



Oracle Application Express: Developing Database Web Applications

Hands-On-Labs Guide

Unit 7: Managing and Customizing Interactive Grids

This exercise includes two hands-on-labs.

Labs HOL 7-1 and HOL 7-2 use the Budget App application.

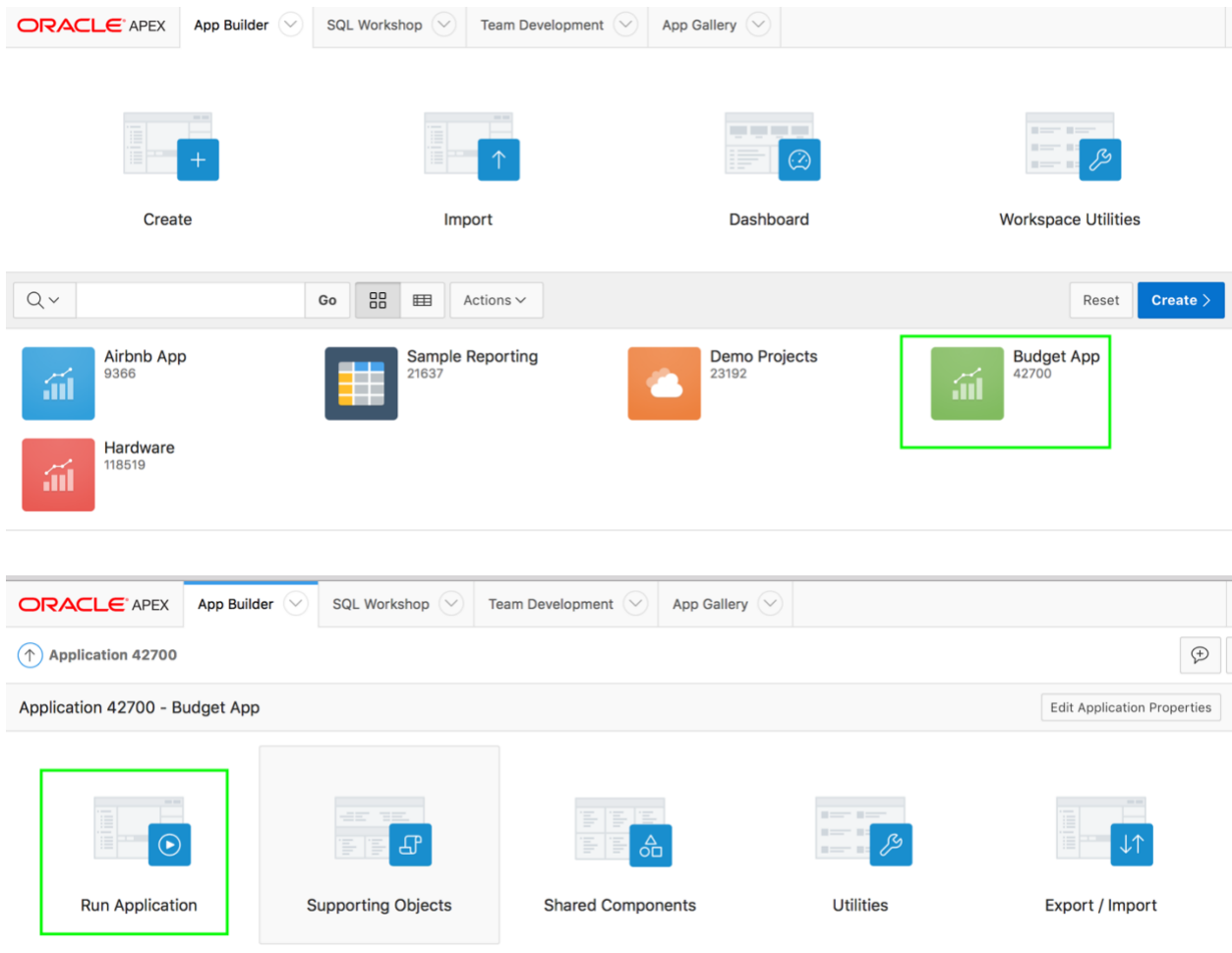
HOL 7-1: Customizing an Interactive Grid as a Developer: In this lab, you customize the Project Budget Interactive Grid for your end users.

HOL 7-2: Customizing an Interactive Grid as an End User: In this lab, you use and customize the display of your Project Budget Interactive Grid.

HOL 7-1: Customizing an Interactive Grid as a Developer

This lab uses the Budget App application. In this lab, you customize the interactive grid for end users. You create column groups, set pagination type, and set the report downloadable formats that should be available for end users. You also enable end users to save the report as Public interactive grids and convert a read only interactive grid to an editable interactive grid.

1. Navigate to **App Builder** and run the **Budget App** application.

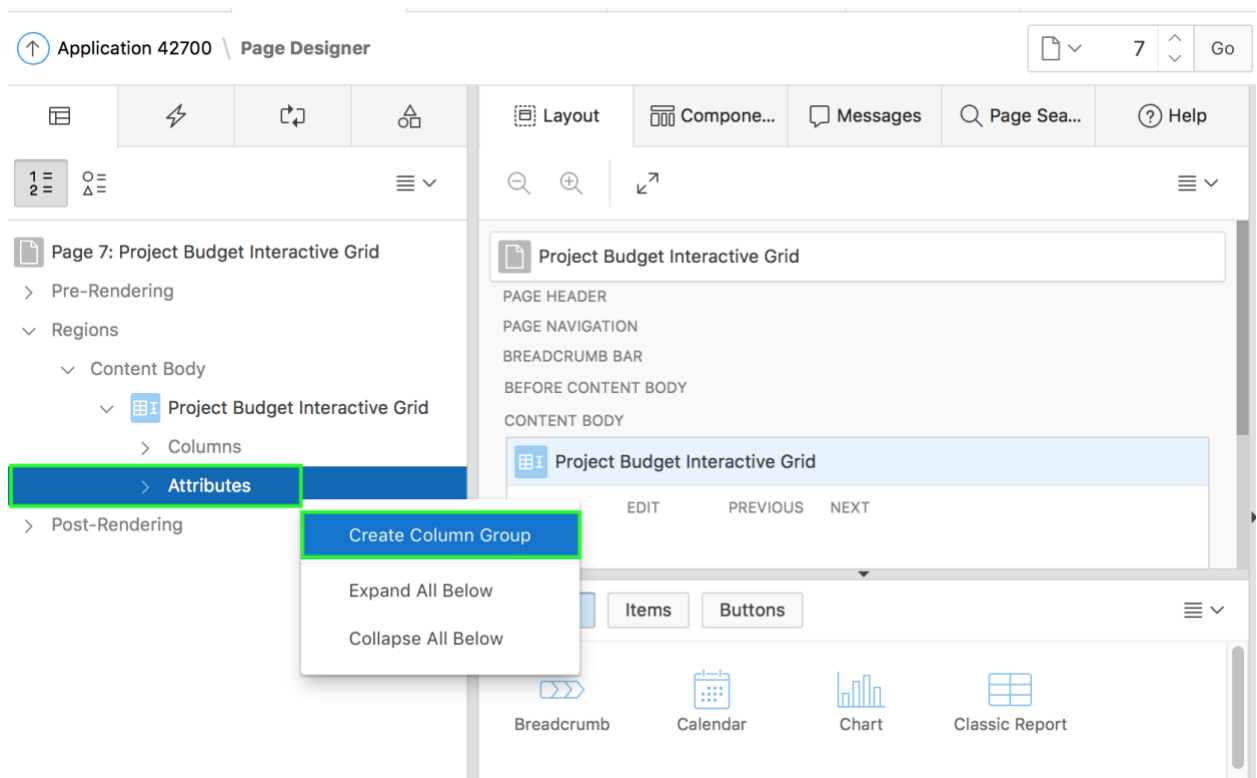


2. In the navigation menu, click **Interactive Grid**. You want to customize the display of this interactive grid for your end users. In the Developer Toolbar, click **Edit Page 7**.

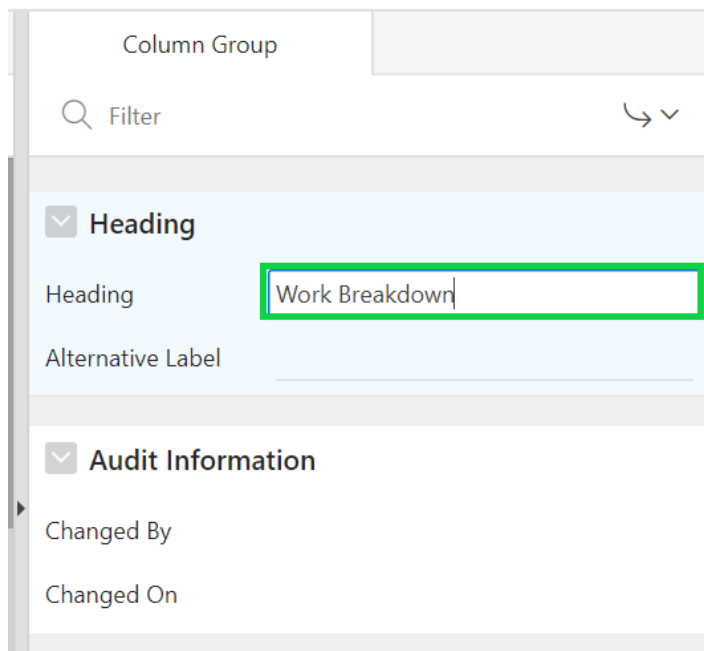
The screenshot shows the Oracle APEX 'Budget App' interface. On the left is a navigation menu with items: Home, Dashboard, Project Budget Search, Project Budget Report, Calendar, **Interactive Grid** (highlighted with a green box), and Administration. The main area displays the 'Project Budget Interactive Grid' with a search bar and a table of project data. The table has columns: Id, Project, Task Name, Start Date, End Date, Status, Assigned To, Cost, and Budget. The bottom status bar shows 'Application 42700', 'Edit Page 7' (highlighted with a green box), and other utility icons. The total row count is 73.

