

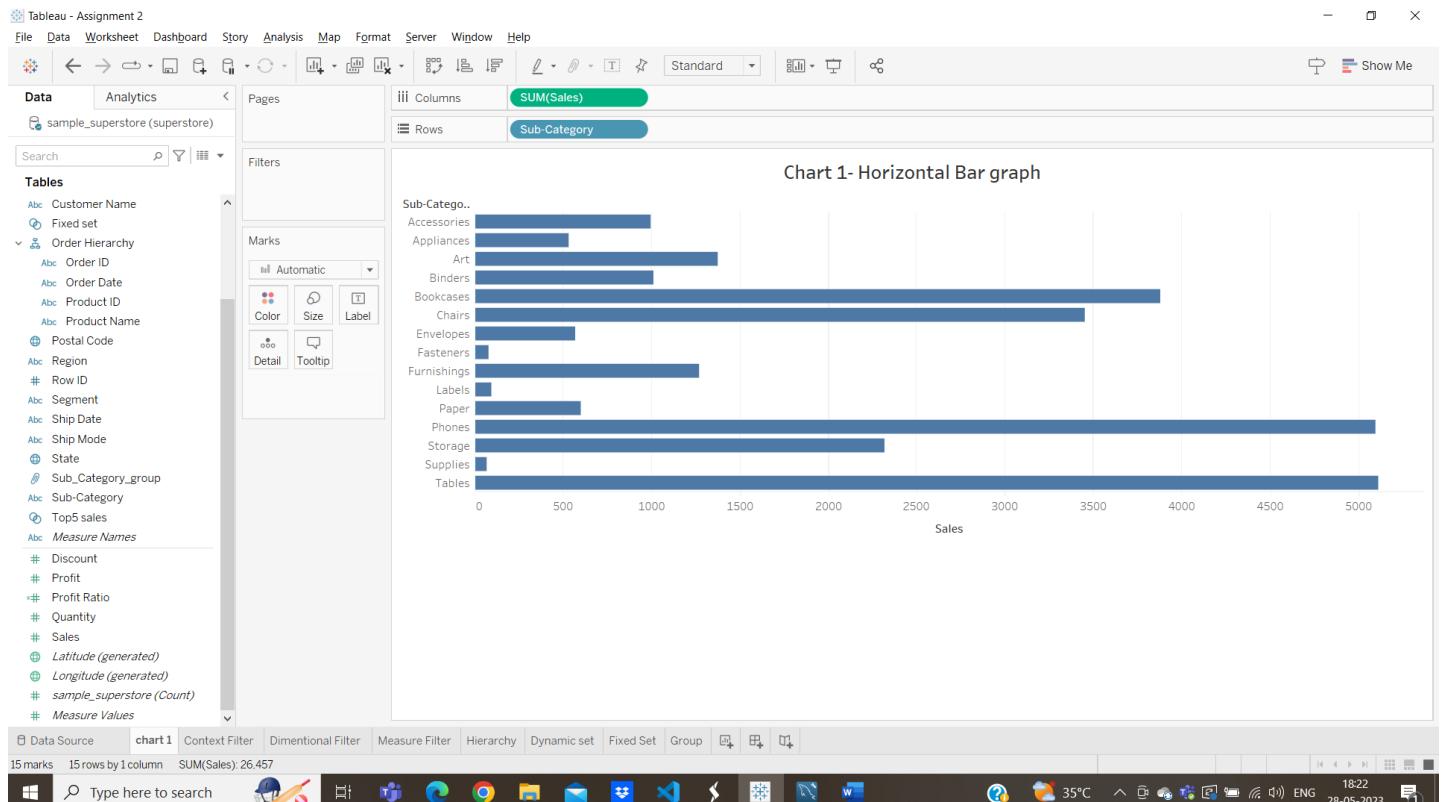
DATA ANALYTICS EXTERNSHIP- ASSIGNMENT 2

G-DRIVE LINK-

