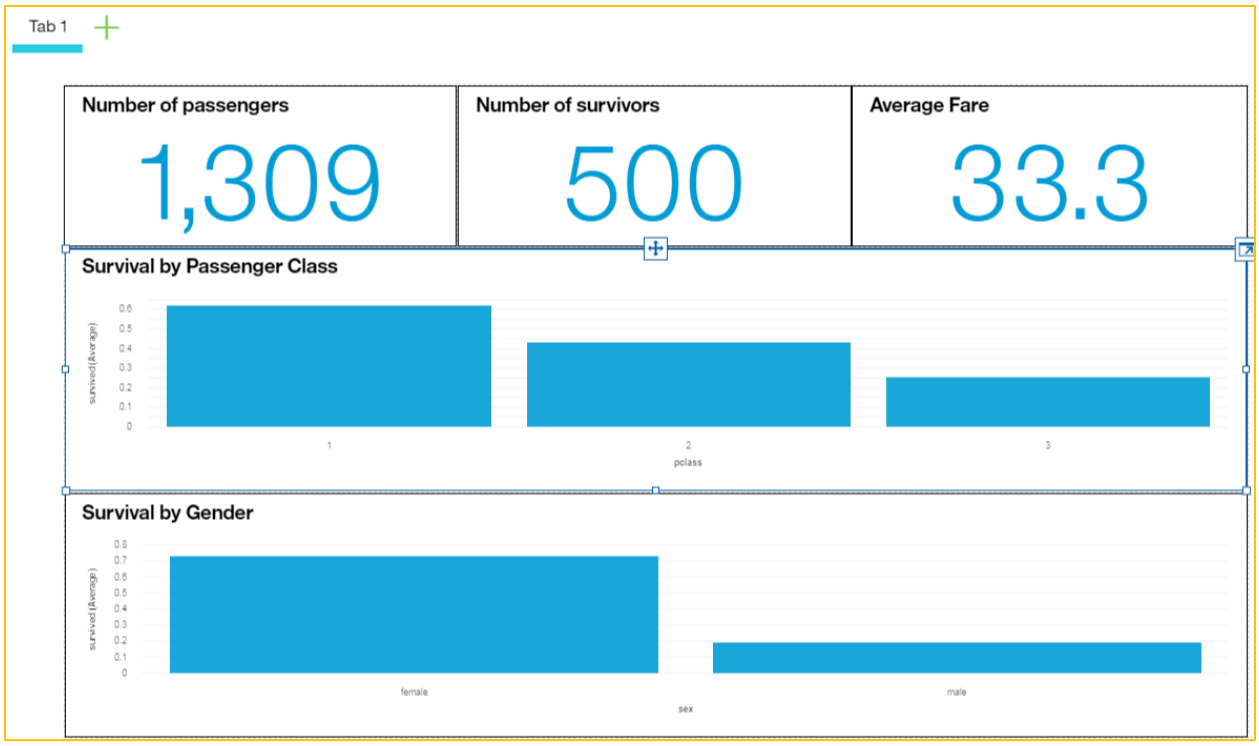
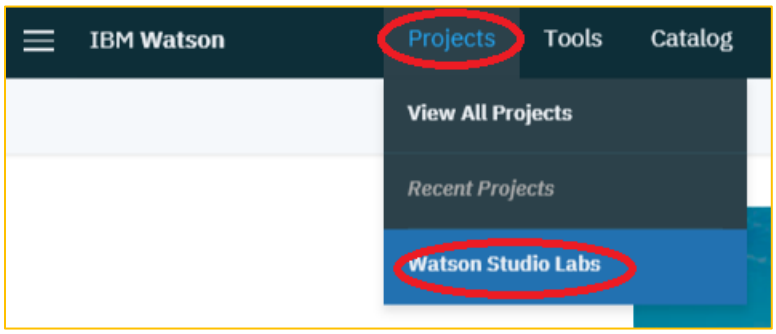
Watson Studio Dashboard Lab

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.

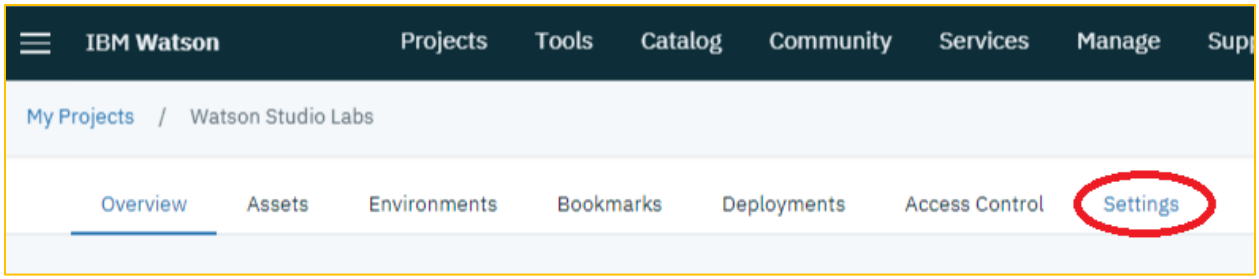


Step 1: Adding the Dashboard Service to the Project

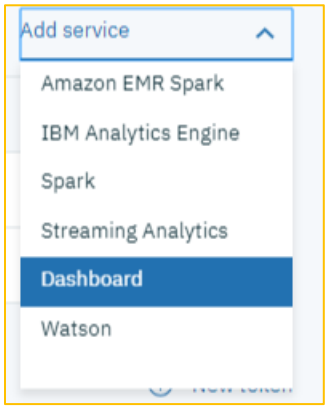
1. The Dashboard service needs to be added in the Project Settings. If you are not in the Watson Studio project, navigate to the project by clicking on Projects, and then the Watson Studio Lab project.



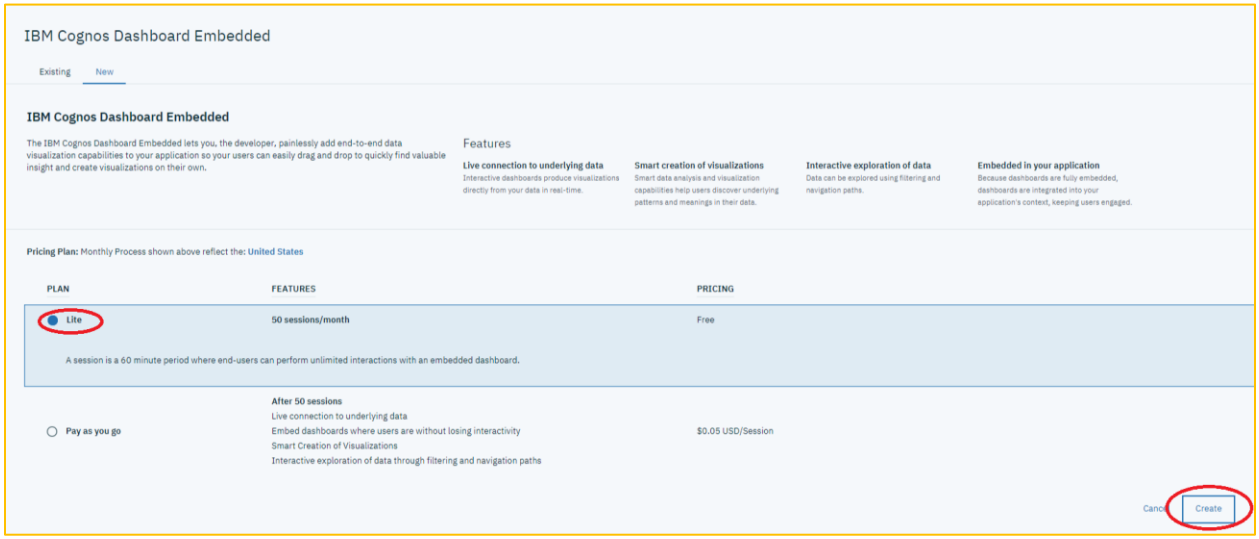
2. Click on Settings.



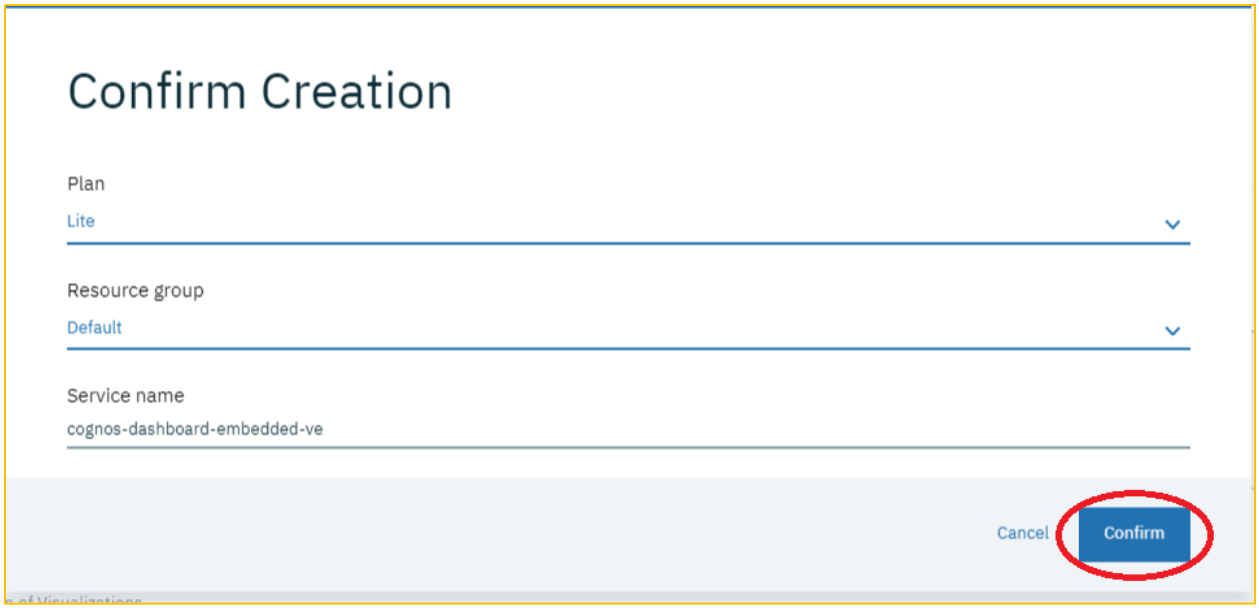
3. Scroll down to the **Add service** and click on **Dashboard.**



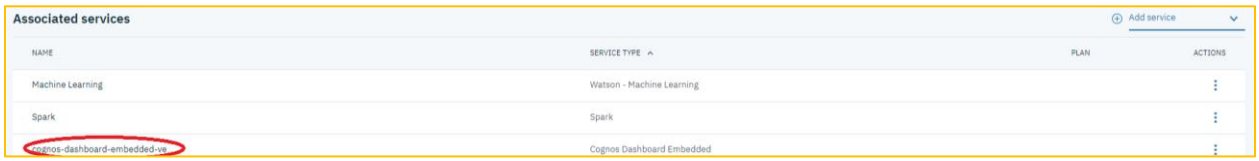
4. Click on **Lite** plan (should be the default), and click **Create**.



