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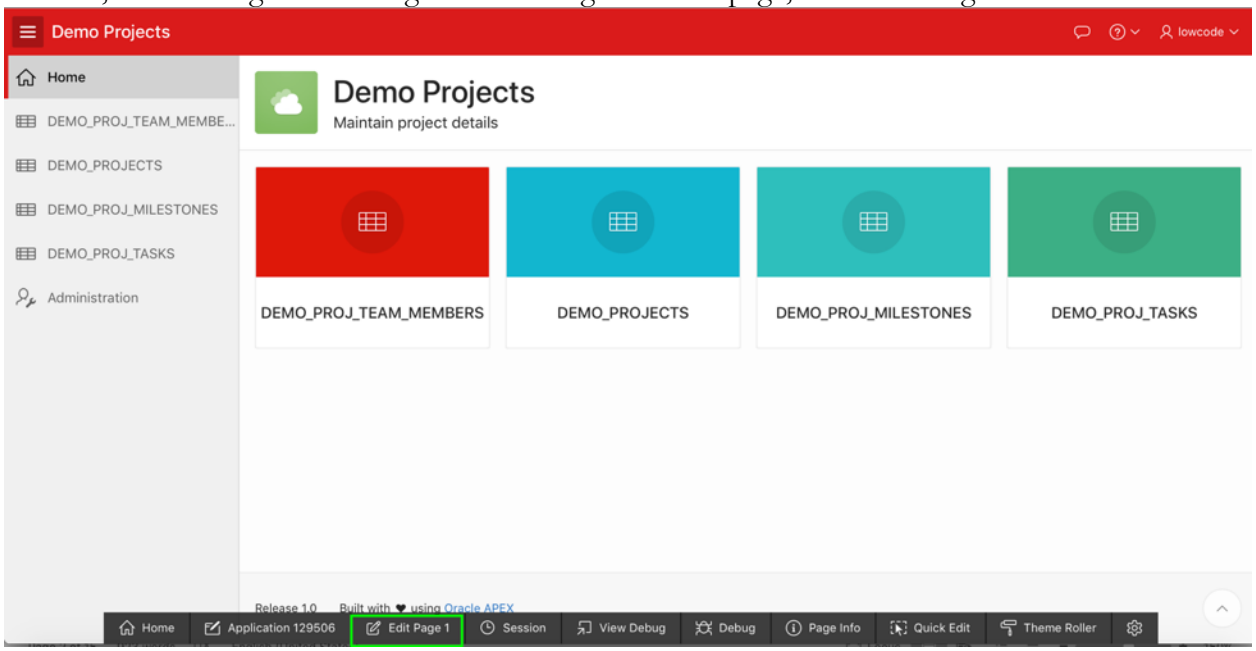
Oracle Application Express: Developing Database Web Applications

Hands-On-Labs Guide

Unit 4: Managing Pages in Page Designer

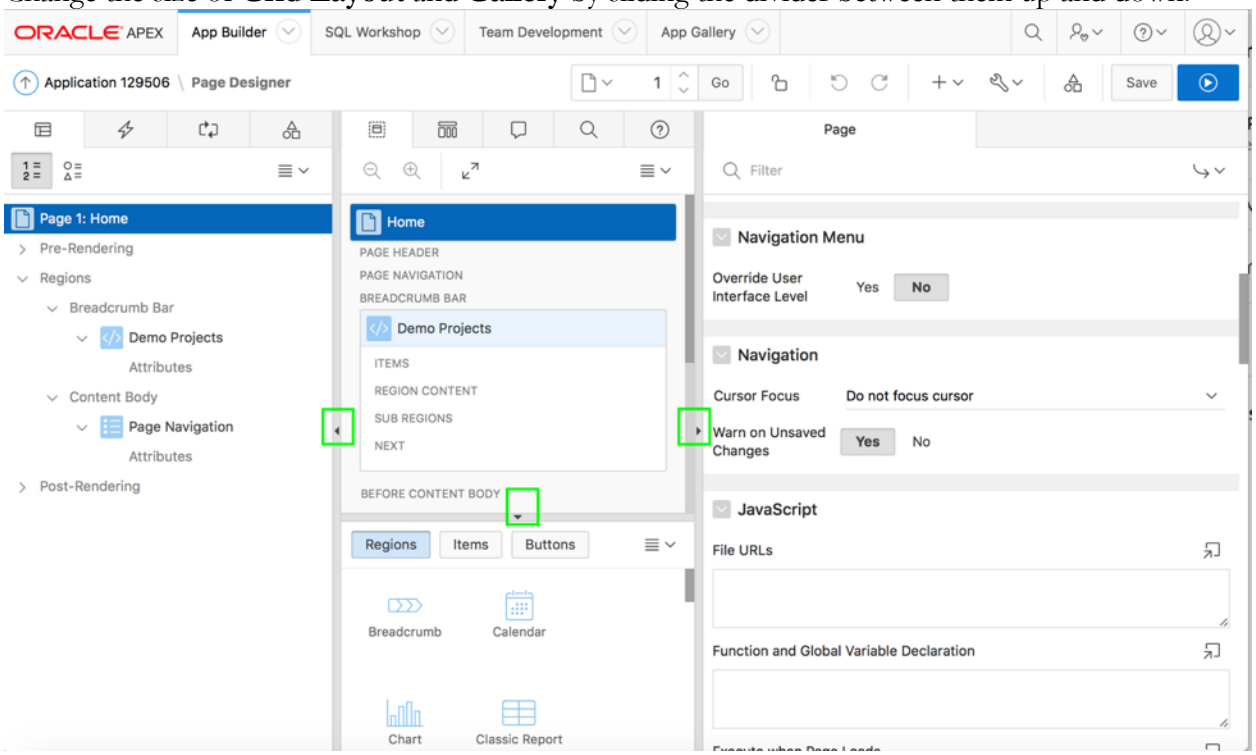
In this lab, you create a dashboard by adding a new component to the Home page of the Demo Projects application. You open the home page in page designer, navigate through and review the page designer panes, add a chart region and edit the chart attributes.

1. In the App Builder, run the Demo Projects Application. You are now in the application runtime environment.
   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.

