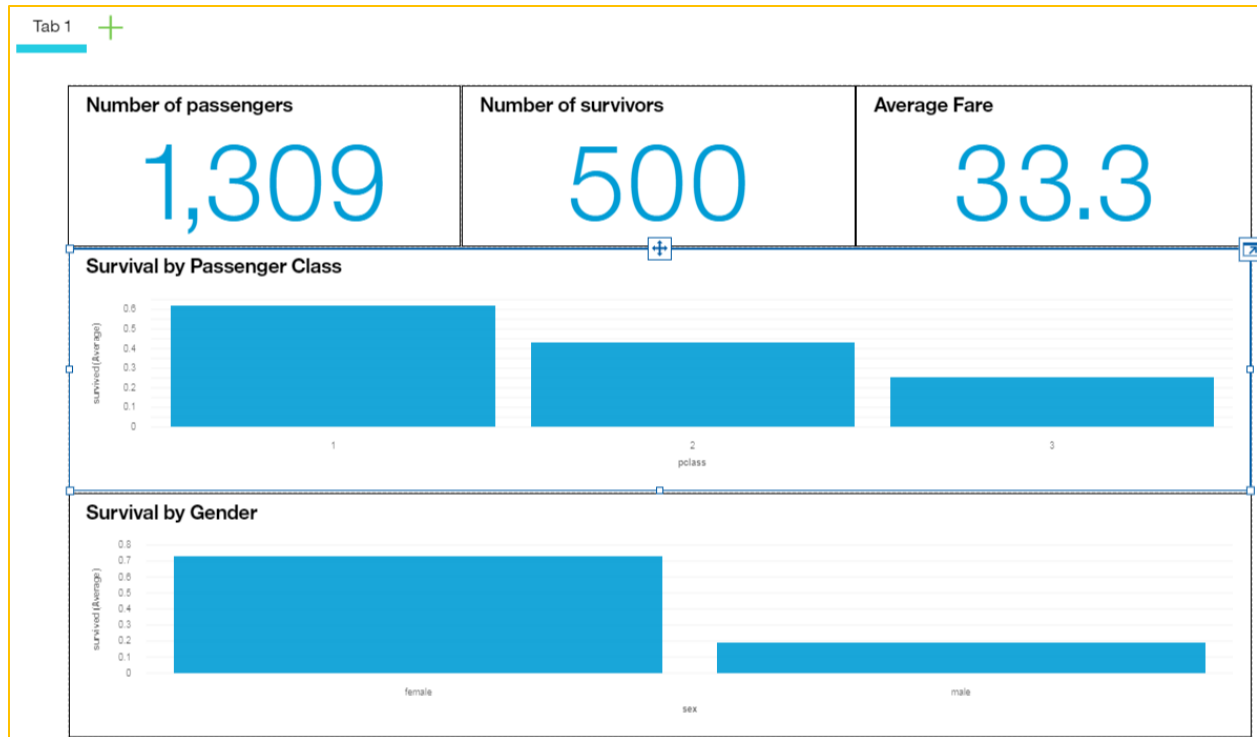


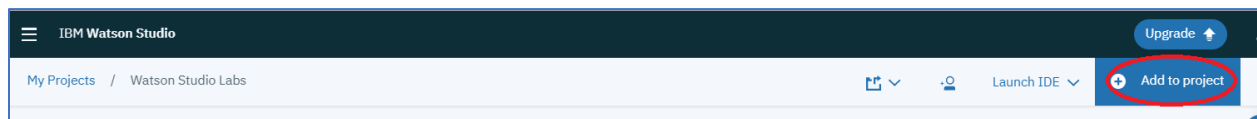
Watson Studio Dashboard Lab

This lab will introduce the Cognos Dashboard Embedded capability in Watson Studio. The lab will use the titanic.csv data set already uploaded to your project. You will create the simple dashboard shown below.

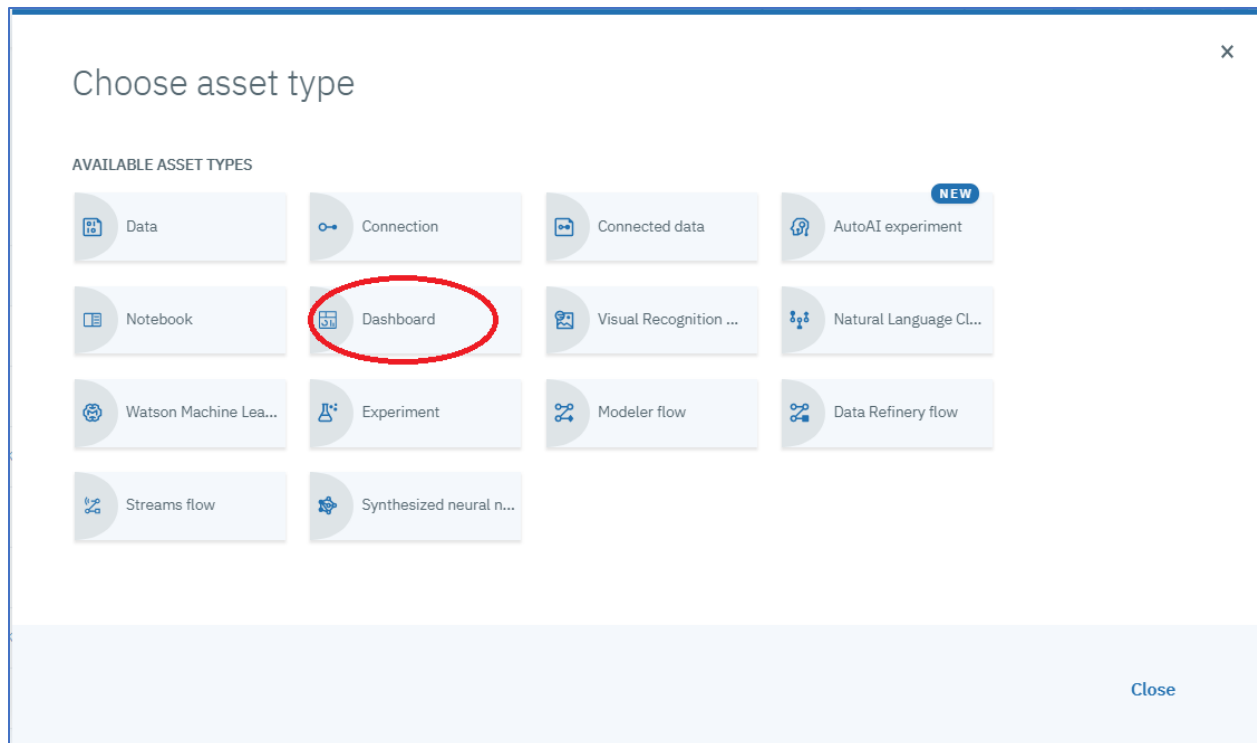


Step 1: Create new dashboard instance

1. From the Watson Studio Labs project, click on **Add to Project**.



2. Click on **Dashboard**.



3. Enter a **Name** for the dashboard. Dashboard creation requires a Cognos Dashboard Embedded service to be created and associated with the project. Click on **Associate a Cognos Dashboard Embedded service instance with your project**.

The screenshot shows the 'New Dashboard' form. At the top, there are two tabs: 'Blank' (selected) and 'From file'. Below the tabs, the 'Name*' field contains the text 'Titanic Dashboard' and is circled in red. Below this is a 'Description' field with the placeholder text 'Type your description here'. Further down, there is a section titled 'Associate a Cognos Dashboard Embedded service instance' which states 'No Cognos Dashboard Embedded service instances are associated with your project.' Below this text, the instruction 'Associate a Cognos Dashboard Embedded service instance with your project' is circled in red, followed by the text 'then click the reload button to refresh the instances available to associate with this dashboard.' At the bottom of this section is a 'Reload' button.

4. Click on **Lite** plan (should be the default) and click **Create**.

IBM Cognos Dashboard Embedded

Existing

New

IBM Cognos Dashboard Embedded

The IBM Cognos Dashboard Embedded lets you, the developer, painlessly add end-to-end data visualization capabilities to your application so your users can easily drag and drop to quickly find valuable insight and create visualizations on their own.

Features

Live connection to underlying data

Interactive dashboards produce visualizations directly from your data in real-time.

Smart creation of visualizations

Smart data analysis and visualization capabilities help users discover underlying patterns and meanings in their data.