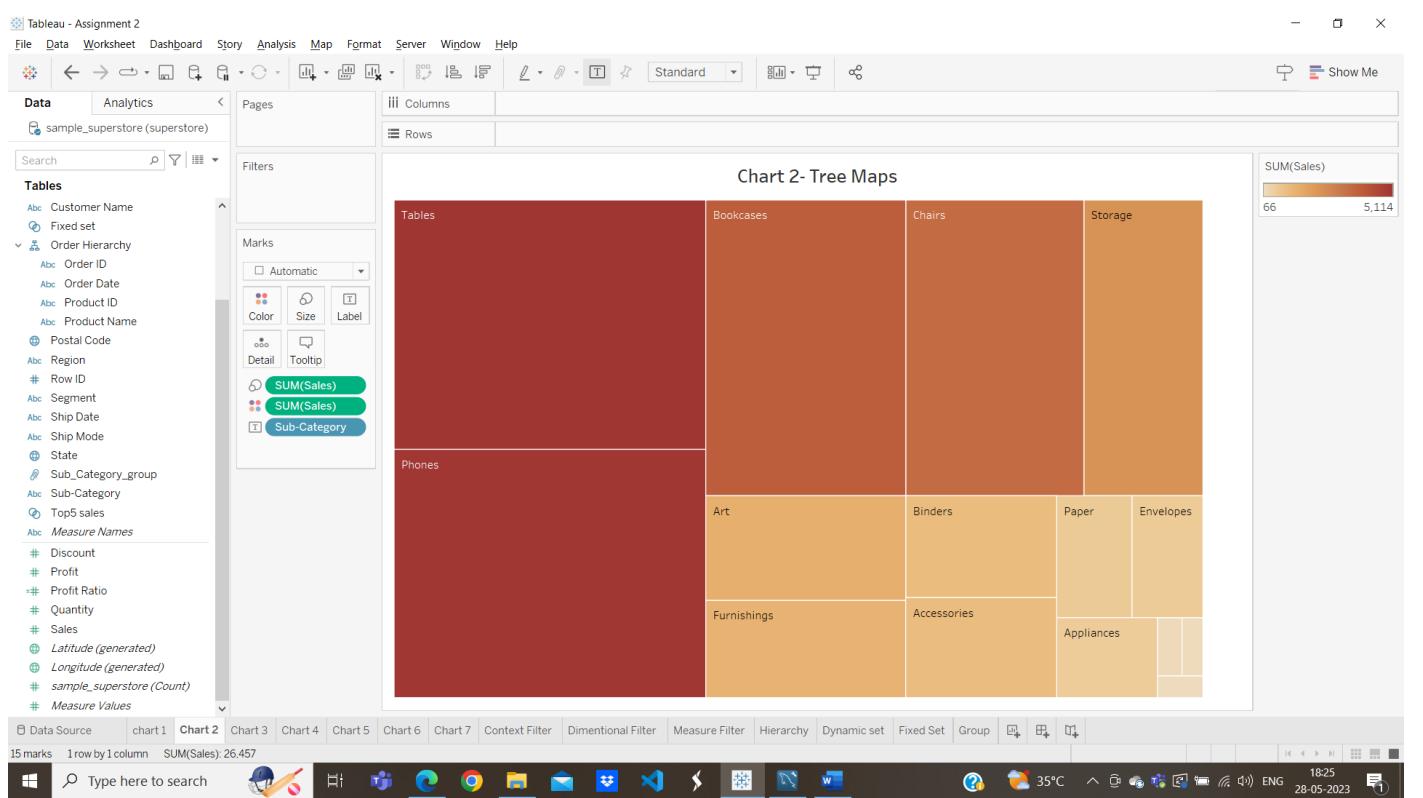
https://drive.google.com/drive/folders/1pATdEwtYNdXyMNIPRN0g5i_69YDTaTxx?usp=share_link