Id	Project	Task Name	Start Date	End Date	Status	Assigned To	Cost	Budget
1	ACME Web Ex...	Identify serve...	1/26/2019	1/27/2019	Closed	John Watson	200	500
2	ACME Web Ex...	Determine W...	1/28/2019	1/28/2019	Closed	James Cassidy	600	500
3	ACME Web Ex...	Run installation	1/31/2019	1/31/2019	Closed	James Cassidy	200	200
4	ACME Web Ex...	Create pilot w...	2/2/2019	2/2/2019	Closed	John Watson	100	100
5	ACME Web Ex...	Specify secur...	2/7/2019	2/7/2019	Open	John Watson	200	300
6	ACME Web Ex...	Configure Wo...	2/8/2019	2/8/2019	Open	John Watson	200	100
7	ACME Web Ex...	Select server...	2/11/2019	2/13/2019	Open	James Cassidy	200	600
8	Bug Tracker	Document qu...	12/12/2017	12/15/2017	Closed	Myra Sutcliff	3000	2000
9	Bug Tracker	Review autom...	12/16/2017	12/19/2017	Closed	Myra Sutcliff	750	1500
10	Bug Tracker	Implement bu...	12/31/2017	12/31/2017	Closed	Myra Sutcliff	100	100
11	Bug Tracker	Train develop...	1/7/2019	1/12/2019	On-Hold	Myra Sutcliff	1000	2000
12	Bug Tracker	Measure effe...	1/19/2019	1/19/2019	Pending	Myra Sutcliff	0	500
13	Convert Spre...	Collect missio...	1/25/2019	1/26/2019	Closed	Pam King	2500	4000

3. Add column group headers to the interactive grid as:
 - Work Breakdown: Project, Task_Name columns
 - Schedule: Start_Date, End_Date columns
 - Project Financing: Cost, Budget columns
- a) In the page designer, under Rendering > Regions, navigate to Project Budget Interactive Grid region and right-click **Attributes**. Select **Create Column Group**.

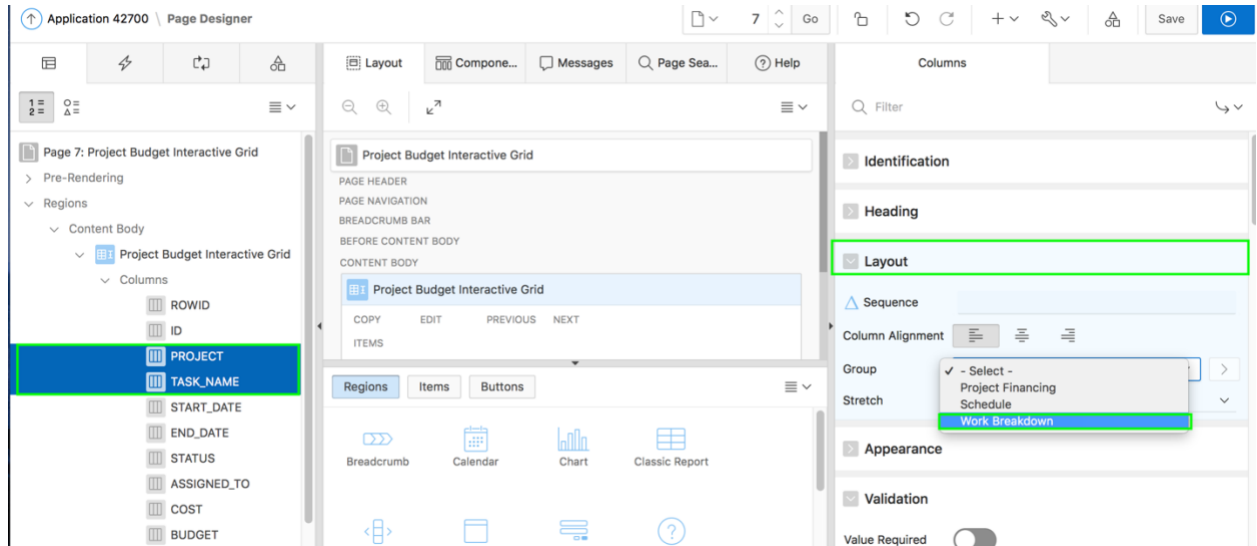


- b) In the Property Editor, enter **Work Breakdown** for Heading.



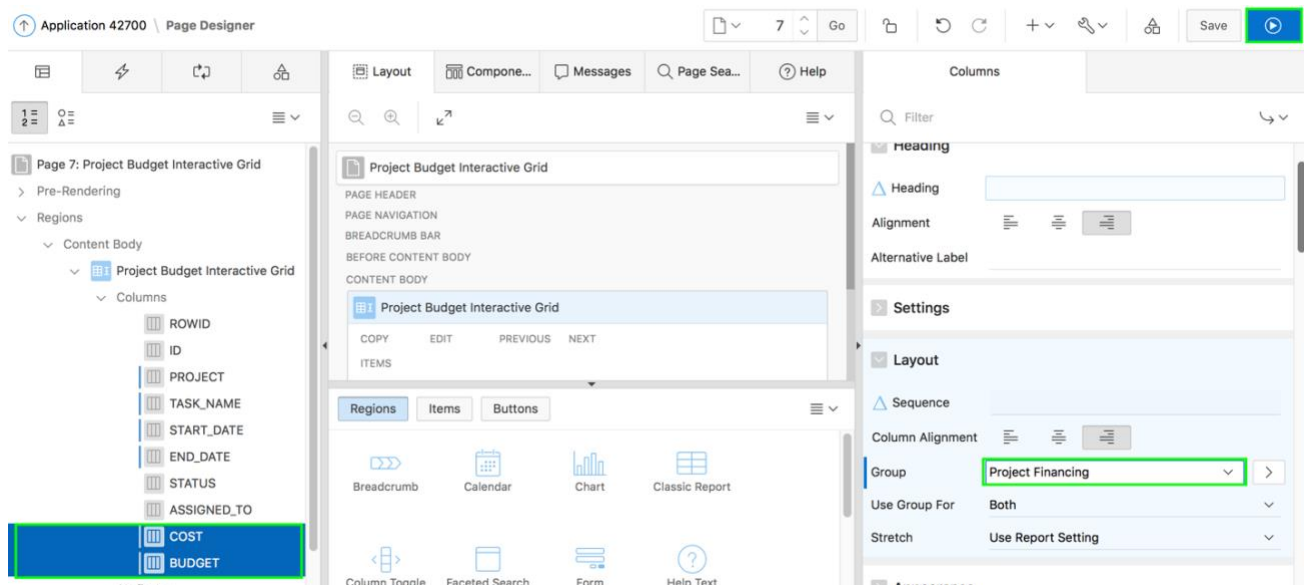
- c) Repeat the above two steps a and b to create column groups: **Schedule** and **Project Financing**.

- d) Now that you created column groups, you need to assign columns to them. Expand **Columns** and select **Project** and **Task_Name** columns.
- e) In the property editor, under Layout, select **Work Breakdown** for Group.



- f) Then, select Start_Date and End_Date columns. In the property editor, under Layout, select **Schedule** for Group.
- g) Finally, select Cost, and Budget columns. In the property editor, under Layout, select **Project Financing** for Group.

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



h) The interactive grid now displays column groups.

Project Budget Interactive Grid

Work Breakdown			Schedule						Project Financing	
Id	Project	Task Name	Start Date	End Date	Status	Assigned To			Cost	Budget
1	ACME Web E...	Identify serve...	1/26/2019	1/27/2019	Closed	John Watson			200	500
2	ACME Web E...	Determine W...	1/28/2019	1/28/2019	Closed	James Cassidy			600	500
3	ACME Web E...	Run installation	1/31/2019	1/31/2019	Closed	James Cassidy			200	200
4	ACME Web E...	Create pilot w...	2/2/2019	2/2/2019	Closed	John Watson			100	100
5	ACME Web E...	Specify secur...	2/7/2019	2/7/2019	Open	John Watson			200	300
6	ACME Web E...	Configure Wo...	2/8/2019	2/8/2019	Open	John Watson			200	100
7	ACME Web E...	Select server...	2/11/2019	2/13/2019	Open	James Cassidy			200	600
8	Bug Tracker	Document qu...	12/12/2017	12/15/2017	Closed	Myra Sutcliff			3000	2000
9	Bug Tracker	Review autom...	12/16/2017	12/19/2017	Closed	Myra Sutcliff			750	1500
10	Bug Tracker	Implement bu...	12/31/2017	12/31/2017	Closed	Myra Sutcliff			100	100
11	Bug Tracker	Train develop...	1/7/2019	1/12/2019	On-Hold	Myra Sutcliff			1000	2000

4. Rearrange the columns in the interactive grid. You want to display the column groups Work Breakdown, Schedule, and Project Financing display in order followed by Status and Assigned To.
 - a) Hover the mouse over the Project Financing column group header to display the drag handle. Your mouse cursor also changes when it comes into contact with the drag handle. Click and hold the drag handle.
 - b) Then, drag the column group to the Status column location. The heading shifts out of place in the row. The Project Financing column group should be followed by the Status column. Release the mouse. The Project Financing column group drops into place.

