Implementation and Result:

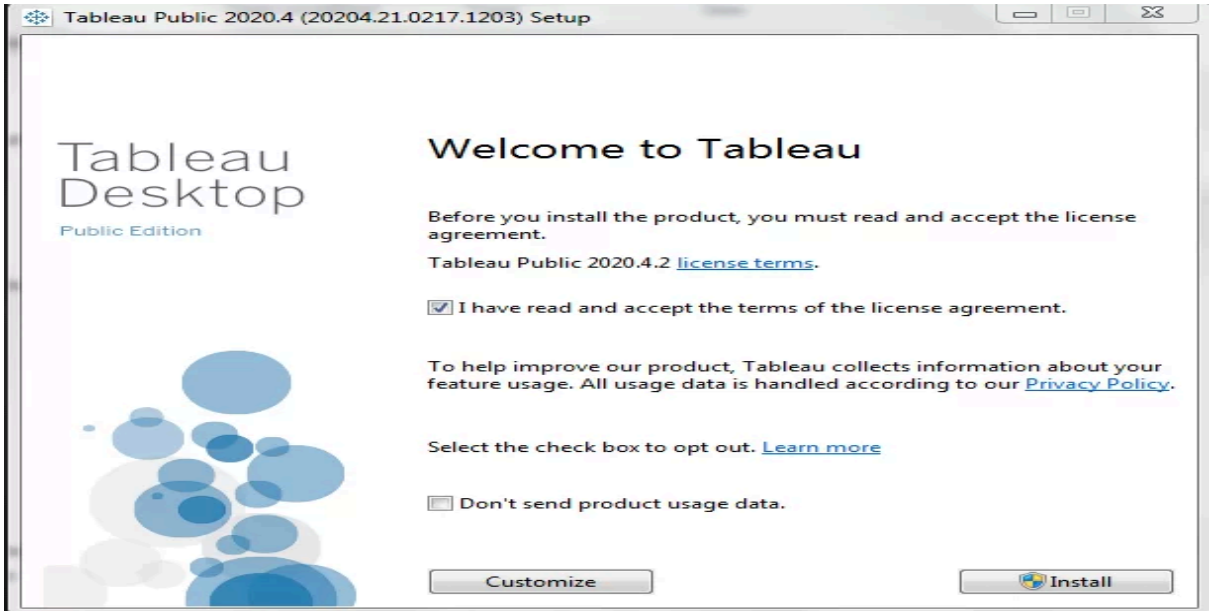
Installation:-

Step 1:- Goto to the tableau public website.

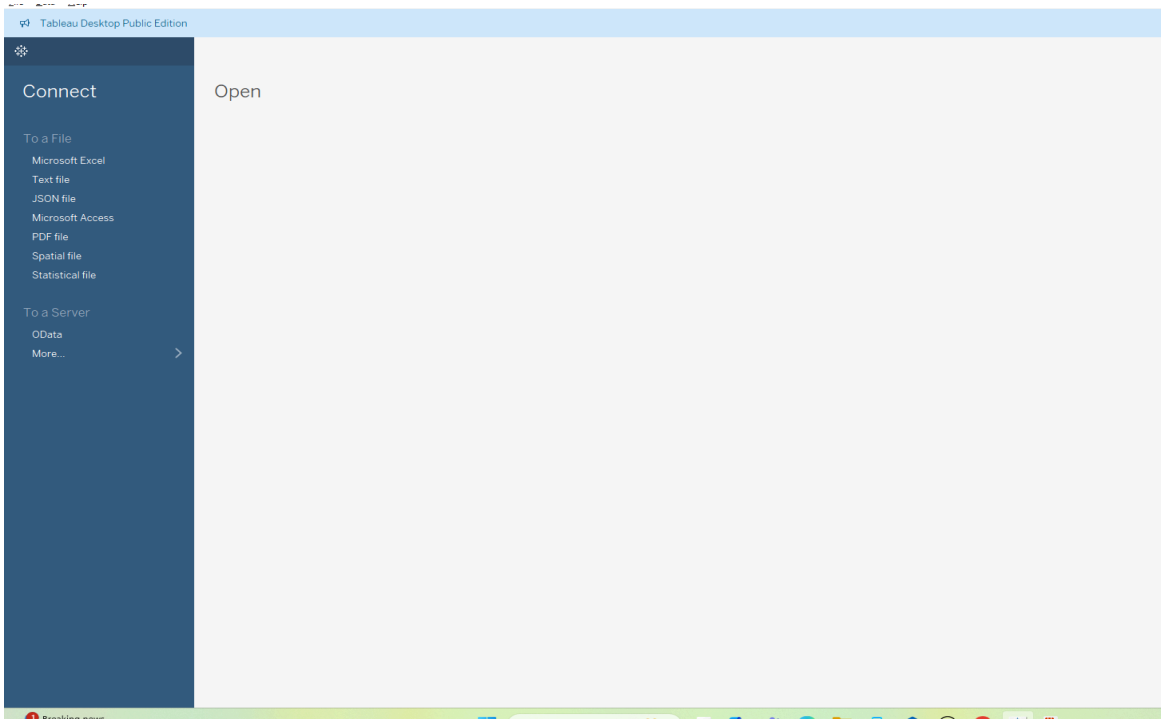
Step 2:- Click on Create On website the Click Download Tableu Public Edition

Step 3:- Open Exe File

Step 4:- Check all the concerns then click on Install .

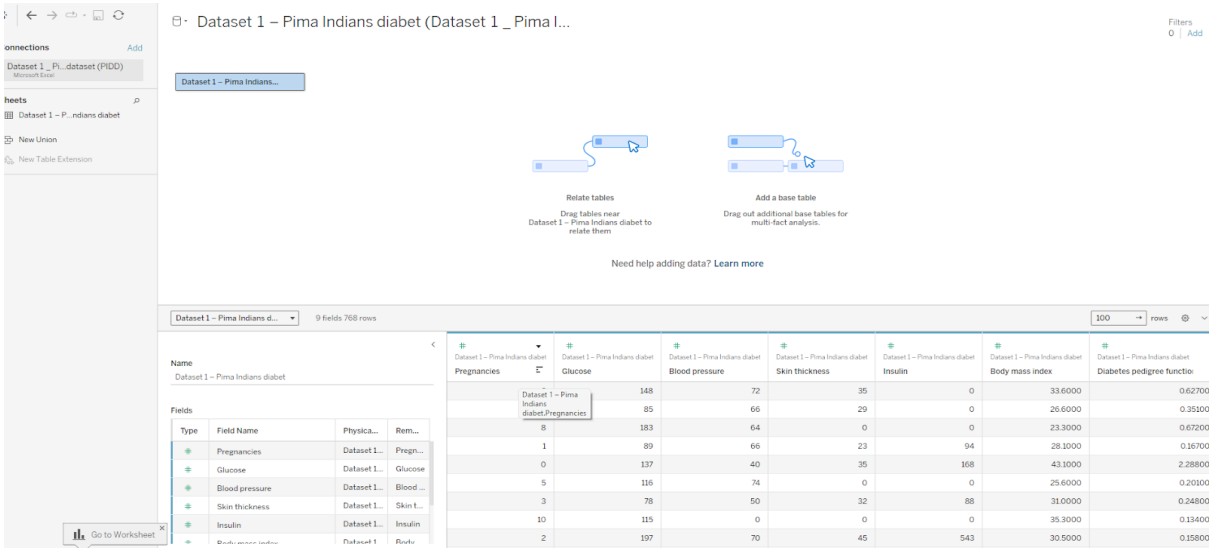


Import Excel Data File:- We Are using the sample data file available on the tableau public website.

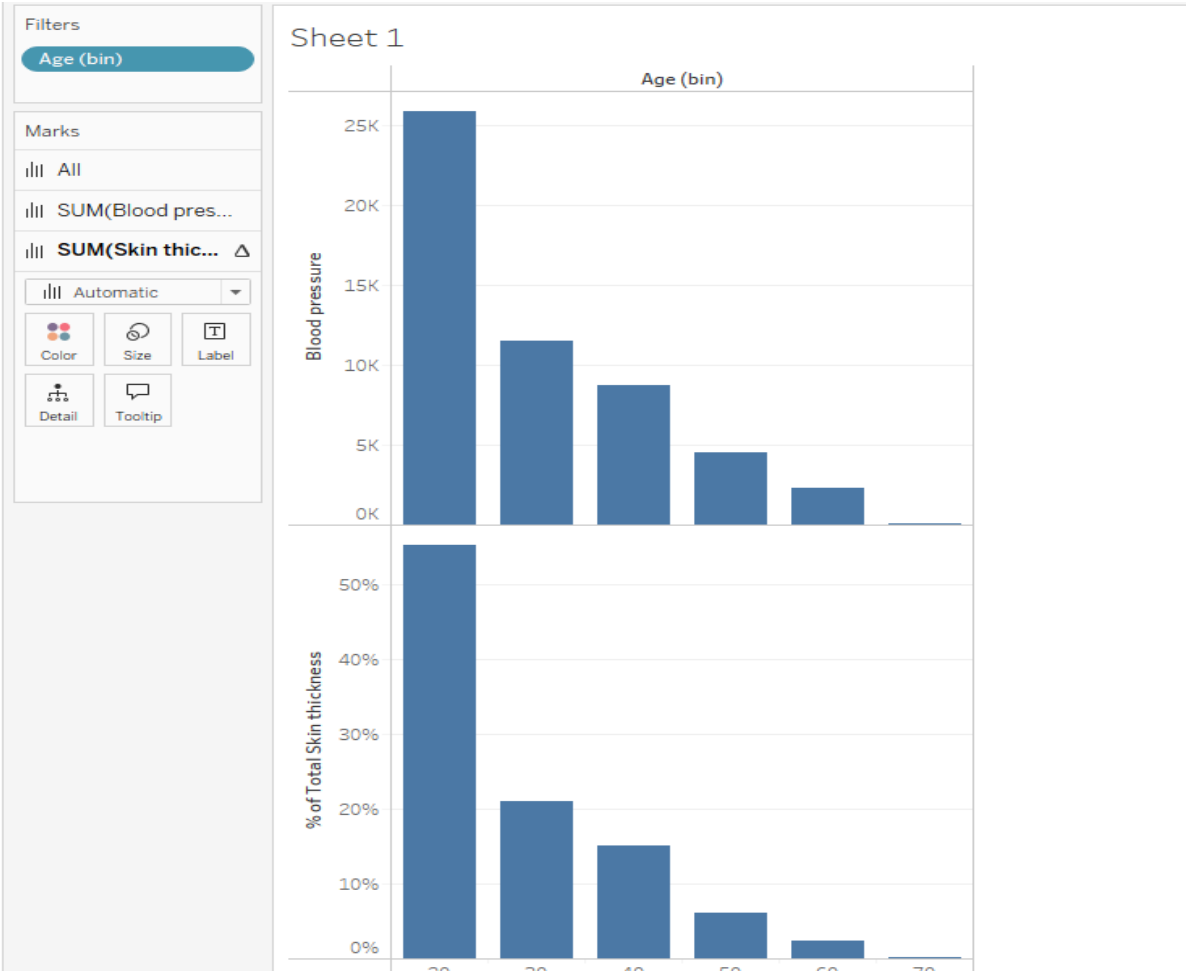


Choose any file type of data, then import.