5. Click **Confirm**.



6. You should see Dashboard service listed in **Associated services**.

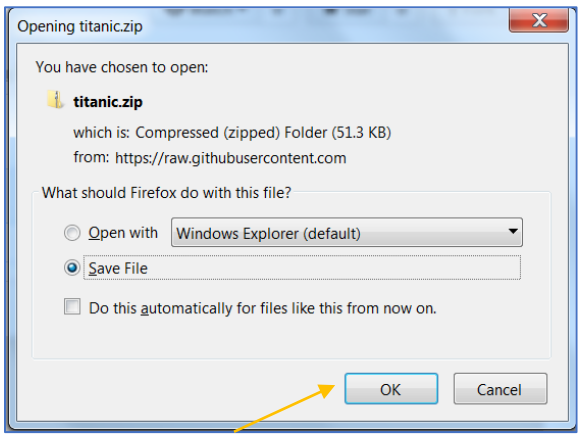


Step 2: Adding a Data Asset to the Watson Studio Labs project

This step can be skipped if the Titanic Data was already downloaded in a previous lab.

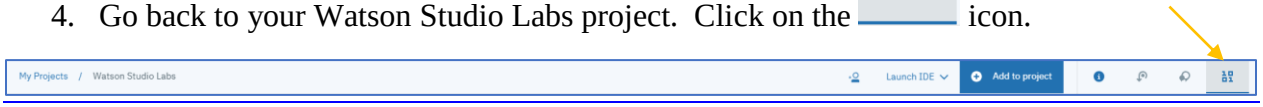
1. Download the Titanic data file from the following location by clicking on the link Titanic Data.

2. Click on the **OK** button in the pop-up dialog.

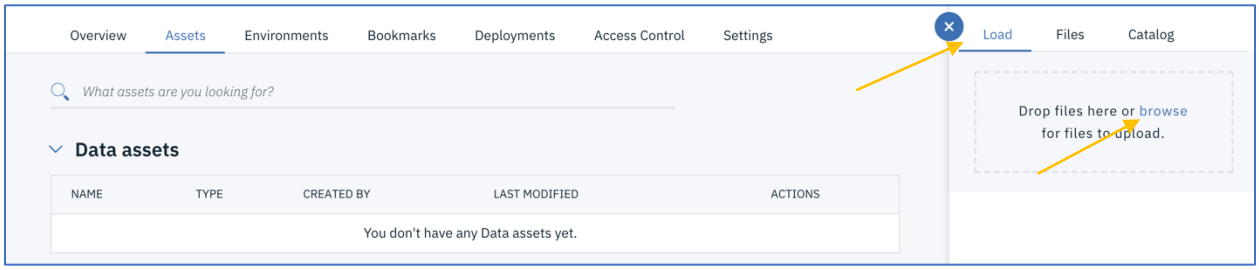


3. Navigate to the directory where the file has been downloaded. Unzip the titanic.zip file. There should be two files (1) titanic_cleansed.csv and (2) titanic.csv. You will use the **titanic.csv** for this lab.

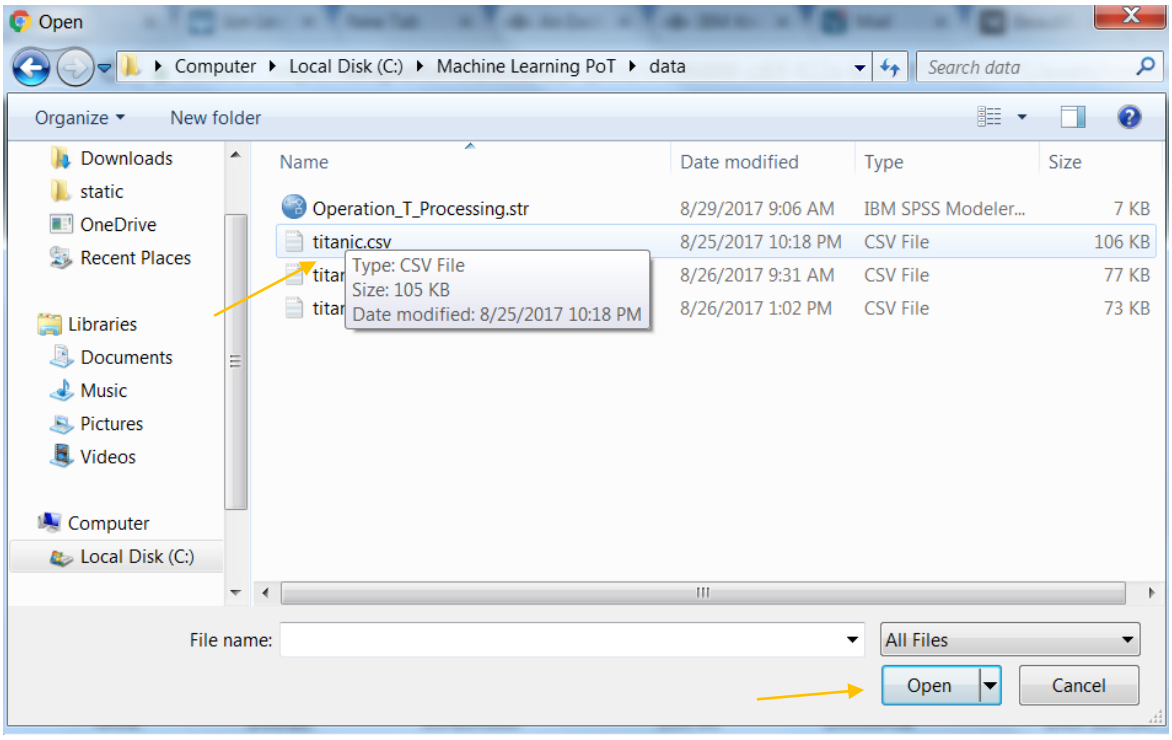
4. Go back to your Watson Studio Labs project. Click on the  icon.



5. Click on the **Load** tab and then click on **browse**.



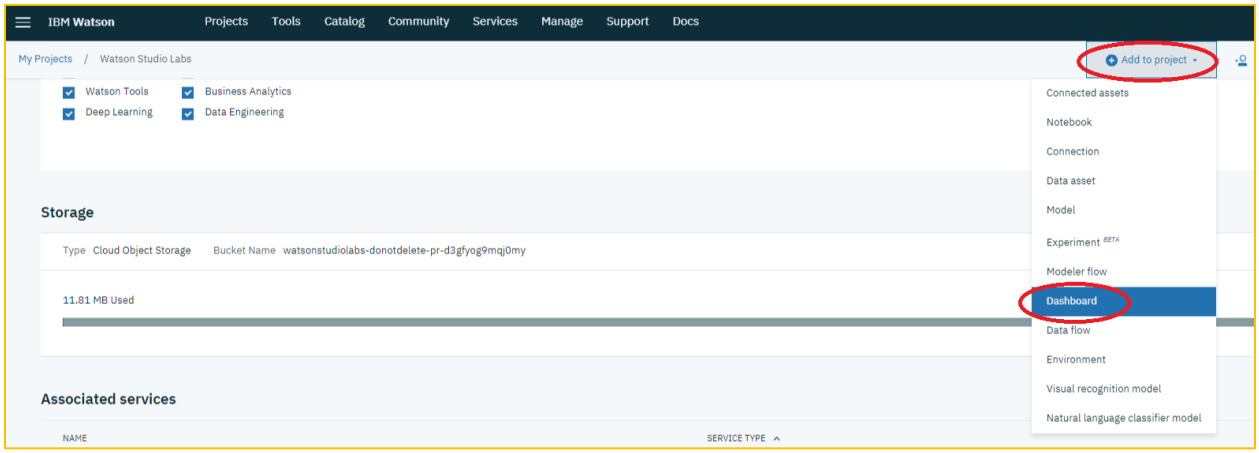
6. Go to the folder where the titanic_csv file is stored. Select the titanic.csv file and then click **Open**.



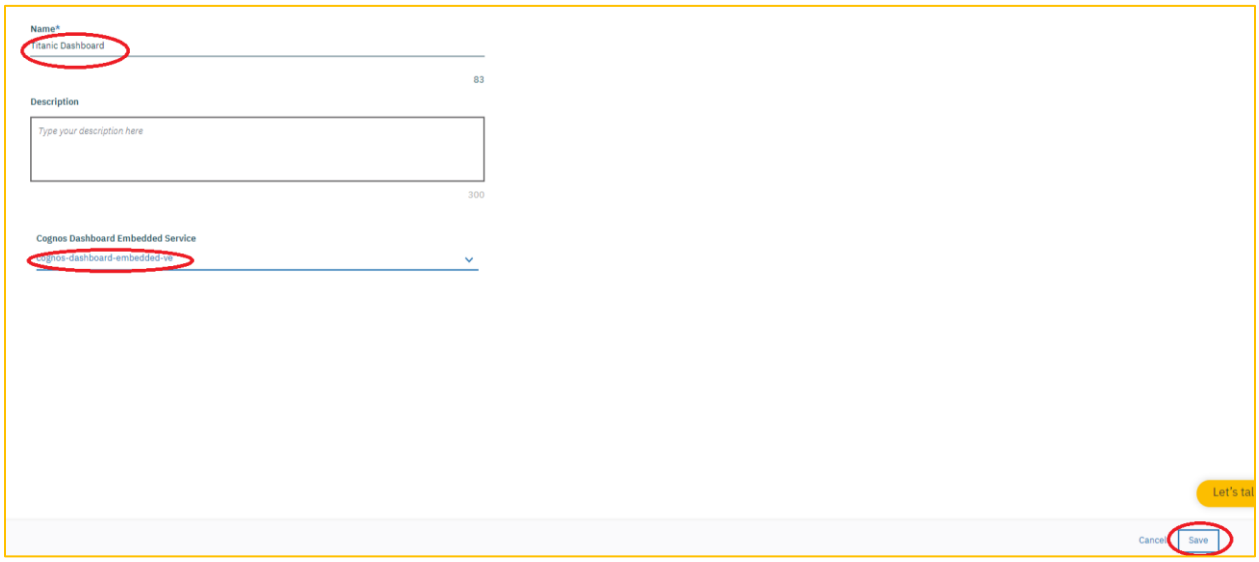
7. The file is now added as a Data Asset.

Step 3: Create a new dashboard instance

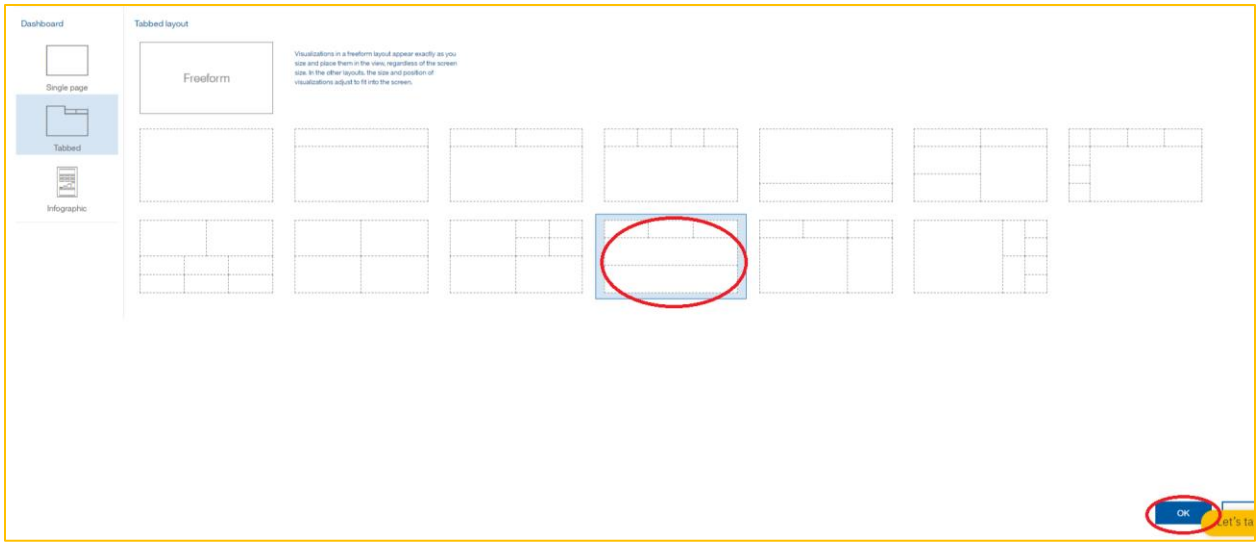
1. Click on Add to project, and then click on Dashboard.