Project Budget Interactive Grid

Q

Search: All Text Columns

Go

Actions

Reset

Work Breakdown			Schedule		Project Financing			
Id	Project	Task Name	Start Date	End Date	Status	Assigned To	Cost	Budget
1	ACME Web E...	Identify serve...	1/26/2019	1/27/2019	Closed	John Watson	200	500
2	ACME Web E...	Determine W...	1/28/2019	1/28/2019	Closed	James Cassidy	600	500
3	ACME Web E...	Run installation	1/31/2019	1/31/2019	Closed	James Cassidy	200	200
4	ACME Web E...	Create pilot w...	2/2/2019	2/2/2019	Closed	John Watson	100	100

Project Budget Interactive Grid

Q

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Search: All Text Columns

Go

Actions

▼

Reset

	Work Breakdown		Schedule		Project Financing				
	Id	Project	Task Name	Start Date	End Date	Cost	Budget	Status	Assigned To
	1	ACME Web E...	Identify serve...	1/26/2019	1/27/2019	200	500	Closed	John Watson
	2	ACME Web E...	Determine W...	1/28/2019	1/28/2019	600	500	Closed	James Cassidy
	3	ACME Web E...	Run installation	1/31/2019	1/31/2019	200	200	Closed	James Cassidy
	4	ACME Web E...	Create pilot ...	2/2/2019	2/2/2019	100	100	Closed	John Watson

5. Resize the width of the **Id** column. Click and hold the edge of the column heading and adjust with the mouse.

Project Budget Interactive Grid

Q

Search: All Text Columns

Go

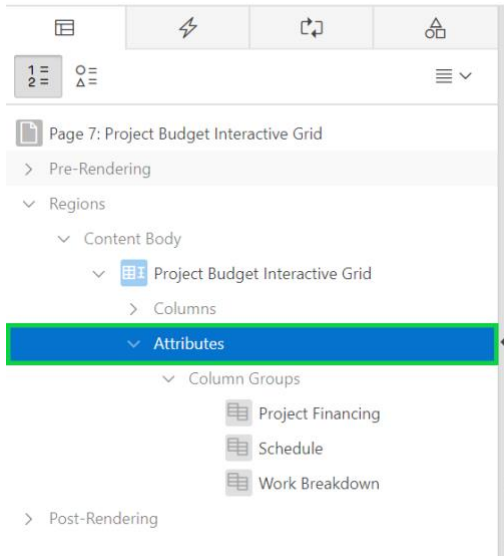
Actions

Reset

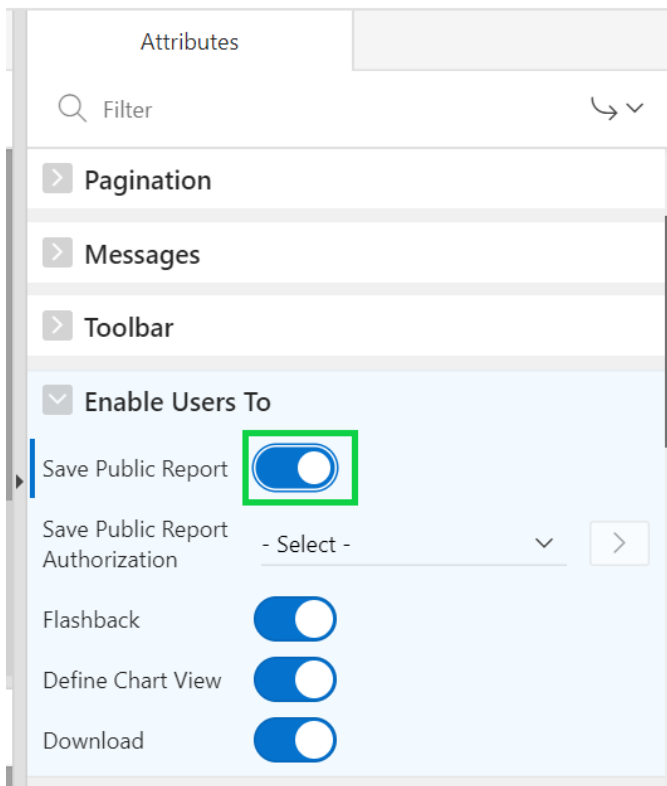
	Work Breakdown		Schedule		Project Financing			
Id	Project	Task Name	Start Date	End Date	Cost	Budget	Status	Assigned To
1	ACME We...	Identify se...	1/26/2018	1/27/2018	200	500	Closed	John Watson
2	ACME We...	Determine...	1/28/2018	1/28/2018	600	500	Closed	James Cassidy
3	ACME We...	Run install...	1/31/2018	1/31/2018	200	200	Closed	James Cassidy

6. You want to ensure that end users can save Public interactive grids. You want to exclude HTML from the download formats available to end users. In the Developer Toolbar, click **Edit Page < n >**.

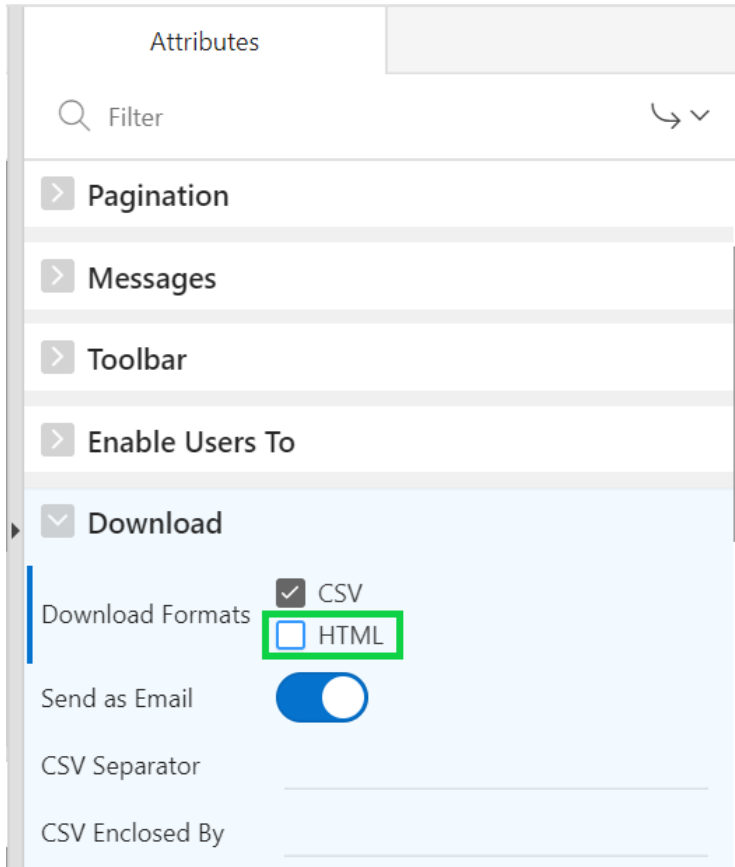
a) Under Rendering, select **Attributes** under the Project Budget Interactive Grid region.



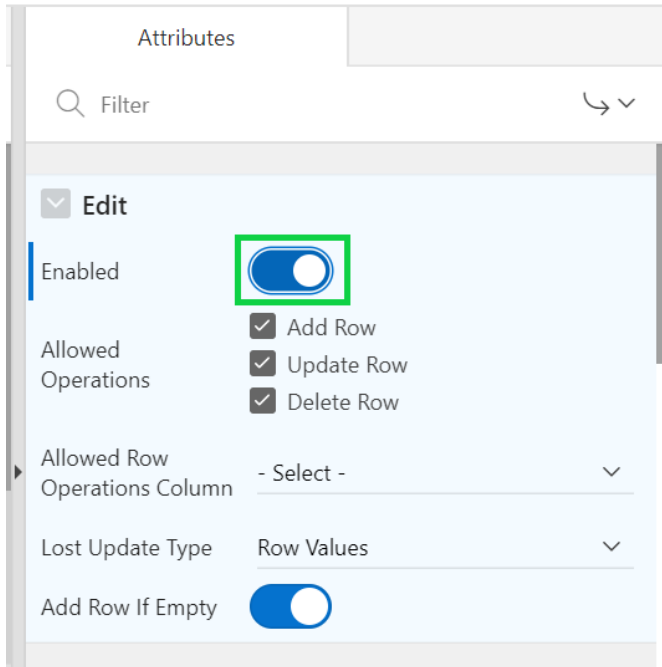
b) In the property editor, under Attributes, navigate to Enable Users To. Click **Save Public Report** to **enable** the feature.