Interactive exploration of data

Data can be explored using filtering and navigation paths.

Embedded in your application

Because dashboards are fully embedded, dashboards are integrated into your application's context, keeping users engaged.

Pricing Plan: Monthly Process shown above reflect the: United States

PLAN	FEATURES	PRICING
<div><div><div>●</div> Lite</div></div>	<div>50 sessions/month</div> <div>A session is a 60 minute period where end-users can perform unlimited interactions with an embedded dashboard.</div>	<div>Free</div>
<div><div><div><div></div></div> Pay as you go</div></div>	<div>After 50 sessions</div> <div>Live connection to underlying data.</div> <div>Embed dashboards where users are without losing interactivity</div> <div>Smart Creation of Visualizations</div> <div>Interactive exploration of data through filtering and navigation paths</div>	<div>\$0.05 USD/Session</div>

Cancel

Create

5. Click **Confirm**.

Confirm Creation

Plan

Lite

Resource group

Default

Service name

cognos-dashboard-embedded-ve

Cancel

Confirm

6. Click **Reload**.

New Dashboard

Blank From file

Name*
Titanic Dashboard

Description
Type your description here

Associate a Cognos Dashboard Embedded service instance
No Cognos Dashboard Embedded service instances are associated with your project.
Associate a Cognos Dashboard Embedded service instance with your project, then click the reload button to refresh the instances available to associate with this dashboard.

Reload

Cancel Save

7. Click on the **Cognos Dashboard Embedded Service** instance and click **Save**.

New Dashboard

Blank From file

Name*
Titanic Dashboard

Description
Type your description here

Cognos Dashboard Embedded Service
cognos-dashboard-embedded-yw

Cancel Save

8. Select the template to use to construct the dashboard. We will use the one shown below.
Click **OK**.

Select a template

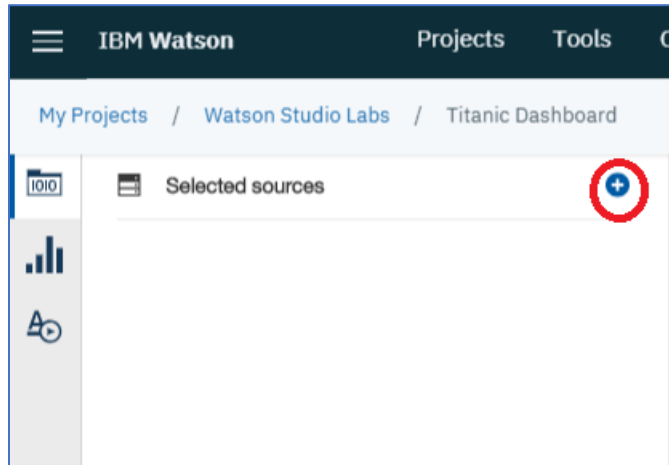
Tabbed

Infographic

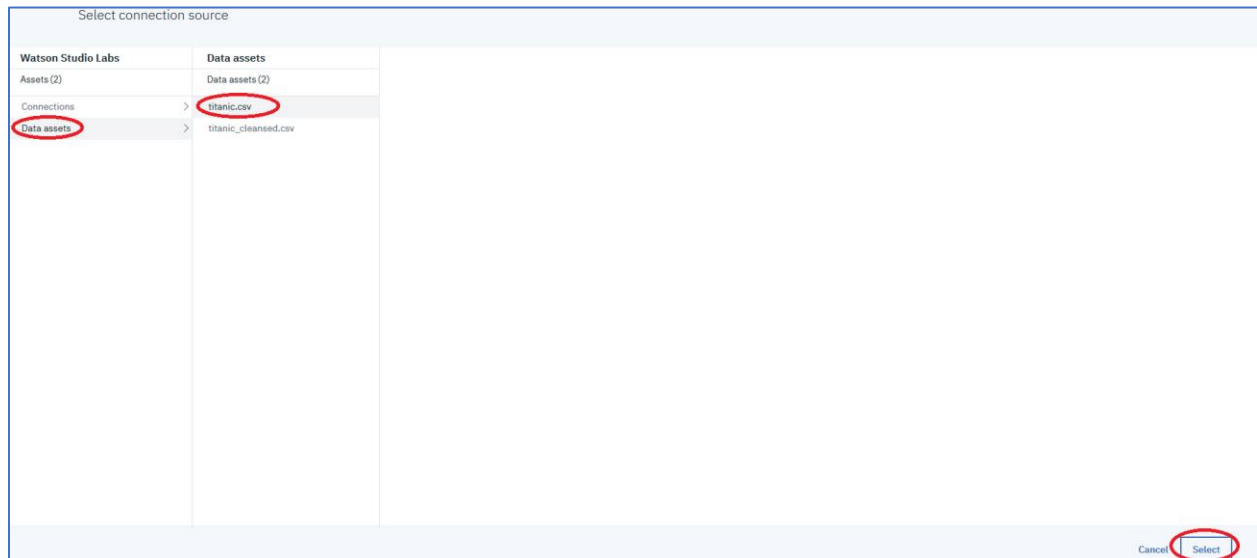
OK

Step 2: Add the titanic.csv data source.

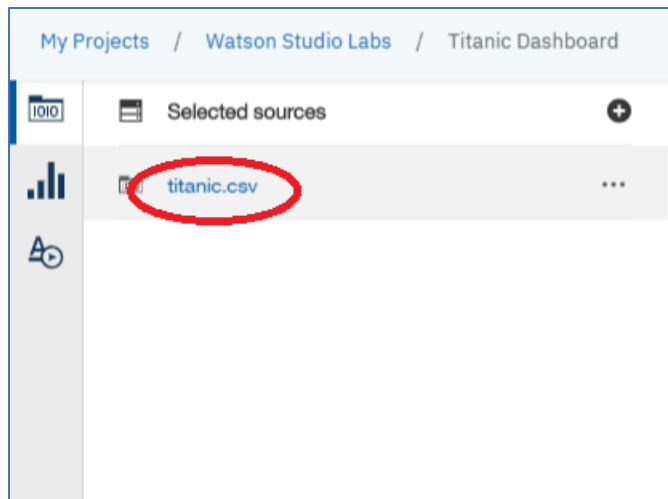
1. Click on the + icon at the top left of the panel



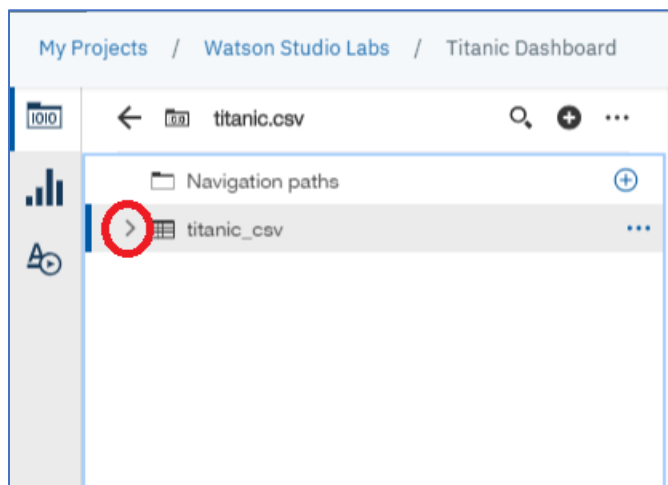
2. Select **Data Assets**, **titanic.csv**, and then click on **Select**.