1) Create any 7 data visualizations/charts and perform the following

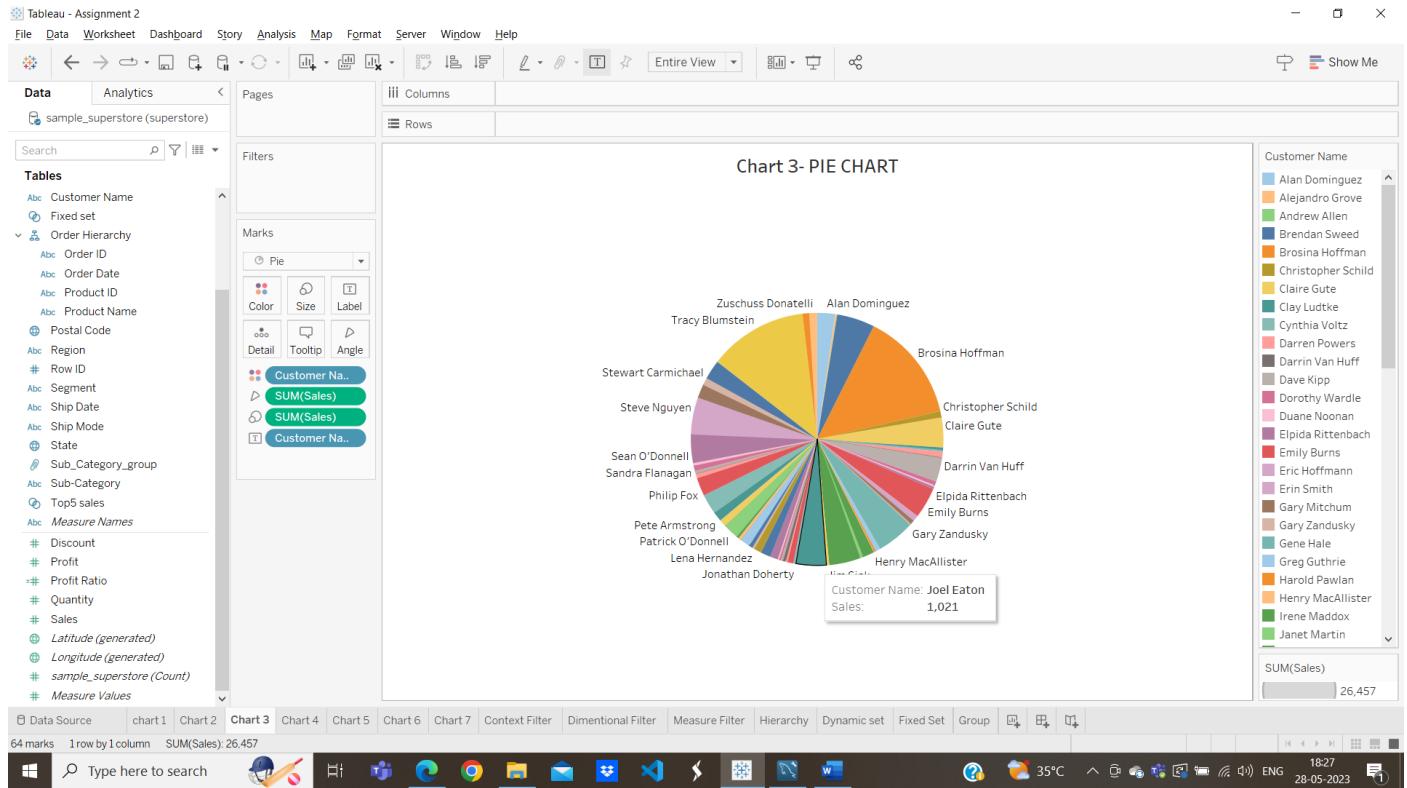