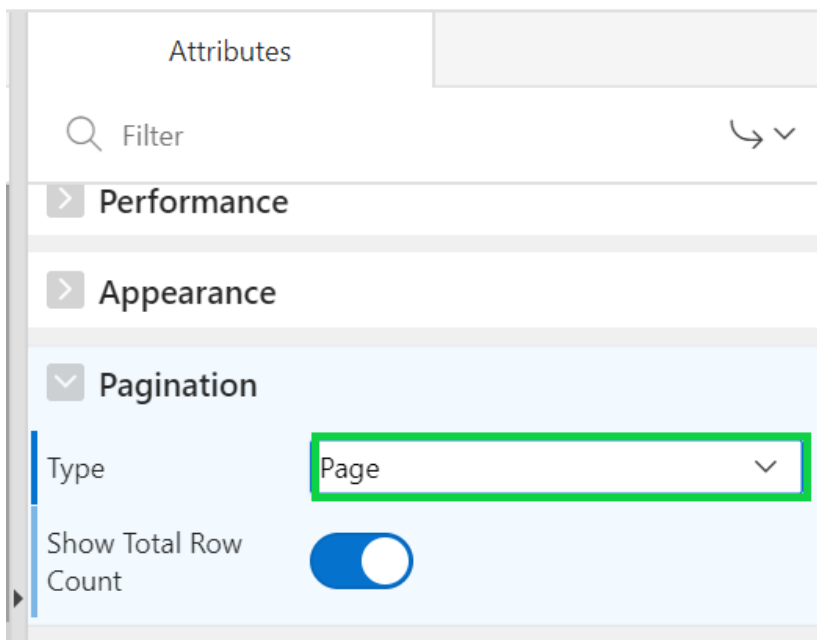
c) Under Download, deselect the **HTML** check box.



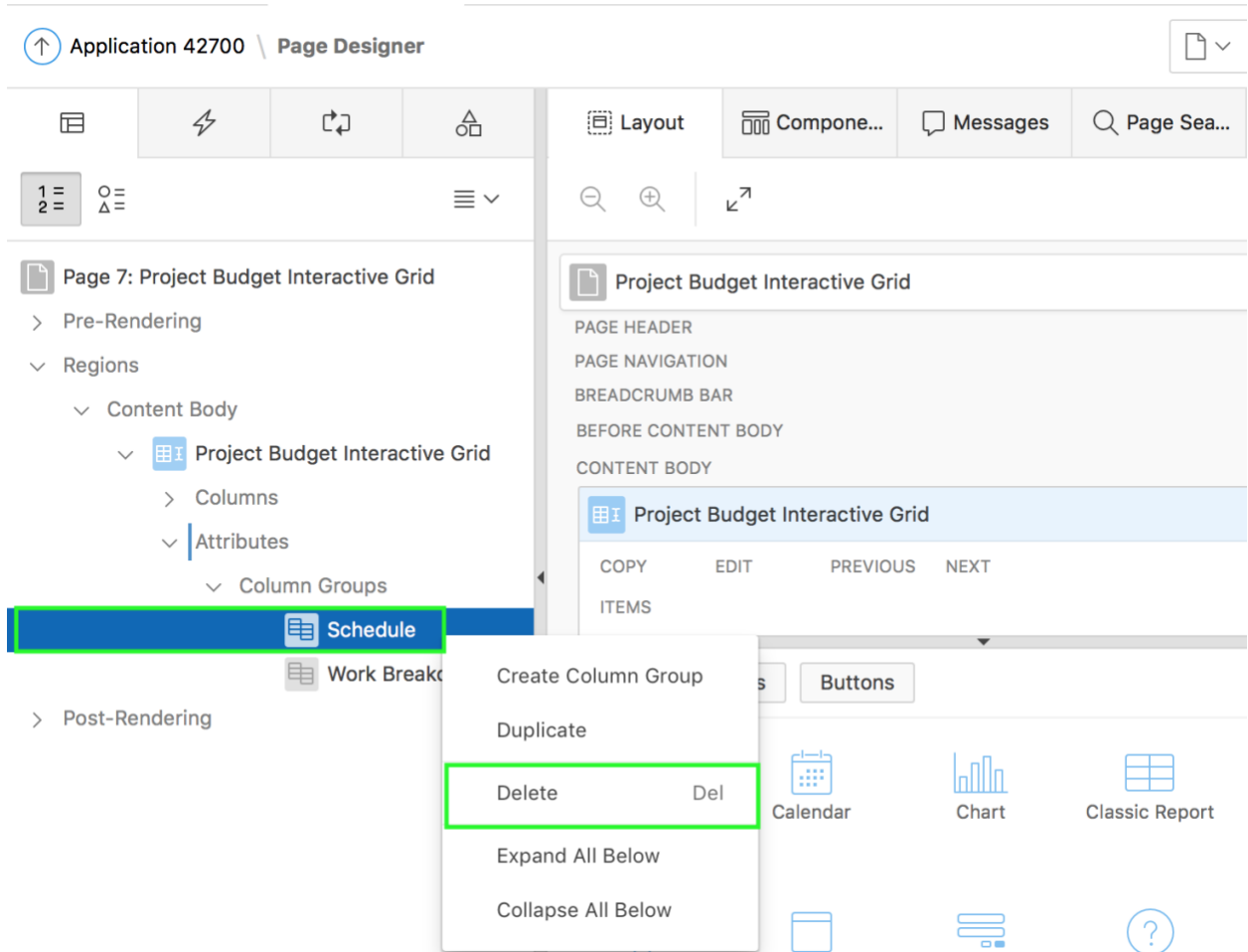
7. Convert this read only interactive grid in to an editable interactive grid. Then, reset the pagination as Page type displaying the total row count.
 - a) Under Rendering, select **Attributes** under the Project Budget Interactive Grid region.
 - b) In the property editor, navigate to Edit. Click **Enabled**, to turn on the feature.



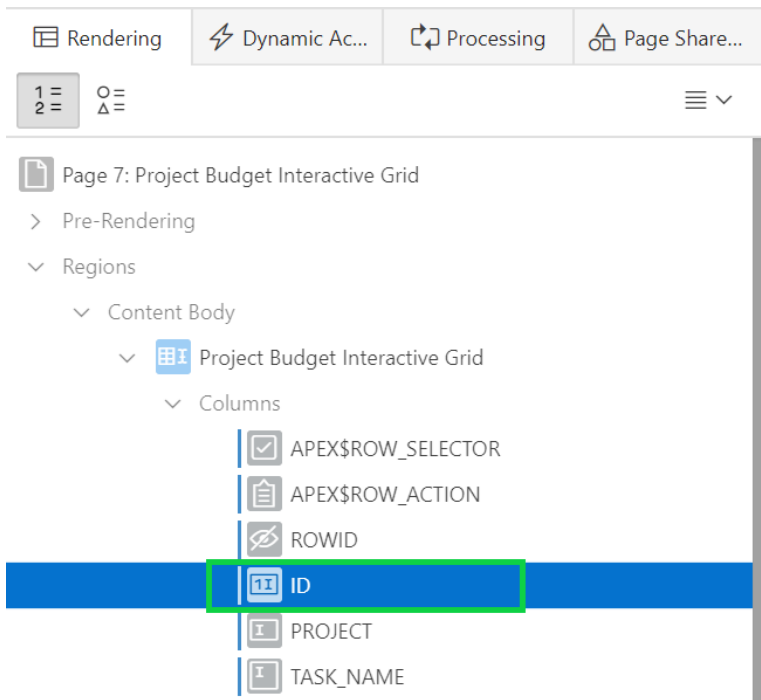
c) Under Pagination, select **Page** for Type.



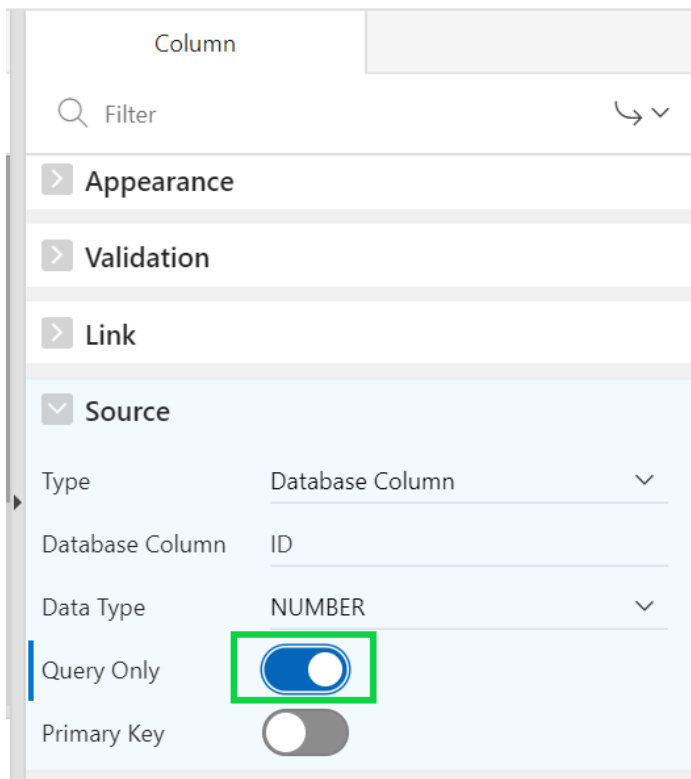
8. Delete the column groups in the interactive grid. Under Rendering > Project Budget Interactive Grid > Attributes, expand Column Groups. Right-click **Project Financing** and click **Delete**. Similarly, delete the Schedule and Work Breakdown column groups.