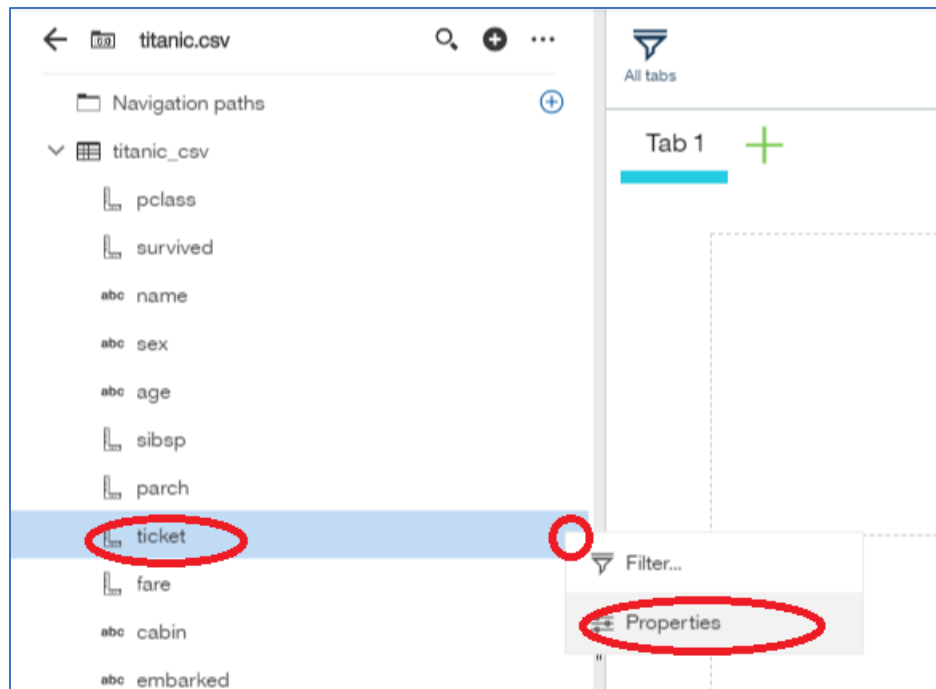
3. Select **titanic.csv**.



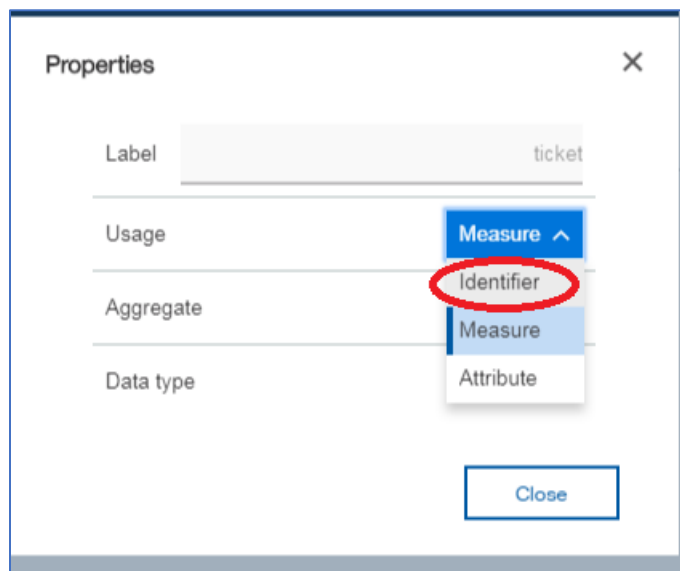
4. Select the right arrow next to **titanic**.




5. Select **ticket**, click on the **...** and then select Properties.



6. Select **Identifier** for Usage.

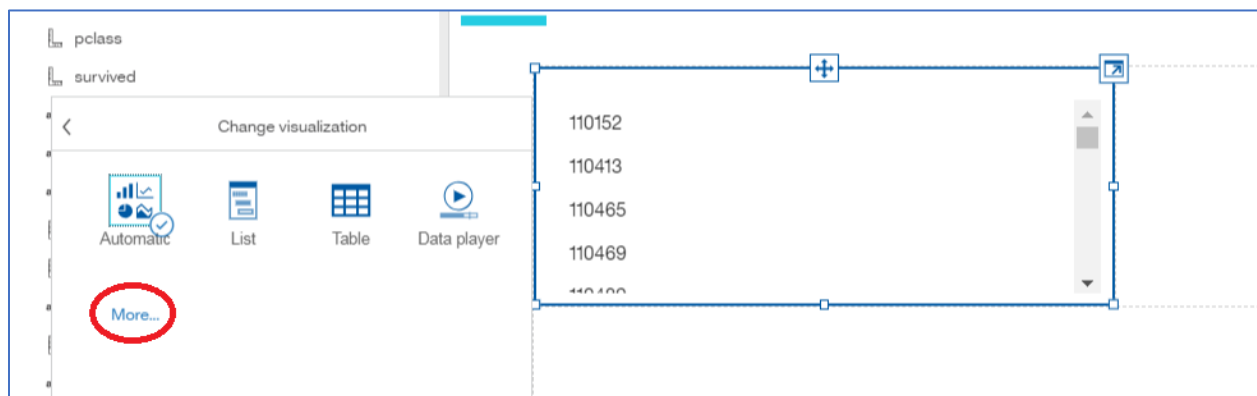


7. Select **Count** for Aggregate and select **Close**.

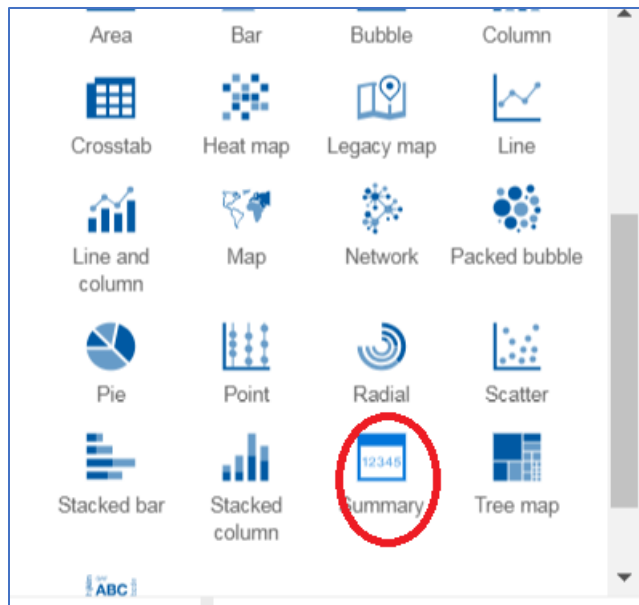
9. Click on the change visualization icon .




10. Click on **More**.



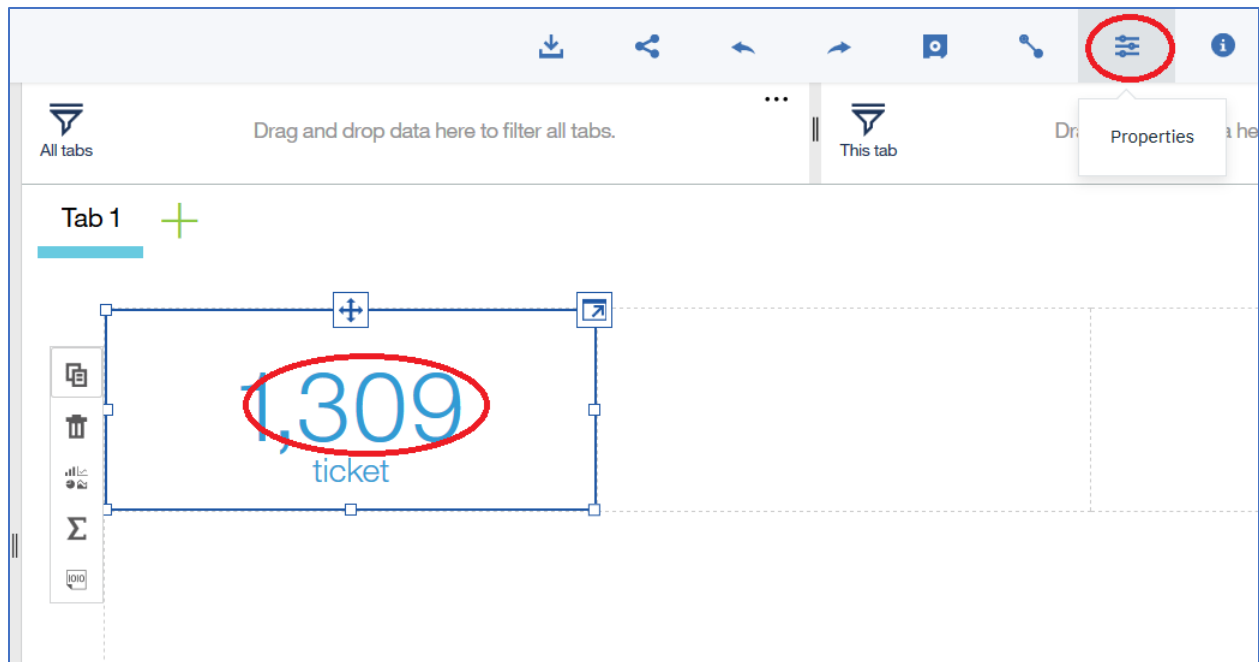
11. Scroll down and click on **Summary**.