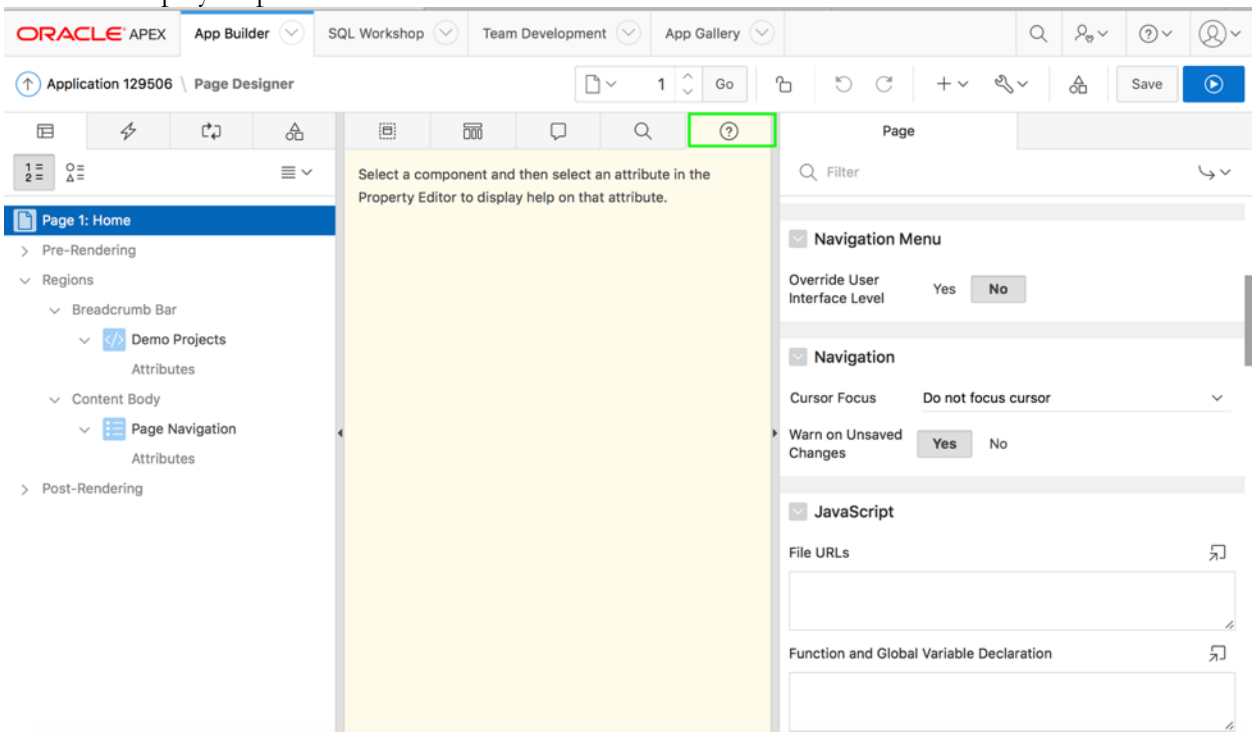


2. The Page Designer is displayed for Page 1. There are three main panes within Page Designer: Left Pane, Central Pane, and Right Pane.
   You can change the size of each pane by selecting the dividers and sliding them left or right.

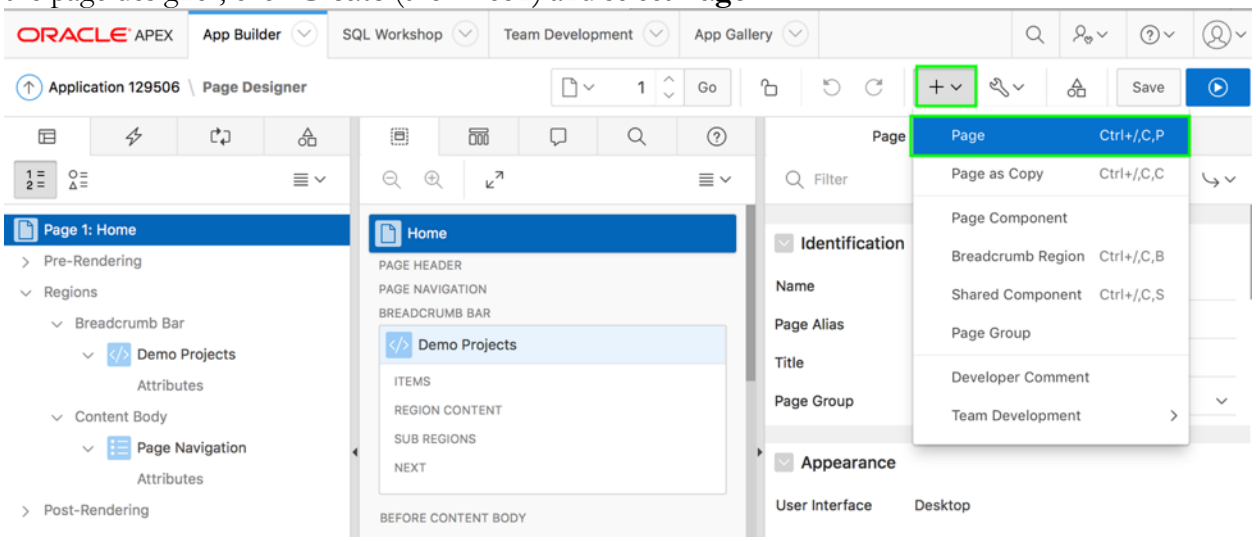
Change the size of **Grid Layout** and **Gallery** by sliding the divider between them up and down.



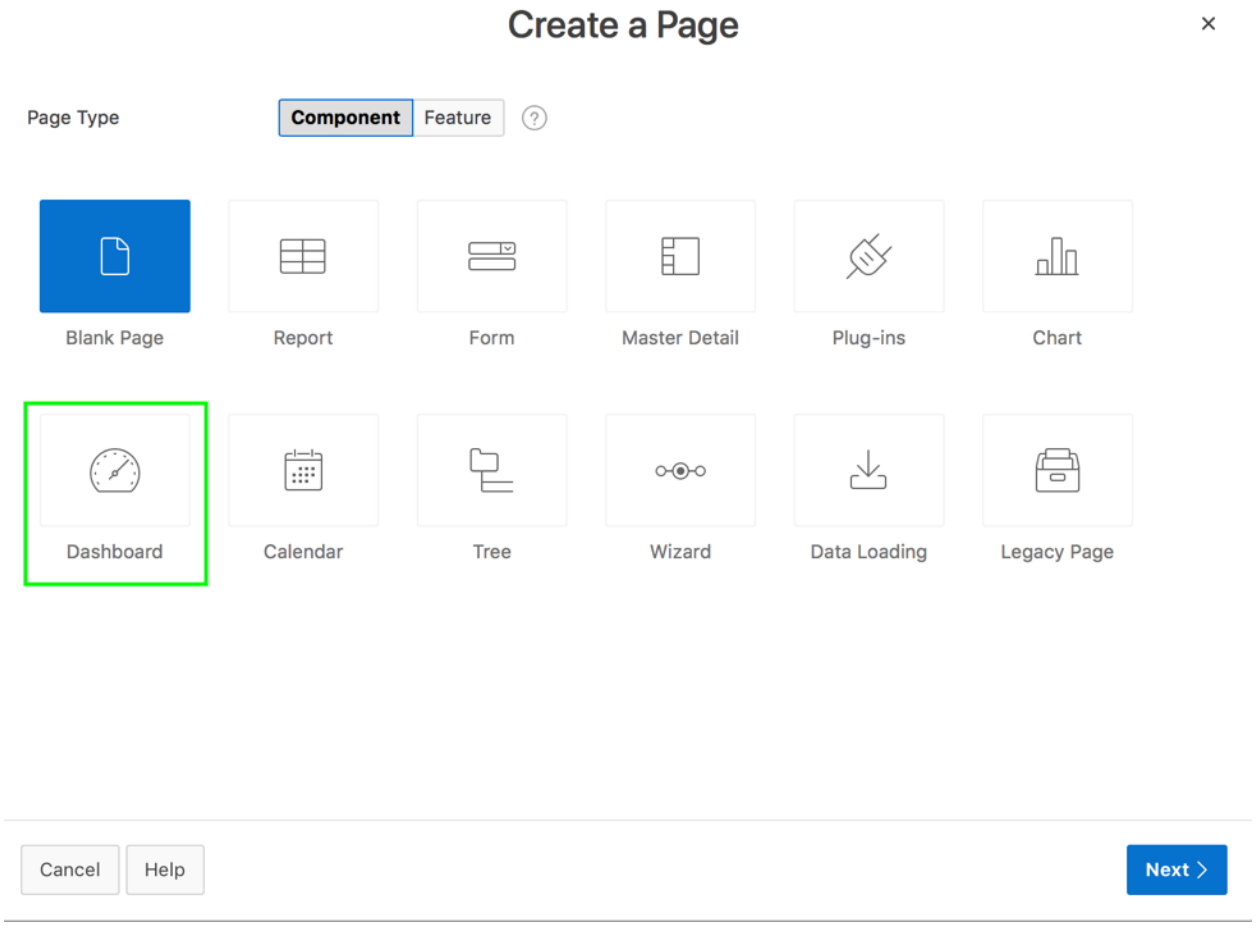
3. In the Page Designer, you can invoke help on any attribute by clicking Help icon (shown as a question mark) on the toolbar. Select a component and then select an attribute in the Property Editor to display help on that attribute.



4. Add a Dashboard page and include a bar chart that shows projects with the number of tasks. In the page designer, click **Create** (the **+** icon) and select **Page**.