2. Enter the Dashboard **Name**, optionally a **Description**, select the **Dashboard service**, and then click **Create**.

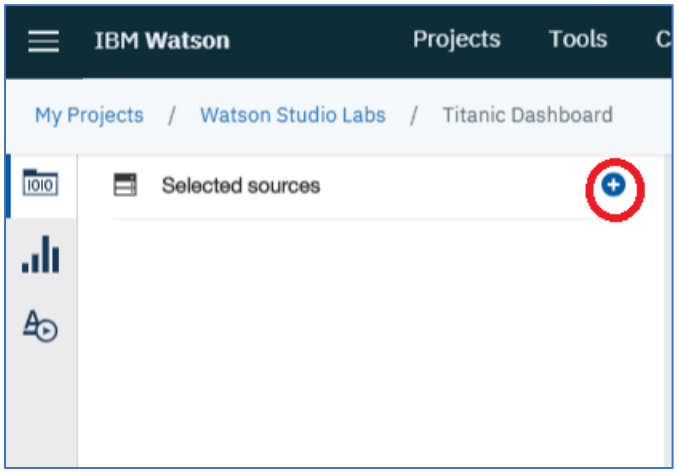


3. Select the template to use to construct the dashboard. We will use the one shown below.



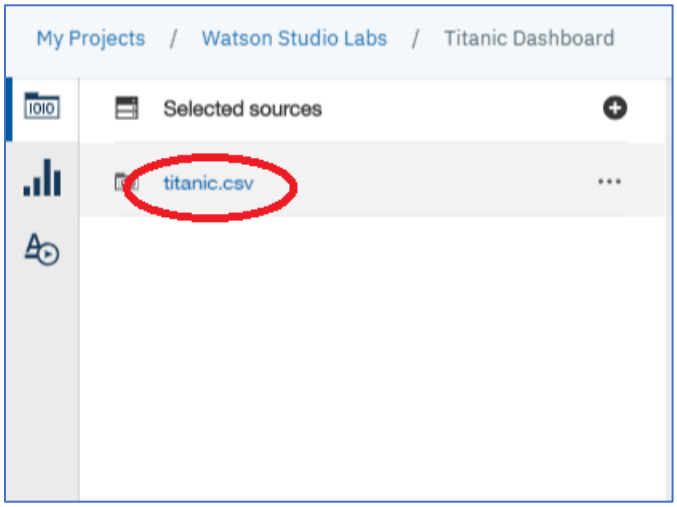
Step 4: Build the Dashboard.

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

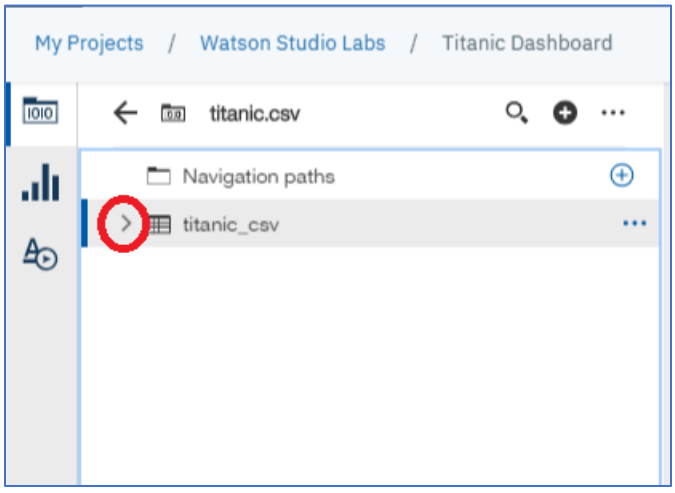


2. Select **titanic.csv** and then click on **Select**.

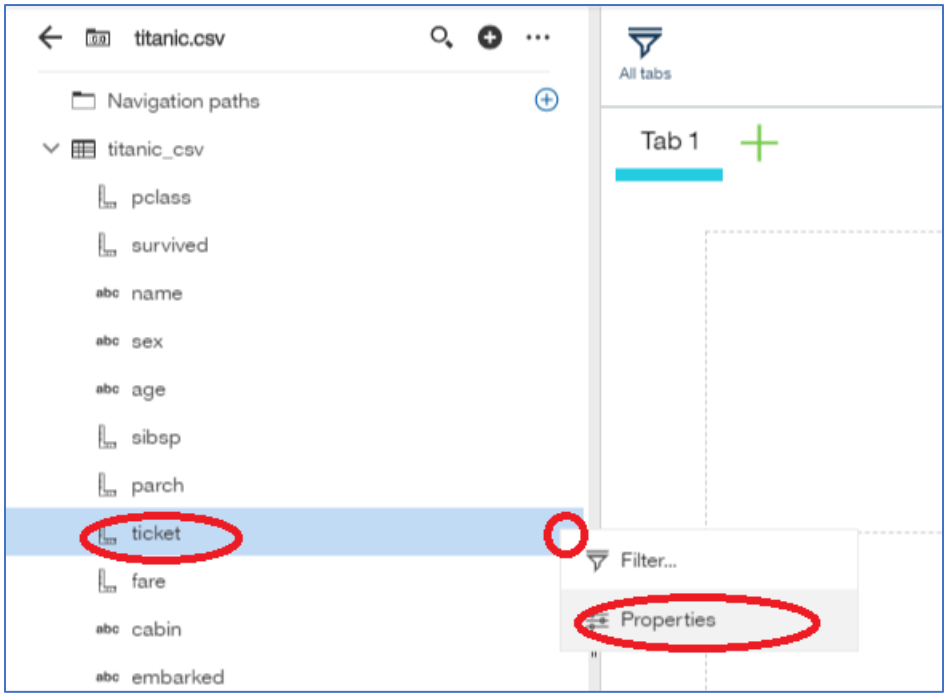
3. Select **titanic.csv**.



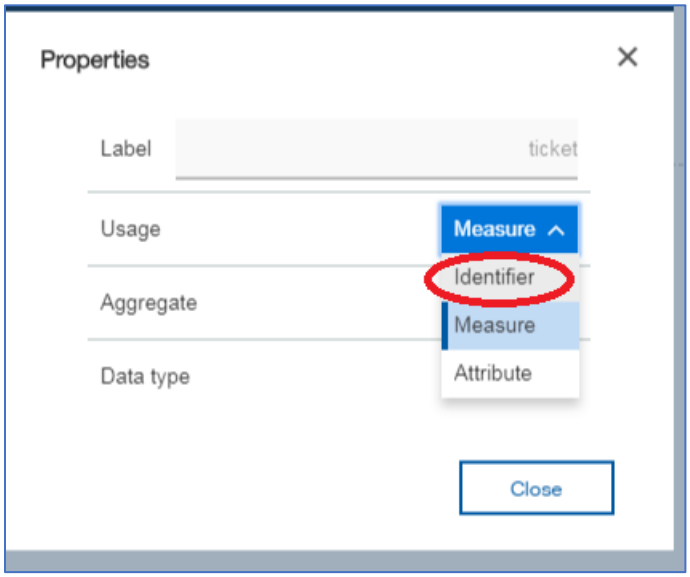
4. Select the right arrow next to **titanic**.



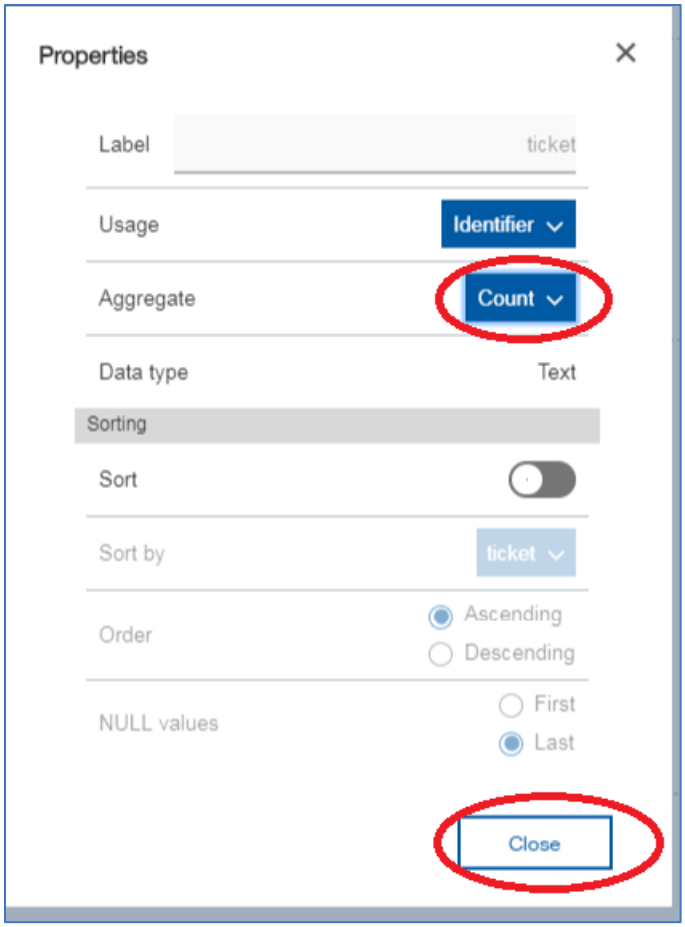
5. Select **ticket** and then select Properties.



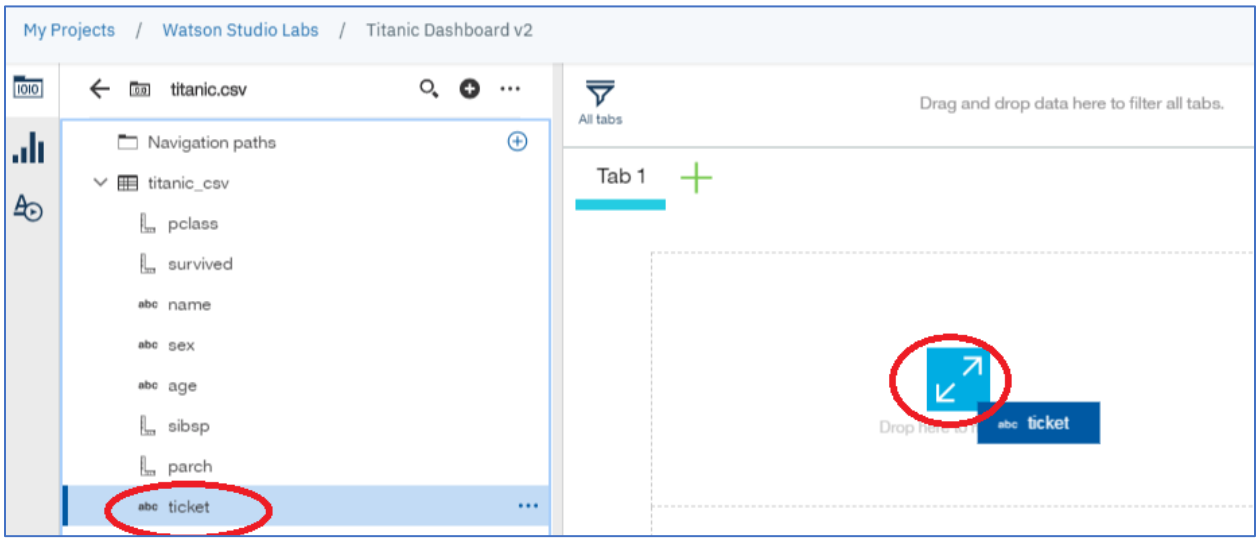
6. Select **Identifier** for **Usage**.