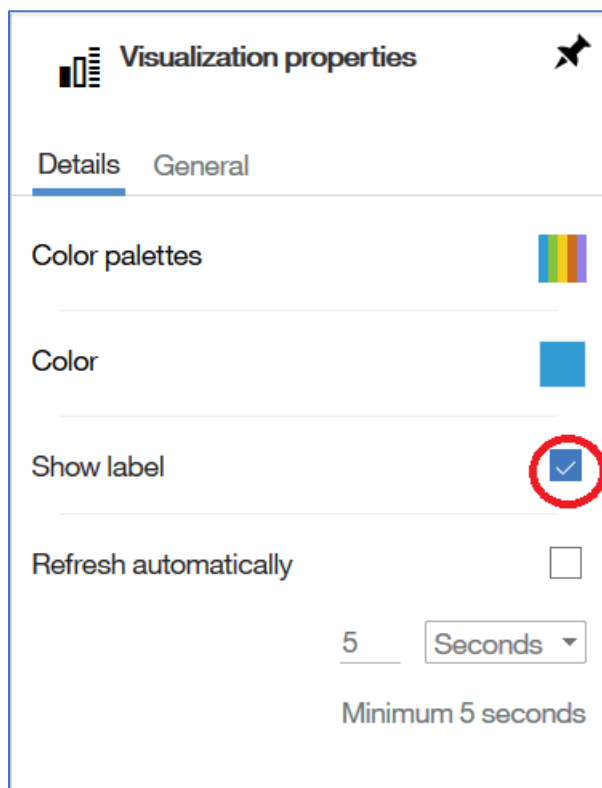
12. Click on the collapse icon .





13. Click on the **1,309**, and then click on the Property icon .



14. Deselect **Show label** checkbox in the **Visualization properties** panel.




15. Click on **General** in the **Visualization properties** panel.

 Visualization properties 


Details

General

Color palettes



Color



Show label

☐

Refresh automatically



☐

5

Seconds

Minimum 5 seconds

16. Click on **Show title**

 Visualization properties 


Details

General

Fill color

☐

Border color



Show title

☐

Opacity

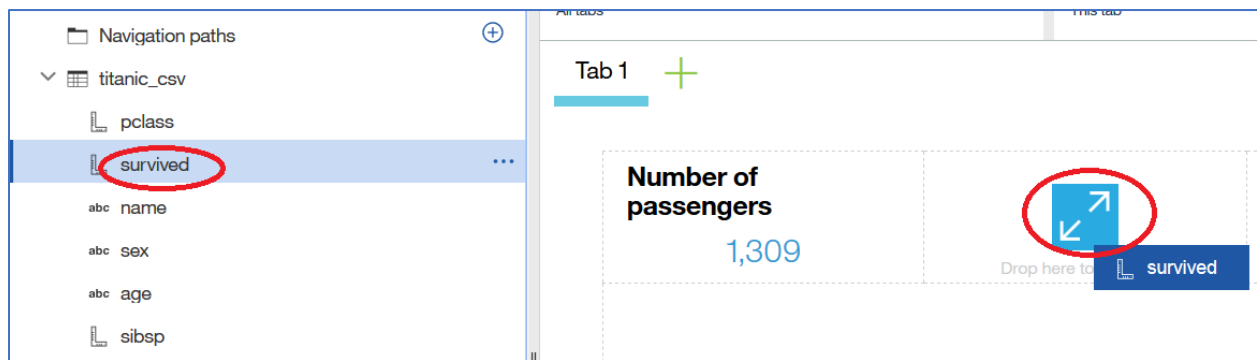
0%


100%

17. Enter **Number of passengers** at the cursor above the 1309.



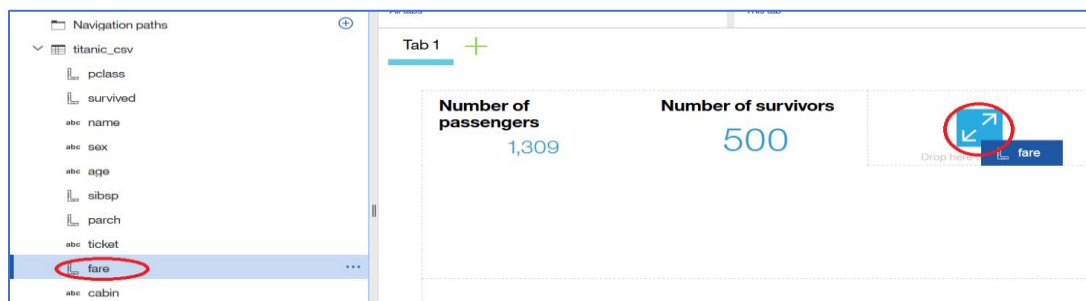
18. Drag **survived** to the top center rectangular area. Release when the square box with the arrows turns blue.



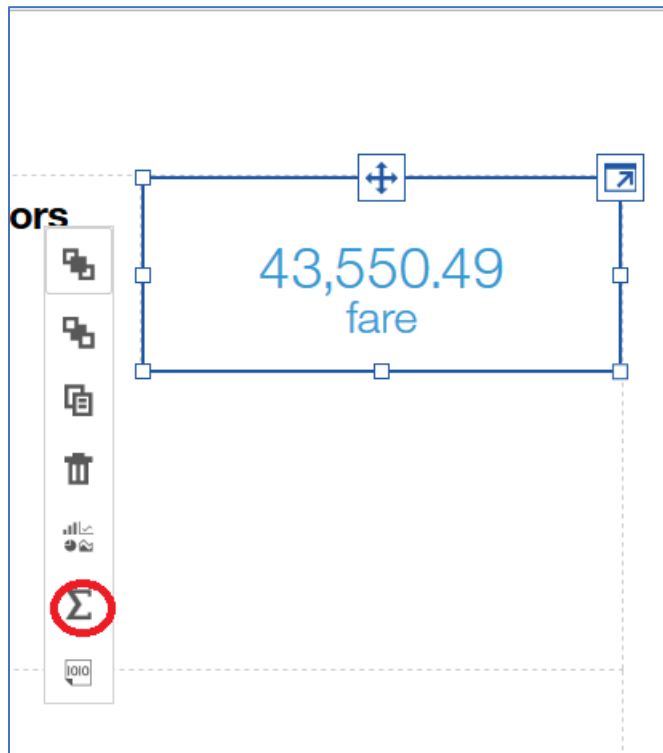
19. Click on the **500** and then click on the Properties icon . Repeat steps 14,15,16, and 17 (except in 17 type in Number of survivors). The screen should appear as below.



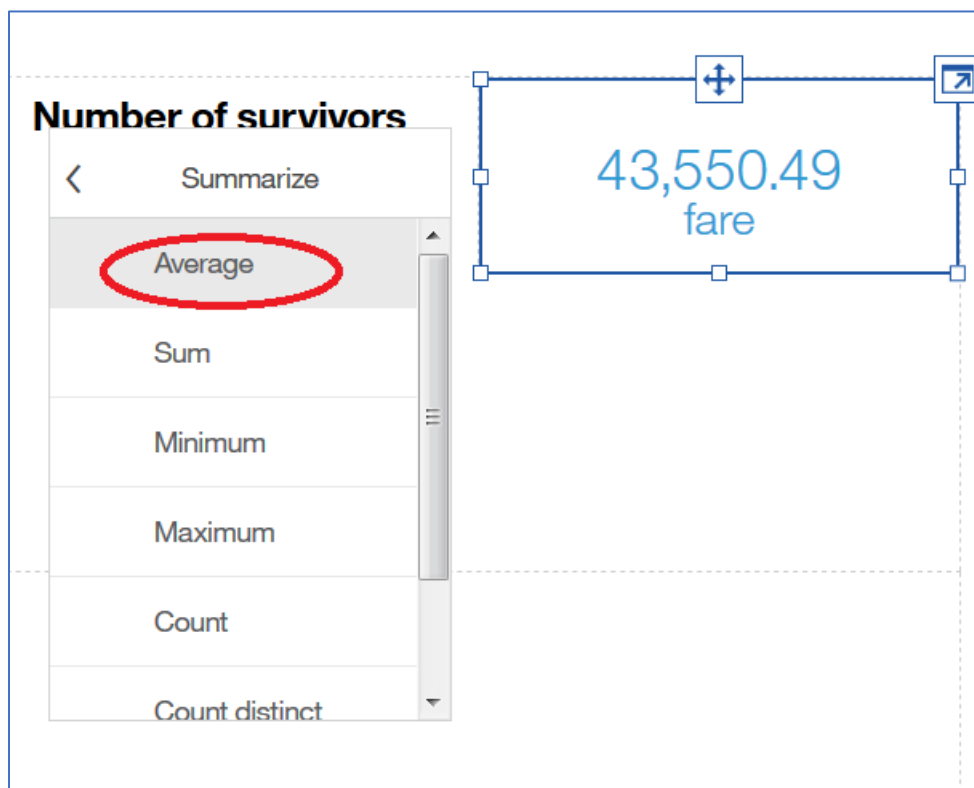
20. Drag fare onto the canvas and place in the third rectangular area at the top of the screen. Release when the square box with the arrows turns blue.