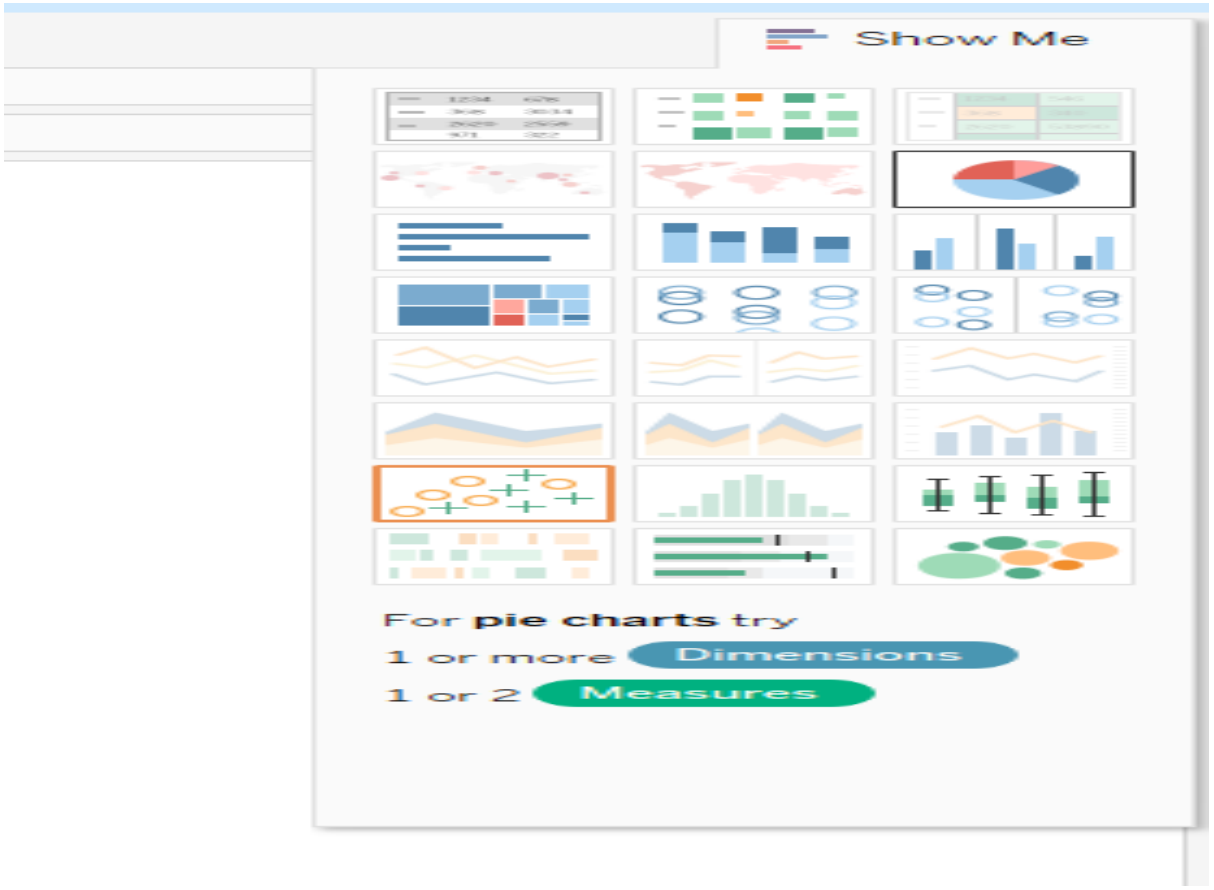
After Importing the file the all data shown below as shown in figure.



Create New sheet By clicking below.
Then add Rows and columns in field Drag And Drop

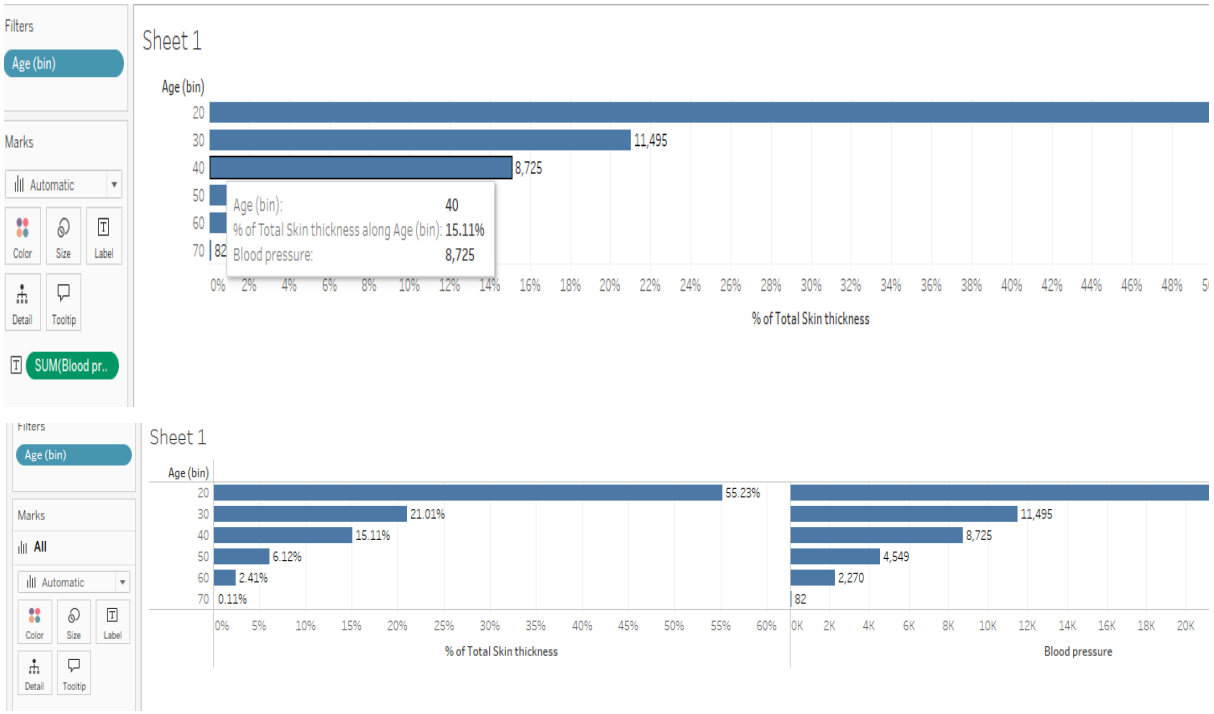


Change Chart Type as per preference by clicking on show me button.



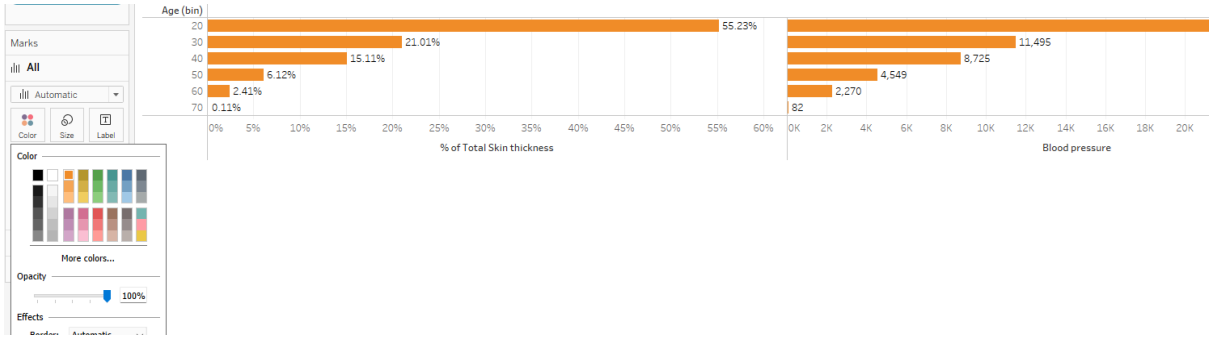
Add Labels:-

Click on the Marks section and then Click on all then click on the Labels Button. And then Lables was added to particular or selected column and rows.



Change Colour :- The change colour feature is available to distinguish the different data diagram also can be applied on all data set at the same time.

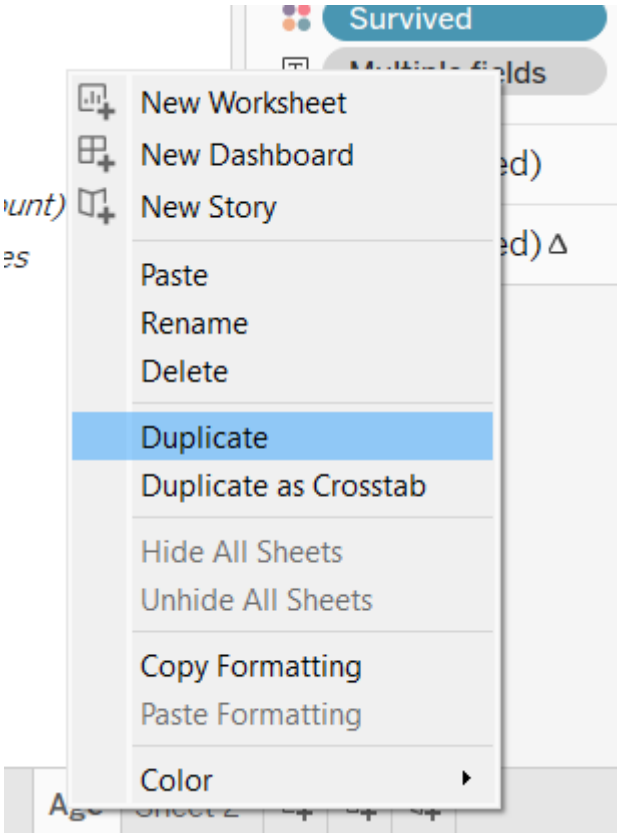
To Change colour click on the marks section ,select data bar, and select the colour of your choice.



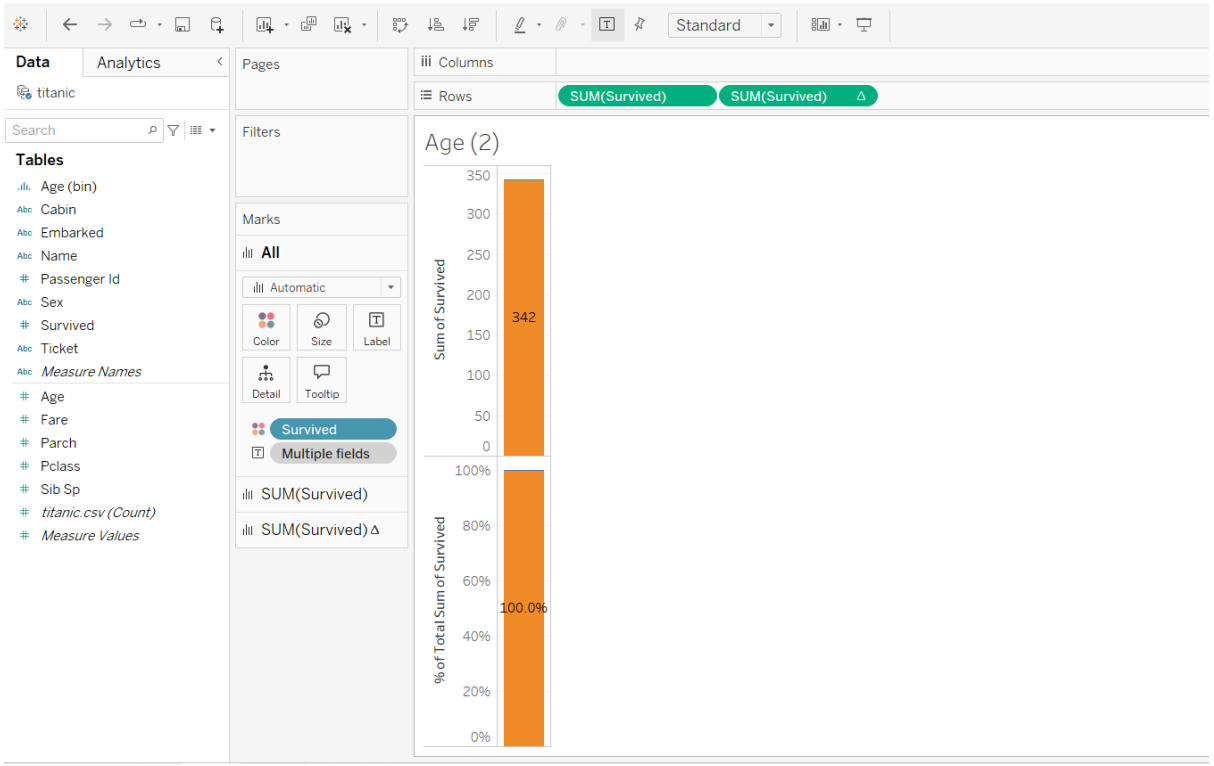
Legend:

In Tableau, a **legend** is a key visual element used to explain the meaning of the colors, shapes, or sizes in your data visualizations. It helps users interpret the visual aspects of the chart, making it easier to understand the data that is being represented.