9. You want to exclude the ID column from DML operations. Under Page Rendering > Project Budget Interactive Grid, expand Columns and select **ID**.



10. In the Property Editor, scroll down to Source. Click **Query Only** to **enable** the feature.



11. Click **Save and Run Page**.

HOL 7-2: Customizing an Interactive Grid as an End User

In this lab, you use and customize the display of your interactive grid. You also edit an editable interactive grid.

1. Notice that the interactive grid is editable now. You see the Edit, Save, and Add Row buttons. Also, the pagination type that you have set is displayed now. Perform a non-case-sensitive search for 'server' on the entire interactive grid.

To do this, enter **server** in the search bar text area and click **Go**.

Project Budget Interactive Grid

server

Go

Actions

Edit

Save

Add Row

Reset

Search for 'server'

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server

☐ Case Sensitive
☒ All Text Columns
☐ Project
☒ Task Name
☐ Status
☐ Assigned To

Task Name	Start...	End ...	Status	Assi...	Cost	Budget
Identify server requirements	1/26/...	1/27/...	Closed	John ...	200	500
Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	500
Run installation	1/31/...	1/31/...	Closed	Jame...	200	200
Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100
Specify security authentication ...	2/7/2...	2/7/2...	Open	John ...	200	300
Configure Workspace provisio...	2/8/2...	2/8/2...	Open	John ...	200	100

3. Enter **server** in the text area and click **Go**. Notice that the search is now restricted only to the Task Name column.

server

☒ Task Name contains server

Id	Project	Task Name	Start...	End ...	Status	Assi...	Cost	Budget	
<input checked="" type="checkbox"/>	1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	200	500
<input type="checkbox"/>	7	ACM...	Select servers for Development...	2/11/...	2/13/...	Open	Jame...	200	600
<input type="checkbox"/>	18	Discu...	Install ACME Web Express appl...	1/7/2...	1/7/2...	Closed	Hank ...	100	100
<input type="checkbox"/>	22	Email...	Get RFPs for new server	2/4/2...	2/5/2...	Closed	Bob ...	2000	1000
<input type="checkbox"/>	23	Email...	Purchase backup server	2/21/...	2/23/...	Pendi...	Bob ...	0	3000
<input type="checkbox"/>	27	Client...	Identify pilot Client Server appl...	1/23/...	1/23/...	Closed	Scott ...	200	200
<input type="checkbox"/>	28	Client...	Migrate pilot Client Server to A...	1/25/...	1/28/...	Closed	Scott ...	4500	5000

4. Remove the filter by clicking the **X** icon. You want to update the budget for the Project with Id 1. Click the field and replace the existing value with **300**.

server

Go

Actions

Edit

Save

Add Row

Reset

<input type="checkbox"/>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
<input type="checkbox"/>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
<input checked="" type="checkbox"/>	<div></div>	1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	300	500	
<input type="checkbox"/>	<div></div>	2	ACM...	Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	500	
<input type="checkbox"/>	<div></div>	3	ACM...	Run installation	1/31/...	1/31/...	Closed	Jame...	200	200	
<input type="checkbox"/>	<div></div>	4	ACM...	Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100	
<input type="checkbox"/>	<div></div>	5	ACM...	Specify security authentication ...	2/7/2...	2/7/2...	Open	John ...	200	300	
<input type="checkbox"/>	<div></div>	6	ACM...	Configure Workspace provisio...	2/8/2...	2/8/2...	Open	John ...	200	100	
<input type="checkbox"/>	<div></div>	7	ACM...	Select servers for Development...	2/11/...	2/13/...	Open	Jame...	200	600	

5. The changes are not saved yet. Click the **Save** button.
The changes are saved now.

Budget App

Home
 Dashboard
 Project Budget Search
 Project Budget Report
 Calendar
 Interactive Grid
 Administration

Project Budget Interactive Grid

<input type="text" value="server"/> <input type="button" value="Go"/>		<input type="button" value="Actions"/>		<input type="button" value="Edit"/> <input type="button" value="Save"/>		<input type="button" value="Add Row"/>		<input type="button" value="Reset"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Id	Project	Task Na...	Start D...	End Date	Status	Assigne...	Cost	Budget
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	ACME W...	Identify ...	1/26/2019	1/27/2019	Closed	John Wa...	300	500
<input type="checkbox"/>	<input type="checkbox"/>	2	ACME W...	Determi...	1/28/2019	1/28/2019	Closed	James C...	600	500
<input type="checkbox"/>	<input type="checkbox"/>	3	ACME W...	Run inst...	1/31/2019	1/31/2019	Closed	James C...	200	200
<input type="checkbox"/>	<input type="checkbox"/>	4	ACME W...	Create p...	2/2/2019	2/2/2019	Closed	John Wa...	100	100
<input type="checkbox"/>	<input type="checkbox"/>	5	ACME W...	Specify ...	2/7/2019	2/7/2019	Open	John Wa...	200	300
<input type="checkbox"/>	<input type="checkbox"/>	6	ACME W...	Configur...	2/8/2019	2/8/2019	Open	John Wa...	200	100

6. You want to update another row. This time, click the row header for the project with Id 2 and select **Single Row View**.

Q

▼

server

Go

Actions

▼

Edit

Save

Add Row

↶

Reset

<input type="checkbox"/>	<div>☰</div>	<div>Id</div>	<div>Project</div>	<div>Task Name</div>	<div>Start...</div>	<div>End ...</div>	<div>Status</div>	<div>Assi...</div>	<div>Cost</div>	<div>Budget</div>
<input checked="" type="checkbox"/>	<div>☰</div>	1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	300	500
<input checked="" type="checkbox"/>	<div>☰</div>	2	ACM...	Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	500
<input type="checkbox"/>	<div>☰</div>			Run installation	1/31/...	1/31/...	Closed	Jame...	200	200
<input type="checkbox"/>	<div>☰</div>			Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100
<input type="checkbox"/>	<div>☰</div>			Specify security authentication ...	2/7/2...	2/7/2...	Open	John ...	200	300
<input type="checkbox"/>	<div>☰</div>			Configure Workspace provisio...	2/8/2...	2/8/2...	Open	John ...	200	100
<input type="checkbox"/>	<div>☰</div>			Select servers for Development...	2/11/...	2/13/...	Open	Jame...	200	600
<input type="checkbox"/>	<div>☰</div>			Document quality assurance pr...	12/12...	12/15...	Closed	Myra ...	3000	2000
<input type="checkbox"/>	<div>☰</div>			Review automated testing tools	12/16...	12/18...	Closed	Myra ...	750	1500
<input type="checkbox"/>	<div>☰</div>			Implement bug tracking softw...	12/31...	12/31...	Closed	Myra ...	100	100

↶ Single Row View

+

Add Row

⌘

Duplicate Row

🗑

Delete Row

↺

Refresh Row

↶

Revert Changes

7. You are now in the single row view of the project with Id 2. Click **Edit**.

<input type="text" value="Search: All Text Columns"/> <input type="button" value="Go"/>		<input type="button" value="Actions"/>		<input type="button" value="Edit"/> <input type="button" value="Save"/>		<input type="button" value="Add Row"/>		<input type="button" value="Reset"/>	
<input type="button" value="Report View"/>		<input type="button" value="Settings"/>		<input type="button" value="Row 2 of 73"/>		<input type="button" value="Previous"/> <input type="button" value="Next"/>			
<p>Id 2</p> <p>Project ACME Web Express Configuration</p> <p>Task Name Determine Web listener configuration(s)</p> <p>Start Date 1/28/2018</p> <p>End Date 1/28/2018</p> <p>Status Closed</p> <p>Cost 600</p> <p>Budget <input type="text" value="500"/></p> <p>Assigned To James Cassidy</p>									

8. Replace the existing value for Budget with **800** and click **Save**. Then, click **Report View**.

Budget App

Home Dashboard Project Budget Search Project Budget Report Calendar Interactive Grid Administration

Search: All Text Columns Go Actions Edit Save Add Row Reset

Report View Row 2 of 73

Id: 2
 Project: ACME Web Express Confi
 Task Name: Determine Web listener configuration(s)
 Start Date: 1/28/2018
 End Date: 1/28/2018
 Status: Closed
 Cost: 600
 Budget: 800
 Assigned To: James Cassidy