21. Click on the Aggregate icon Σ .




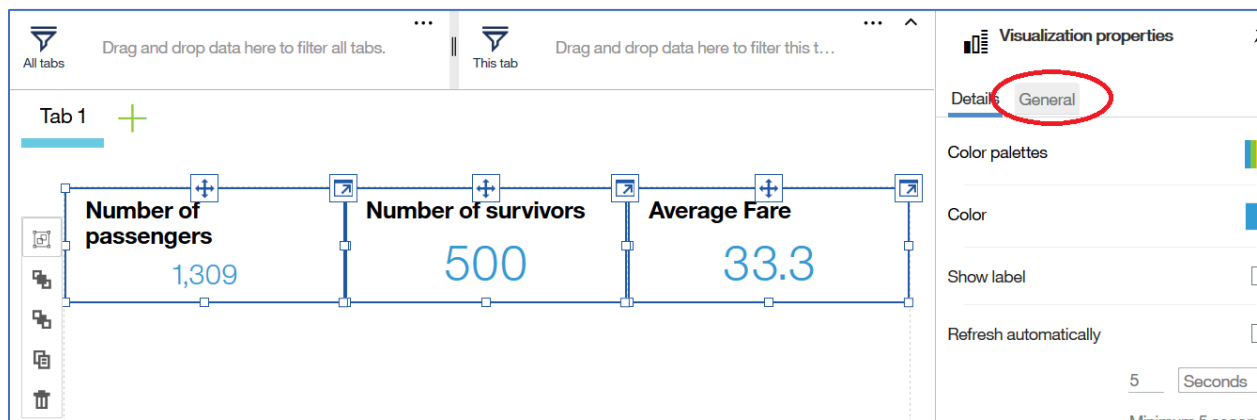
22. Click on **Average**.




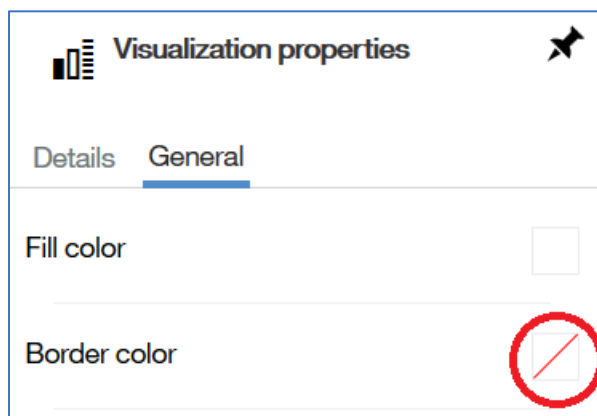
23. Click on the **33.3** fare and then click on the Properties icon . Repeat steps 14,15,16, and 17 (except in 17, type in Average Fare). The screen should appear as below.



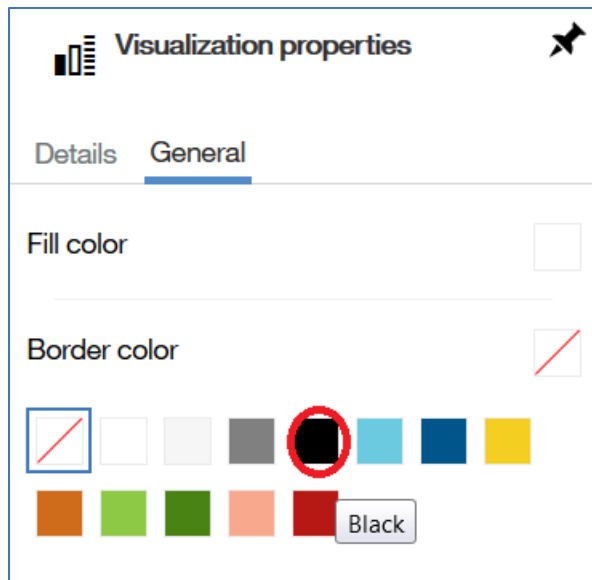
24. Click on the **1309**, click on the **Ctrl** button and click on the **500**, click on the **Ctrl** button and click on the **33.3** so that all 3 rectangles are selected. Click on the Properties icon . Click on **General**




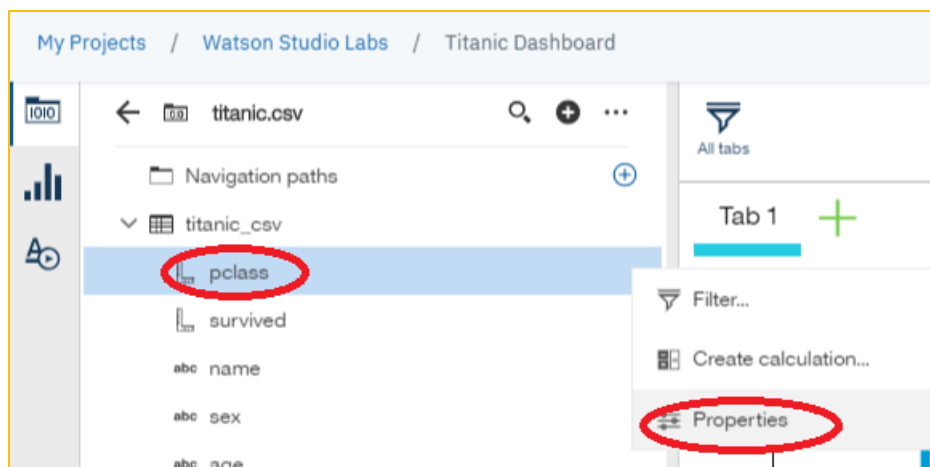
25. Click on the Border color icon  in the Visualization properties panel.