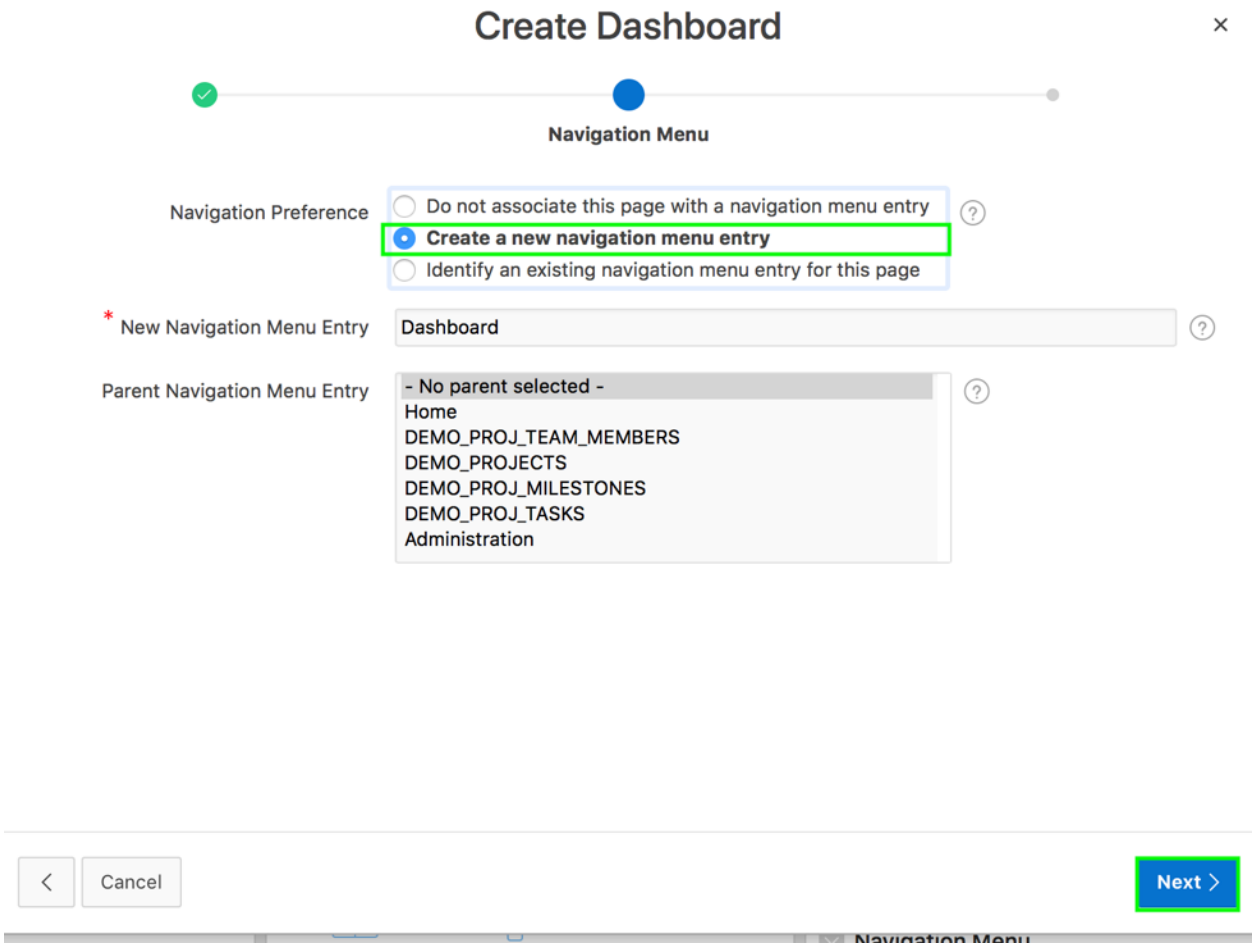


5. In the Create a Page dialog, click **Dashboard**.

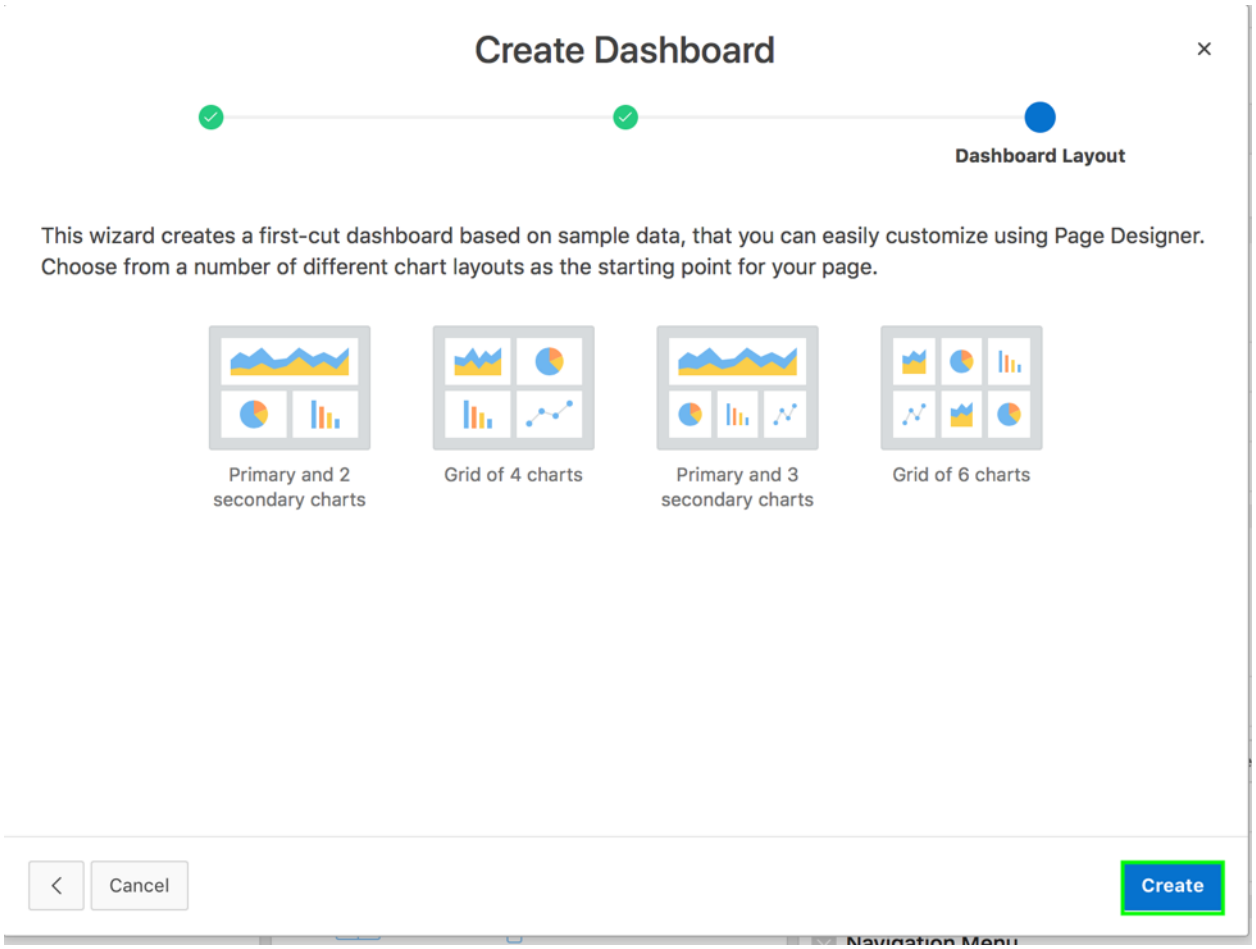


6. Enter **Dashboard** for Page Name, and click **Next**.

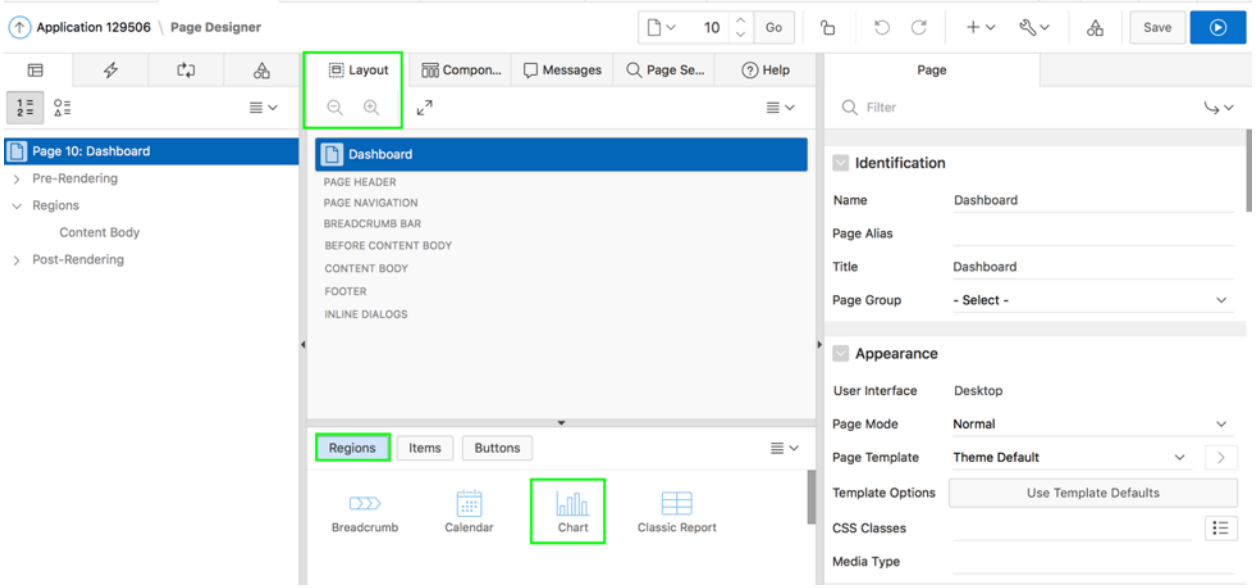
7. For Navigation Preference, select **Create a new navigation menu entry**. Click **Next**.



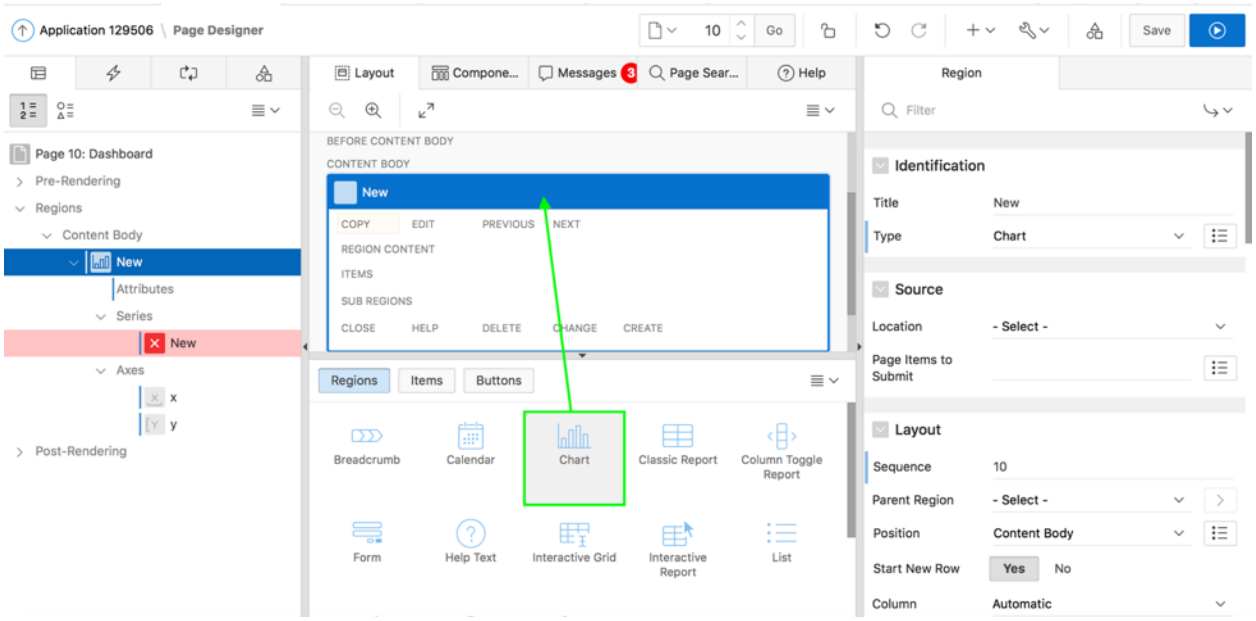
8. Click **Create**.