HORIZONTAL BAR GRAPH:



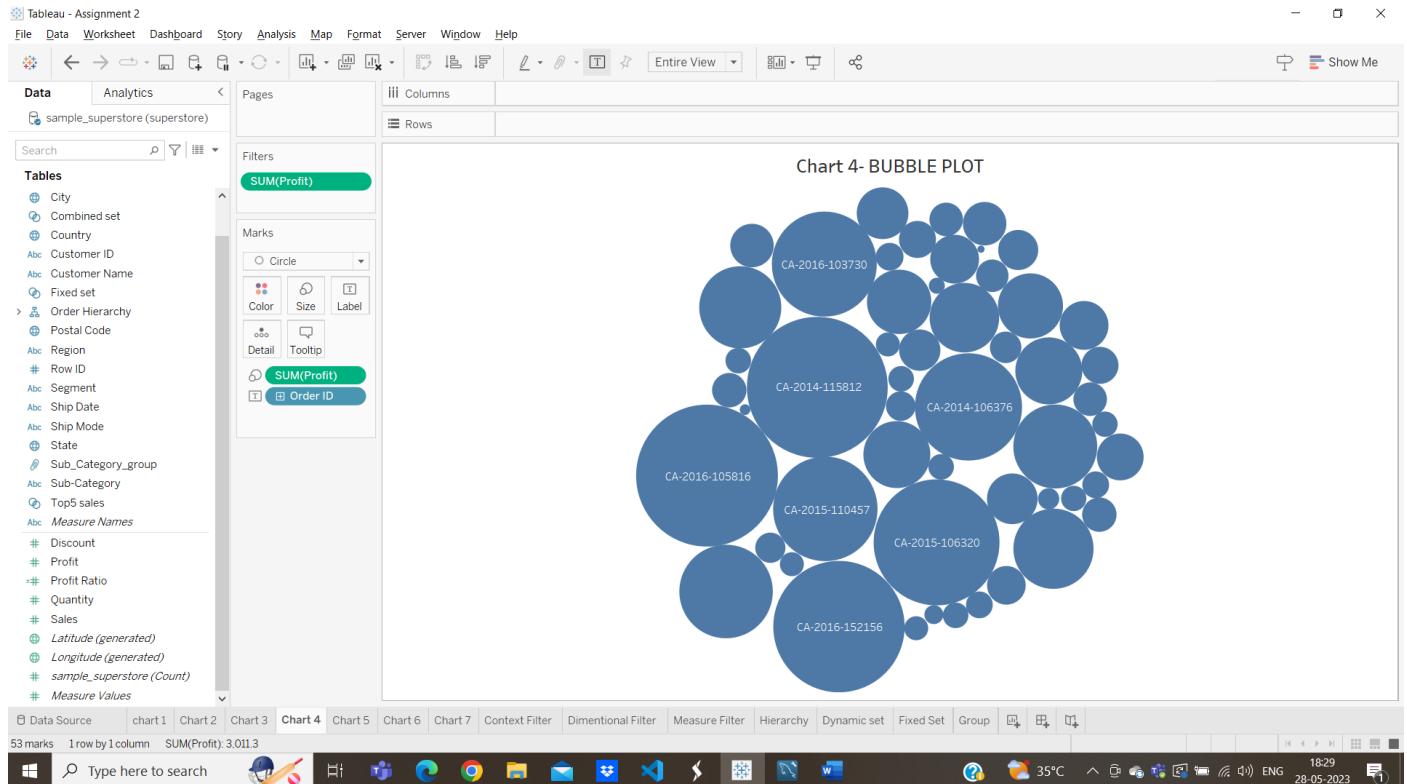
TREE MAPS:



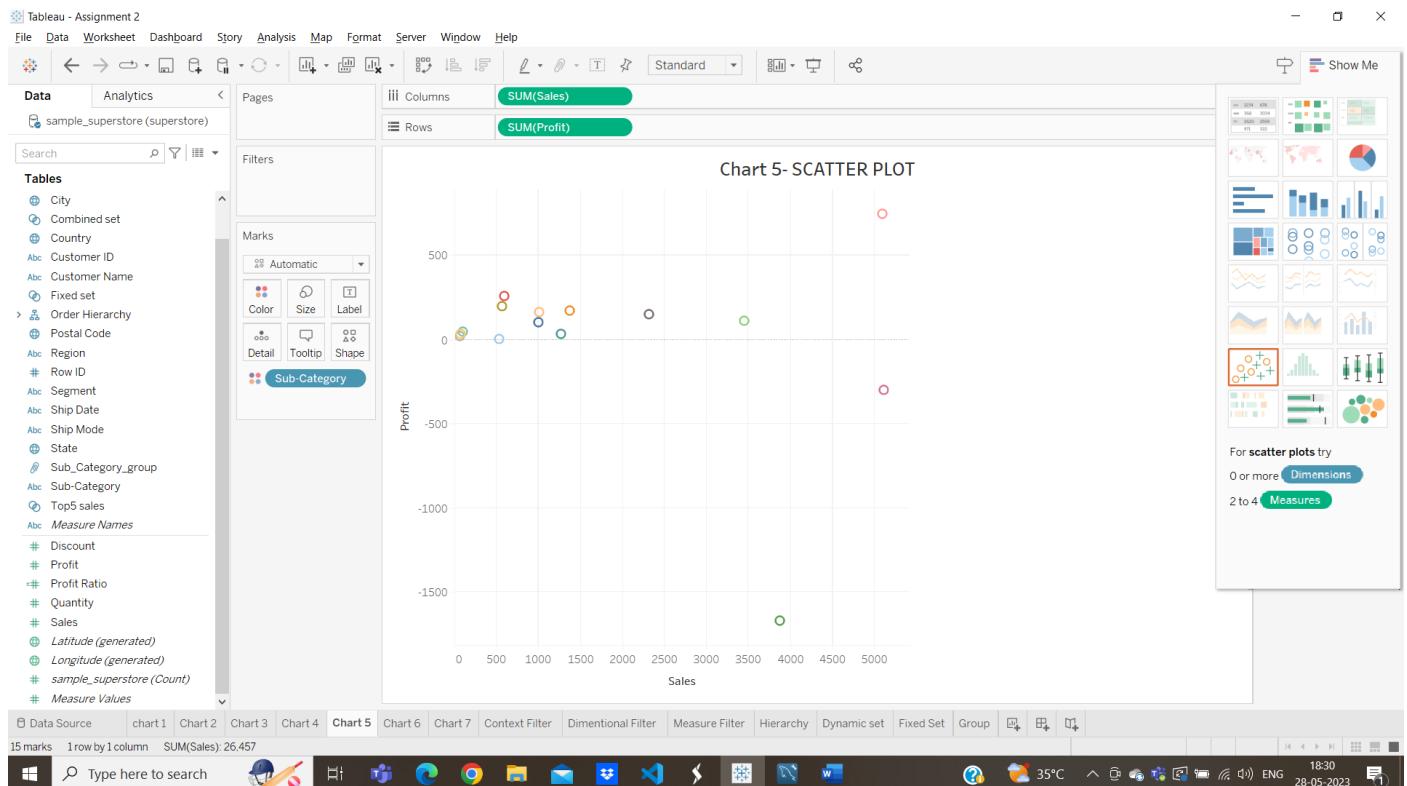