26. Click on the black color icon.



27. Click on **pclass** from the left pane and click on the horizontal ellipse . Click on **Properties**.



28. Change the **Usage** from **Measure** to **Attribute**.

Properties ✕

Label

Usage Measure ^

Aggregate Identifier

Measure

Data type Attribute

Close

29. Change the **Aggregate** from **Total** to **Count**, and then click **Close**.

Properties ✕

Label

Usage Attribute v

Aggregate Count v

Data type

Sorting

Sort ☐

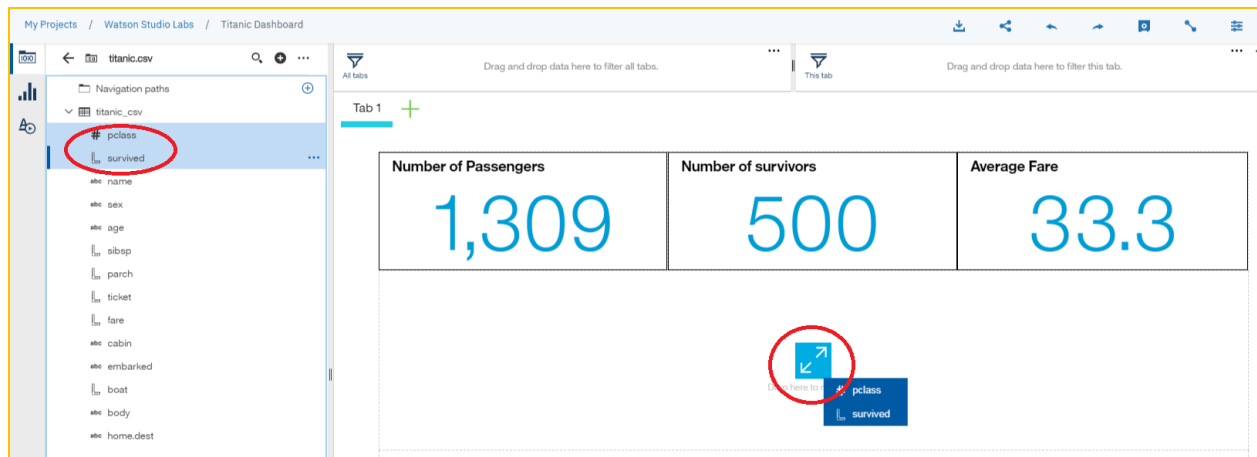
Sort by pclass v

Order ☒ Ascending ☐ Descending

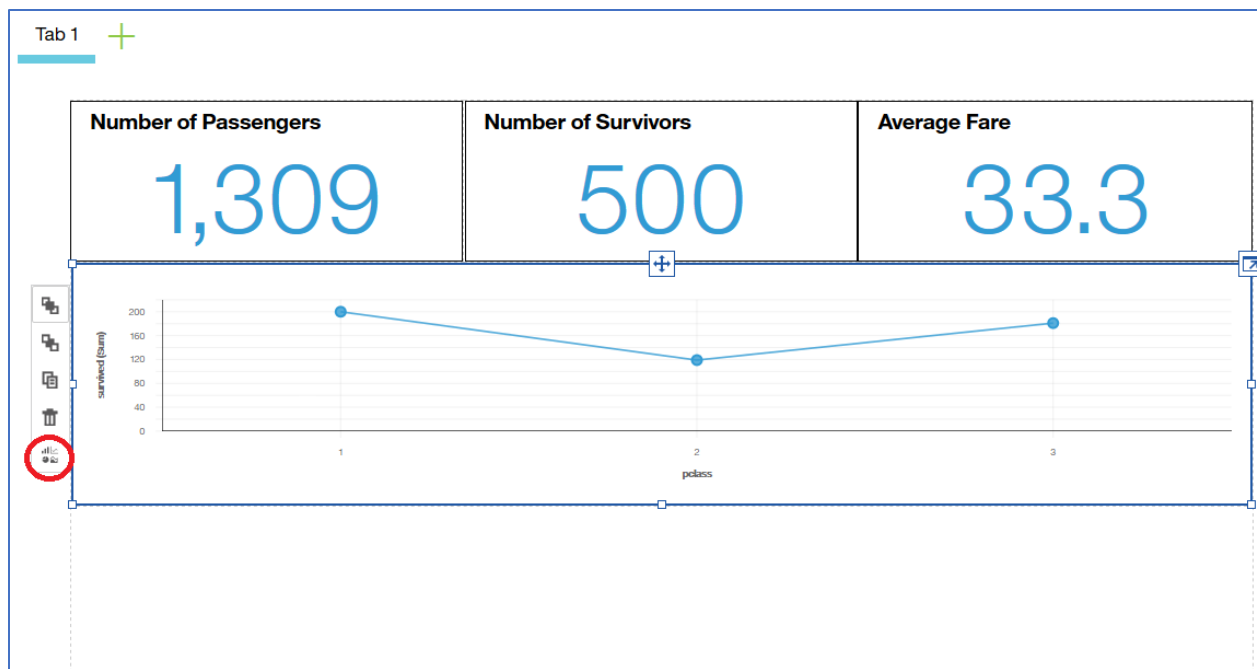
NULL values ☐ First ☒ Last

Close

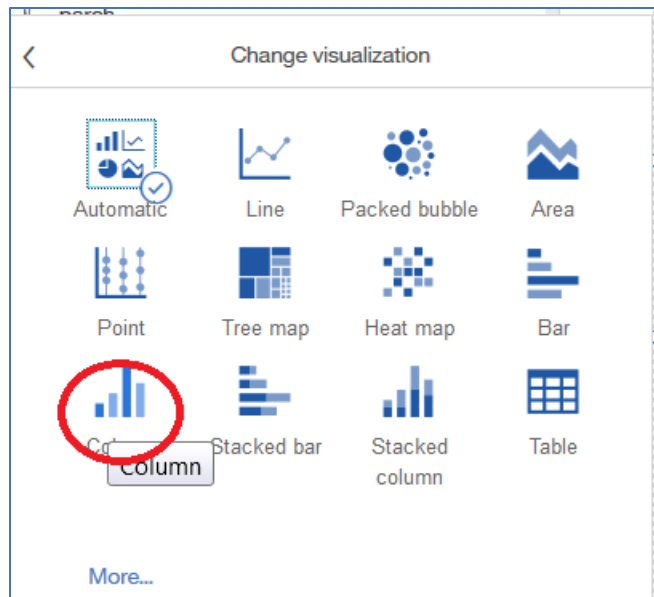
30. Click on **pclass** and Ctrl-click on **survived** in the left pane and drag into the middle rectangular area. Release when the square box with the arrows turns blue.



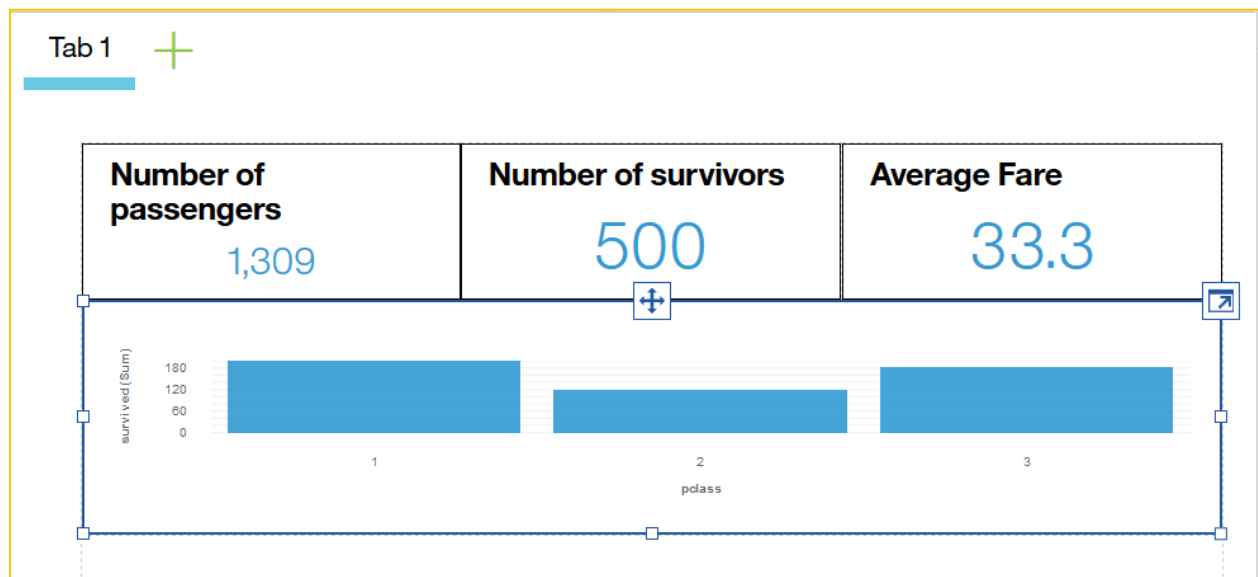
31. The screen should appear as below. Change the visualization to **Column** by clicking on the visualization icon.