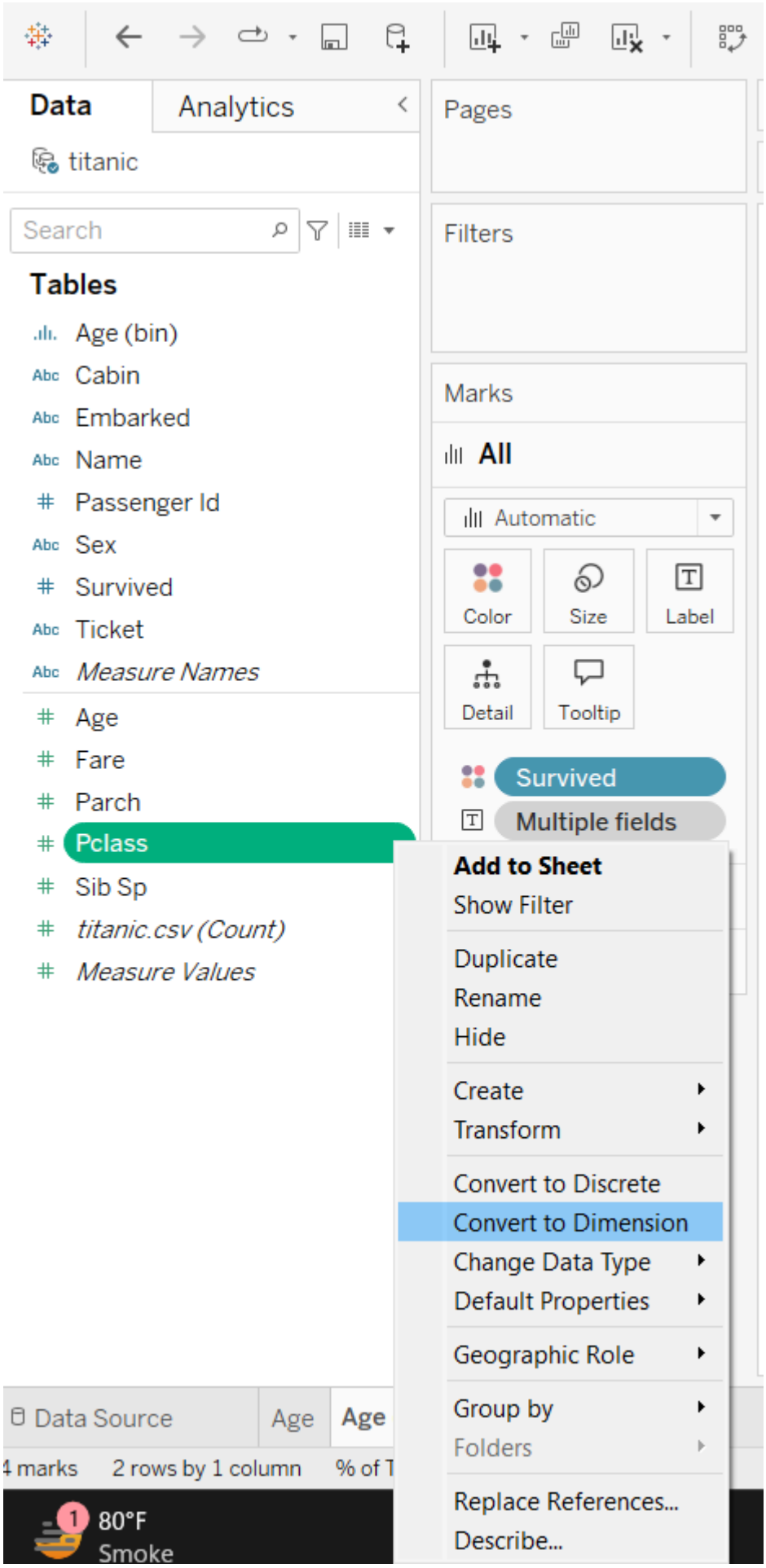
Right click on age and click on duplicate



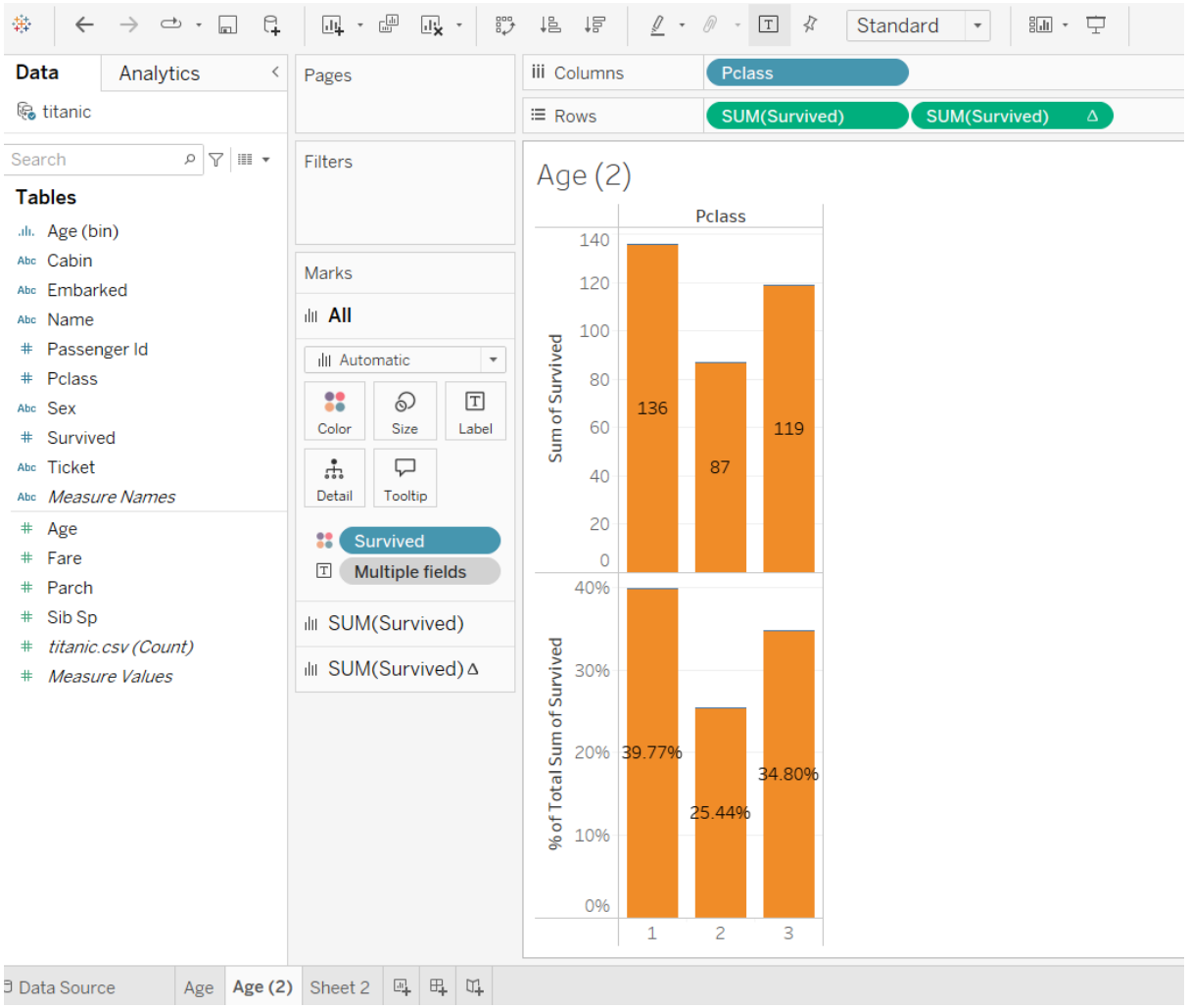
Swap out the variable and remove the age variable.