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

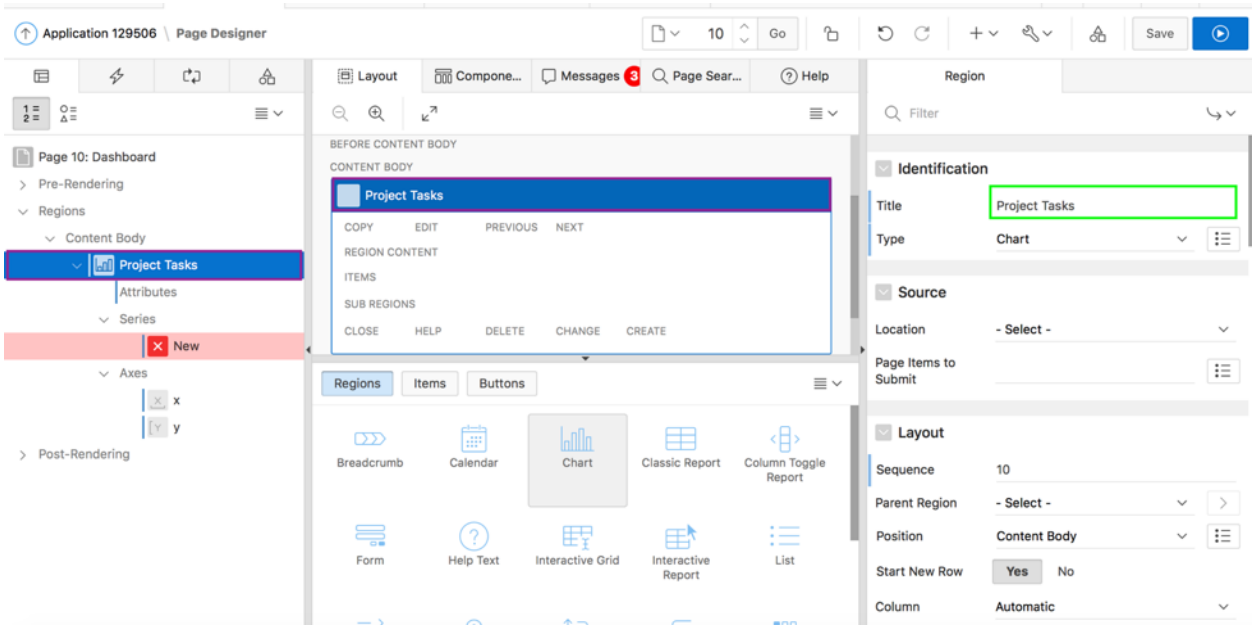


10. Click and hold **Chart** and drag it to the **Content Body** region. It should appear as a darkened tile before you drop it into place.
Note: When you drag the region up, and hover over the small yellow section, below Content Body, the yellow section will expand. A darker yellow section will indicate where the region will be placed.