Changes saved

9. The row now displays 800 for Budget.

Search: All Text Columns Go Actions Edit Save Add Row Reset										
		Id	Project	Task Name	Start...	End ...	Status	Assi...	Cost	Budget
<input type="checkbox"/>		1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	300	500
<input checked="" type="checkbox"/>		2	ACM...	Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	800
<input type="checkbox"/>		3	ACM...	Run installation	1/31/...	1/31/...	Closed	Jame...	200	200
<input type="checkbox"/>		4	ACM...	Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100
<input type="checkbox"/>		5	ACM...	Specify security authentication ...	2/7/2...	2/7/2...	Open	John ...	200	300
<input type="checkbox"/>		6	ACM...	Configure Workspace provisio...	2/8/2...	2/8/2...	Open	John ...	200	100
<input type="checkbox"/>		7	ACM...	Select servers for Development...	2/11/...	2/13/...	Open	Jame...	200	600

10. Click **Add Row**. Enter values for all the columns.
Click **Save**.

Search: All Text Columns Go Actions Edit Save Add Row Reset										
		Id	Project	Task Name	Start...	End ...	Status	Assi...	Co	Budget
<input type="checkbox"/>		1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	300	500
<input type="checkbox"/>		2	ACM...	Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	800
<input checked="" type="checkbox"/>		81	New ...	New Task	11/6/...	11/13/...	Open	Pam ...	400	800
<input type="checkbox"/>		3	ACM...	Run installation	1/31/...	1/31/...	Closed	Jame...	200	200
<input type="checkbox"/>		4	ACM...	Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100

11. Click the row header for the row that you just added and select **Delete Row**. Then, click **Save**.

The screenshot shows the Oracle APEX table interface. At the top, there is a search bar with the text 'Search: All Text Columns' and a 'Go' button. To the right of the search bar are buttons for 'Actions', 'Edit', 'Save' (highlighted in green), 'Add Row', and 'Reset'. Below the search bar is a table with columns: Id, Project, Task Name, Start..., End ..., Status, Assi..., Cost, and Budget. The table contains several rows. The row with Id 81 is highlighted in blue. A context menu is open over this row, showing options: 'Single Row View', '+ Add Row', 'Duplicate Row', 'Delete Row' (highlighted in green), 'Refresh Row', and 'Revert Changes'.

	Id	Project	Task Name	Start...	End ...	Status	Assi...	Cost	Budget
<input type="checkbox"/>	1	ACM...	Identify server requirements	1/26/...	1/27/...	Closed	John ...	300	500
<input type="checkbox"/>	2	ACM...	Determine Web listener config...	1/28/...	1/28/...	Closed	Jame...	600	800
<input checked="" type="checkbox"/>	81	New ...	New Task	11/6/...	11/13/...	Open	Pam ...	400	800
<input type="checkbox"/>			Run installation	1/31/...	1/31/...	Closed	Jame...	200	200
<input type="checkbox"/>			Create pilot workspace	2/2/2...	2/2/2...	Closed	John ...	100	100
<input type="checkbox"/>			Specify security authentication ...	2/7/2...	2/7/2...	Open	John ...	200	300
<input type="checkbox"/>			Configure Workspace provisio...	2/8/2...	2/8/2...	Open	John ...	200	100
<input type="checkbox"/>			Select servers for Development...	2/11/...	2/13/...	Open	Jame...	200	600
<input type="checkbox"/>			Document quality assurance pr...	12/12...	12/15...	Closed	Myra ...	3000	2000
<input type="checkbox"/>			Review automated testing tools	12/16...	12/18...	Closed	Myra ...	750	1500
<input type="checkbox"/>			Implement bug tracking softw...	12/31...	12/31...	Closed	Myra ...	100	100

12. You want to review the data that existed few minutes ago. Select **Actions > Data > Flashback**.

The screenshot shows the Oracle APEX table interface. At the top, there is a search bar with the text 'Search: All Text Columns' and a 'Go' button. To the right of the search bar are buttons for 'Actions' (highlighted in green), 'Edit', 'Save' (highlighted in blue), 'Add Row', and 'Reset'. Below the search bar is a table with columns: Id, Project, Task Name, Status, Assi..., Cost, and Budget. The table contains several rows. A context menu is open over the 'Actions' button, showing options: 'Columns', 'Filter', 'Data' (highlighted in green), 'Format', 'Selection', 'Chart', 'Report', 'Download', and 'Help'. A sub-menu is open over the 'Data' option, showing options: 'Sort', 'Aggregate', 'Refresh', and 'Flashback' (highlighted in green).

	Id	Project	Task Name	Status	Assi...	Cost	Budget
<input type="checkbox"/>	1	ACM...	Identify server requirem	Closed	John ...	300	500
<input type="checkbox"/>	2	ACM...	Determine Web listener			00	800
<input type="checkbox"/>	3	ACM...	Run installation			00	200
<input type="checkbox"/>	4	ACM...	Create pilot workspace			00	100
<input type="checkbox"/>	5	ACM...	Specify security authent			00	300
<input type="checkbox"/>	6	ACM...	Configure Workspace pr			00	100
<input type="checkbox"/>	7	ACM...	Select servers for Devel	Open	Jame...	200	600
<input type="checkbox"/>	8	Bug T...	Document quality assur	Closed	Myra ...	3000	2000
<input type="checkbox"/>	9	Bug T...	Review automated testin	Closed	Myra ...	750	1500
<input type="checkbox"/>	10	Bug T...	Implement bug tracking	Closed	Myra ...	100	100

13. Enter 5 for Minutes ago and click **Save**.

Flashback ✕

Minutes ago

5

Help Cancel **Save**

14. Notice the budget values for projects with Id's 1 and 2. Click **X** to remove flashback.
15. You want to create a control break on the Project column. Click **Actions > Format > Control Break**.

Q		Search: All Text Columns		Go	Actions	Edit	Save	Add Row	Reset
<input type="checkbox"/>		Id	Project	Task N...	Start	Assigne...	Cost	Budget	
<input checked="" type="checkbox"/>		1	ACME ...	Identify ...	1/26	John Wa...	300	500	
<input type="checkbox"/>		2	ACME ...	Determi...	1/28	James C...	600	800	
<input type="checkbox"/>		3	ACME ...	Run inst...	1/31			200	
<input type="checkbox"/>		4	ACME ...	Create ...	2/2			100	
<input type="checkbox"/>		5	ACME ...	Specify ...	2/7			300	
<input type="checkbox"/>		6	ACME ...	Configu...	2/8			100	
<input type="checkbox"/>		7	ACME ...	Select s...	2/11			600	
<input type="checkbox"/>		8	Bug Tra...	Docume...	12/1	Myra Su...	3000	2000	
<input type="checkbox"/>		9	Bug Tra...	Review ...	12/1	Myra Su...	750	1500	
<input type="checkbox"/>		10	Bug Tra...	Implem...	12/3	Myra Su...	100	100	

16. In the Control Break dialog, enter **Project** for Column and click **Save**.
17. The control break is now applied. You want to highlight rows that meet a condition. Select **Actions > Format > Highlight**.

The screenshot shows the Oracle APEX interface for a project management application. The 'Actions' menu is open, and the 'Format' option is selected, which has opened a sub-menu where the 'Highlight' option is highlighted. The table below shows the data for the 'Project: ACME Web Express Configuration'.

	Id	Task Name	Start Date	Assigned...	Cost	Budget
Project: ACME Web Express Configuration						
<input checked="" type="checkbox"/>	1	Identify se...	1/26/2018			500
<input type="checkbox"/>	2	Determin...	1/28/2018			800
<input type="checkbox"/>	3	Run instal...	1/31/2018			200
<input type="checkbox"/>	4	Create pil...	2/2/2018			100
<input type="checkbox"/>	5	Specify se...	2/7/2018			300
<input type="checkbox"/>	6	Configure...	2/8/2018	John Wats...	200	100
<input type="checkbox"/>	7	Select ser...	2/11/2018	James Cas...	200	600
Project: Bug Tracker						

1 rows selected

18. In the Highlight dialog, enter the following:

- Name: Enter **Project costing greater than 750**
- Background Color: Click **Colors** and select **Yellow**.
- Text Color: Click **Colors** and select **Red**.
- Column: Select **Cost**
- Operator: Select **greater than**
- Value: Enter **750**

Click **Save**.

