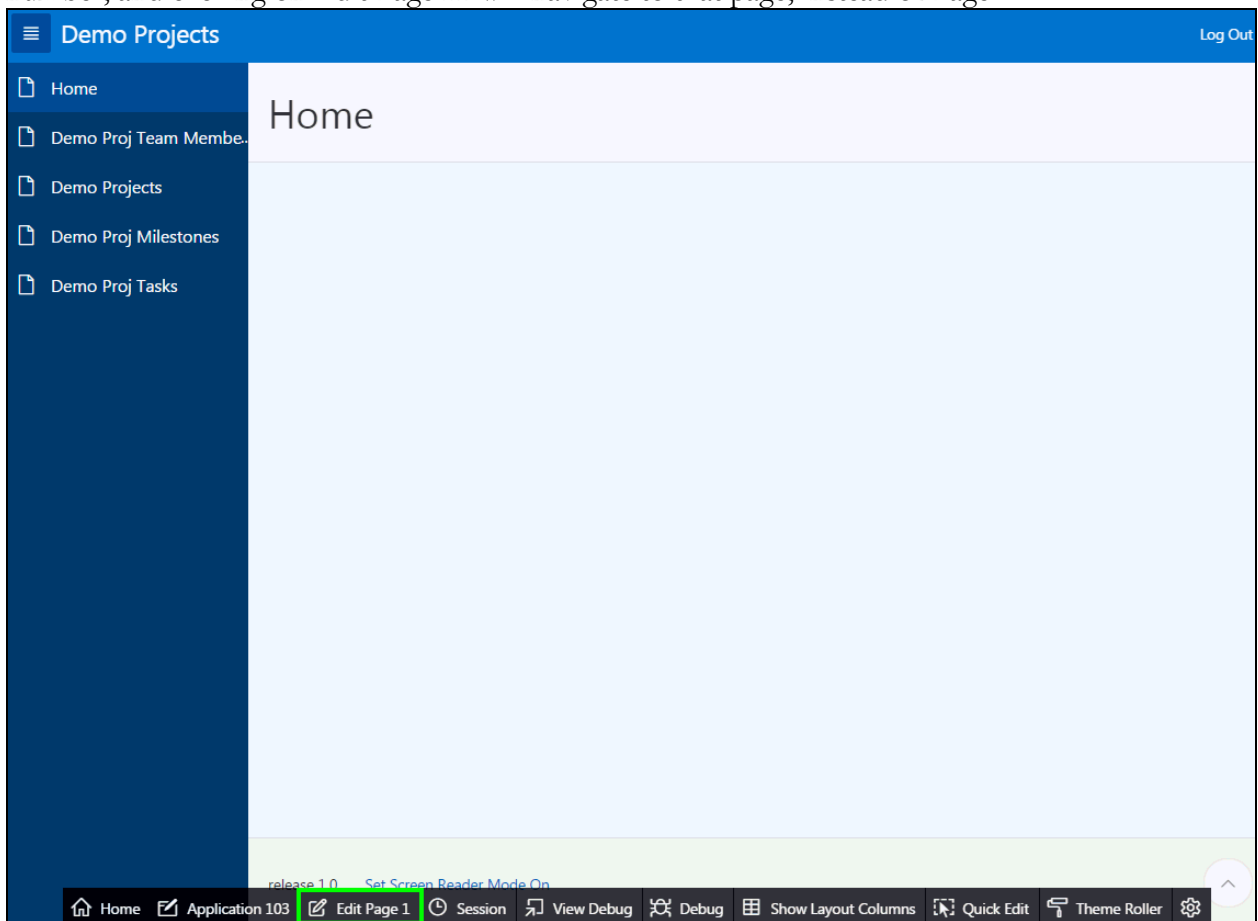
In this lab, you create a dashboard by adding a new component to the Home page of the Demo Projects application. You open the home page in page designer, navigate through and review the page designer panes, add a chart region and edit the chart attributes.

1. In the lab **HOL 3-1**, you finished by running the application. Given that you ran the application from the Application Builder, there is a Developer Toolbar at the bottom of the screen. This toolbar allows developers to quickly navigate between runtime and various sections within the Application Builder.

Navigate to the **Home** page in the runtime application.