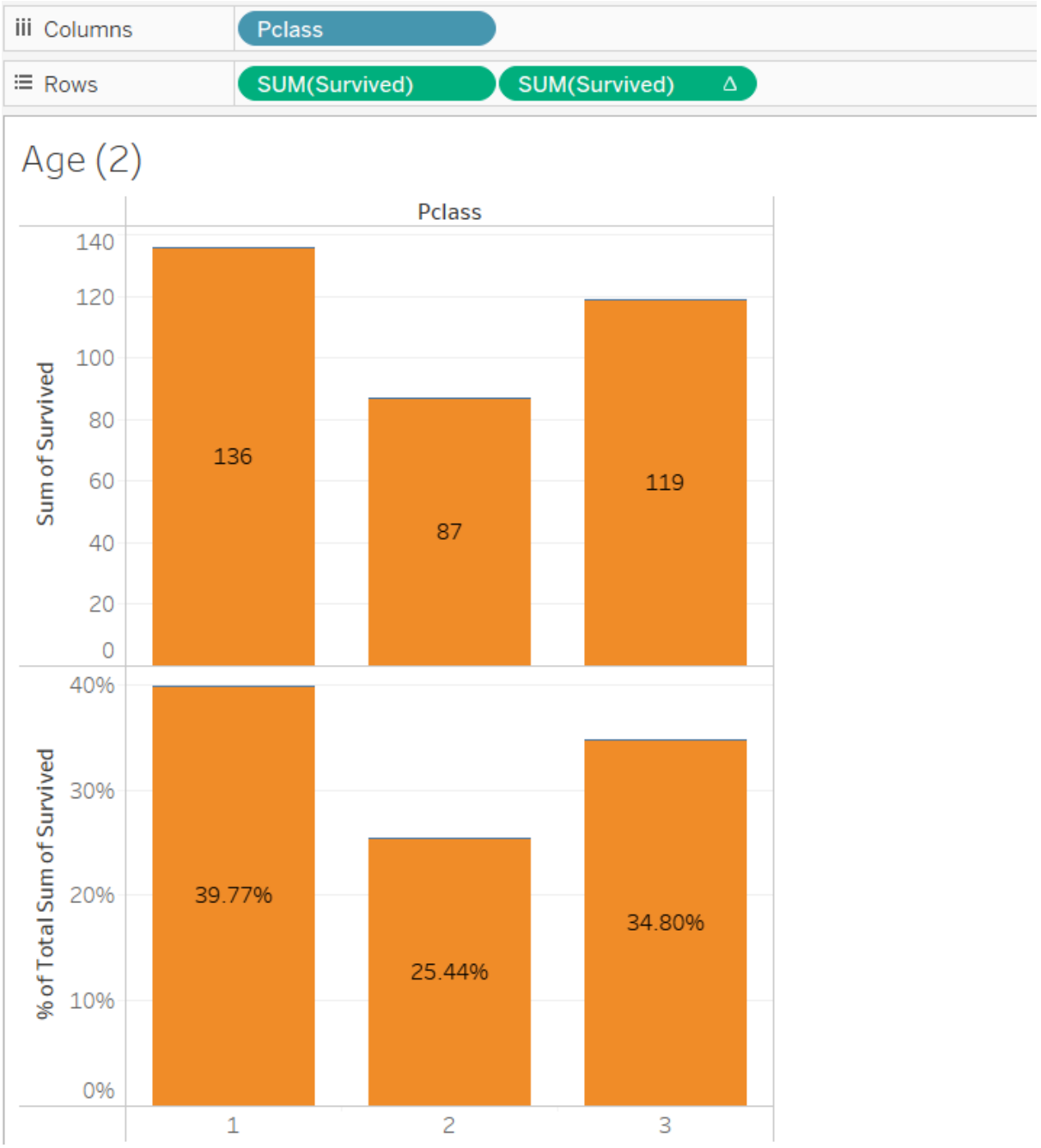


Add another variable

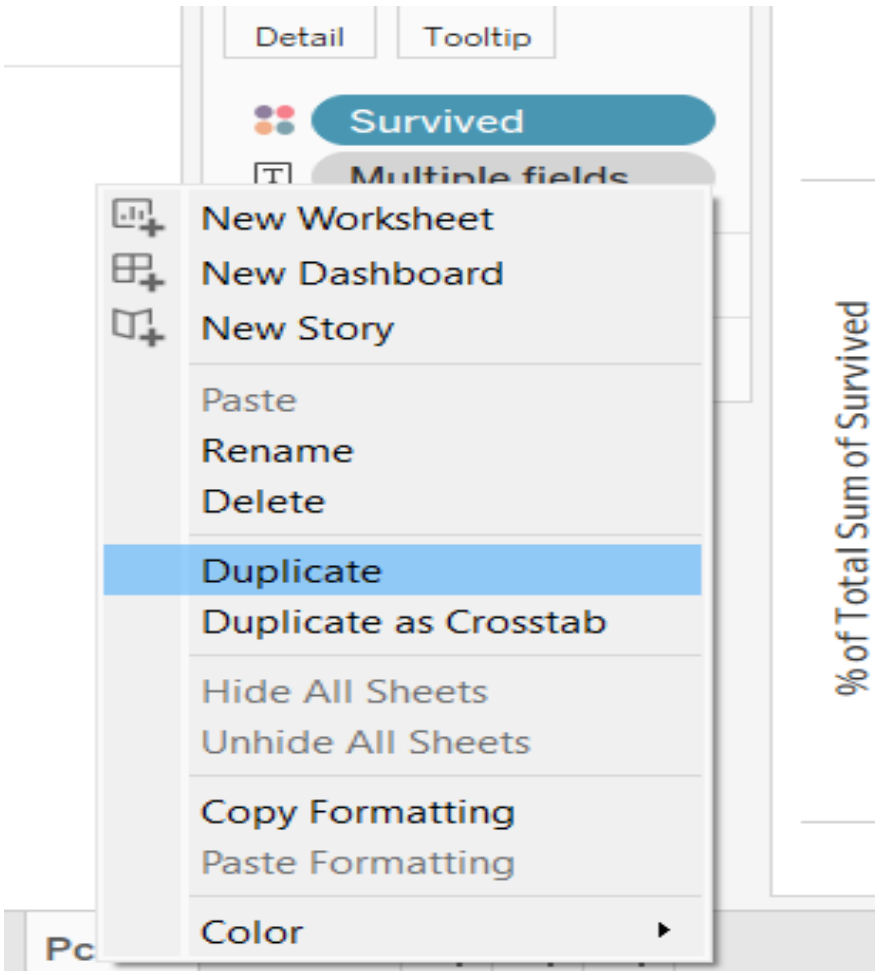

Data
Analytics
titanic
Search
Tables
Age (bin)
Cabin
Embarked
Name
Passenger Id
Sex
Survived
Ticket
Measure Names
Age
Fare
Parch
Pclass
Sib Sp
titanic.csv (Count)
Measure Values
Pages
Filters
Marks
All
Automatic
Color
Size
Label
Detail
Tooltip
Survived
Multiple fields
Add to Sheet
Show Filter
Duplicate
Rename
Hide
Create
Transform
Convert to Discrete
Convert to Dimension
Change Data Type
Default Properties
Geographic Role
Group by
Folders
Replace References...
Describe...
Data Source
Age
Age
4 marks
2 rows by 1 column
% of T
80°F
Smoke

Drag Pclass to the columns by using ctrl+holding left click and expand it.

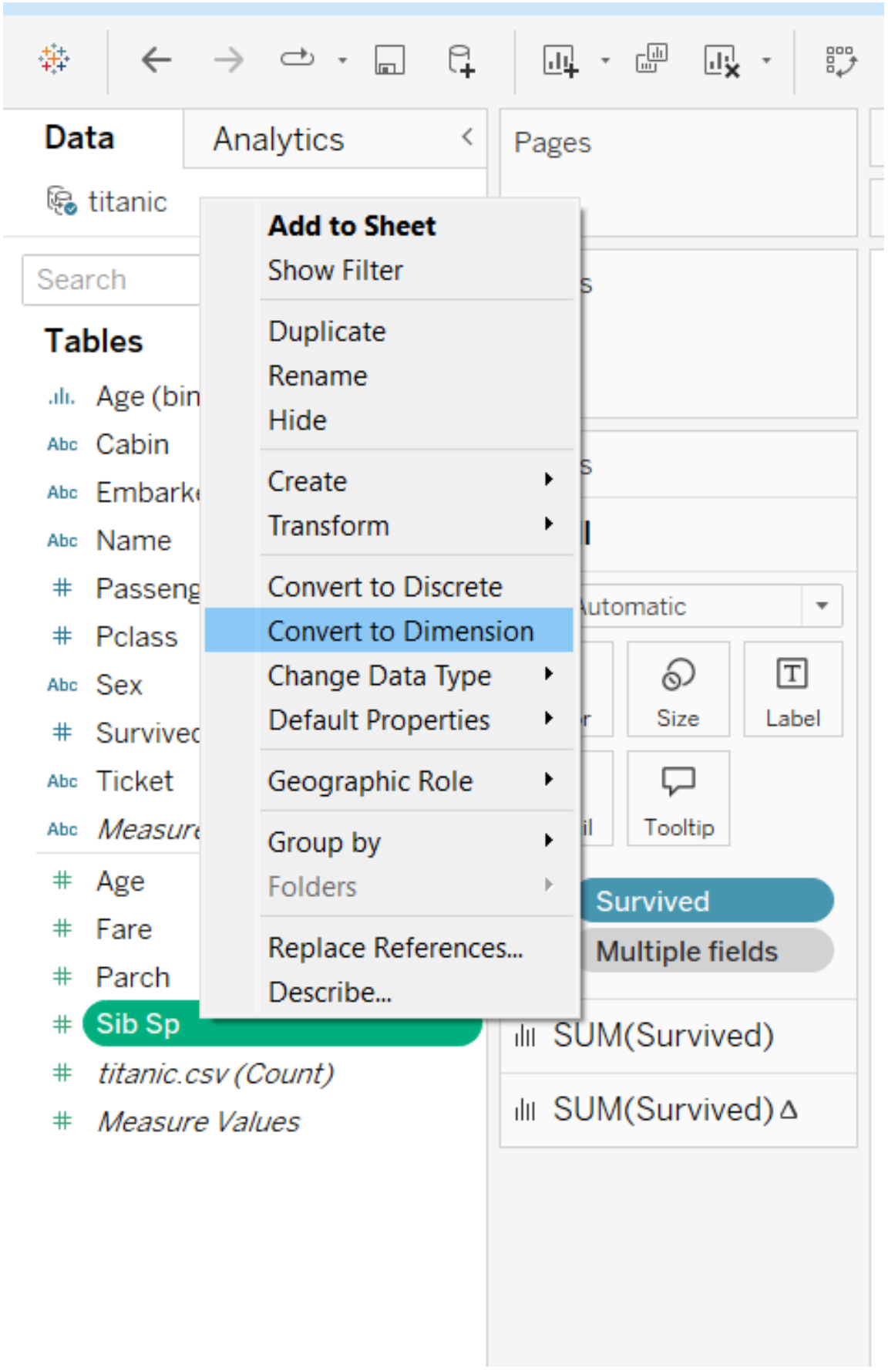




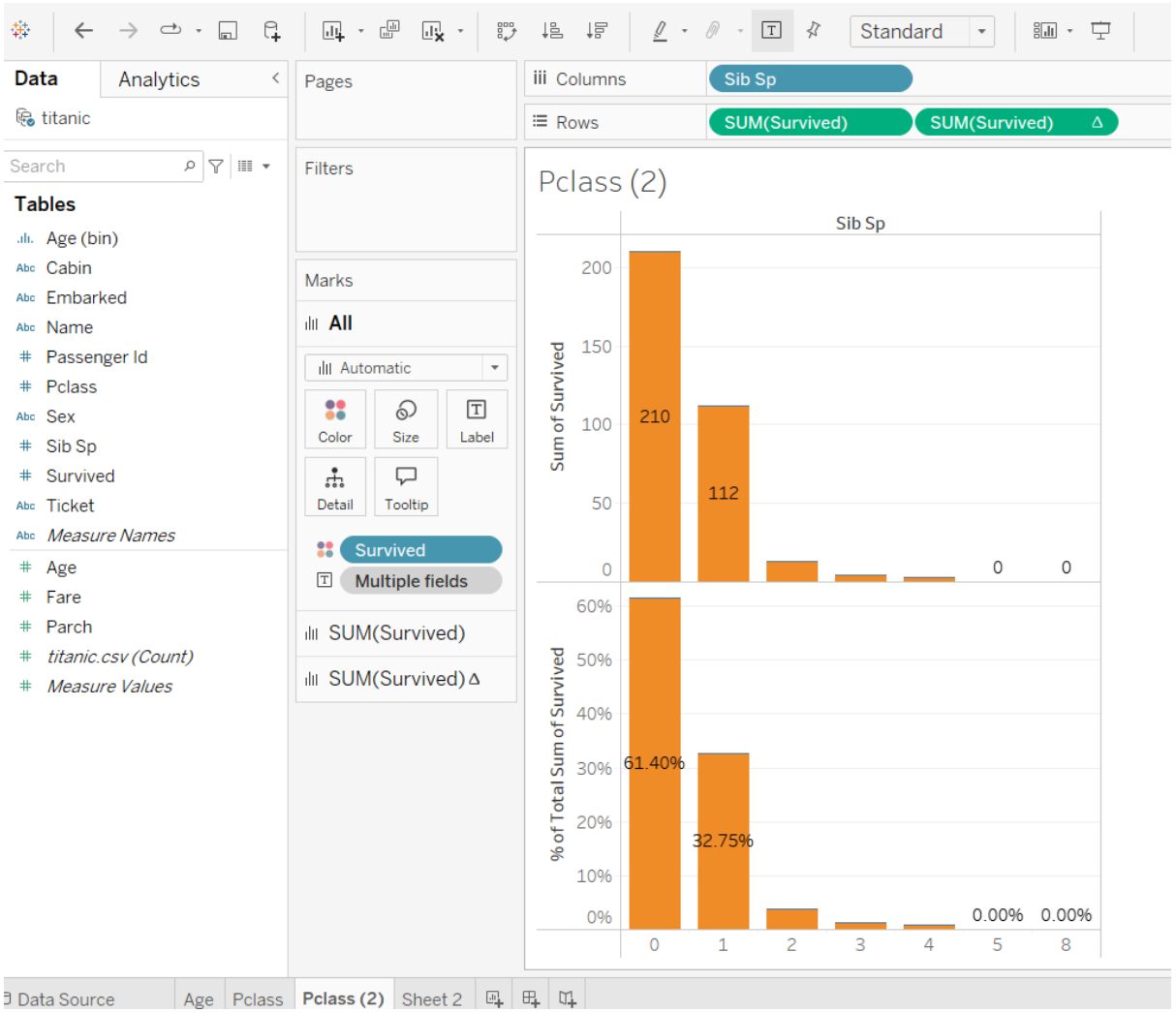
Right Click on Pclass and duplicate it:



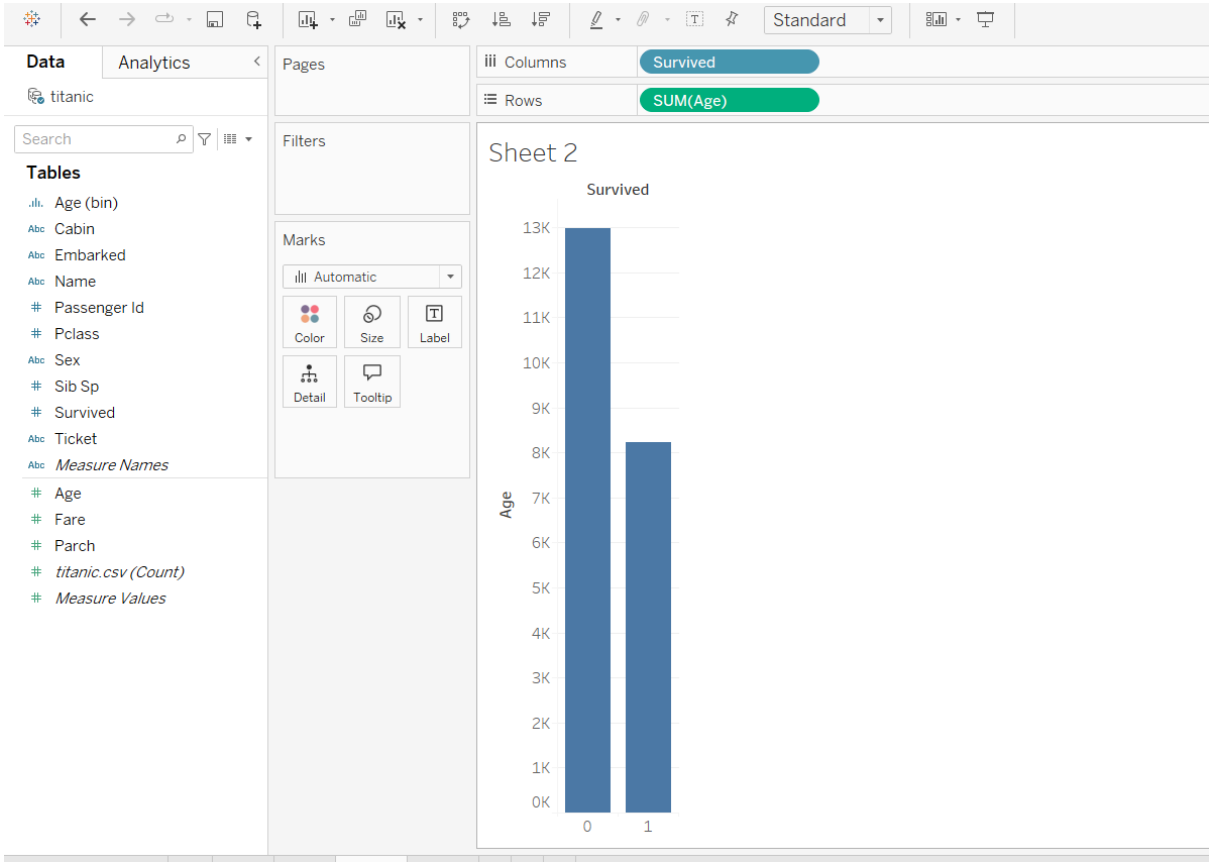
Select sibling Spouse and do the following


Data
Analytics
Pages
titanic
Search
Tables
Age (bin
Cabin
Embarke
Name
Passeng
Pclass
Sex
Survived
Ticket
Measure
Age
Fare
Parch
Sib Sp
titanic.csv (Count)
Measure Values
Add to Sheet
Show Filter
Duplicate
Rename
Hide
Create
Transform
Convert to Discrete
Convert to Dimension
Change Data Type
Default Properties
Geographic Role
Group by
Folders
Replace References...
Describe...
Automatic
Size
Label
Tooltip
Survived
Multiple fields
SUM(Survived)
SUM(Survived) Δ

Remove Pclass and add sibling spouse

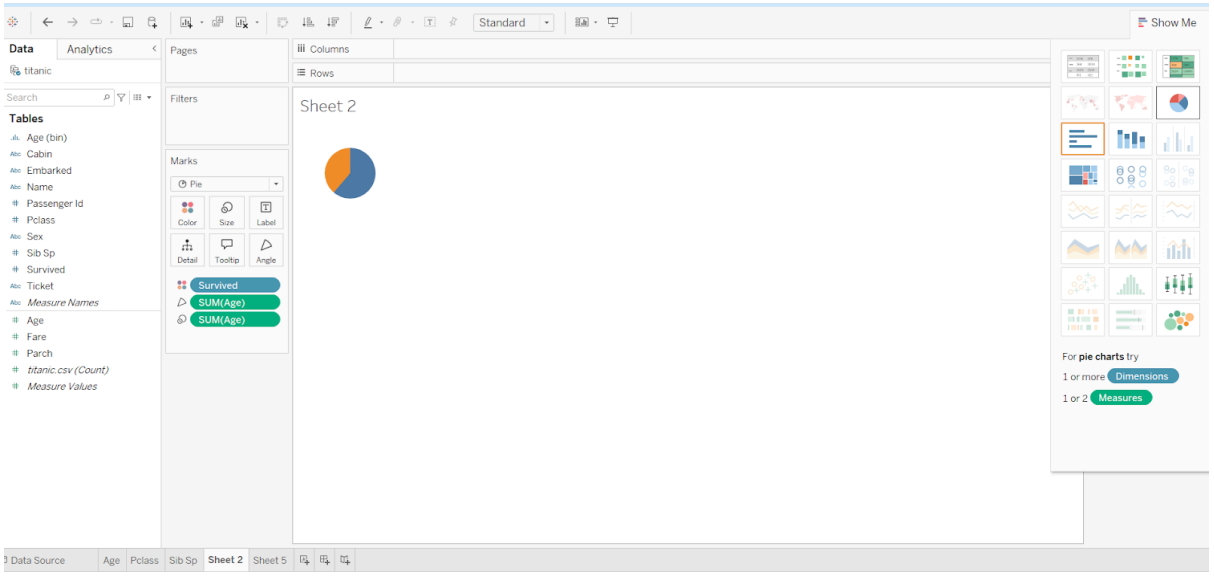


Create One more sheet and select variables for Columns and rows as follows

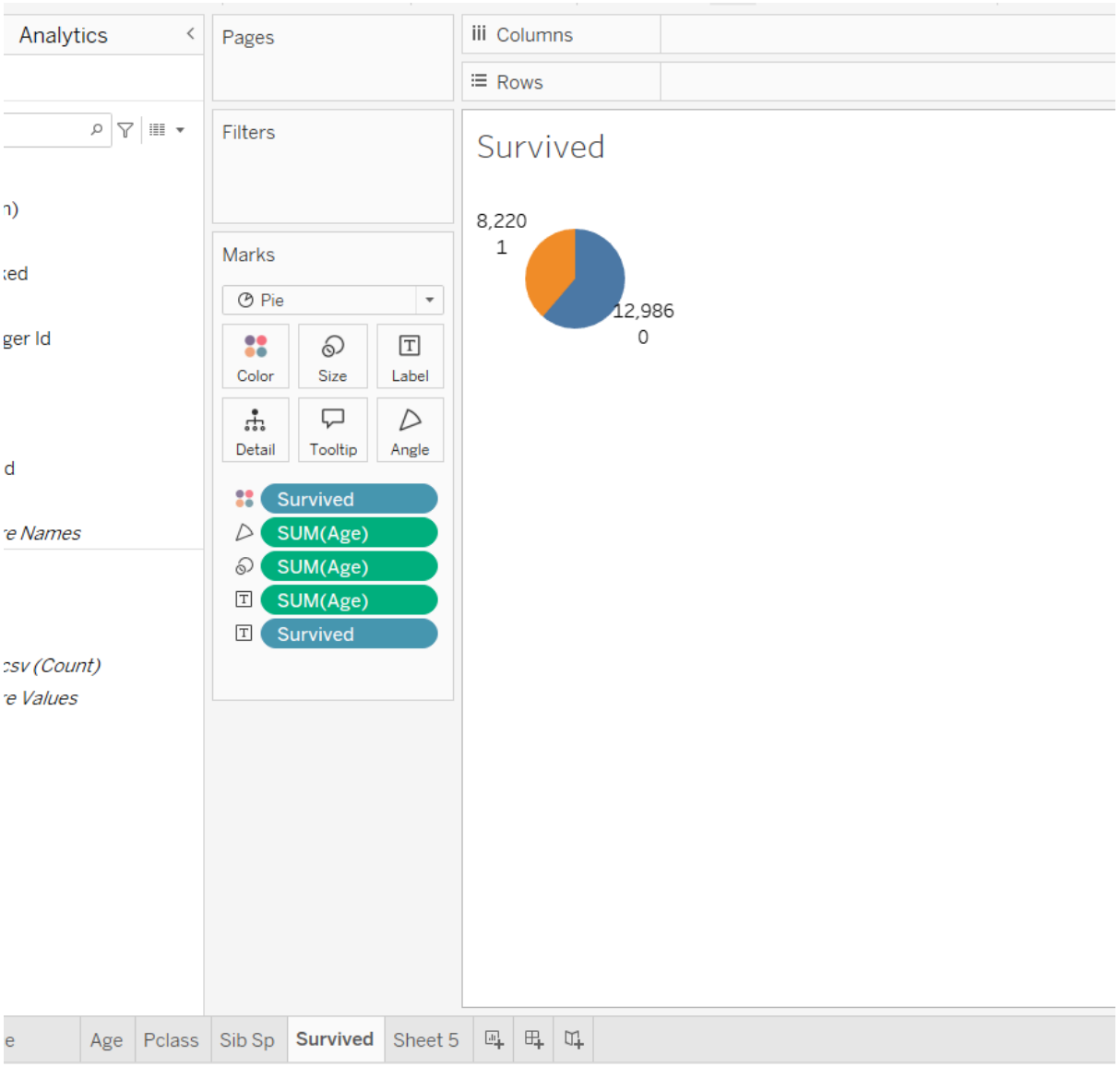


Pie Chart:

Goto Show me and select Pie Chart

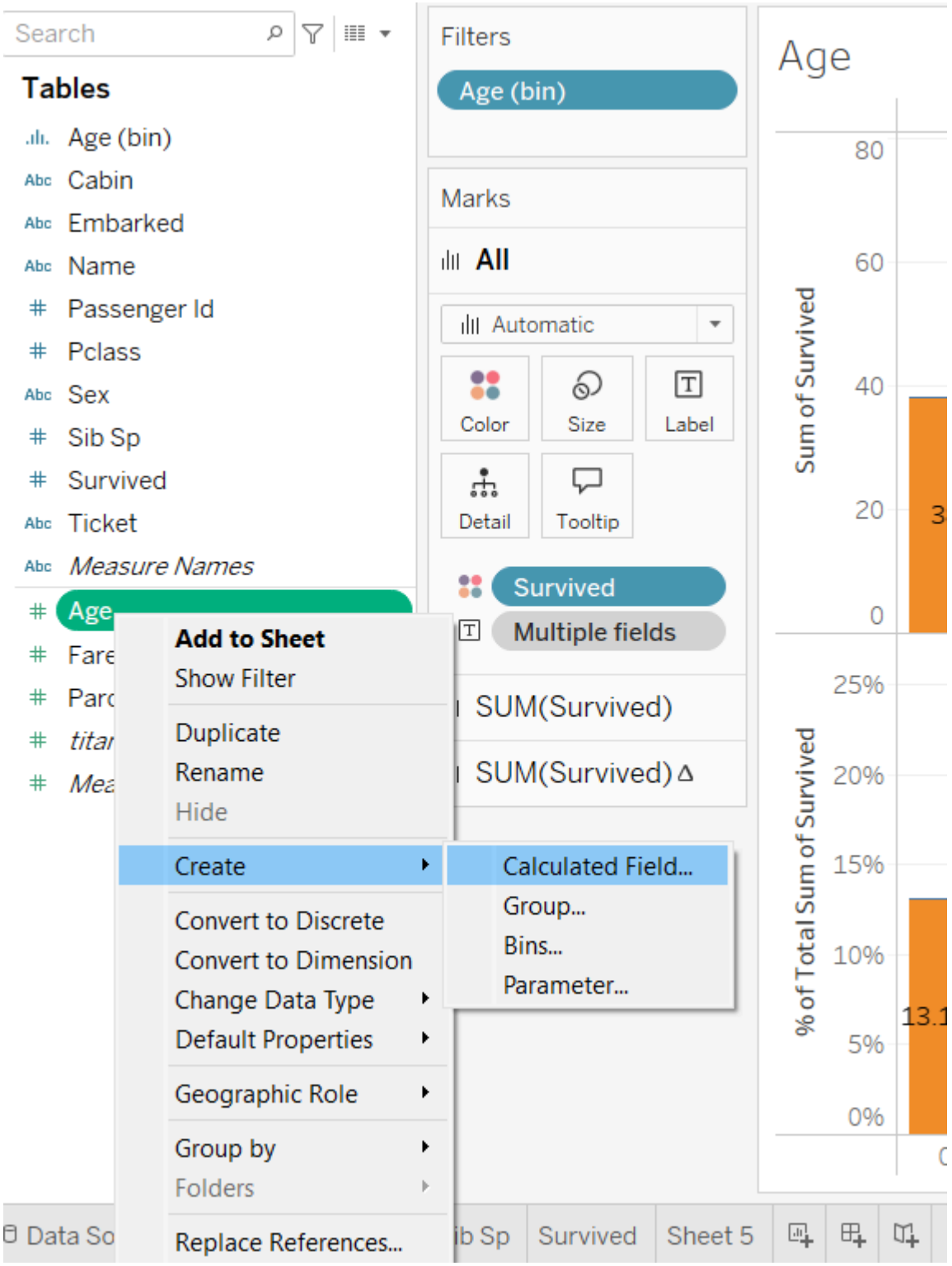


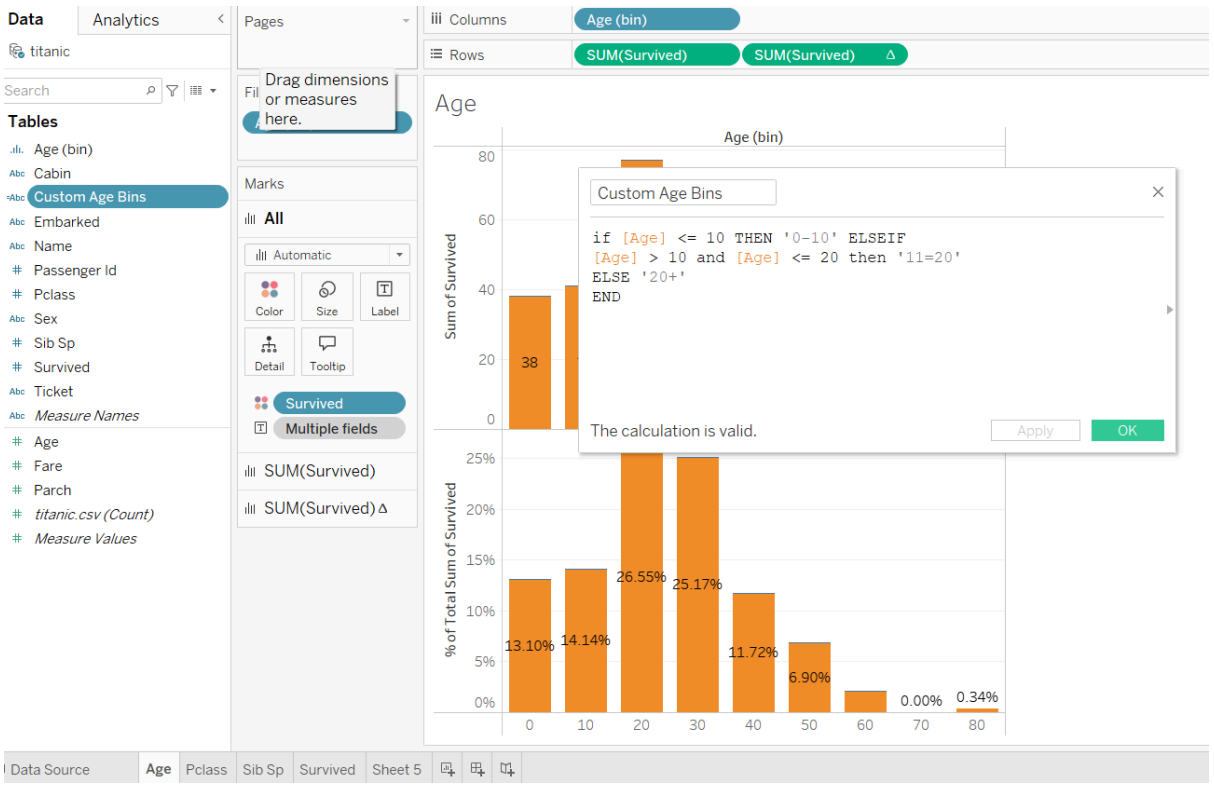
Add the labels to the visuals using drag and drop

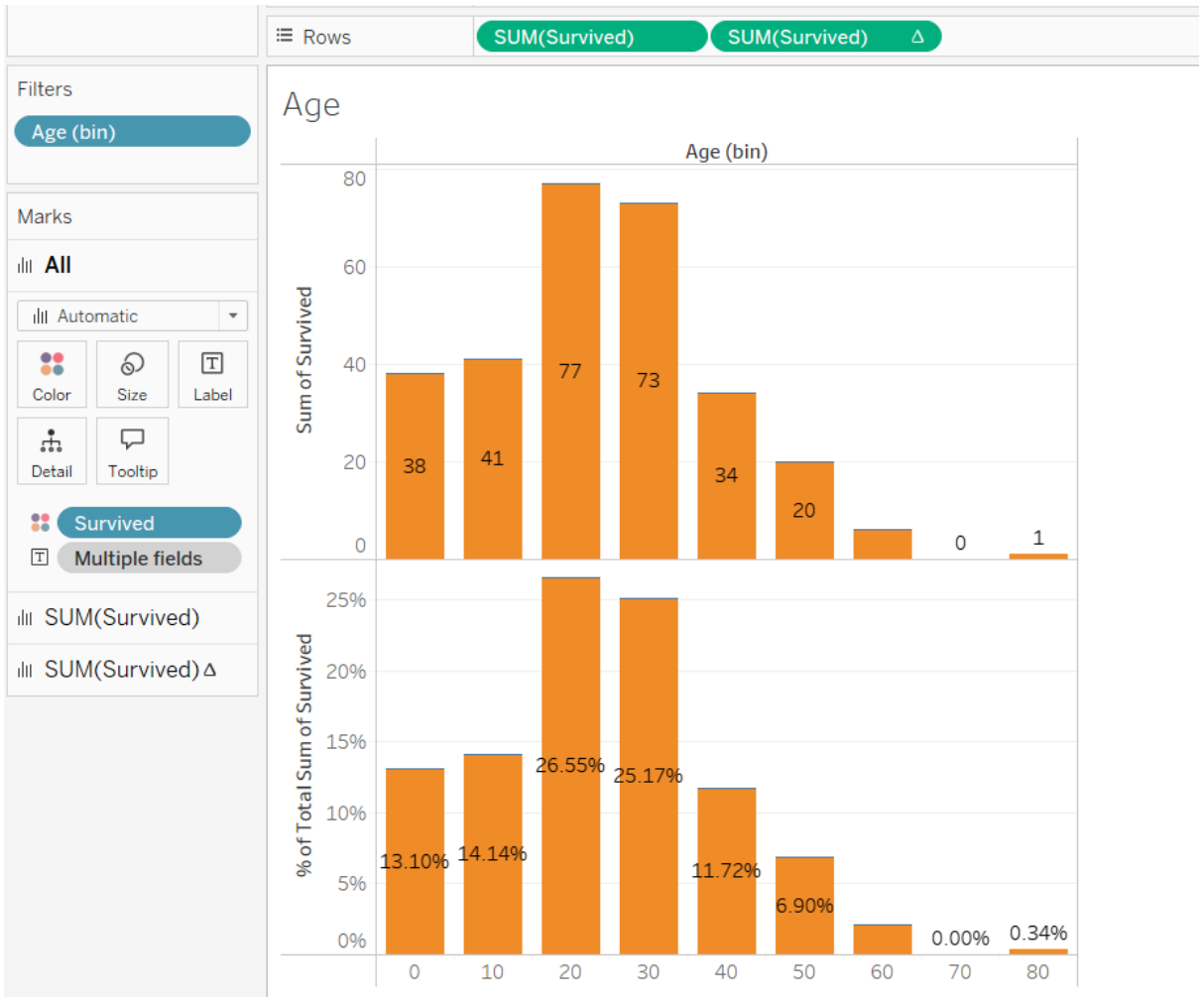


Create your own Measure:

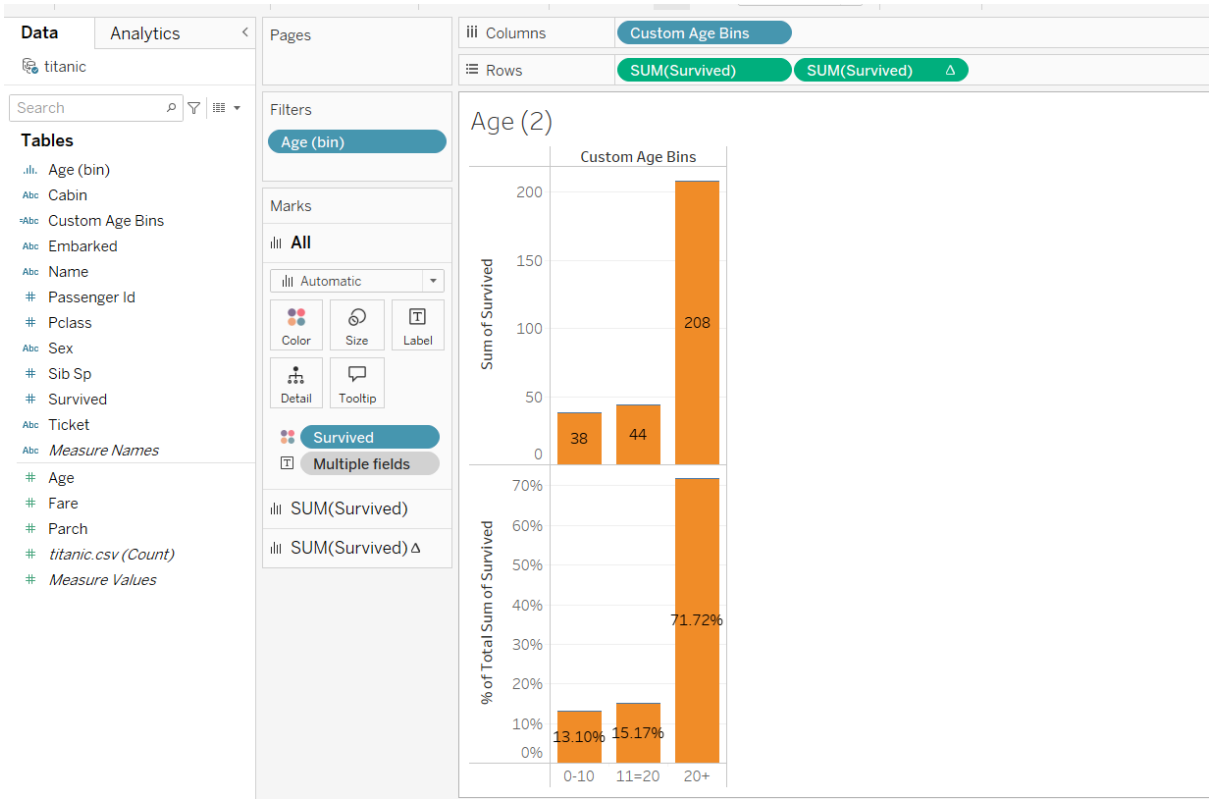
Creating your own measure in Tableau is a powerful way to perform custom calculations on your data. A measure in Tableau represents a numerical value that can be aggregated (sum, average, etc.) and visualized in various ways. Tableau allows you to create calculated measures using Calculated Fields. To create your own measure do the following,


Search
Tables
Age (bin)
Cabin
Embarked
Name
Passenger Id
Pclass
Sex
Sib Sp
Survived
Ticket
Measure Names
Age
Fare
Parc
titar
Mea
Add to Sheet
Show Filter
Duplicate
Rename
Hide
Create
Convert to Discrete
Convert to Dimension
Change Data Type
Default Properties
Geographic Role
Group by
Folders
Replace References...
Calculated Field...
Group...
Bins...
Parameter...
Filters
Age (bin)
Marks
All
Automatic
Color
Size
Label
Detail
Tooltip
Survived
Multiple fields
SUM(Survived)
SUM(Survived) Δ
Age
Sum of Survived
80
60
40
20
0
% of Total Sum of Survived
25%
20%
15%
10%
5%
0%
Data So
ib Sp
Survived
Sheet 5


Data
Analytics
titanic
Search
Tables
Age (bin)
Cabin
Custom Age Bins
Embarked
Name
Passenger Id
Pclass
Sex
Sib Sp
Survived
Ticket
Measure Names
Age
Fare
Parch
titanic.csv (Count)
Measure Values
Pages
Drag dimensions or measures here.
Marks
All
Automatic
Color
Size
Label
Detail
Tooltip
Survived
Multiple fields
SUM(Survived)
SUM(Survived) Δ
Columns
Age (bin)
Rows
SUM(Survived)
SUM(Survived) Δ
Age
Age (bin)
Sum of Survived
% of Total Sum of Survived
Custom Age Bins
if [Age] <= 10 THEN '0-10' ELSEIF
[Age] > 10 and [Age] <= 20 then '11-20'
ELSE '20+'
END
The calculation is valid.
Apply
OK
38
13.10%
14.14%
26.55%
25.17%
11.72%
6.90%
0.00%
0.34%
Data Source
Age
Pclass
Sib Sp
Survived
Sheet 5

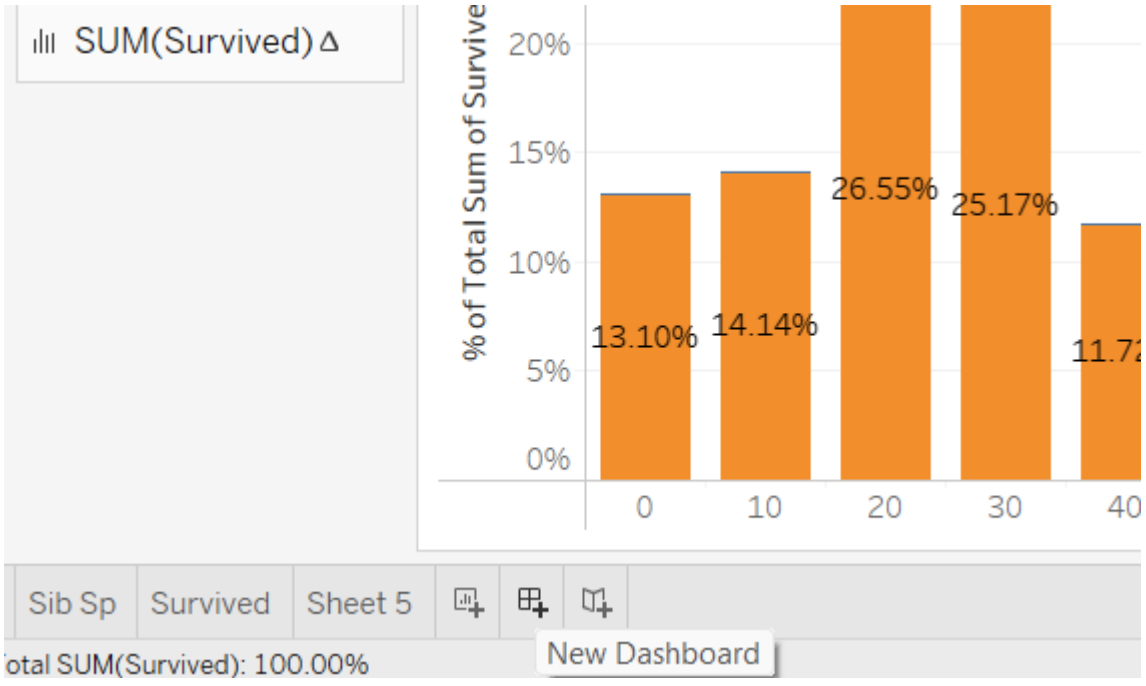

Rows
SUM(Survived)
SUM(Survived) Δ
Filters
Age (bin)
Marks
All
Automatic
Color
Size
Label
Detail
Tooltip
Survived
Multiple fields
SUM(Survived)
SUM(Survived) Δ
Age
Age (bin)
Sum of Survived
% of Total Sum of Survived
38
41
77
73
34
20
0
1
13.10%
14.14%
26.55%
25.17%
11.72%
6.90%
0.00%
0.34%

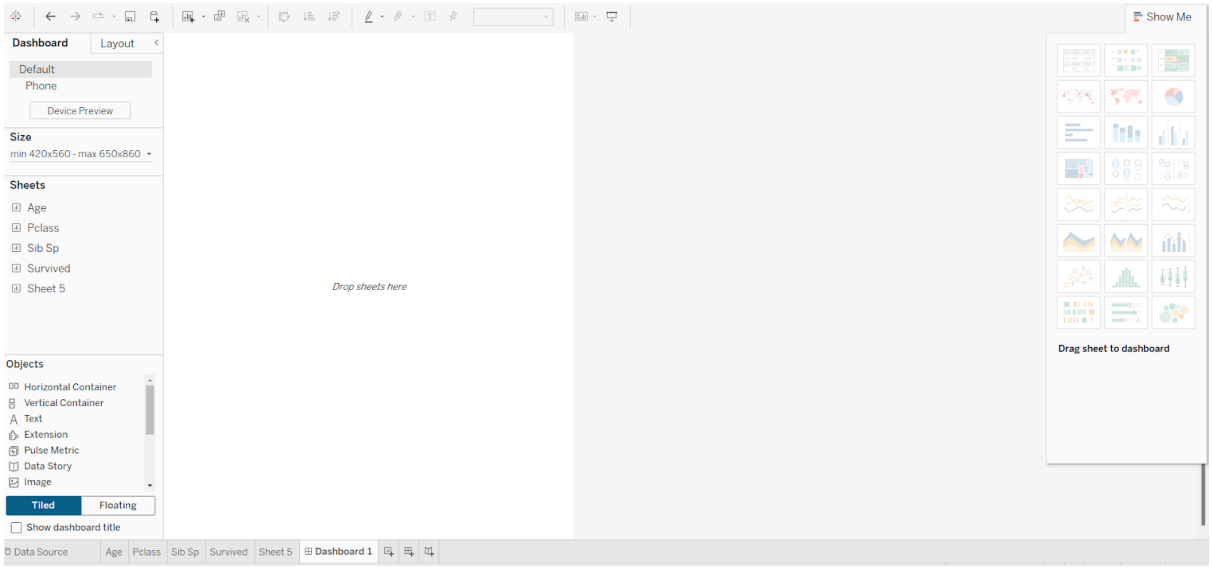
You can Swap out the the labels with applied Custom Age Bins Calculation Like Here Swapping Columns with Custom Age Bins



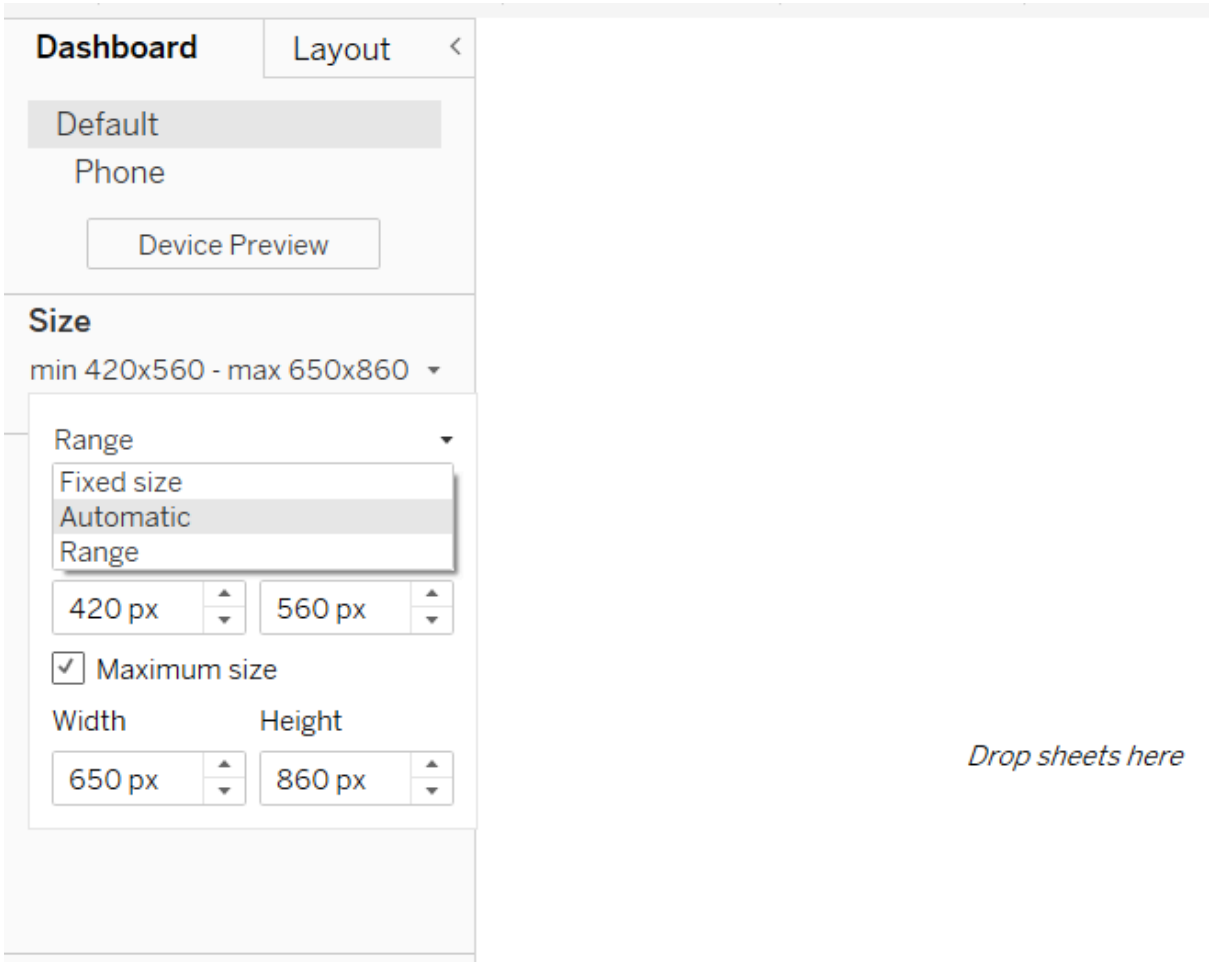
Create a New Dashboard:

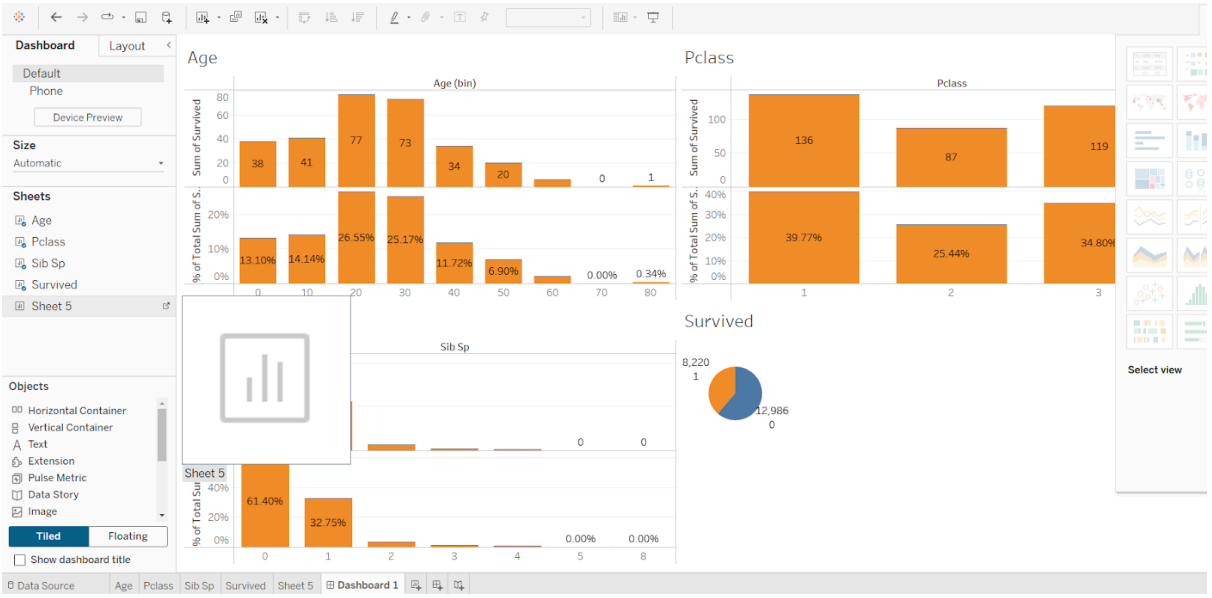
Click on the option new dashboard which is present below as shown.



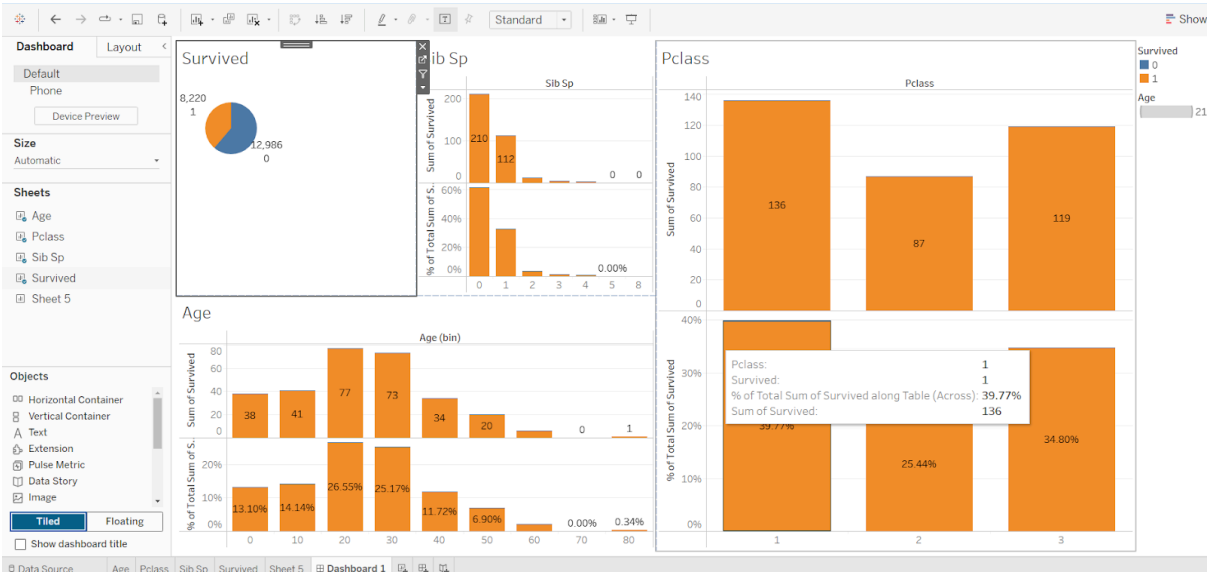


Change the Size to automatic as shown and double click on each Sheets present there:



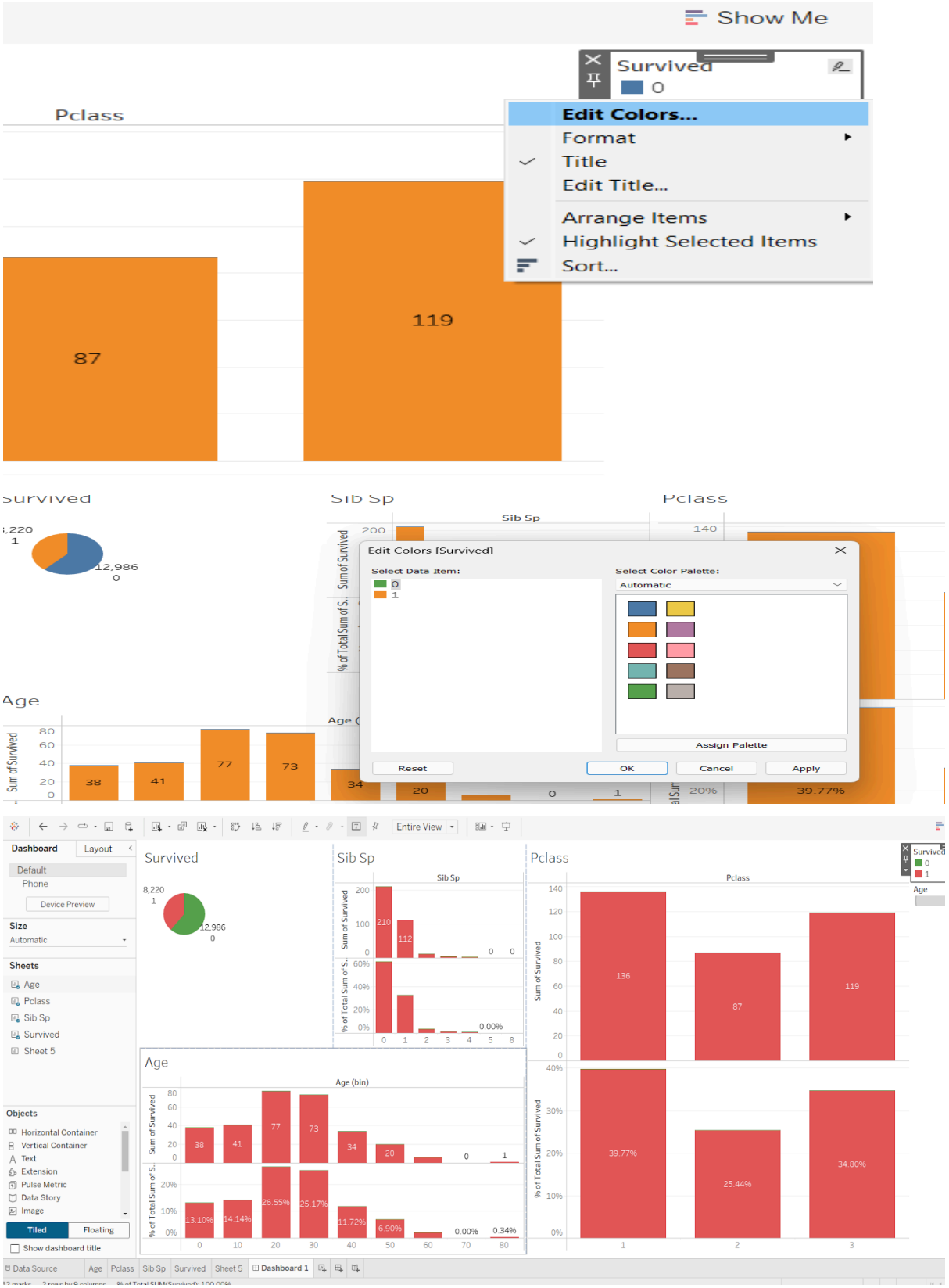


You can change the Sheets position as per your convenience using drag and drop



Changing Colors:

We can also change colors as shown on the Right side


Show Me
Survived
0
Pclass
Edit Colors...
Format
Title
Edit Title...
Arrange Items
Highlight Selected Items
Sort...
87
119
Survived
Sib Sp
Pclass
Edit Colors [Survived]
Select Data Item:
Select Color Palette:
Automatic
Assign Palette
Reset
OK
Cancel
Apply
Age
Sum of Survived
38
41
77
73
34
20
0
1
39.77%
Entire View
Dashboard
Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
Age
Pclass
Sib Sp
Survived
Sheet 5
Objects
Horizontal Container
Vertical Container
Text
Extension
Pulse Metric
Data Story
Image
Tiled
Floating
Show dashboard title
Survived
8,220
1
12,986
0
Sib Sp
Sum of Survived
% of Total Sum of S..
210
112
0.00%
Pclass
136
87
119
39.77%
25.44%
34.80%
Age
Age (bin)
13.10%
14.14%
26.55%
25.17%
11.72%
6.90%
0.00%
0.34%
Data Source
Age
Pclass
Sib Sp
Survived
Sheet 5
Dashboard 1