Highlight

Enabled

Name

☒

Project costing greater than750

Name

Project costing greater than750

Highlight

Row

Background Color

#FFFF99

Colors

Text Color

#FF7755

Colors

Condition Type

Column

Column

Cost

Operator

greater than

Value

750

+

−

^

∨

Help

Cancel

Save

19. Notice the rows with cost greater than 750 are highlighted.

Search: All Text Columns

Go

Actions

Edit

Save

Add Row

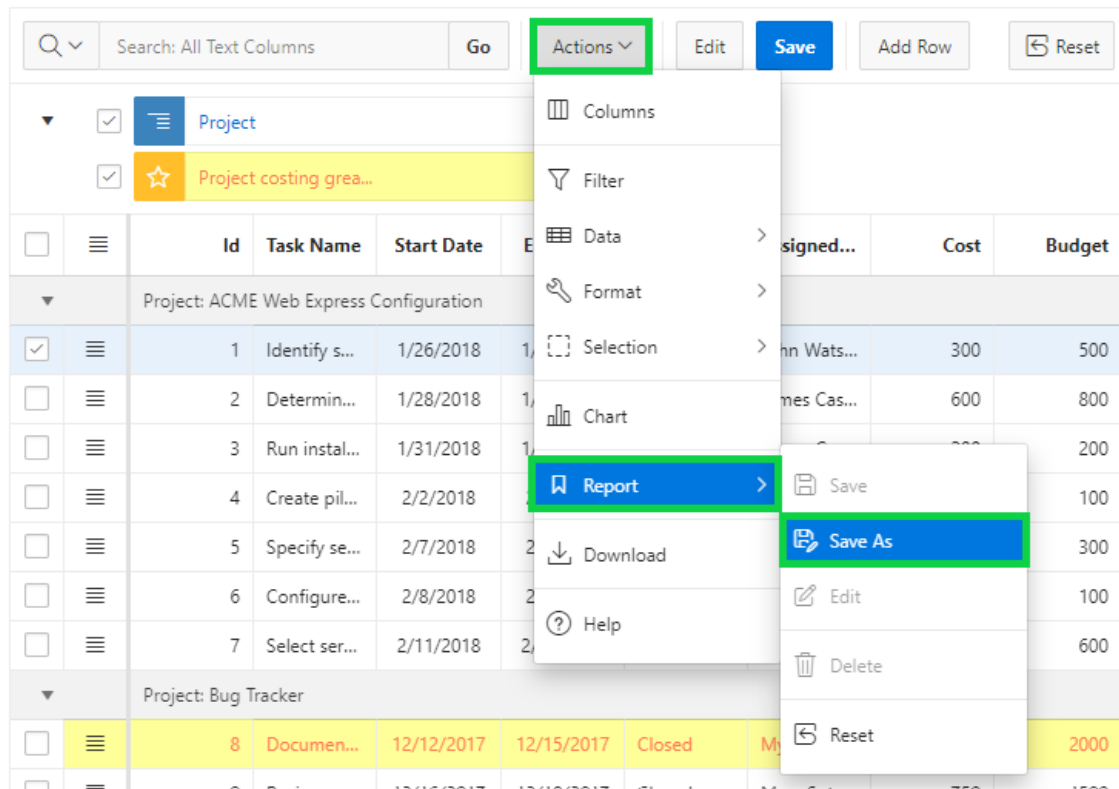
Reset

Project

Project costing grea...

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		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
		<div></div>	<div></div>	<div></div>	<div></div>				

20. You want to save the changes made to the interactive grid. Select **Actions > Report > Save As**.



21. In the Report – Save As dialog, select **Private** for Type. Enter **My Private Report** for Name. Click **Save**.
22. Notice that the Primary interactive grid and the interactive grid you saved now are available in the Reports drop down list.
You want to return back to the Primary interactive grid. Click **Primary Report** in the Reports drop down list.

Search: All Text Columns Go My Private Report Actions Reset

Edit Save Add Row

Project

Project costing grea...

	Id	Task Name	Start Date	End Date	Status	Assigned...	Cost	Budget
Project: ACME Web Express Configuration								
<input checked="" type="checkbox"/>	1	Identify s...	1/26/2018	1/27/2018	Closed	John Wats...	300	500
<input type="checkbox"/>	2	Determin...	1/28/2018	1/28/2018	Closed	James Cas...	600	800
<input type="checkbox"/>	3	Run instal...	1/31/2018	1/31/2018	Closed	James Cas...	200	200
<input type="checkbox"/>	4	Create pil...	2/2/2018	2/2/2018	Closed	John Wats...	100	100
<input type="checkbox"/>	5	Specify se...	2/7/2018	2/7/2018	Open	John Wats...	200	300
<input type="checkbox"/>	6	Configure...	2/8/2018	2/8/2018	Open	John Wats...	200	100
<input type="checkbox"/>	7	Select ser...	2/11/2018	2/13/2018	Open	James Cas...	200	600
Project: Bug Tracker								

23. You want to make few more customizations and save the interactive grid as another Private report. You do not want the Start Date, End Date, and Assigned To columns to be displayed in the report.

Click the **Start Date** column header and then click **Hide**.

	Id	Project	Task N...	Start D...	End Date	Status	Assigne...	Cost	Budget
<input checked="" type="checkbox"/>	1	ACME ...	Identify ...	1/26/2018	1/27/2018	Closed	John Wa...	300	500
<input type="checkbox"/>	2	ACME ...	Determi...	1/28/2018	1/28/2018	Closed	James C...	600	800
<input type="checkbox"/>	3	ACME ...	Run inst...	1/31/2018	1/31/2018	Closed	James C...	200	200
<input type="checkbox"/>	4	ACME ...	Create ...	2/2/2018	2/2/2018	Closed	John Wa...	100	100
<input type="checkbox"/>	5	ACME ...	Specify ...	2/7/2018	2/7/2018	Open	John Wa...	200	300
<input type="checkbox"/>	6	ACME ...	Configu...	2/8/2018	2/8/2018	Open	John Wa...	200	100
<input type="checkbox"/>	7	ACME ...	Select s...	2/11/2018	2/13/2018	Open	James C...	200	600
<input type="checkbox"/>	8	Bug Tra...	Docum...	12/15/17	12/15/17	Closed	Myra Su...	3000	2000
<input type="checkbox"/>	9	Bug Tra...	Review...	12/16/17	12/18/17	Closed	Myra Su...	750	1500

Similarly perform the same step for **End Date** and **Assigned To** column.

24. Resize the columns' width using the mouse.

25. You want to add a chart to the interactive grid. Select **Actions > Chart**.

	Id	Project	Task Name	Bud...
<input checked="" type="checkbox"/>	1	ACME Web Express Configuration	Identify server requirements	500
<input type="checkbox"/>	2	ACME Web Express Configuration	Determine Web listener con	800
<input type="checkbox"/>	3	ACME Web Express Configuration	Run installation	200
<input type="checkbox"/>	4	ACME Web Express Configuration	Create pilot workspace	100
<input type="checkbox"/>	5	ACME Web Express Configuration	Specify security authentica	300
<input type="checkbox"/>	6	ACME Web Express Configuration	Configure Workspace provis	100
<input type="checkbox"/>	7	ACME Web Express Configuration	Select servers for Developm	600
<input type="checkbox"/>	8	Bug Tracker	Document quality assurance	2000
<input type="checkbox"/>	9	Bug Tracker	Review automated testing t	1500
<input type="checkbox"/>	10	Bug Tracker	Implement bug tracking software	Closed 100 100
<input type="checkbox"/>	11	Bug Tracker	Train developers on tracking bugs	On-H... 1000 2000
<input type="checkbox"/>	12	Bug Tracker	Measure effectiveness of improve...	Pendi... 0 500

26. In the Chart dialog:

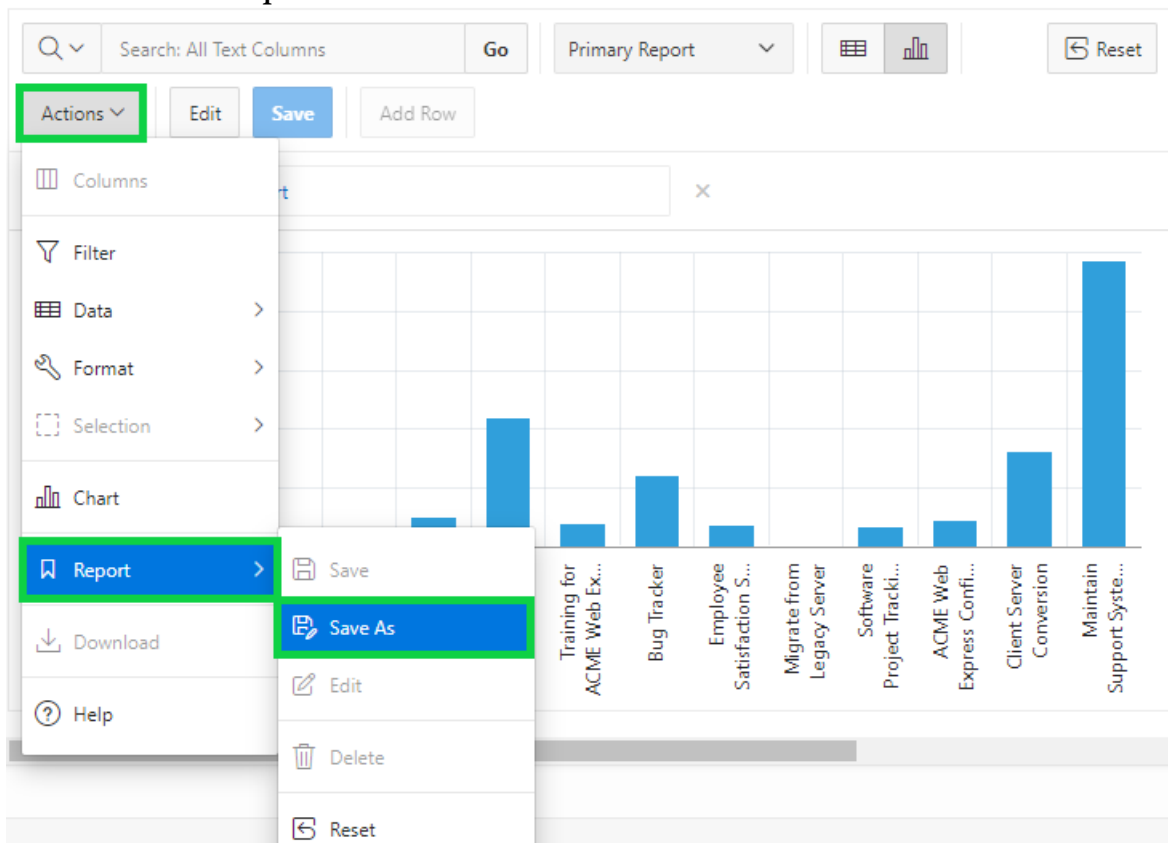
- Type: Select **Bar**
- Label: Select **Project**
- Value: Select **Cost**
 - Aggregation: Select **Sum**

Click **Save**.