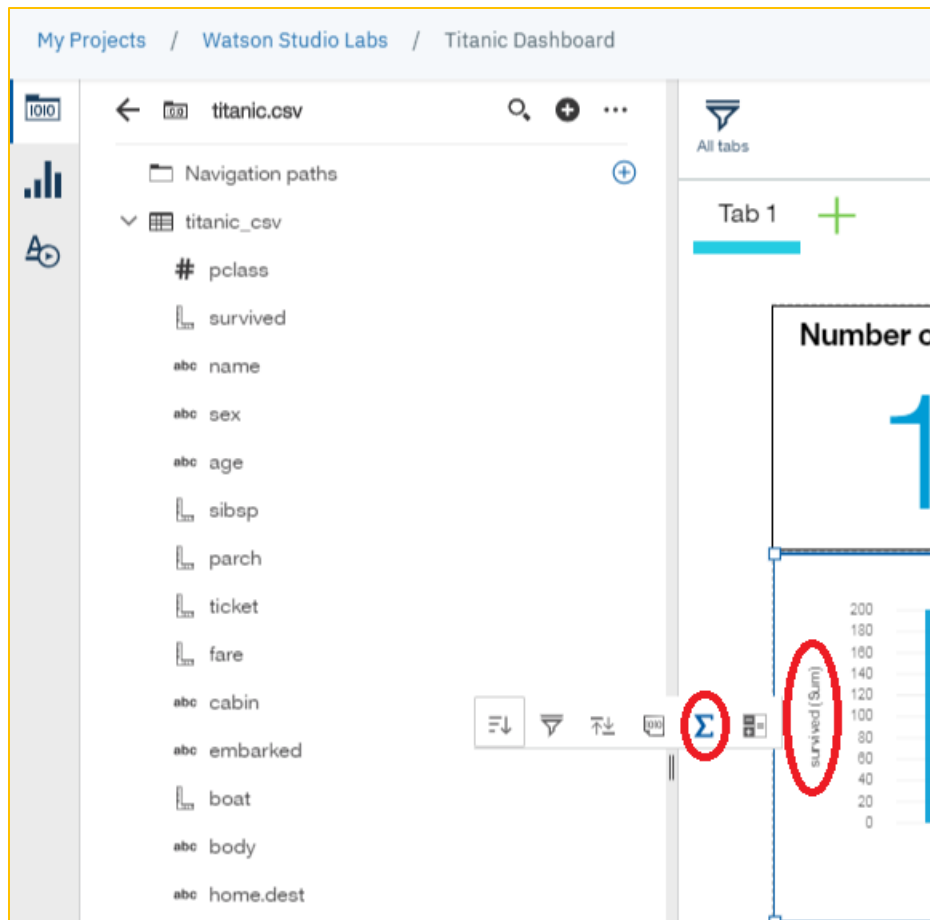
32. Click on the Column icon.



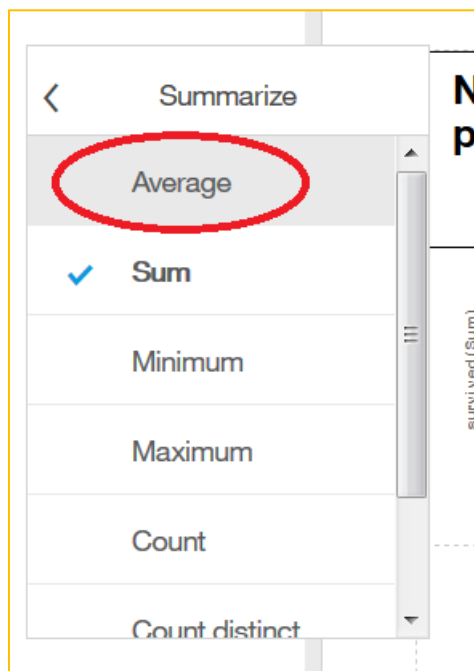
33. The survived-pclass graphic depicts the number of survivors in each of the passenger class categories. You may be more interested in the percentage that survived in each passenger class category.



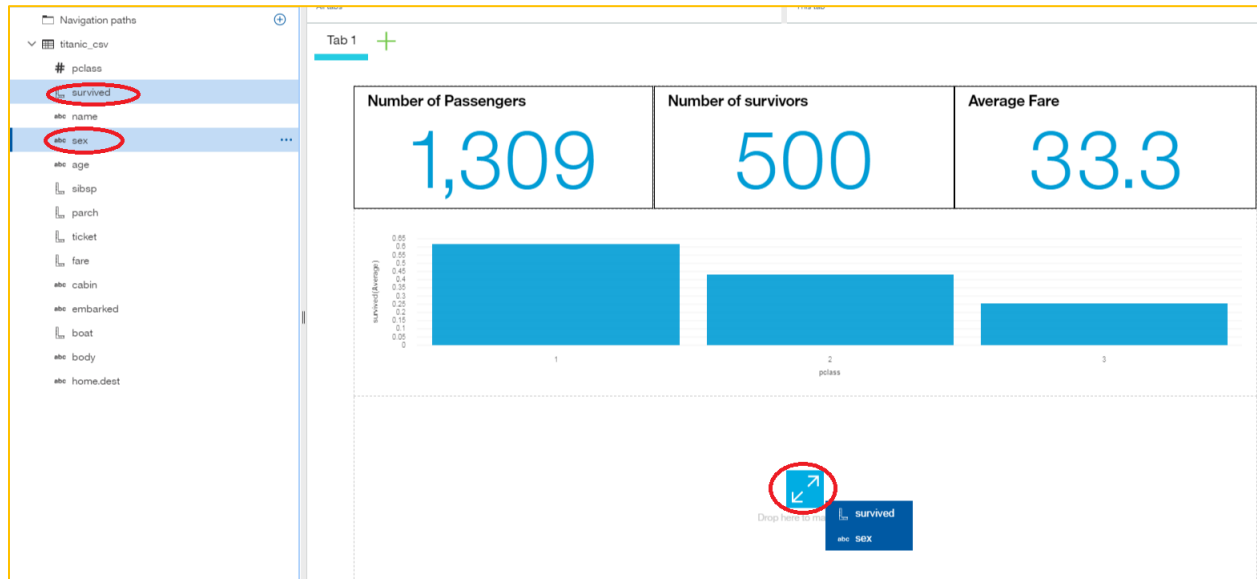
34. To get the percentage, we need to right-click on the **survived(Sum)** title on the left side of the visualization, and then click on the Aggregate icon Σ .



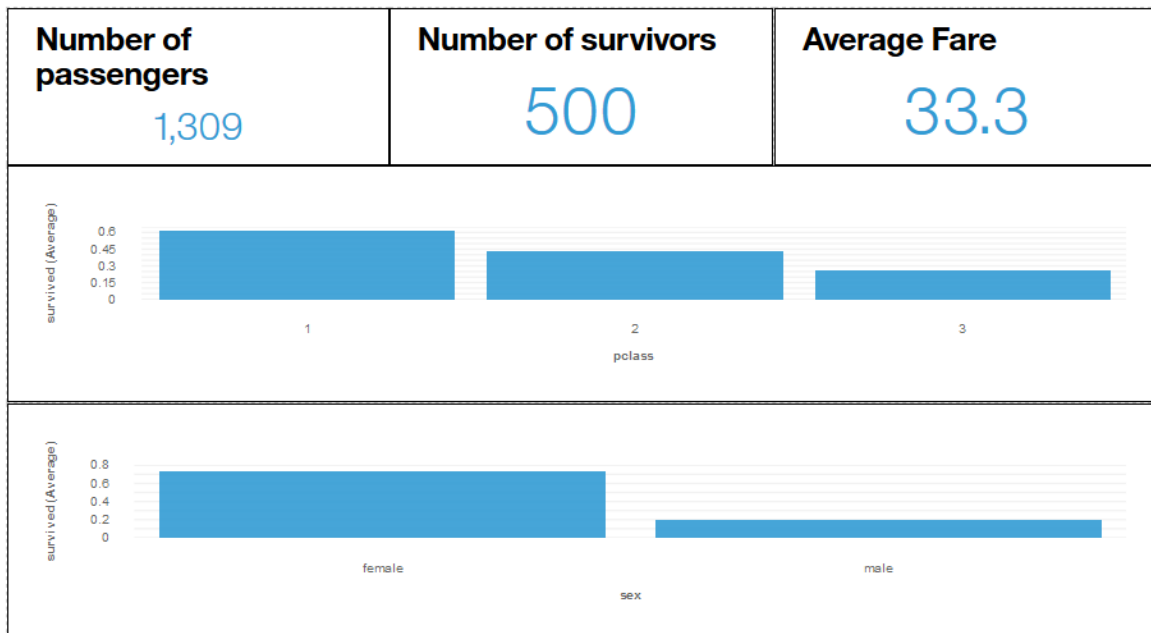
35. Click on **Average**.