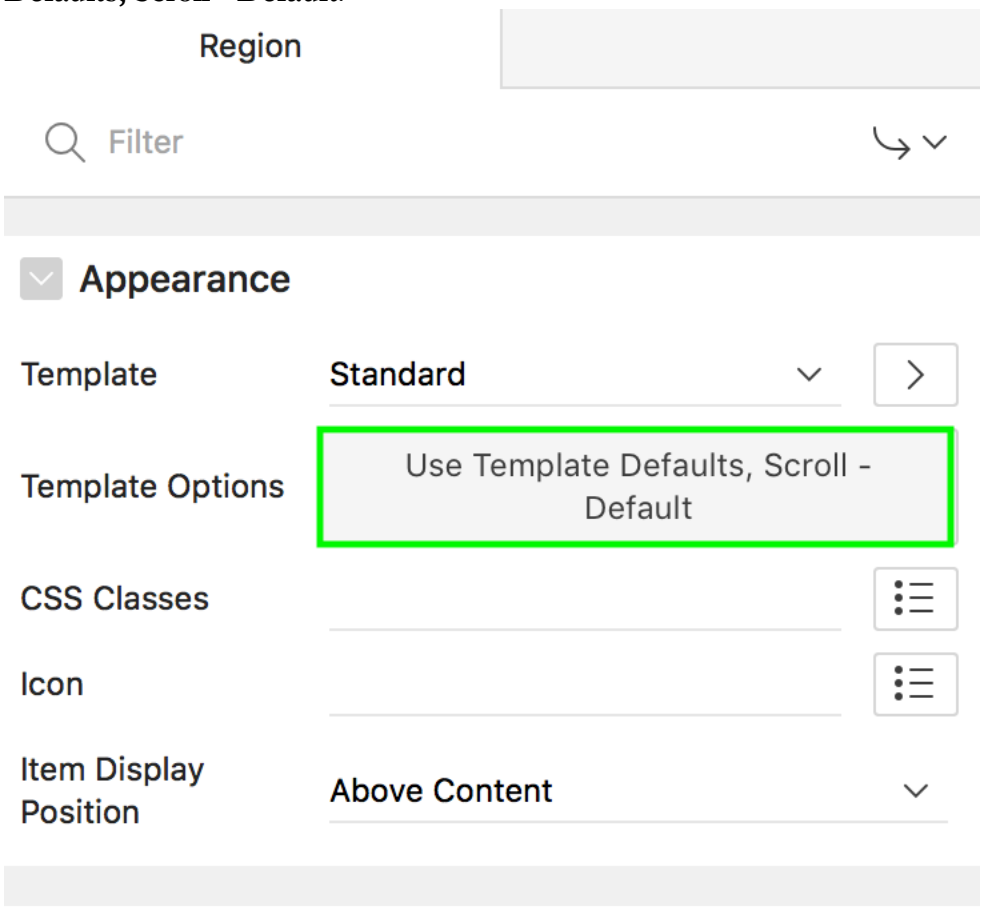


11. Now you modify the properties for a region, such as the Title and Template Options. When you first create a region, it is created with default properties, such as a Title of **New**.
Use the Property Editor to edit attributes for the currently selected component.

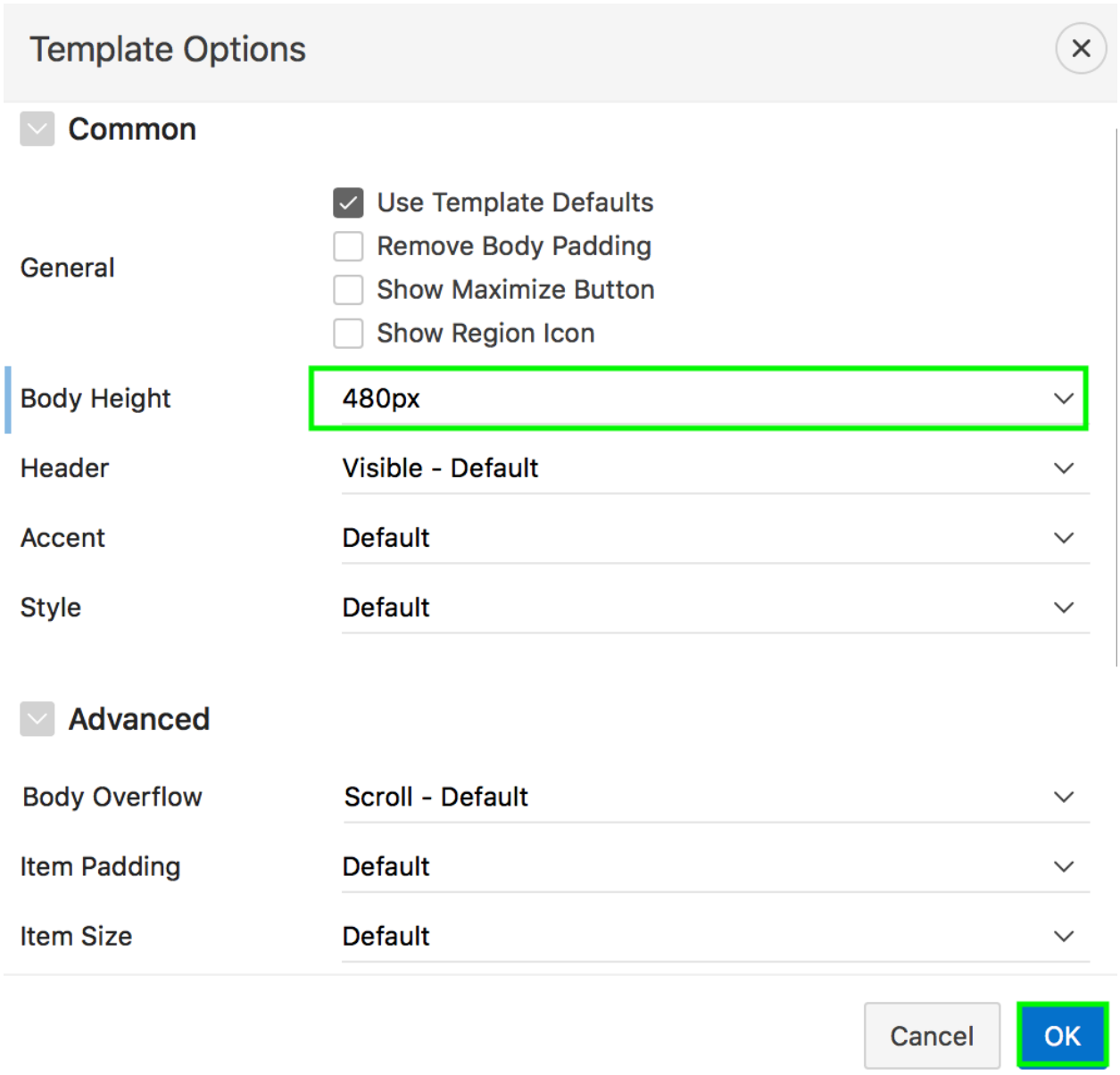
In the **Property Editor**, under Identification, for Title - enter **Project Tasks**.
Note: The region name in the Rendering tree (left pane) and the Grid Layout (central pane) are updated to reflect the new title, as soon as you navigate out of the Title attribute in the Property Editor.