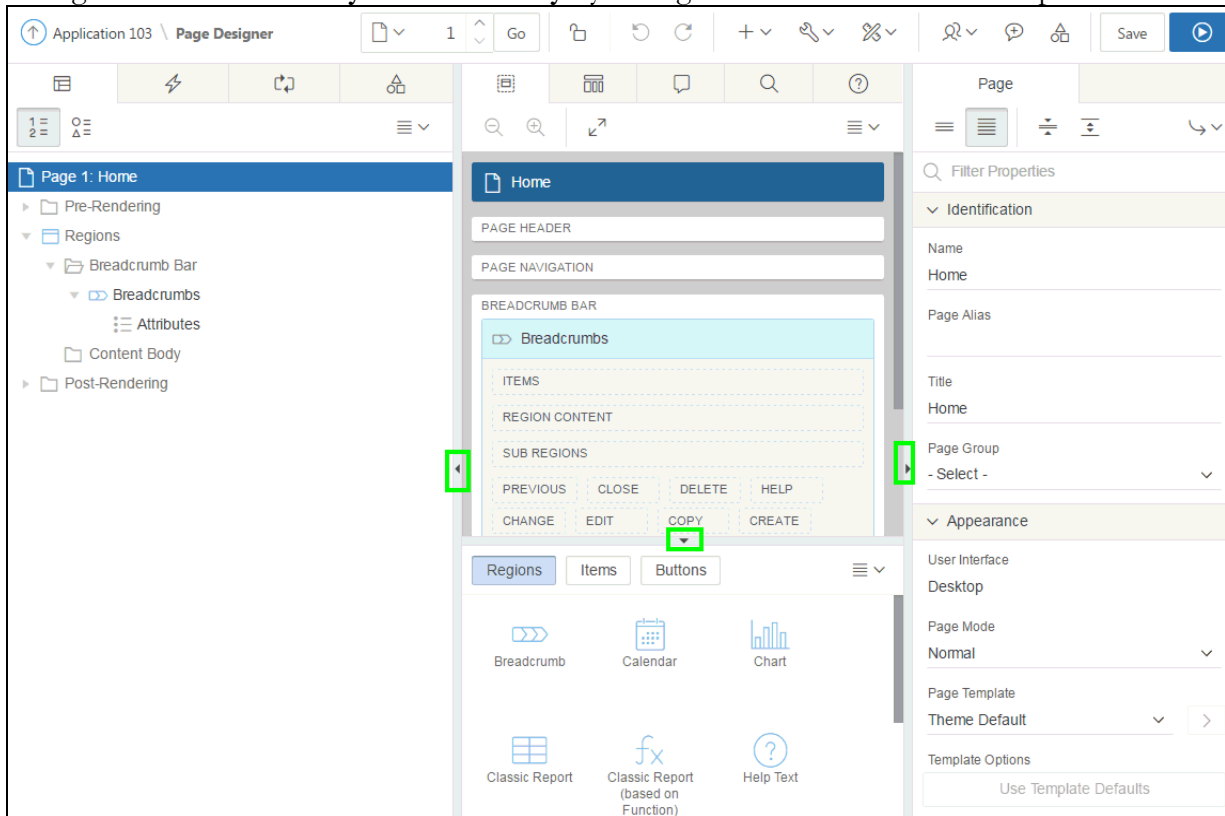
In the Developer Toolbar, click **Edit Page 1**.

Note: If you are not on the Home page then the Developer Toolbar will show the current page number, and clicking on Edit Page xx will navigate to that page, instead of Page 1.