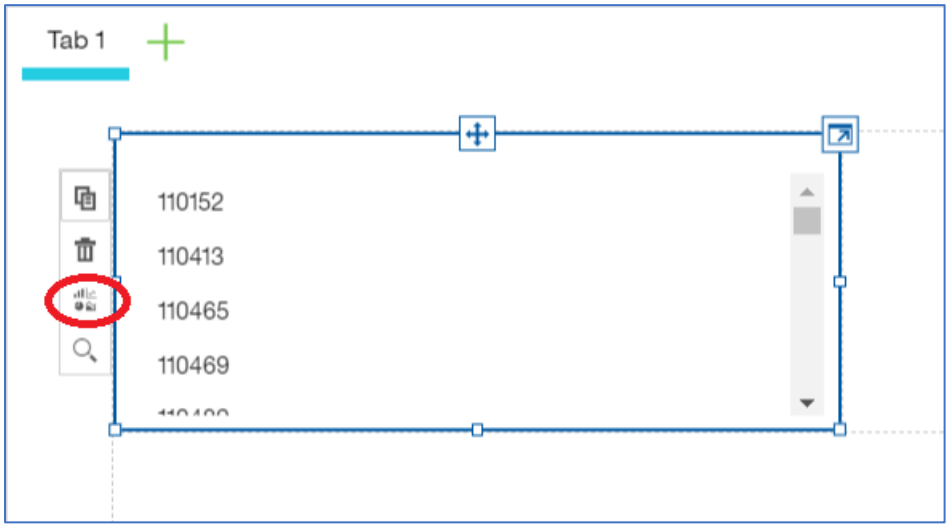
7. Select **Count** for Aggregate and select **Close**.



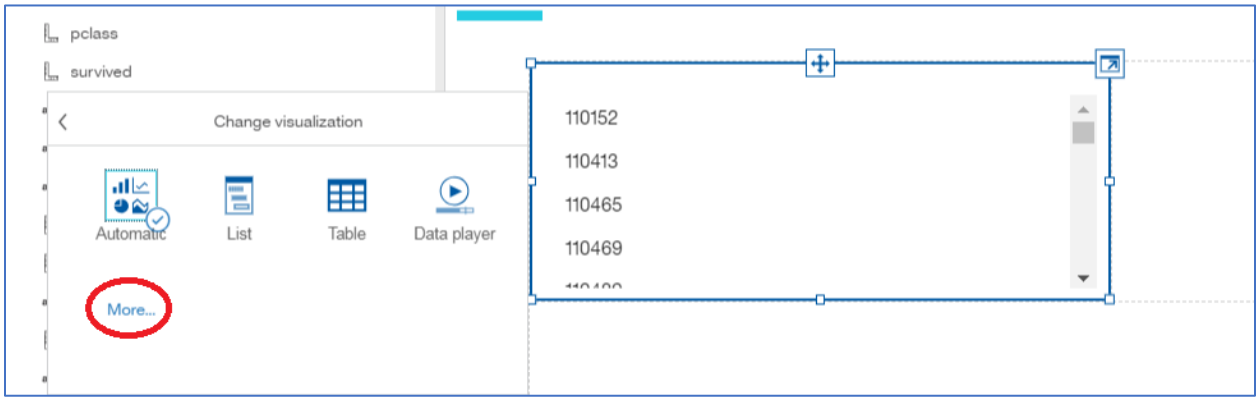
8. Drag **ticket** onto the canvas and place it in the top left rectangular area on top of the square with the arrows. Wait until it activates and turns the square color to blue, and then release.



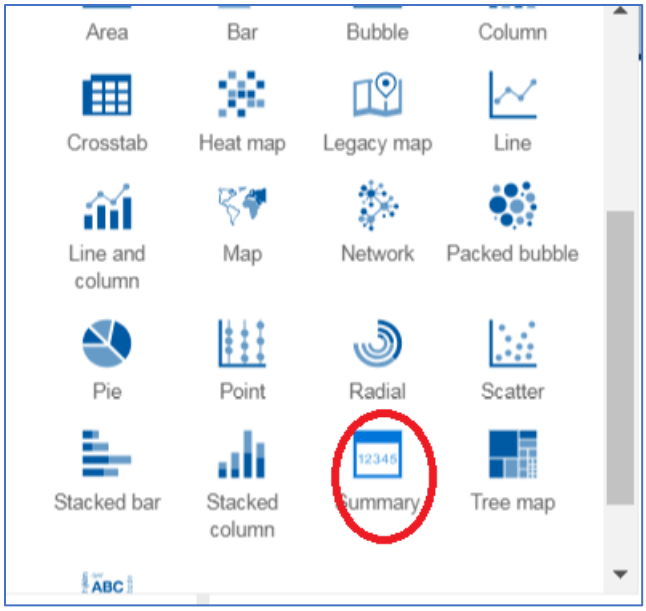
9. Click on the change visualization icon .



10. Click on **More**.

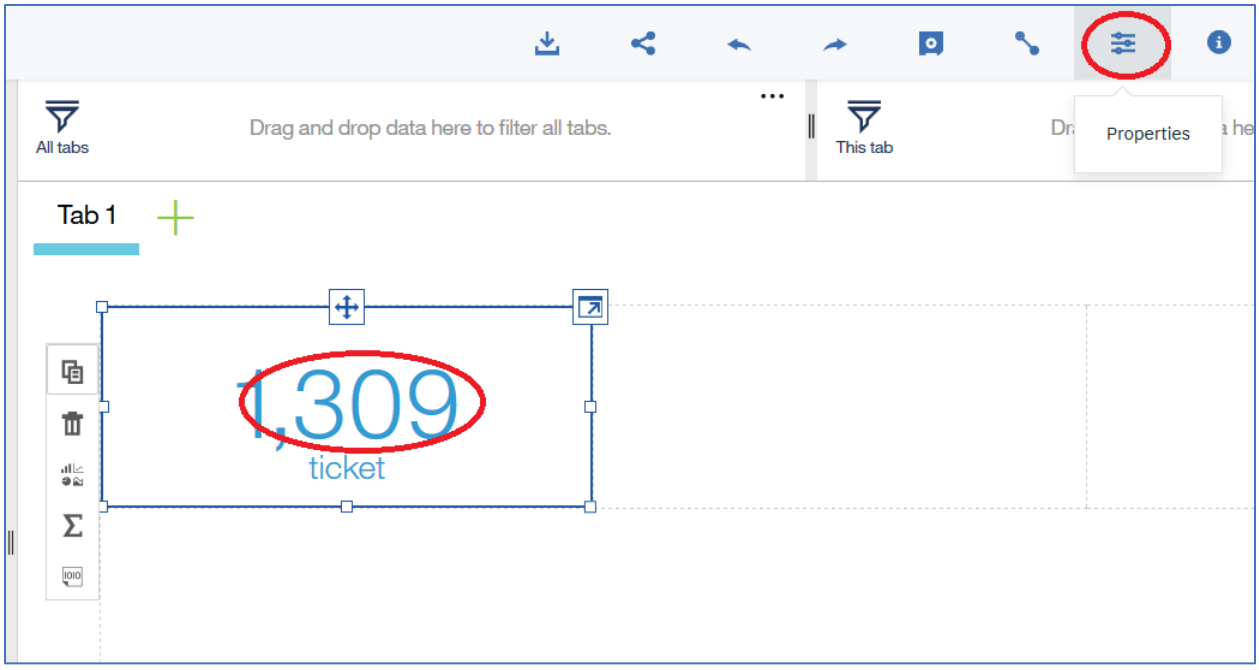


11. Scroll down and click on **Summary**.

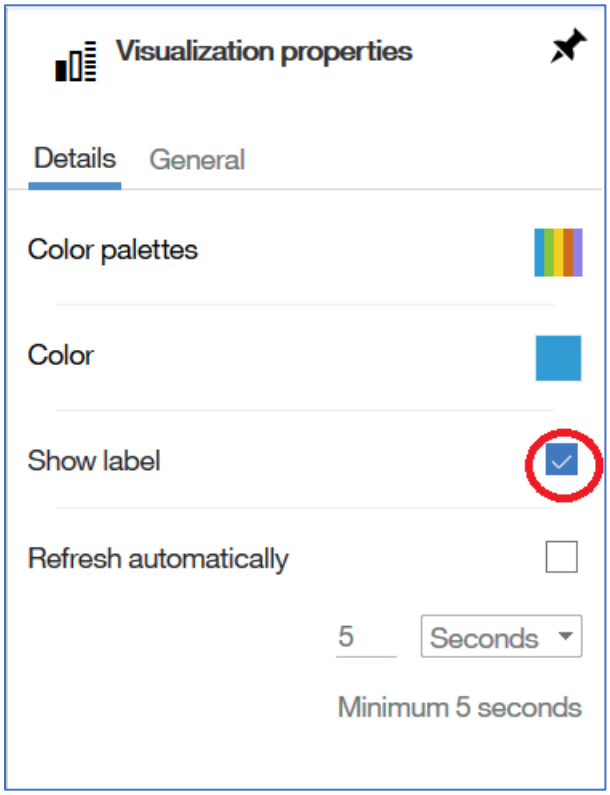


12. Click on the collapse icon .

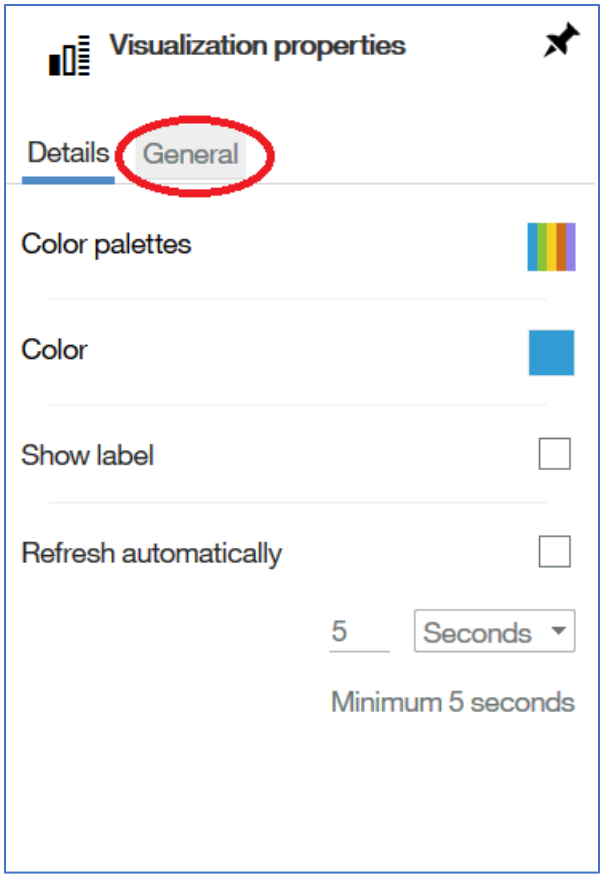
13. Click on the **1,309**, and then click on the Property icon .