Chart configuration dialog showing the following settings:

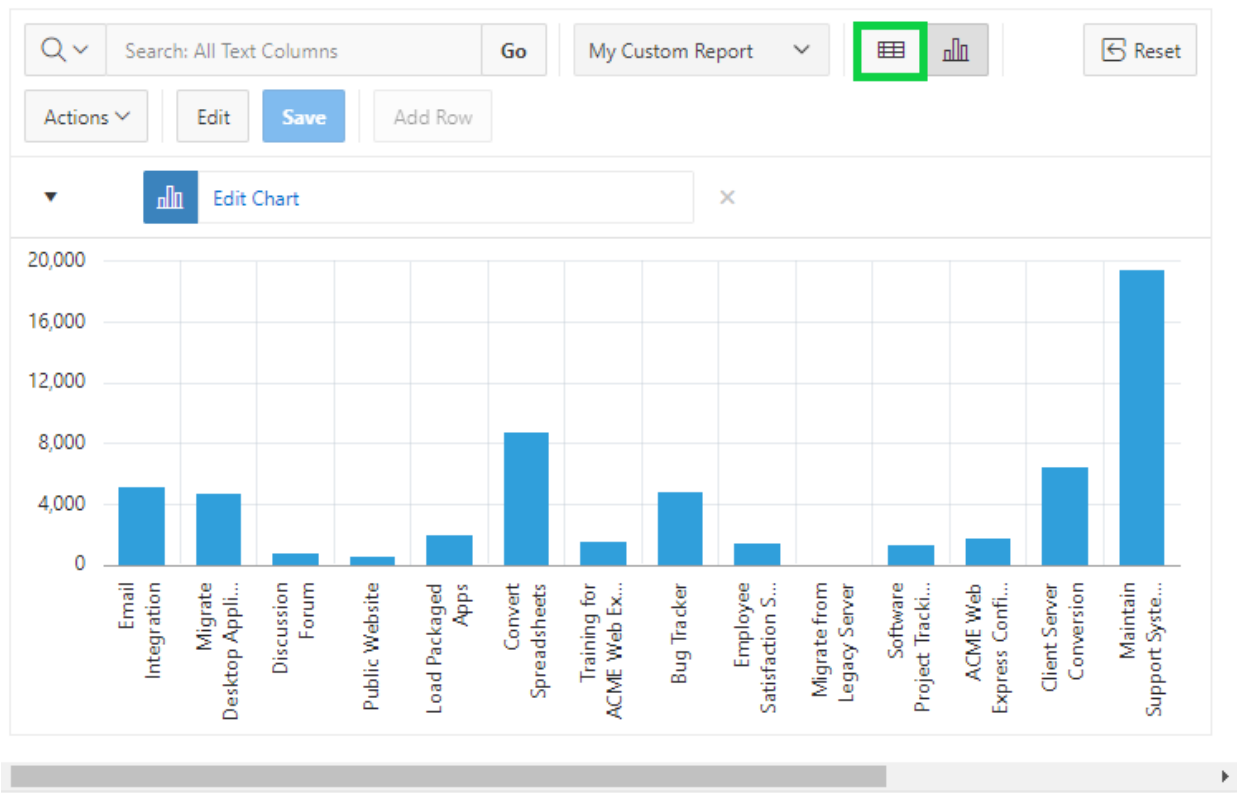
- Type: Bar (highlighted with a green box)
- Orientation: Vertical
- Label: Project (highlighted with a green box)
- Value: Cost (highlighted with a green box)
- Aggregation: Sum (highlighted with a green box)
- Buttons: Help, Cancel, Save (Save is highlighted with a green box)

27. The chart is displayed. You want to save the customization made to the interactive grid. Select **Actions > Report > Save As**.



28. In the Report – Save As dialog, select **Private** for Type. Enter **My Custom Report** for Name. Then, click **Save**.

29. The report is now saved under Private in the Reports drop down list. Click the **Grid** icon.



30. You want to download the report. Select **Actions > Download**.

Search: All Text Columns Go My Custom Report Reset

Actions Edit Save Add Row

Columns Filter Data Format Selection Chart Report Download Help

Task Name	Status	Cost	Budget
E Web Express Configuration Identify server requirements	Closed	300	500
E Web Express Configuration Determine Web listener config...	Closed	600	800
E Web Express Configuration Run installation	Closed	200	200
E Web Express Configuration Create pilot workspace	Closed	100	100
E Web Express Configuration Specify security authentication...	Open	200	300
E Web Express Configuration Configure Workspace provisio...	Open	200	100
E Web Express Configuration Select servers for Developmen...	Open	200	600
Bug Tracker Document quality assurance p...	Closed	3000	2000
Bug Tracker Review automated testing tools	Closed	750	1500
Bug Tracker Implement bug tracking softw...	Closed	100	100
Bug Tracker Train developers on tracking b...	On-Hold	1000	2000
Bug Tracker Measure effectiveness of impr...	Pending	0	500

1 rows selected |< < 1 2 3 4 5 ... > >| 1 - 13 of 73

31. Note that the HTML download option is no longer available. Select **CSV** and click **Download**.

Download

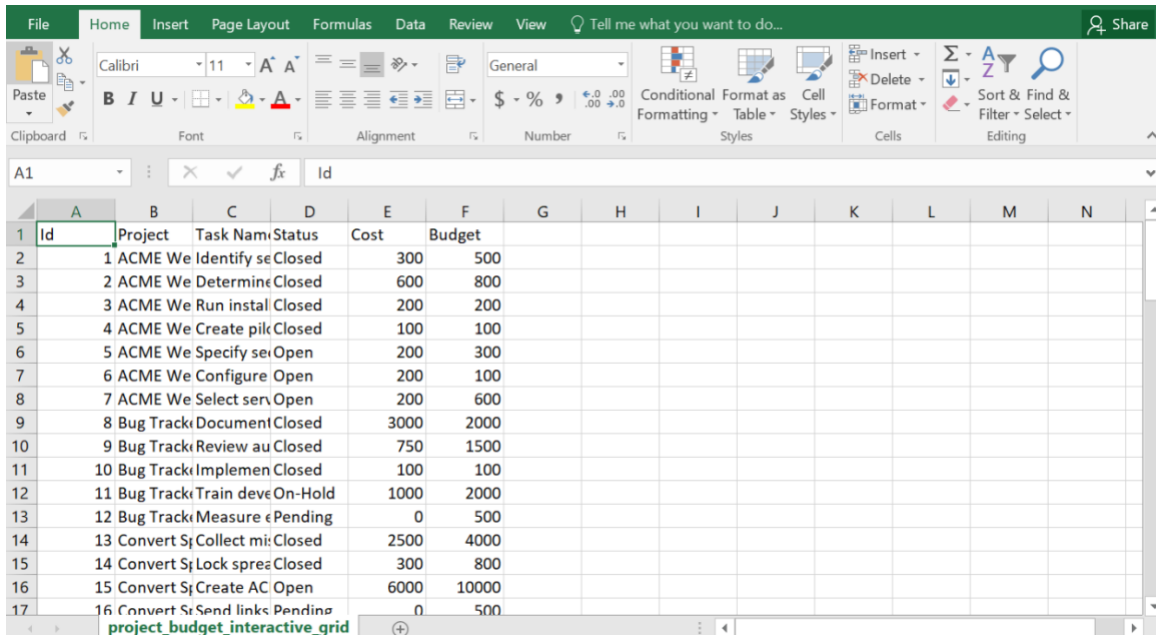
Choose Format

CSV

Send as Email

Help Cancel Download

32. The report is now downloaded as CSV.



Id	Project	Task Name	Status	Cost	Budget
1	ACME We	Identify se	Closed	300	500
2	ACME We	Determine	Closed	600	800
3	ACME We	Run instal	Closed	200	200
4	ACME We	Create pilk	Closed	100	100
5	ACME We	Specify se	Open	200	300
6	ACME We	Configure	Open	200	100
7	ACME We	Select serv	Open	200	600
8	Bug Track	Document	Closed	3000	2000
9	Bug Track	Review au	Closed	750	1500
10	Bug Track	Implemen	Closed	100	100
11	Bug Track	Train dev	On-Hold	1000	2000
12	Bug Track	Measure e	Pending	0	500
13	Convert S	Collect mi	Closed	2500	4000
14	Convert S	Lock spre	Closed	300	800
15	Convert S	Create AC	Open	6000	10000
16	Convert S	Send link	Pending	0	500



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