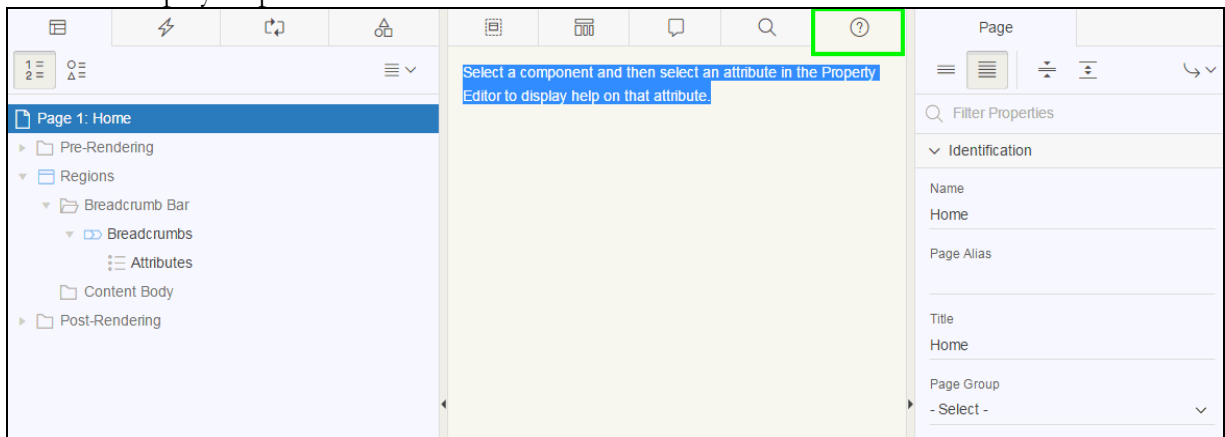


2. The Page Designer is displayed for Page 1. There are three main panes within Page Designer: Left Pane, Central Pane, and Right Pane.
You can change the size of each pane by selecting the dividers and sliding them left or right.

Change the size of **Grid Layout** and **Gallery** by sliding the divider between them up and down.

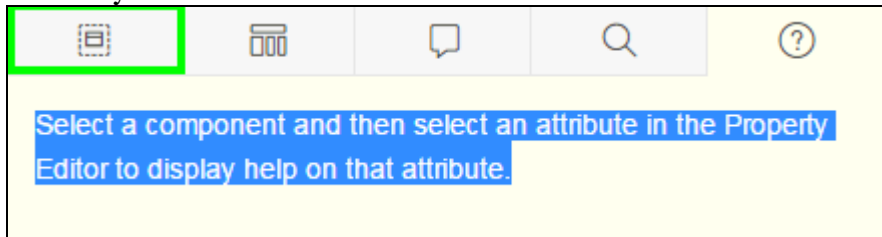


3. In the Page Designer, you can invoke help on any attribute by clicking Help icon (shown as a question mark) on the toolbar. Select a component and then select an attribute in the Property Editor to display help on that attribute.