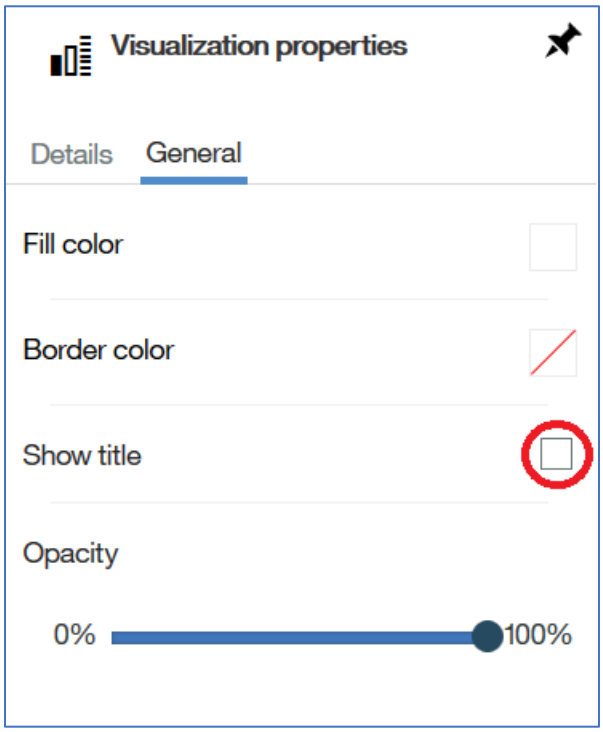
14. Deselect **Show label** checkbox in the **Visualization properties** panel.



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

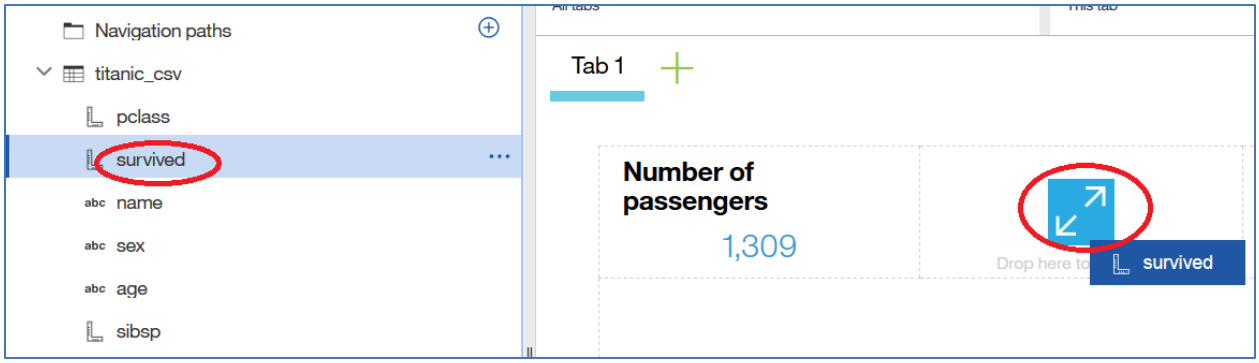


16. Click on **Show title**



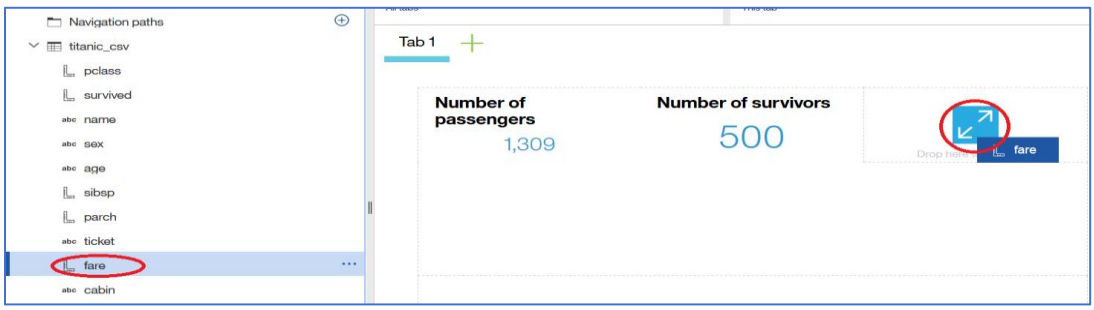
17. Enter **Number of passengers** at the cursor above the 1309.

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

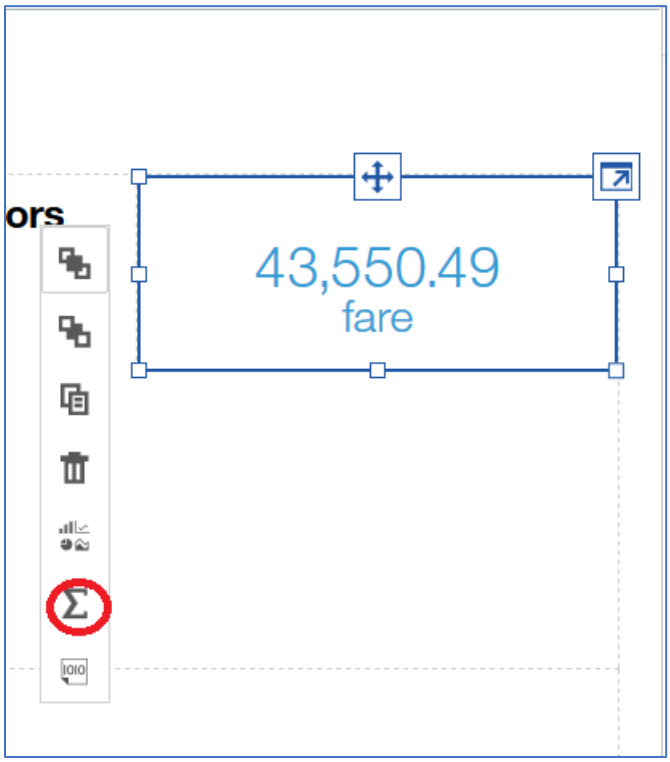


19. Click on the **500** and then click on the Properties icon . Repeat steps 14,15,16, and 17 (except in 17 type in Number of survivors). The screen should appear as below.

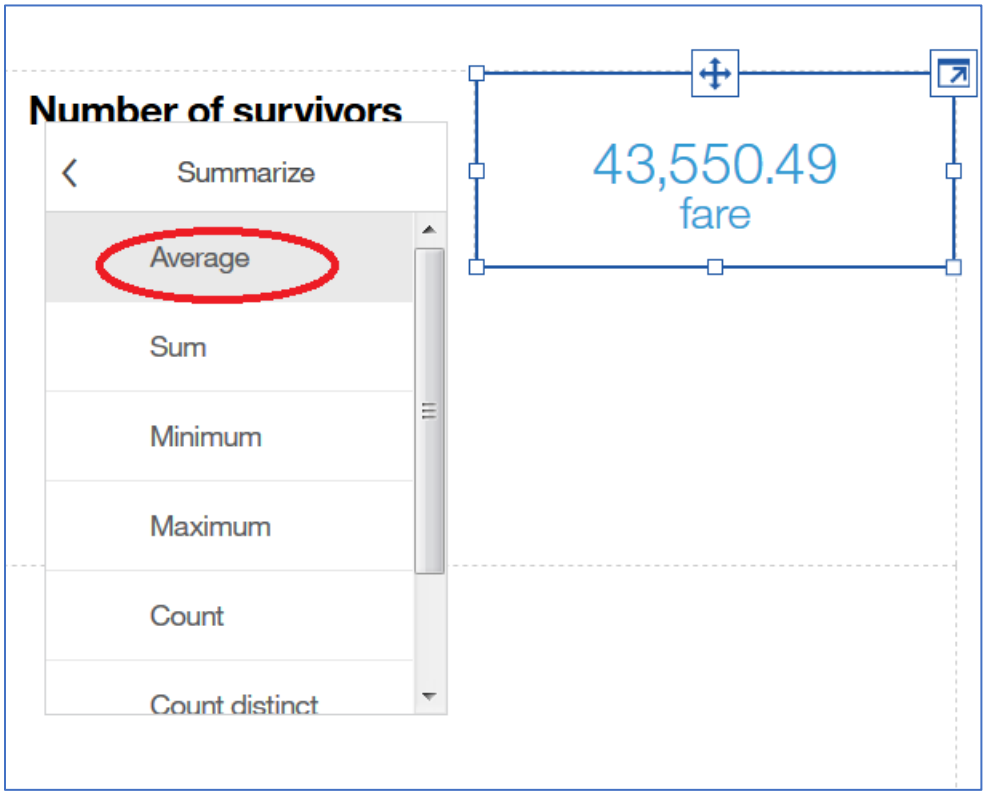
20. Drag fare onto the canvas and place in the third rectangular area at the top of the screen. Release when the square box with the arrows turns blue.



21. Click on the Aggregate icon Σ.

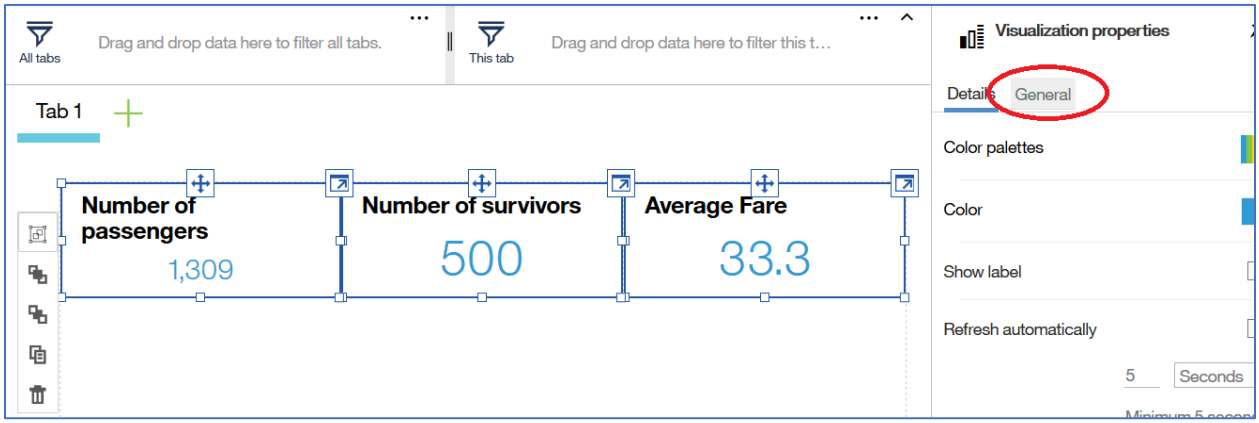


22. Click on **Average**.

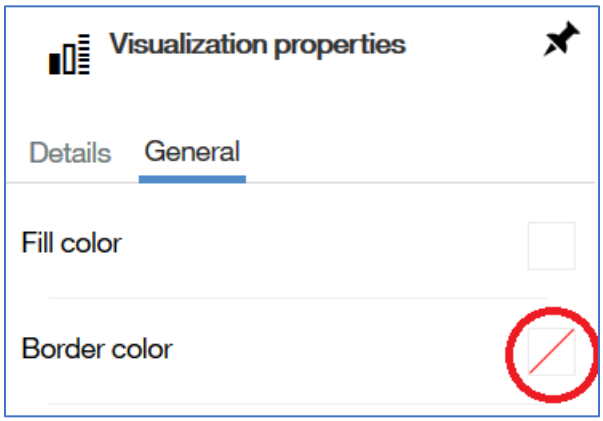


23. Click on the **33.3** fare and then click on the Properties icon . Repeat steps 14,15,16, and 17 (except in 17, type in Average Fare). The screen should appear as below.