PIE CHARTS:



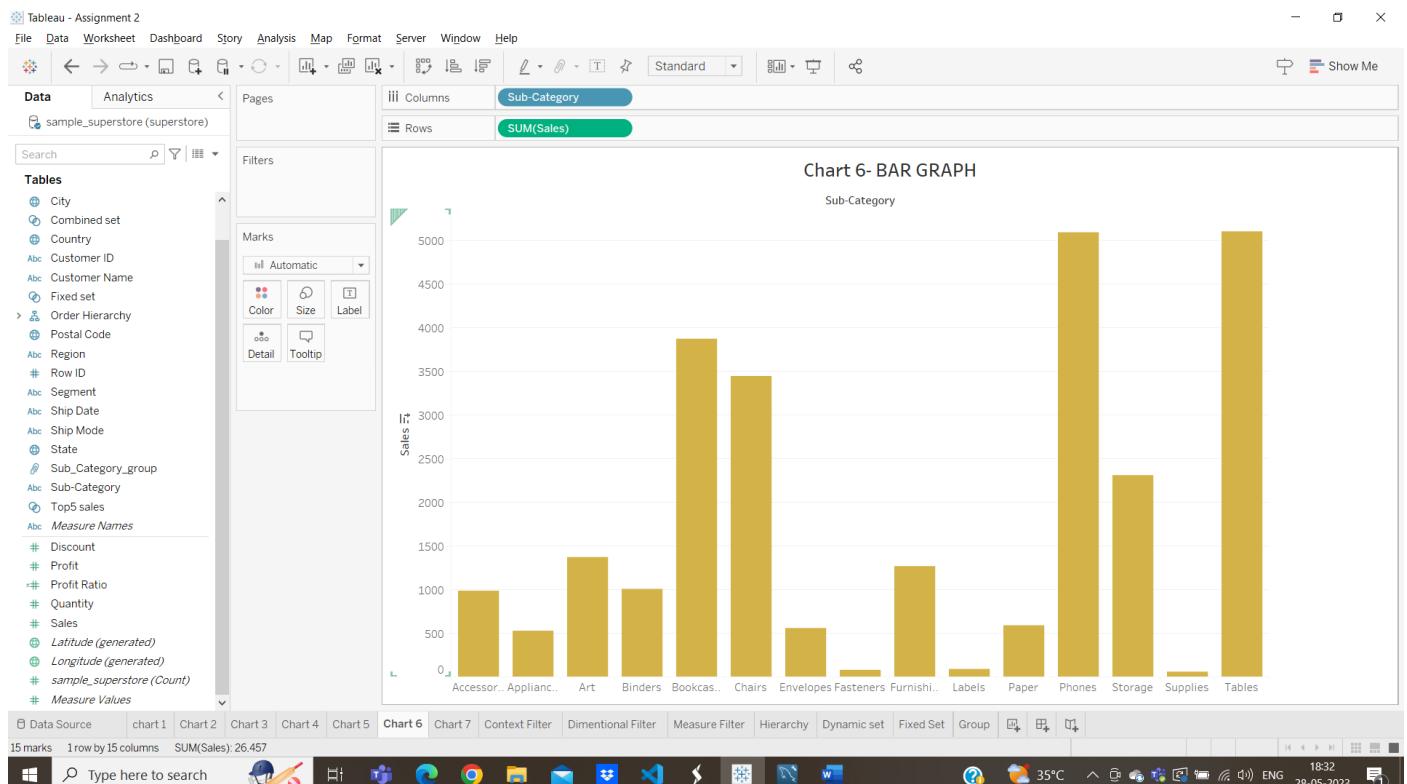
BUBBLE PLOT:



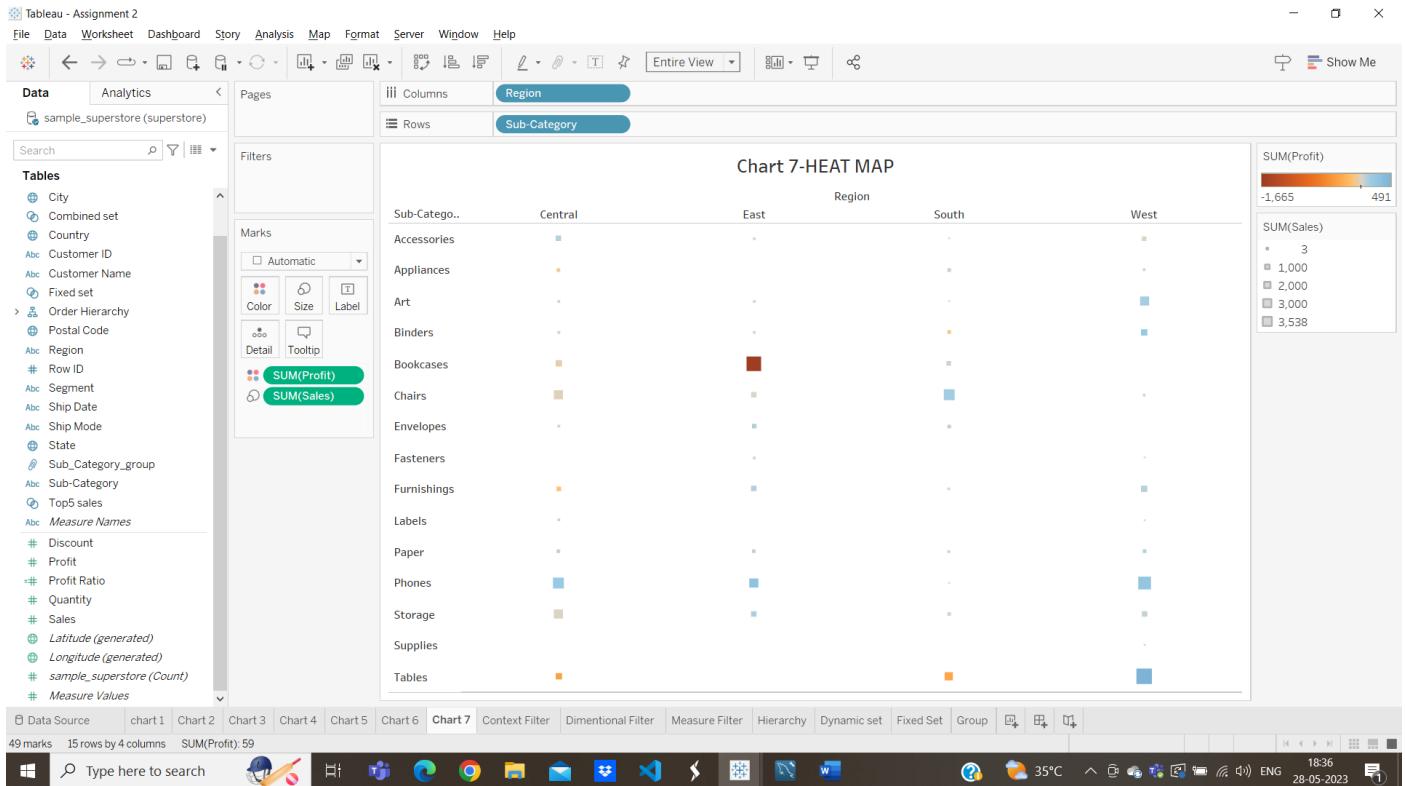