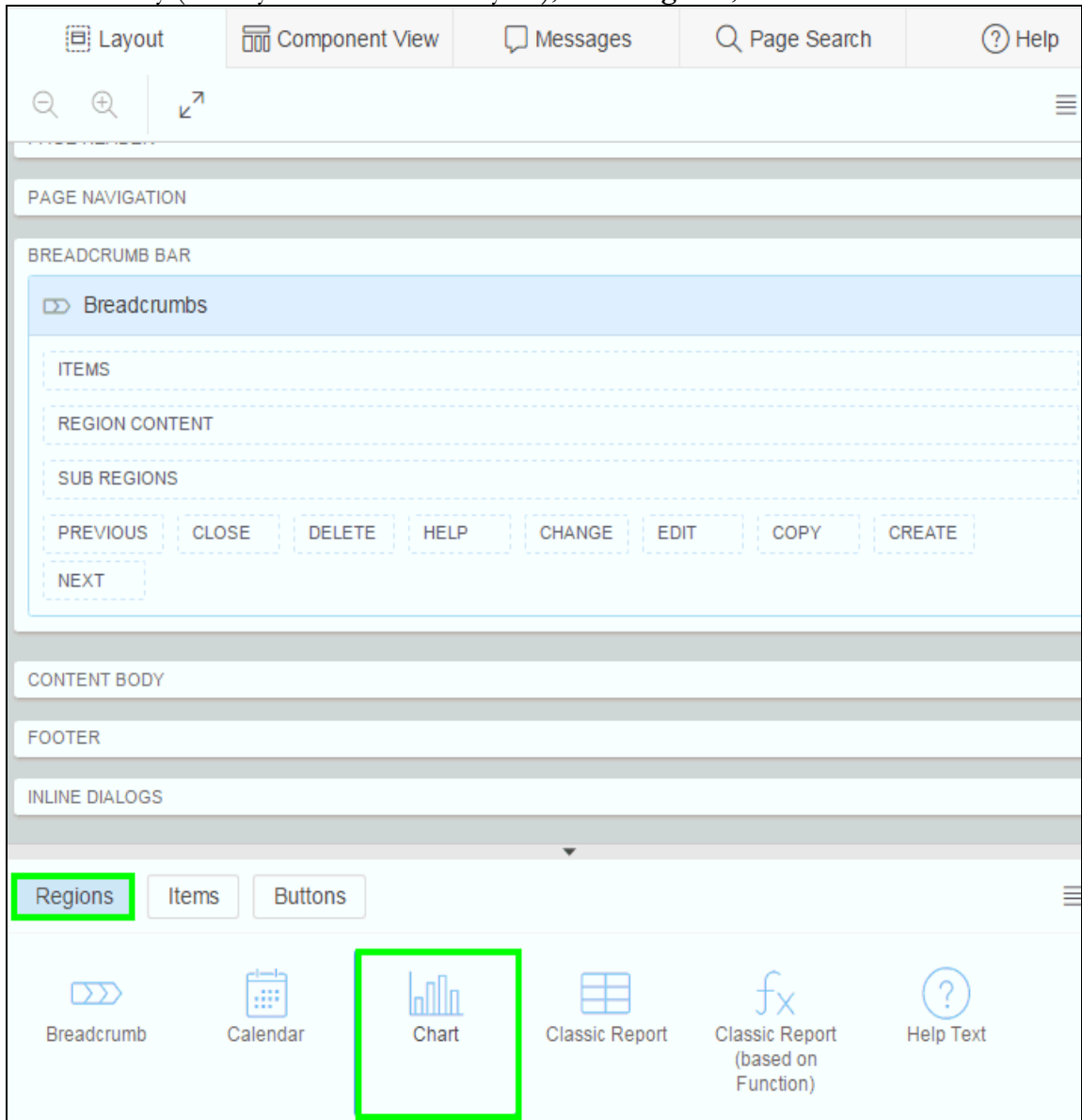


4. Add a bar chart using drag and drop. The chart shows projects with the number of tasks.

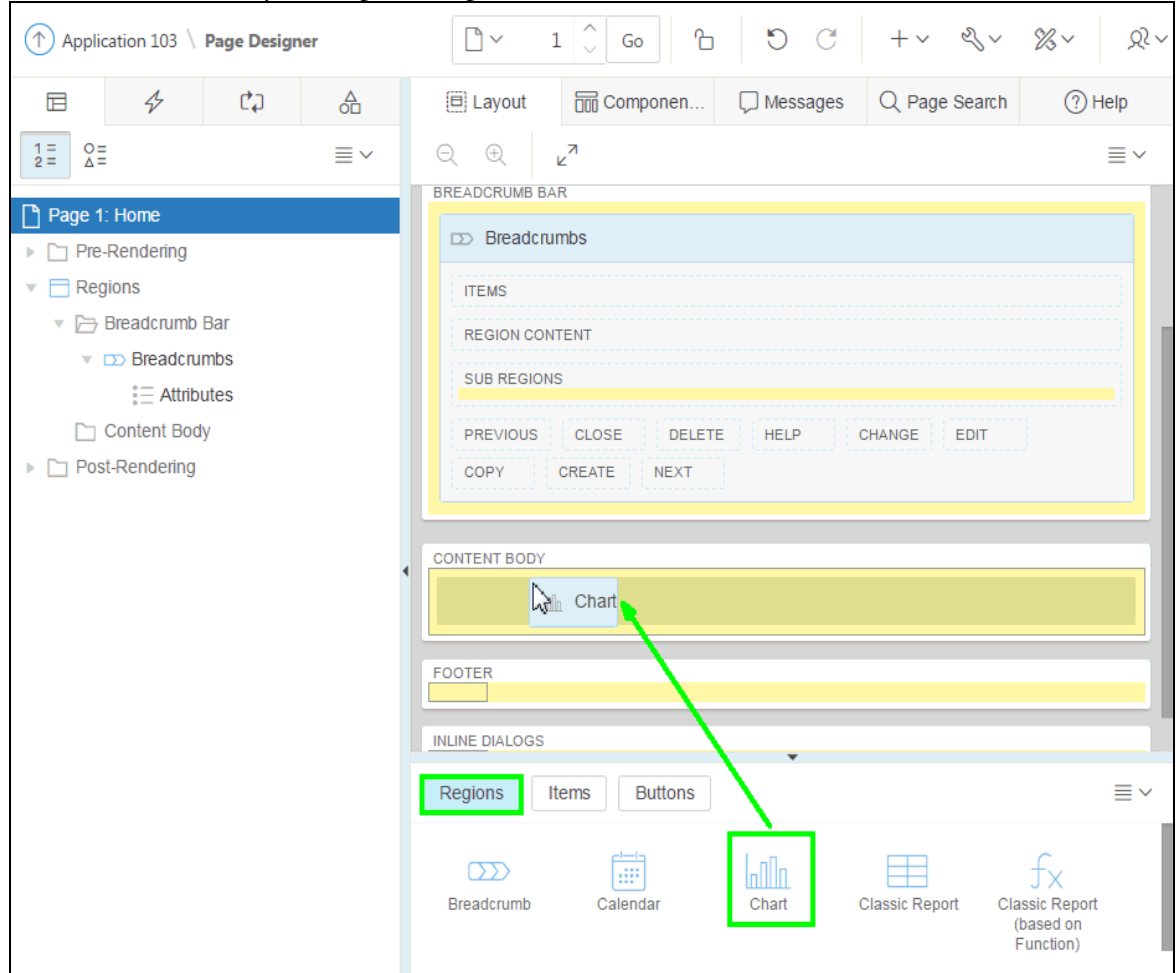
a) Click **Layout**.