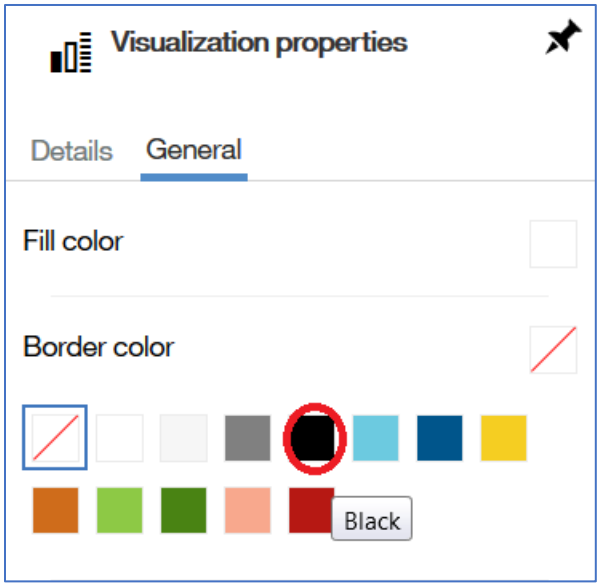
24. Click on the **1309,** click on the **Ctrl** button and click on the **500,** click on the **Ctrl** button and click on the **33.3** so that all 3 rectangles are selected. Click on the Properties icon . Click on **General**



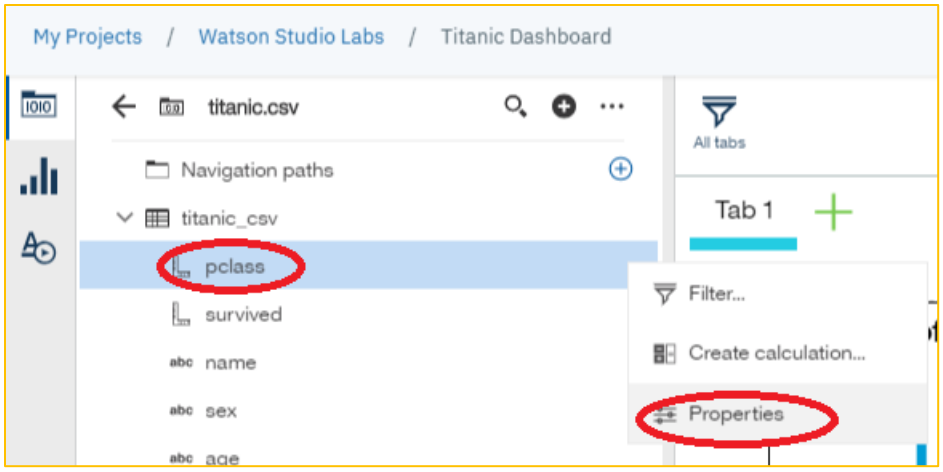
25. Click on the Border color icon in the Visualization properties panel.



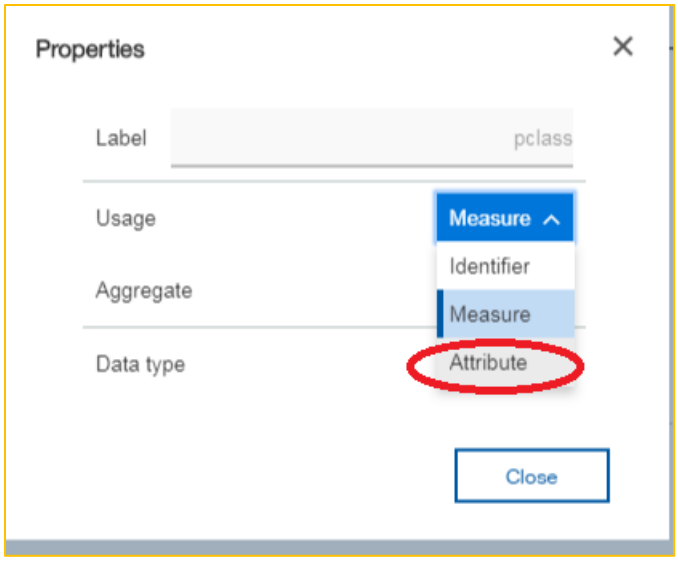
26. Click on the black color icon.



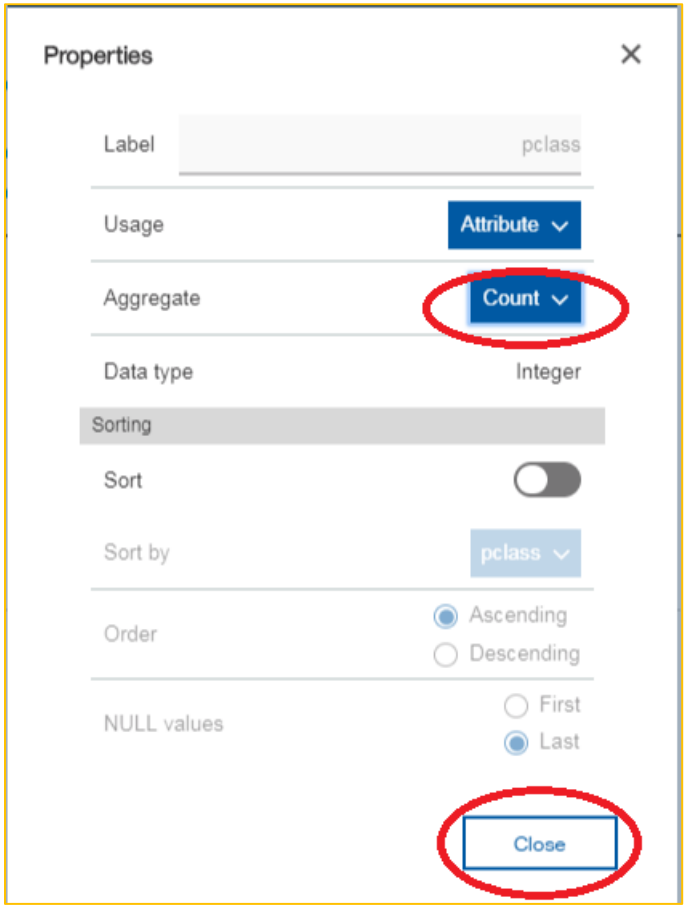
27. Click on **pclass** from the left pane and click on the horizontal ellipse ••• . Click on **Properties**.



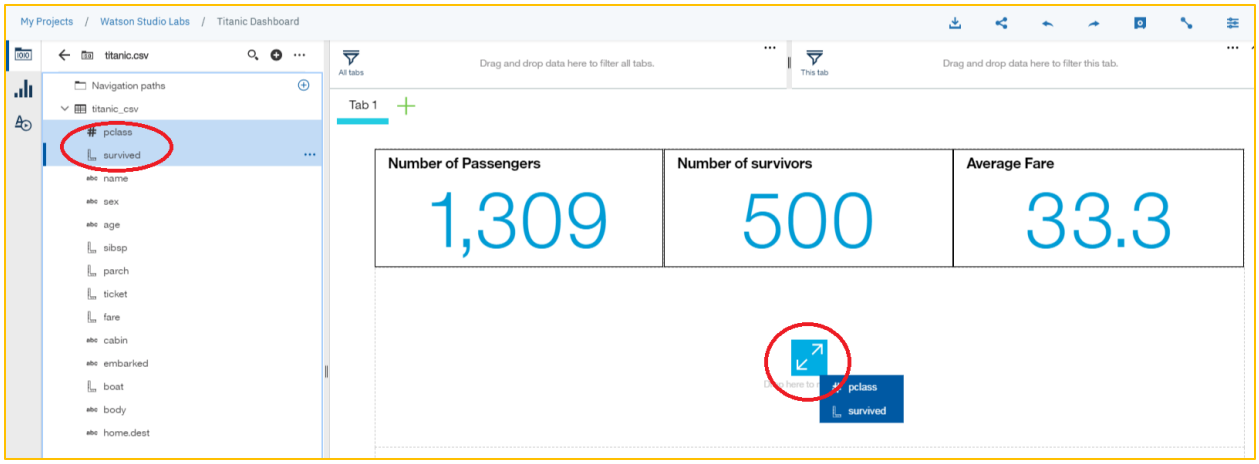
28. Change the **Usage** from **Measure** to **Attribute**.



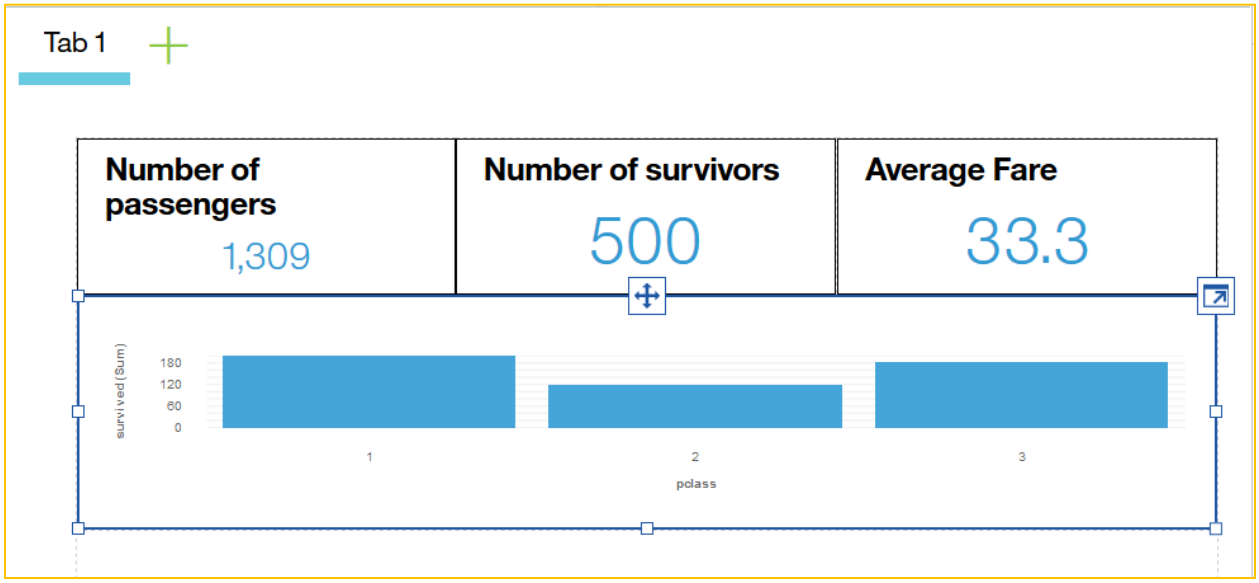
29. Change the **Aggregate** from **Total** to **Count**, and then click **Close**.