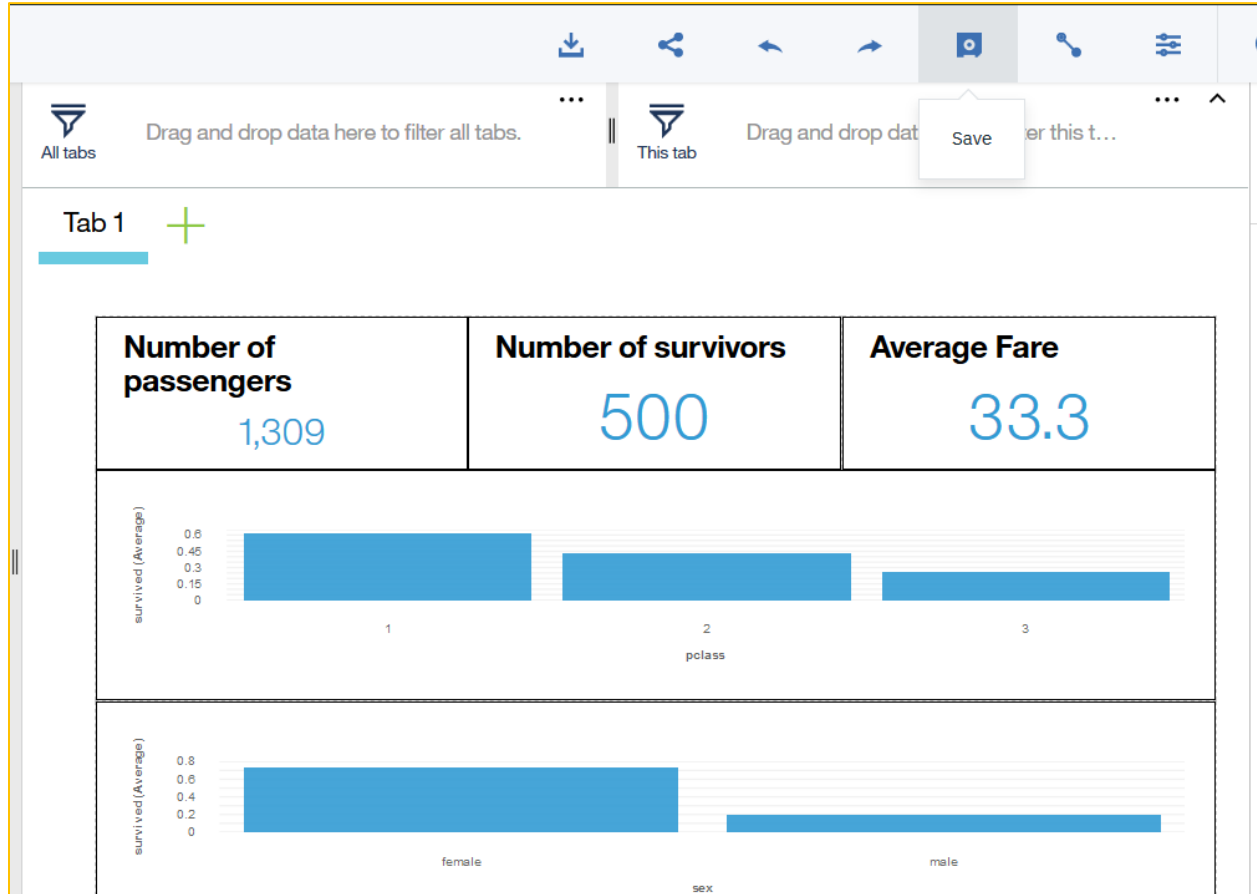
36. We can see that the percentage of survivors is highest in first class, followed by second class, and then third class. Click on **sex** and Ctrl-click on **survived** in the left pane and drag into the bottom rectangular area. Release when the square box with the arrows turns blue.



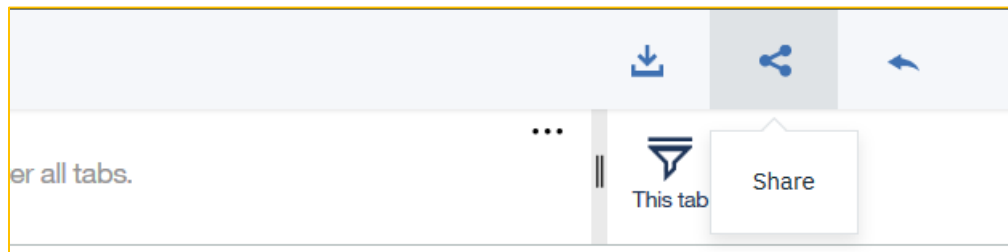
37. Repeat steps 31-35 to get the percentage of survivors in the Female and Mail categories. You can add a black border around the middle rectangular area and the bottom rectangular area by following steps 24 (note click on the middle and bottom rectangles, not what is specified in 24),25, and 26. The screen should appear as below.



38. Click on the Save icon  to save the dashboard in the project.



39. You can share the dashboard by clicking on the Share icon .




40. Click on the **Share with anyone who has the link** to the right of the white circle to activate the link.

Share Titanic Dashboard

Share a read-only view of this dashboard.

☐ Share with anyone who has the link.

 The link always points to the most recent version of the dashboard.

Permalink to view dashboard

<https://dataplatfom.cloud.ibm.com/dashboards/040c9972-f8f9-4c2c>




Close

41. Click on the Copy link icon .

Share Titanic Dashboard

Share a read-only view of this dashboard.

☒ Share with anyone who has the link.

 The link always points to the most recent version of the dashboard.

Permalink to view dashboard

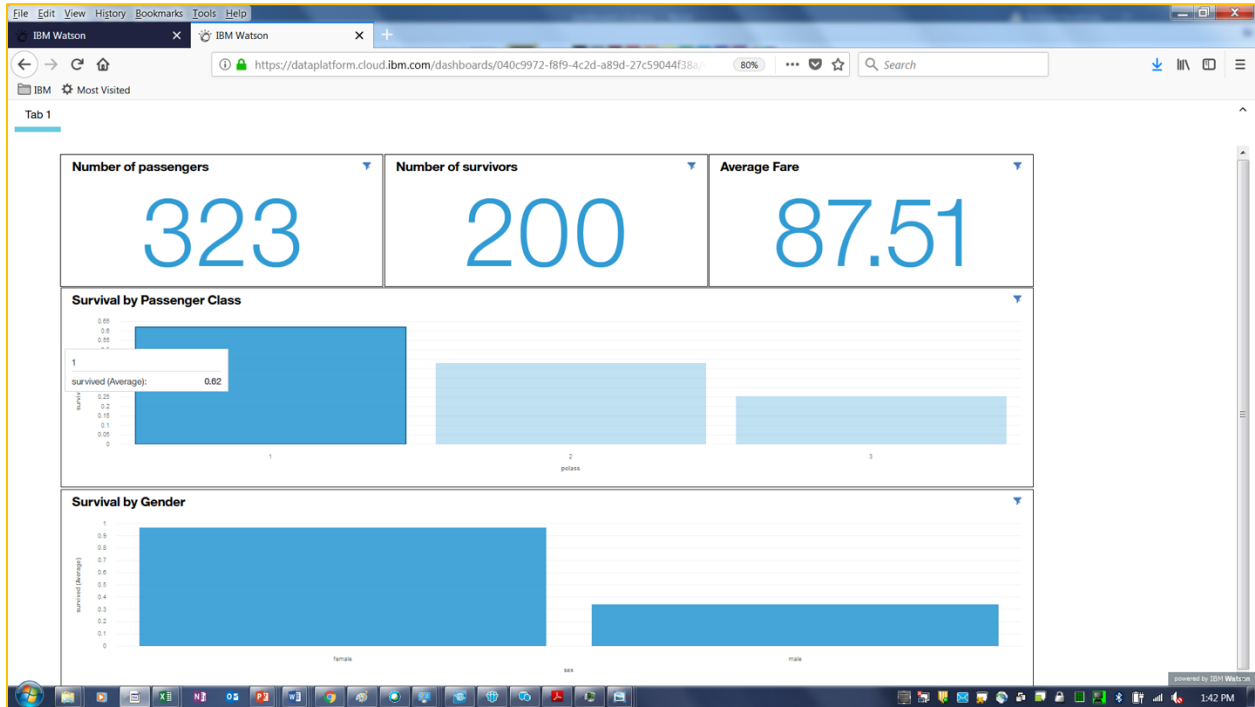
<https://dataplatfom.cloud.ibm.com/dashboards/040c9972-f8f9-4c2c>



Copy
link

Close

42. Paste the link into a new browser window. Note that the dashboard is interactive. You can select the first-class passenger bar in the middle rectangle and the dashboard will update to show the statistics about first class passengers. Note that the average fare has increased to 87.51 as it now shows the average fare for first class passengers.



43. You click on the first-class passenger bar again to deselect it, and the dashboard updates to show the values for all passengers.