b) In the Gallery (directly below the Grid Layout), click **Regions**, and locate **Chart**.

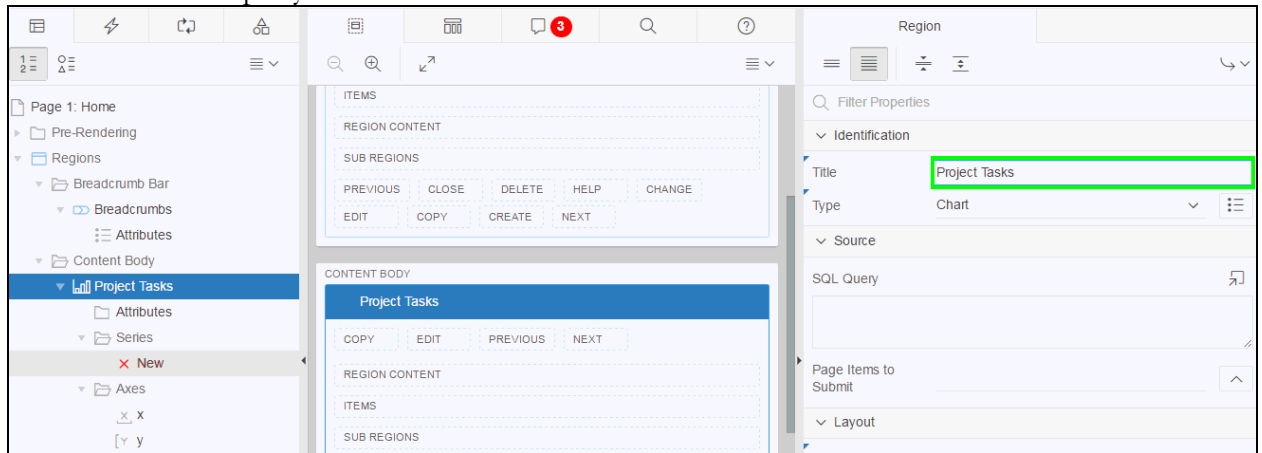


- c) Click and hold **Chart** and drag it to the **Content Body** region. It should appear as a darkened tile before you drop it into place.