SCATTER PLOT:



BAR GRAPH:



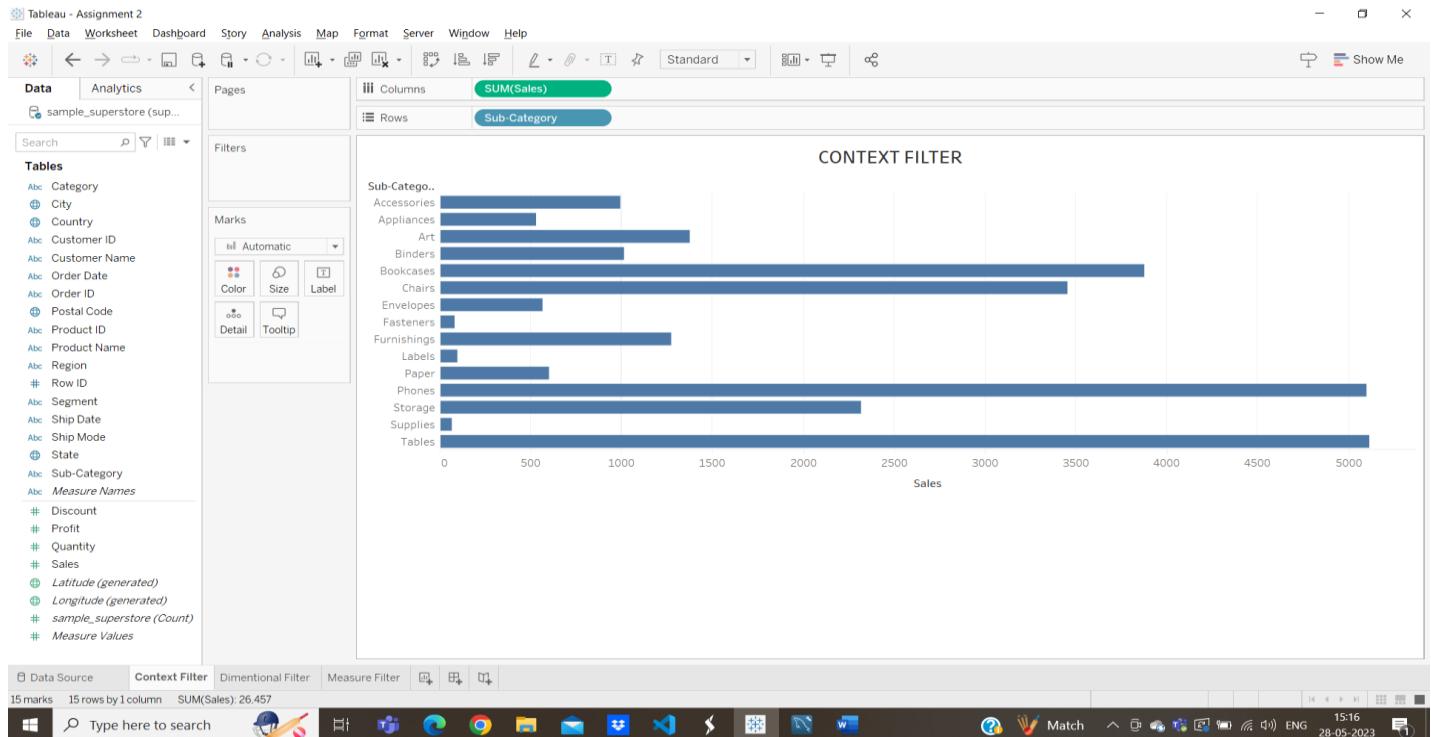
HEAT MAPS:



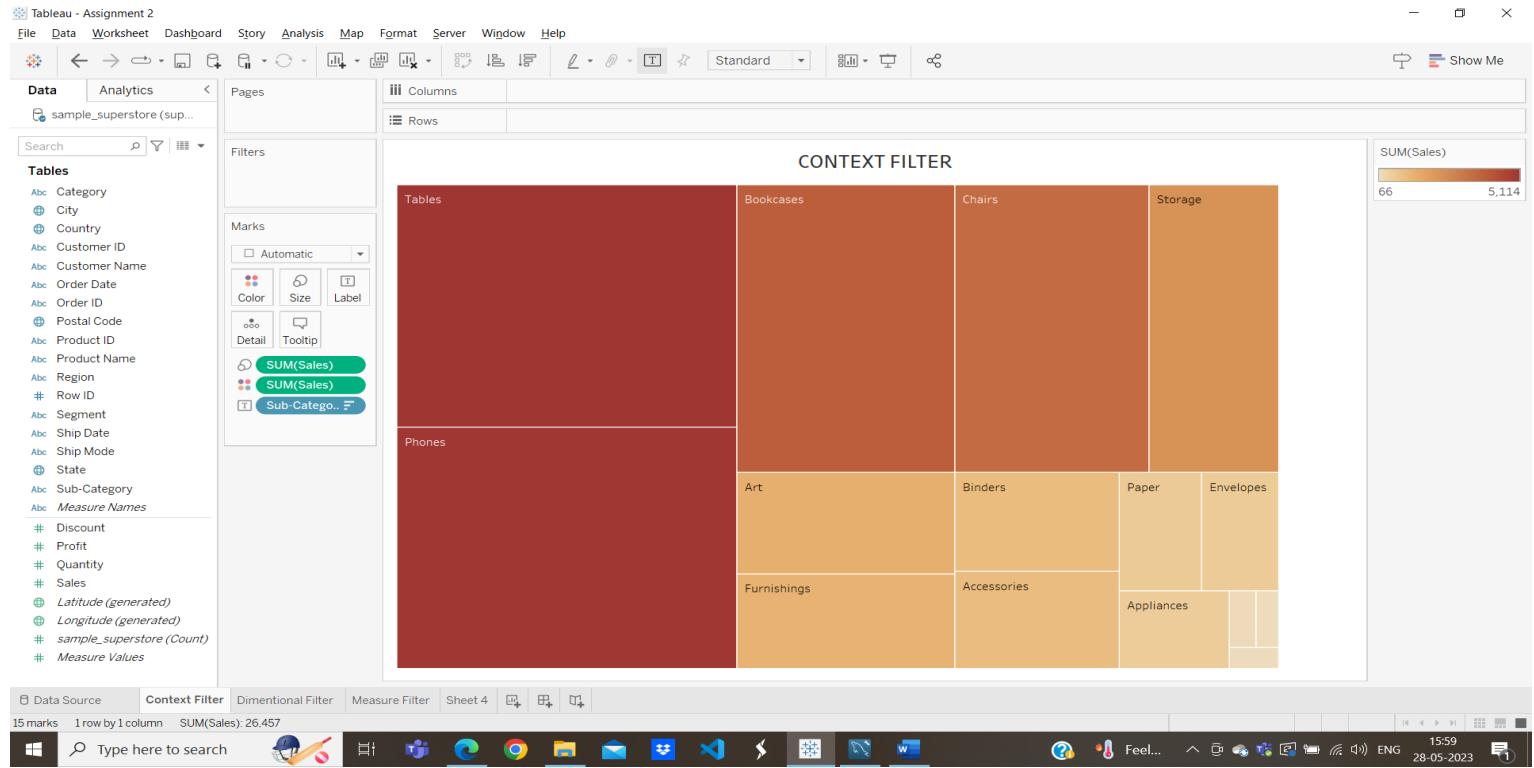
2) Apply dimension filter, context and measure filter on any of the three visualizations