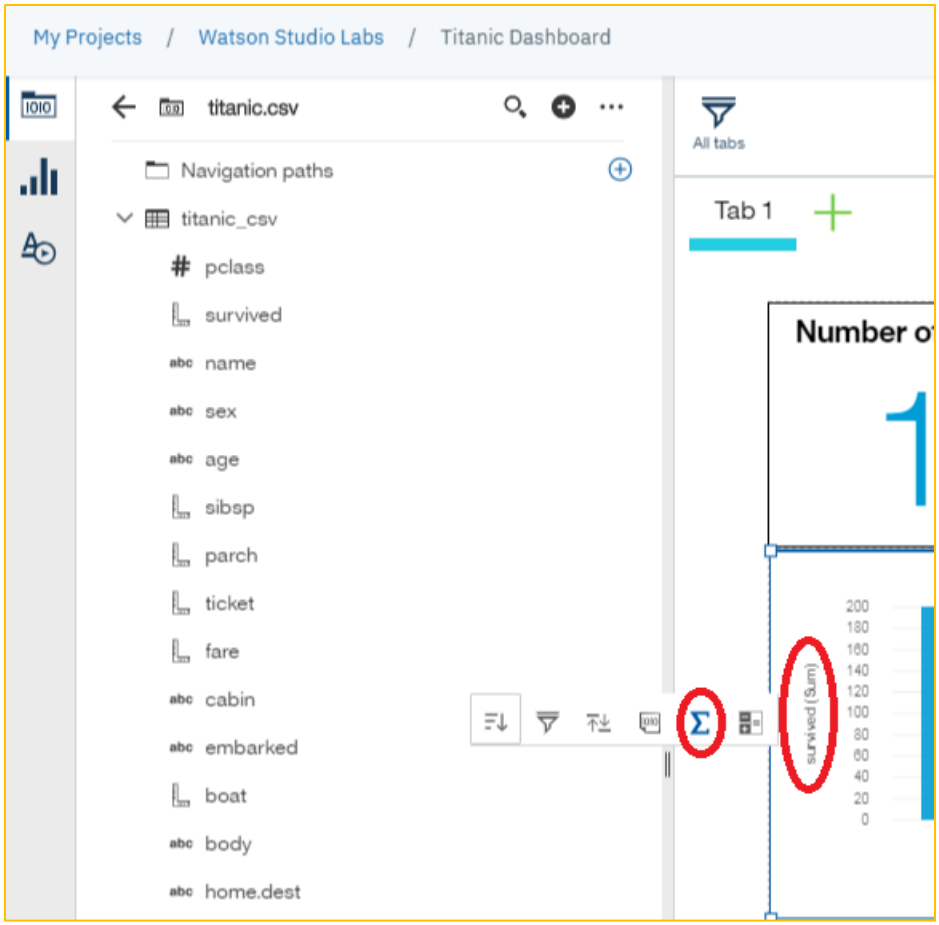
30. Click on **pclass** and Ctrl-click on **survived** in the left pane, and drag into the middle rectangular area. Release when the square box with the arrows turns blue.



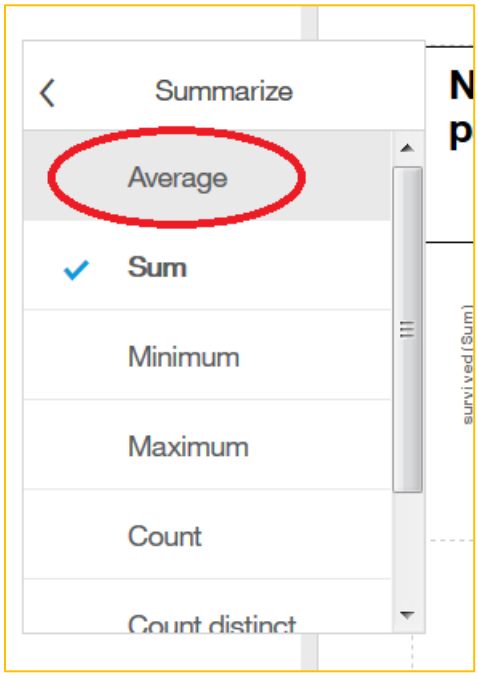
31. The screen should appear as below. The survived-pclass graphic depicts the number of survivors in each of the passenger class categories. You may be more interested in the percentage that survived in each passenger class category.



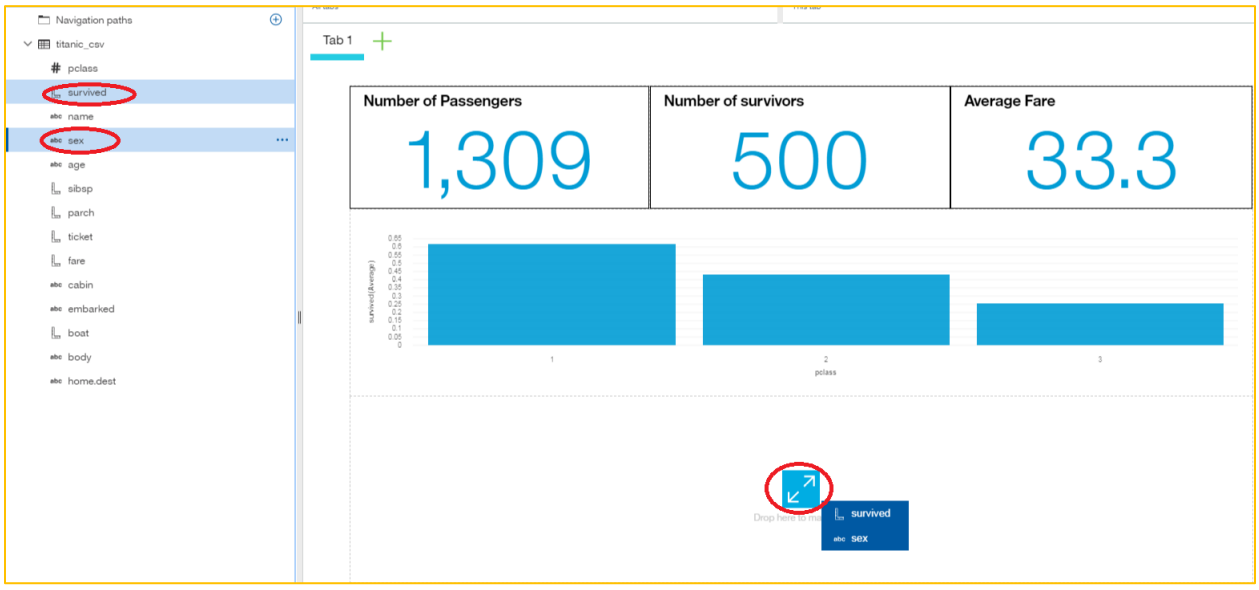
32. To get the percentage, we need to right-click on the **survived(Sum)** title on the left side of the visualization, and then click on the Aggregate icon Σ .



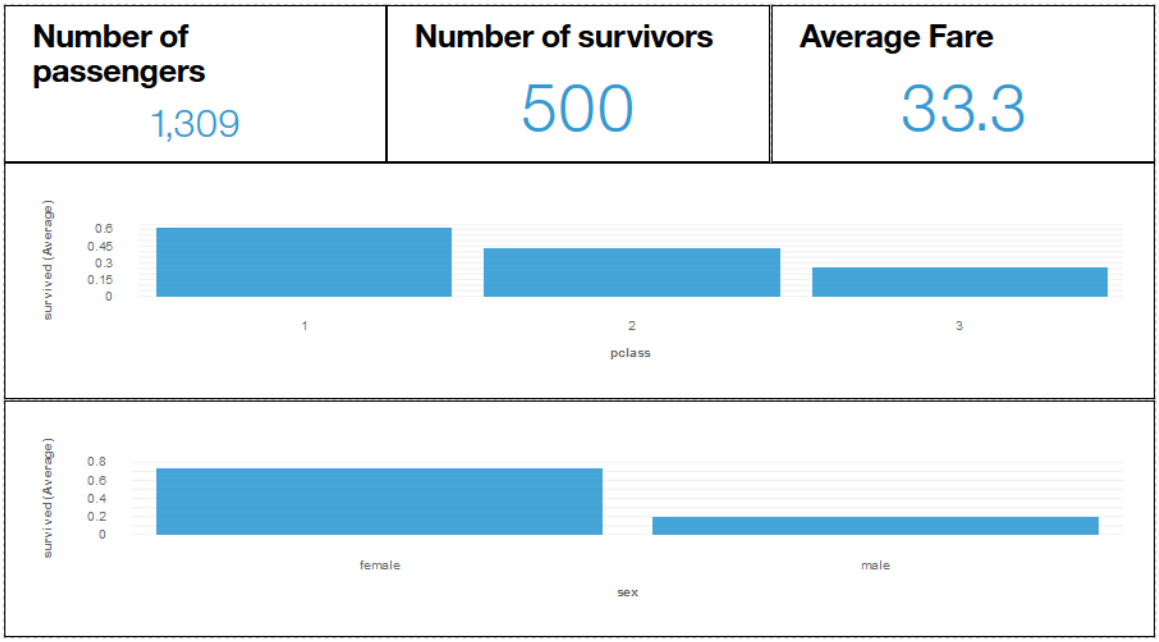
33. Click on **Average**.



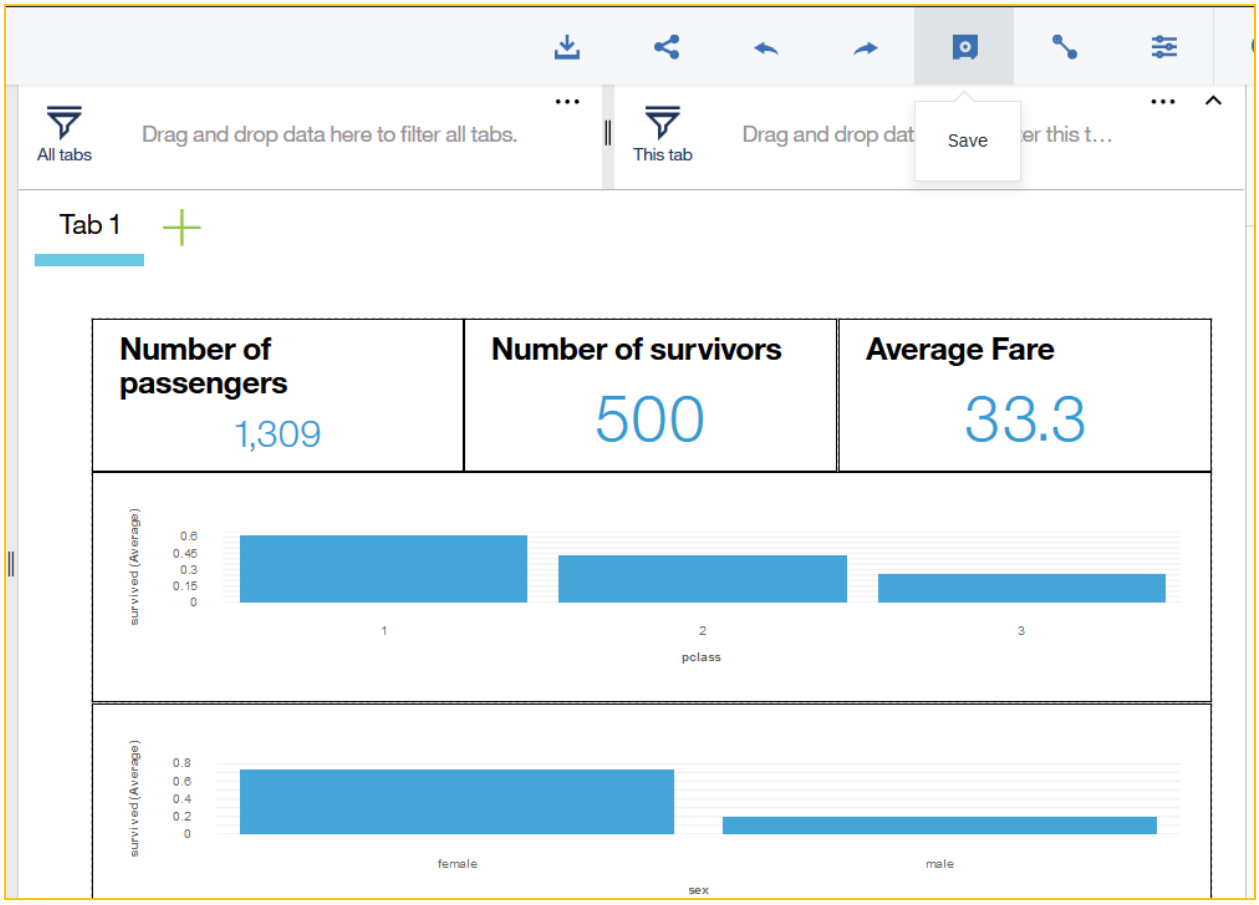
34. We can see that the percentage of survivors is highest in first class, followed by second class, and then third class. Click on **sex** and Ctrl-click on **survived** in the left pane, and drag into the bottom rectangular area. Release when the square box with the arrows turns blue.