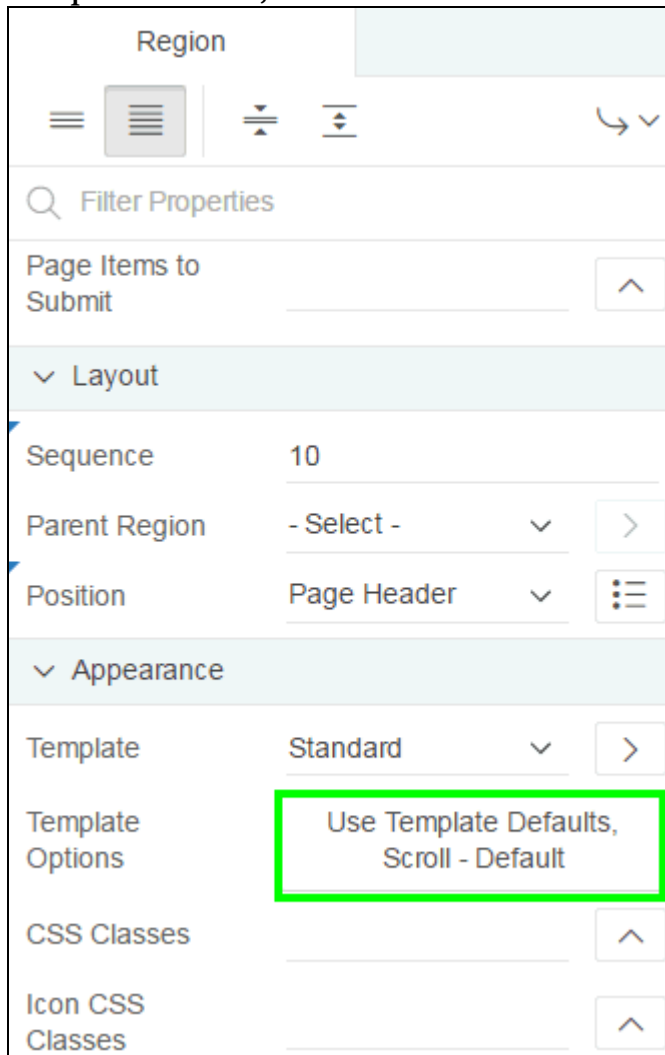


- Note:** When you drag the region up, and hover over the small yellow section, below Content Body, the yellow section will expand. A darker yellow section, with a black box around it, will indicate where the region will be placed.
- d) Now you modify the properties for a region, such as the Title and Template Options. When you first create a region, it is created with default properties, such as a Title of **New**. Use the Property Editor to edit attributes for the currently selected component. In the **Property Editor**, under Identification, for Title - enter **Project Tasks**. **Note:** The region name in the Rendering tree (left pane) and the Grid Layout (central pane) are updated to reflect the new title, as soon as you navigate out of the Title

attribute in the Property Editor.



- e) In the Property Editor, under **Appearance**, locate **Template Options** and click **Use Template Defaults, Scroll - Default**.



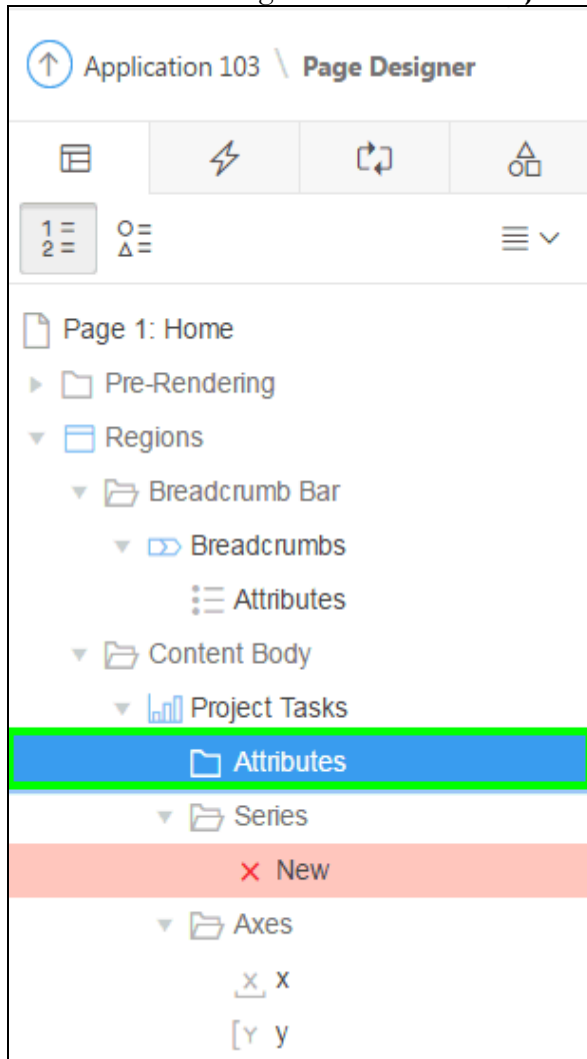
- f) For Body Height select **480px**.

Click **OK**.

Template Options	
Common	
General	<input checked="" type="checkbox"/> Use Template Defaults
	<input type="checkbox"/> Remove Body Padding
	<input type="checkbox"/> Show Maximize Button
Body Height	480px
Header	Visible - Default
Accent	Default
Style	Default
Advanced	
Body Overflow	Scroll - Default
Item Padding	Default
Item Size	Default
Item Width	Default
Item Height	Default

- g) For certain region types, such as Charts, there are also Attribute properties. The region properties determine how the region is displayed, whereas, the Attributes for a region (where available) are used to define the characteristics of the region, and how the contents of the region are displayed.