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

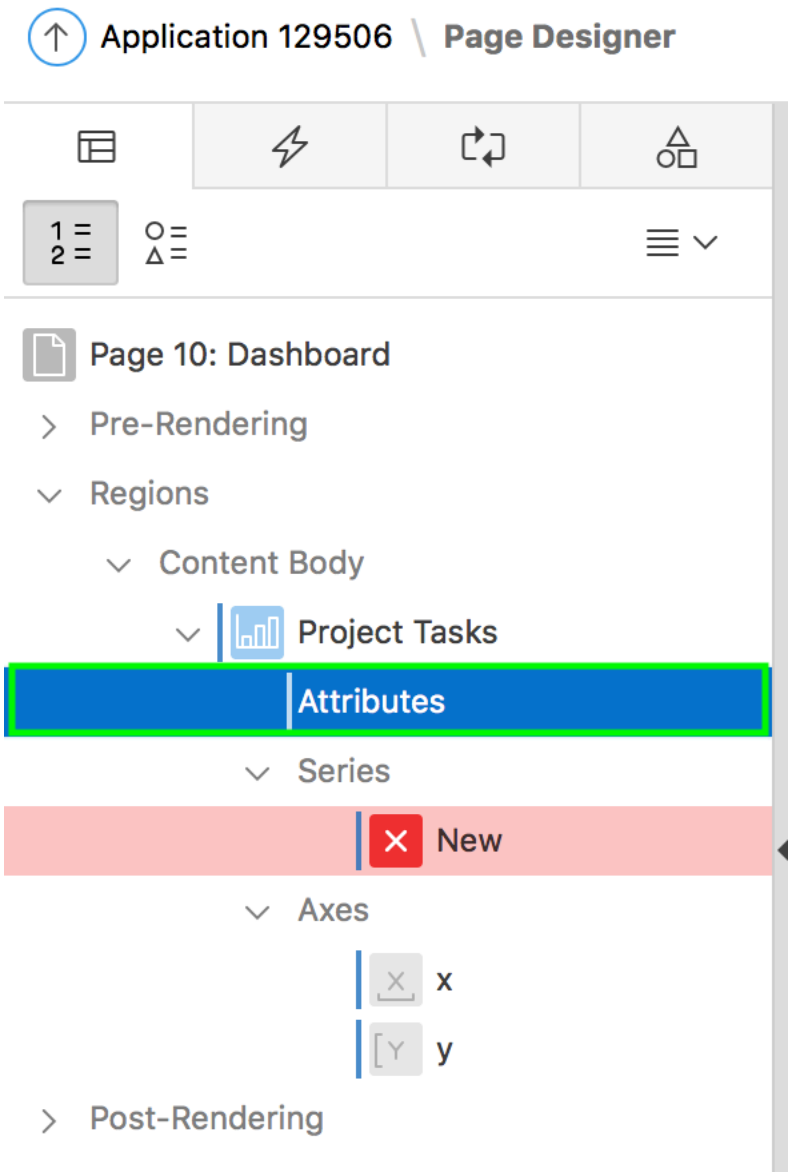


13. In the Template Options dialog, select **480px** for Body Height.
Click **OK**.

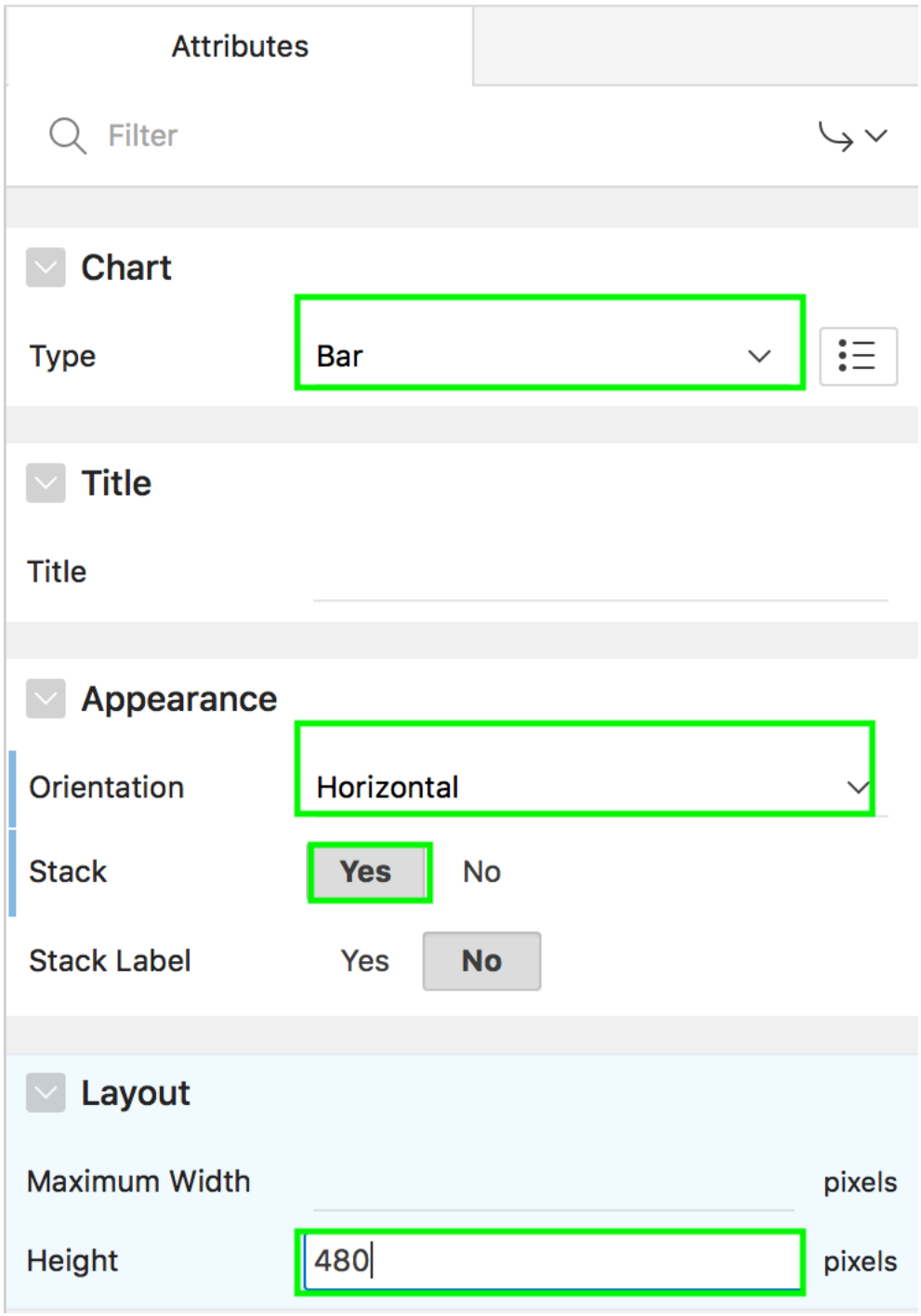


14. For certain region types, such as Charts, there are also Attribute properties. The region properties determine how the region is displayed, whereas, the Attributes for a region (where available) are used to define the characteristics of the region, and how the contents of the region are displayed.

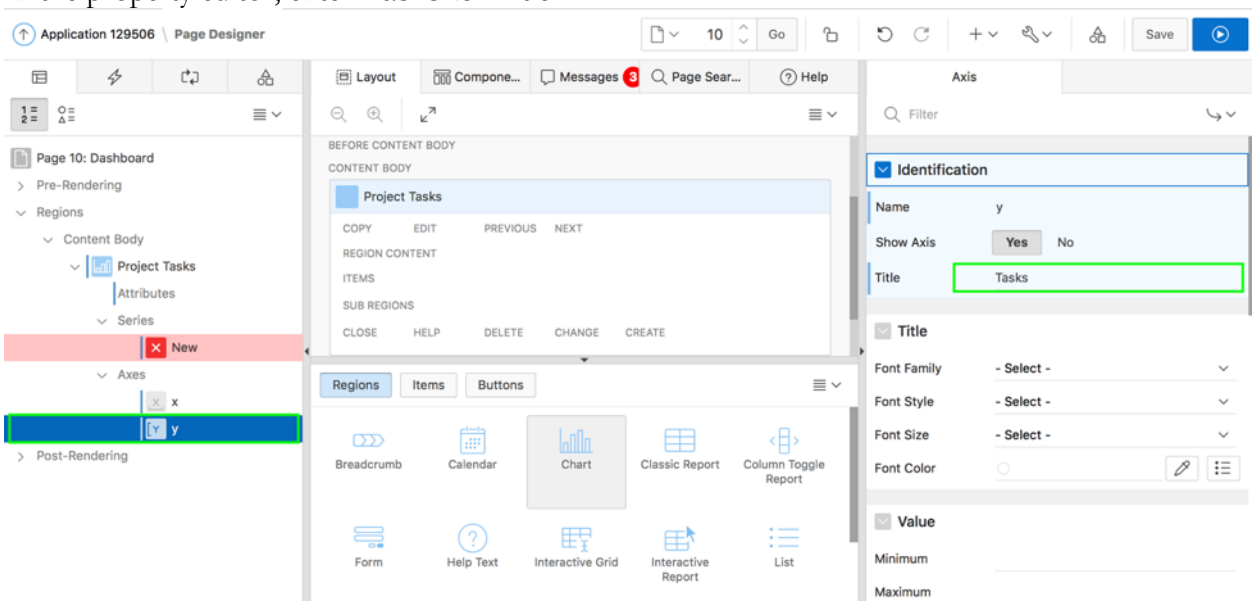
Locate the Rendering tree. Under the **Project Tasks** region, click **Attributes**.