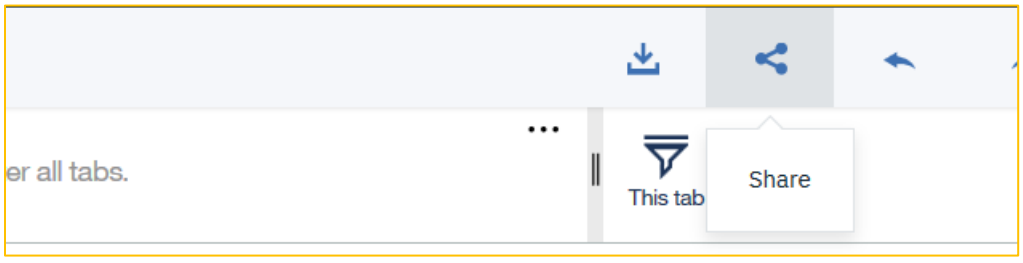
35. Repeat steps 32 and 33 to get the percentage of survivors in the Female and Mail categories. You can add a black border around the middle rectangular area and the bottom rectangular area by following steps 24 (note click on the middle and bottom rectangles, not what is specified in 24),25, and 26. The screen should appear as below.



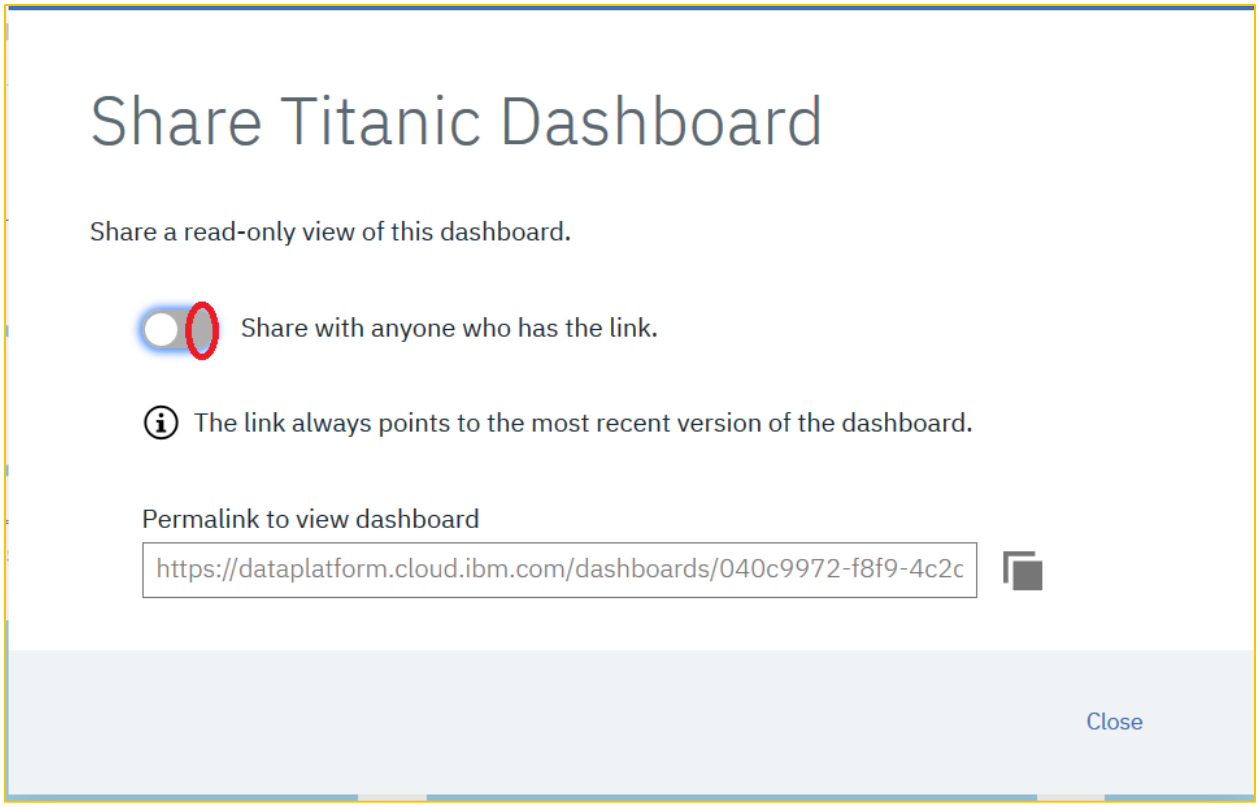
36. Click on the Save icon to save the dashboard in the project.



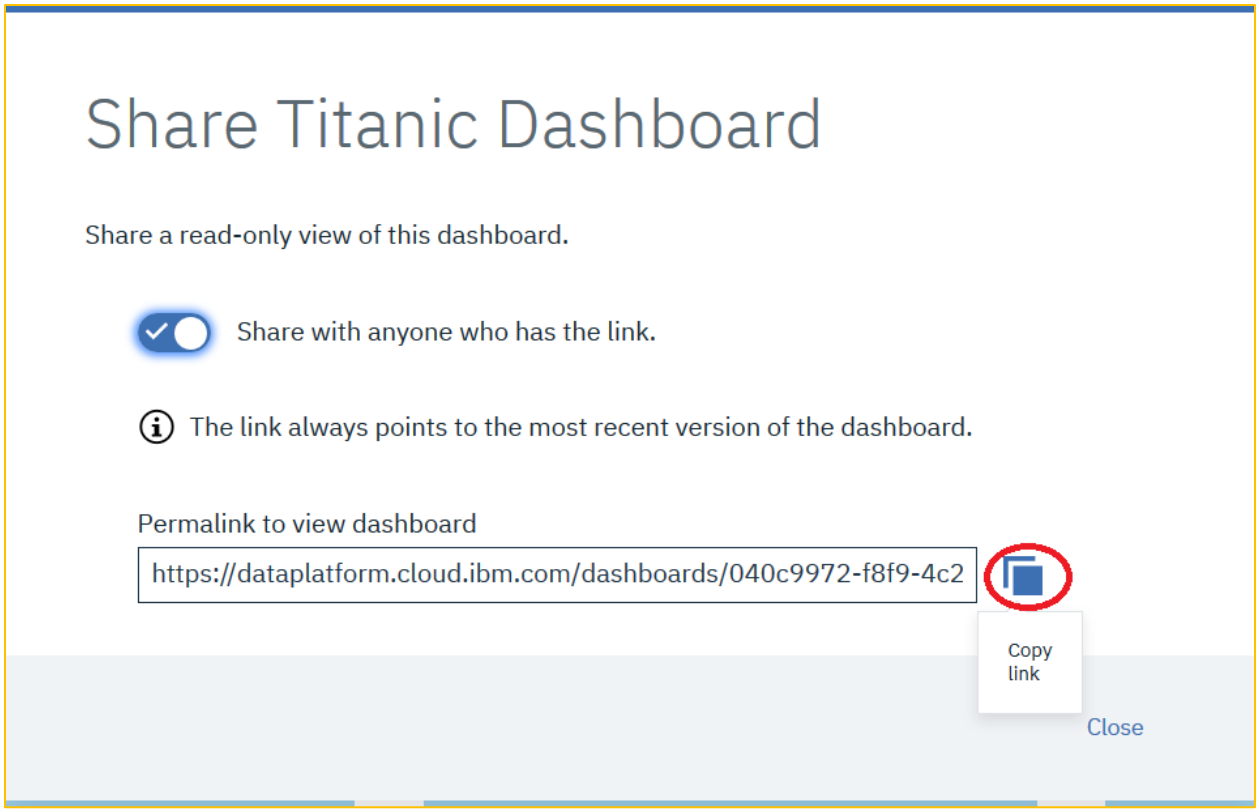
37. You can share the dashboard by clicking on the Share icon .



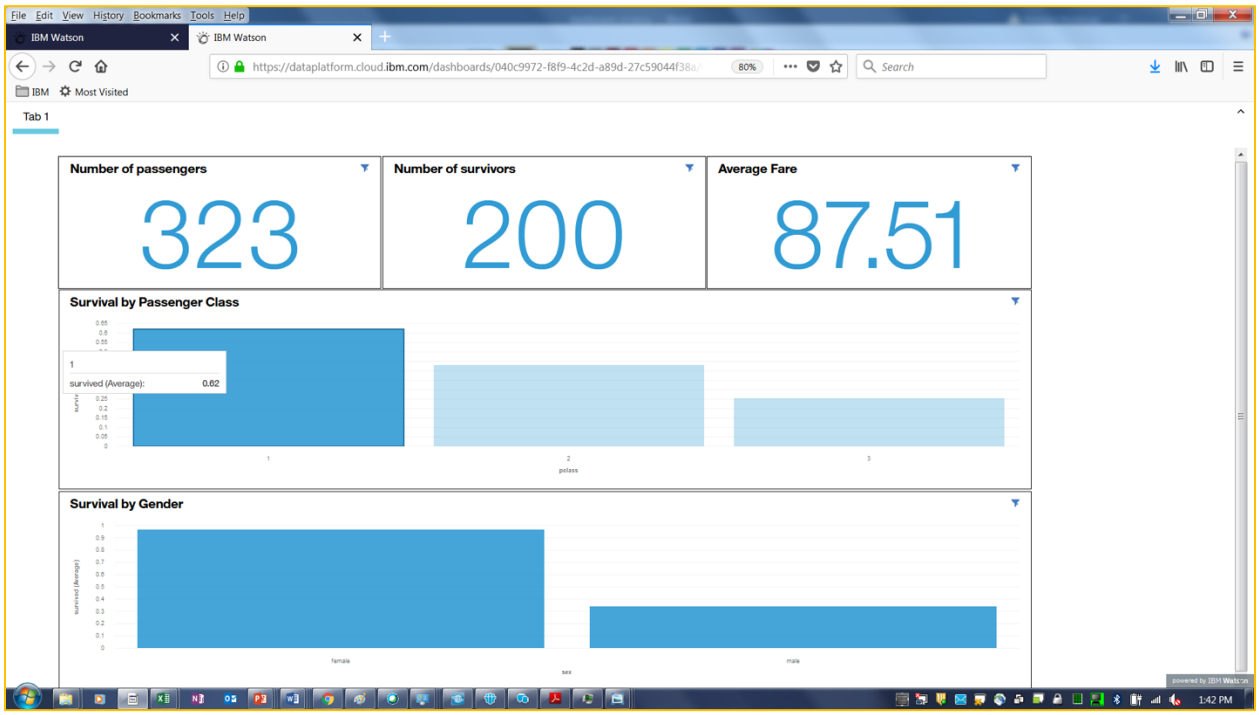
38. Click on the **Share with anyone who has the link** to the right of the white circle to activate the link.



39. Click on the Copy link icon .



40. 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.



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