Locate the Rendering tree. Under the **Project Tasks** region, click **Attributes**.



- h) In the Property Editor:
- Chart: Type - select **Bar**
 - Appearance: Orientation - select **Horizontal**
 - Appearance: Stack - select **Yes**

- Layout: Height - enter **480**

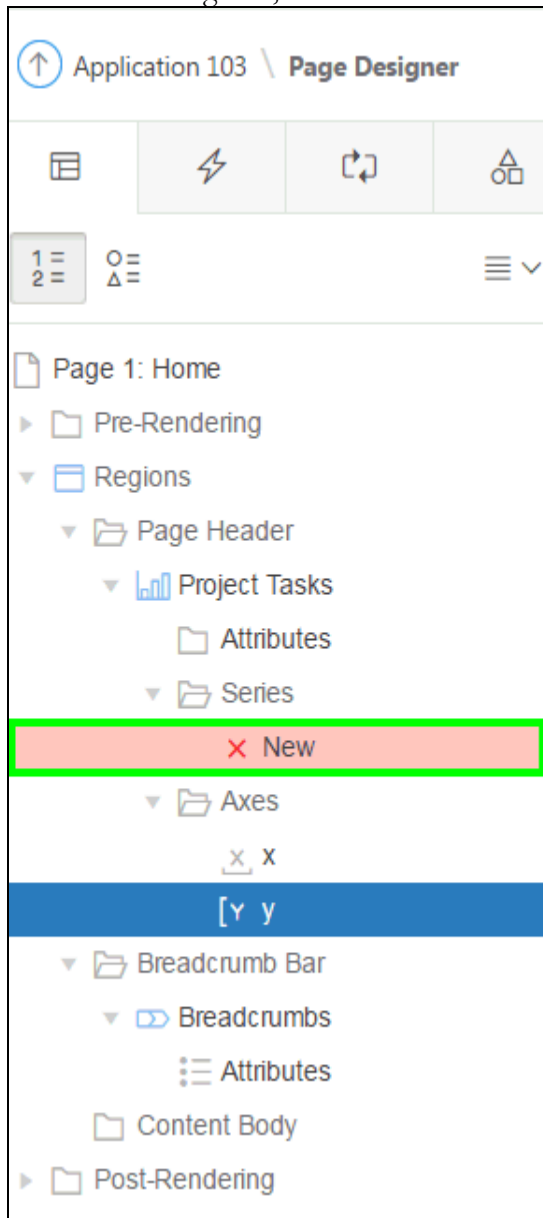
The screenshot shows the 'Attributes' property editor. The 'Type' dropdown is set to 'Bar'. The 'Orientation' dropdown is set to 'Horizontal'. The 'Stack' radio button is set to 'Yes'. The 'Height' text input field contains the value '480'. All four of these elements are enclosed in green rectangular boxes.

- i) Under Rendering > Project Tasks region, navigate to **Axes** and select **y**. In the property editor, enter **Tasks** for Title.

The screenshot shows the Oracle APEX interface. On the left, the 'Project Tasks' region is selected in the breadcrumb navigation. The 'Axis' property editor is open on the right, showing the 'Title' field set to 'Tasks', which is highlighted with a green box. The 'Name' field is set to 'y'.

- j) The DEMO_PROJ_TASKS table includes a column called IS_COMPLETE_YN. This column is populated by users to indicate that a task is complete. Next, enter chart series details for completed and incomplete tasks within a project.

In the Rendering tree, nested under the Project Tasks region, click Series **X New**.



k) In the property editor, under Identification > Name, enter **Tasks**.

- l) In the property editor, under Source, click the Code Editor icon.

The screenshot shows the 'Series' property editor. The 'Source' section is expanded, showing 'Type' set to 'SQL Query'. A green box highlights the Code Editor icon (a square with a right-pointing arrow) in the bottom right corner of the 'SQL Query' field.