15. In the Property Editor:
    - Chart: Type - select **Bar**
    - Appearance: Orientation - select **Horizontal**
    - Appearance: Stack - select **Yes**
    - Layout: Height - enter **480**

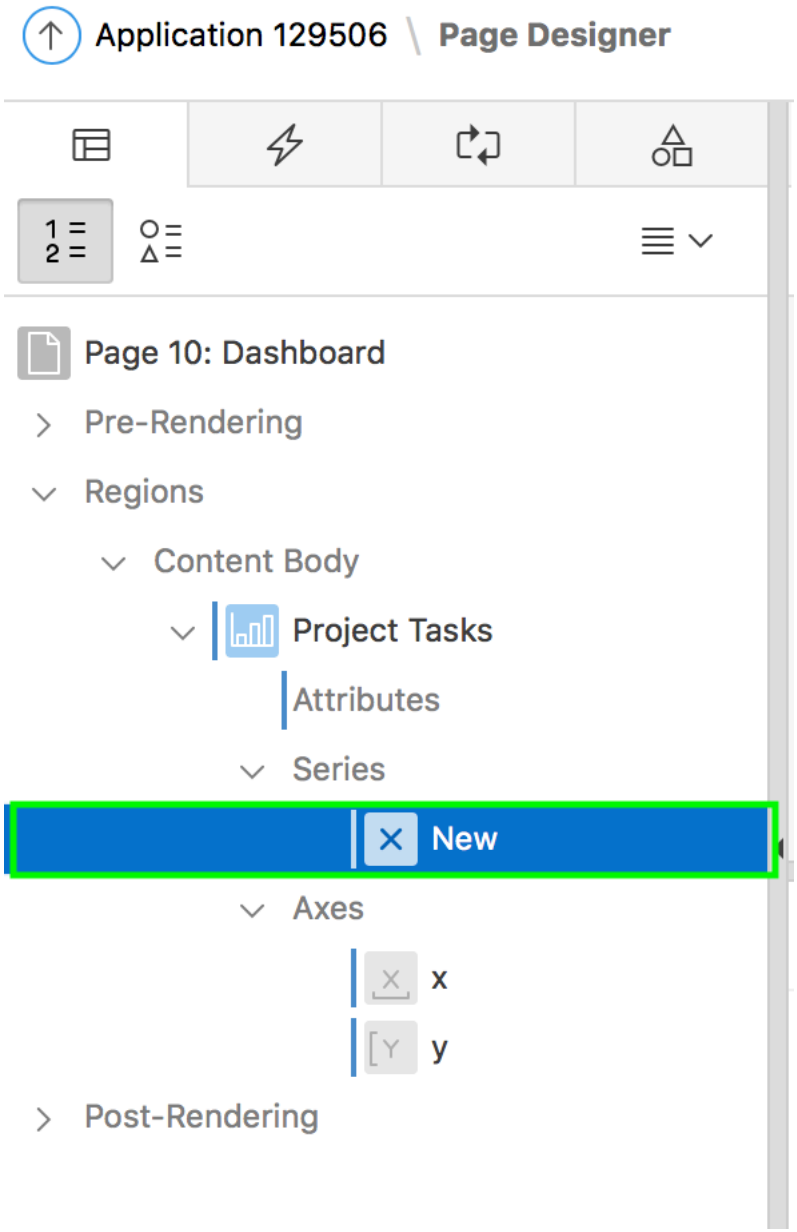

Attributes
Filter
Chart
Type
Bar
Title
Title
Appearance
Orientation
Horizontal
Stack
Yes
No
Stack Label
Yes
No
Layout
Maximum Width
pixels
Height
480
pixels

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

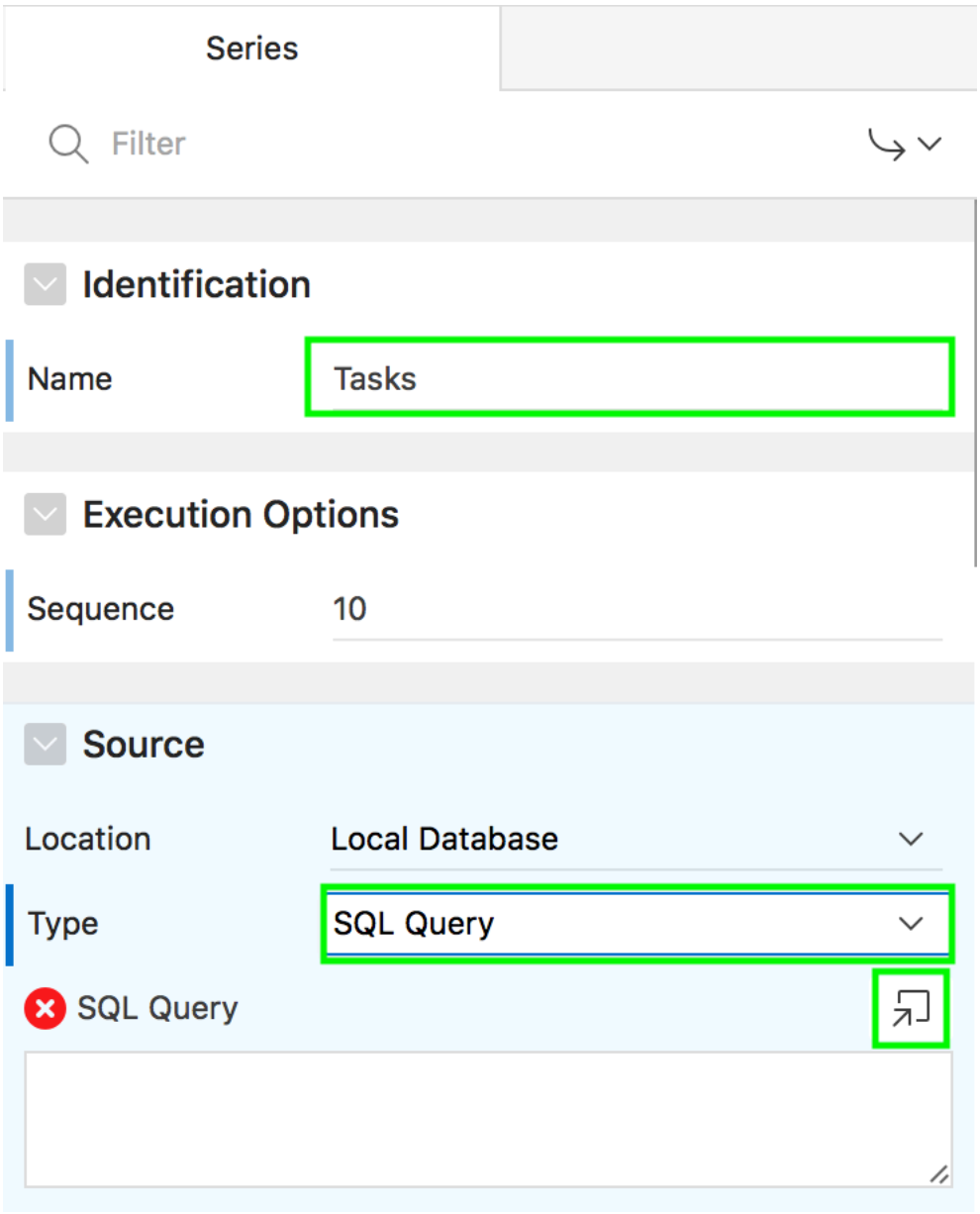


17. The DEMO_PROJ_TASKS table includes a column called IS_COMPLETE_YN. This column is populated by users to indicate that a task is complete. Next, enter chart series details for completed and incomplete tasks within a project.