- m) For SQL Query, copy and paste the following code and then click **OK**.

```
select p.id
, p.name as label
, (select count('x') from demo_proj_tasks t
where p.id = t.project_id
and nvl(t.is_complete_yn,'N') = 'Y'
) value
, 'Completed Tasks' series
, p.created
from demo_projects p
UNION ALL
select p.id
, p.name as label
, (select count('x') from demo_proj_tasks t
where p.id = t.project_id
and nvl(t.is_complete_yn,'N') = 'N'
) value
, 'Incomplete Tasks' series
, p.created
from demo_projects p
order by 5
```



```
Code Editor - SQL Query
1 select p.id
2 , p.name as label
3 , (select count('x') from demo_proj_tasks t
4 where p.id = t.project_id
5 and nvl(t.is_complete_yn,'N') = 'Y'
6 ) value
7 , 'Completed Tasks' series
8 , p.created
9 from demo_projects p
10 UNION ALL
11 select p.id
12 , p.name as label
13 , (select count('x') from demo_proj_tasks t
14 where p.id = t.project_id
15 and nvl(t.is_complete_yn,'N') = 'N'
16 ) value
Cancel OK
```

n) Under Column Mapping, select:

- Series Name: **SERIES**
- Label: **LABEL**
- Value: **VALUE**

Click **Save**. Then, click **Save and Run Page**.

The screenshot shows the Oracle APEX interface for editing a report. At the top, there is a toolbar with various icons and two buttons: "Save" (highlighted with a green border) and "Save and Run Page" (a blue button with a play icon, also highlighted with a green border). Below the toolbar is a "Series" section with a search icon and a "Filter Properties" section with a search icon. The "SQL Query" section contains the following SQL code:

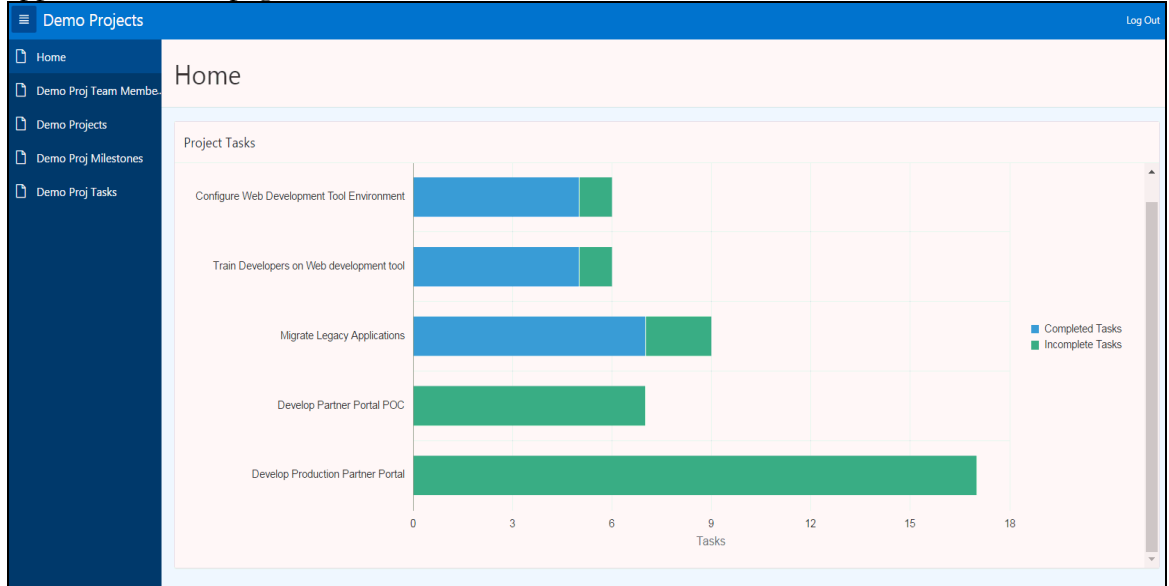
```
from demo_projects p
UNION ALL
select p.id
, p.name as label
, (select count('x') from demo_proj_tasks t
where p.id = t.project_id
and nvl(t.is_complete_yn, 'N') = 'N'
) value
, 'Incomplete Tasks' series
, p.created
from demo_projects p
order by 5
```

Below the SQL query is a "Page Items to Submit" section with a dropdown arrow. The "Column Mapping" section is expanded, showing three rows:

Series Name	SERIES
Label	LABEL
Value	VALUE

The "Series Name", "Label", and "Value" cells in the Column Mapping table are highlighted with green borders.

- o) You might have to log in using Workspace username and password. The Demo Projects application home page now looks like:





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