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

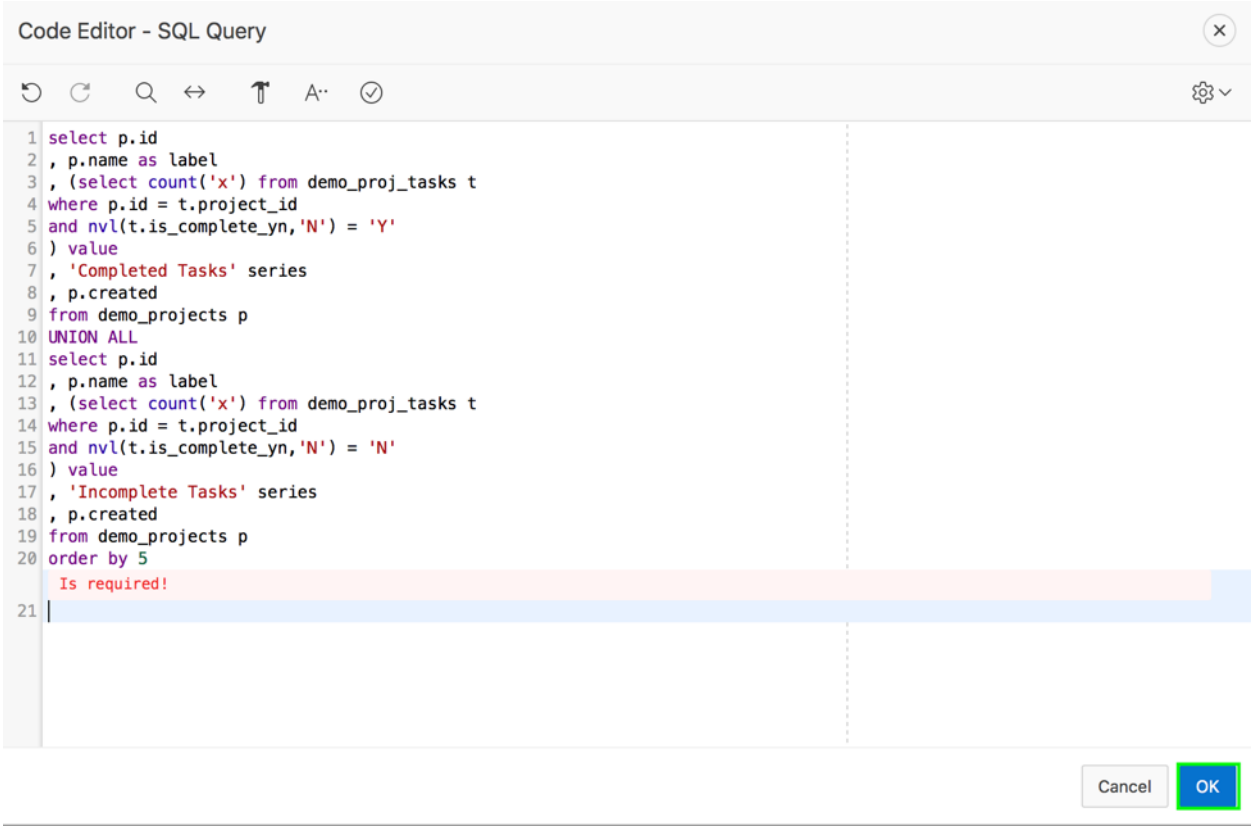


18. In the property editor, under Identification > Name, enter **Tasks**.
Under Source, for Type, select **SQL Query**.
Then click the **Code Editor** icon.


Series
Filter
Identification
Name
Tasks
Execution Options
Sequence
10
Source
Location
Local Database
Type
SQL Query
SQL Query

19. For SQL Query, copy and paste the following code and then click **OK**.

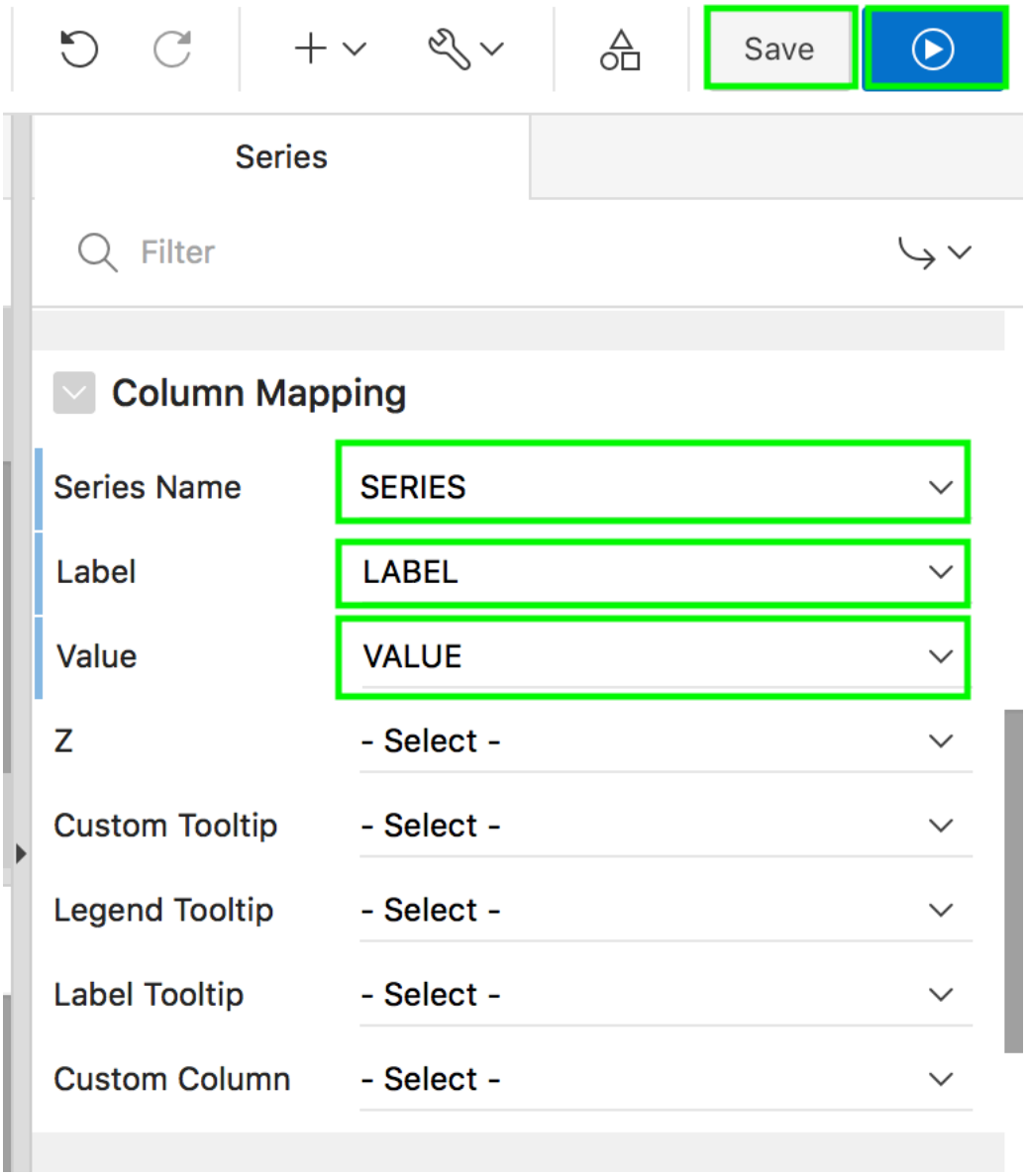
```
select p.id
, p.name as label
, (select count('x') from demo_proj_tasks t
where p.id = t.project_id
and nvl(t.is_complete_yn,'N') = 'Y'
) value
, 'Completed Tasks' series
, p.created
from demo_projects p
UNION ALL
select p.id
, p.name as label
, (select count('x') from demo_proj_tasks t
where p.id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



20. Under Column Mapping, select:
    - Series Name: **SERIES**

- Label: **LABEL**
- Value: **VALUE**

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



21. You might have to log in using Workspace username and password. The Demo Projects application Dashboard page now looks like:







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