CONTEXT FILTER:

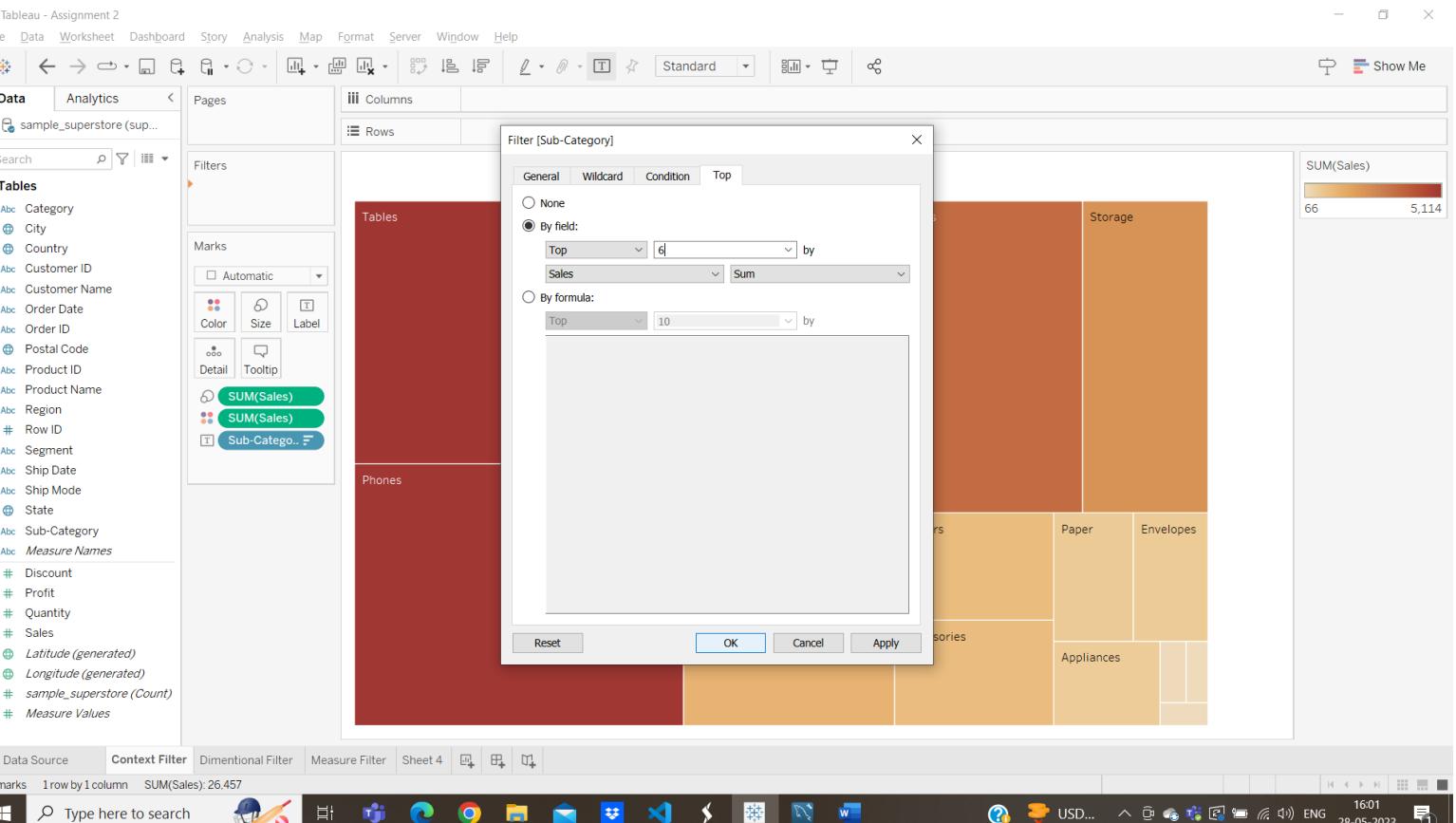
Taking Sales as Column and Sub Category as Row

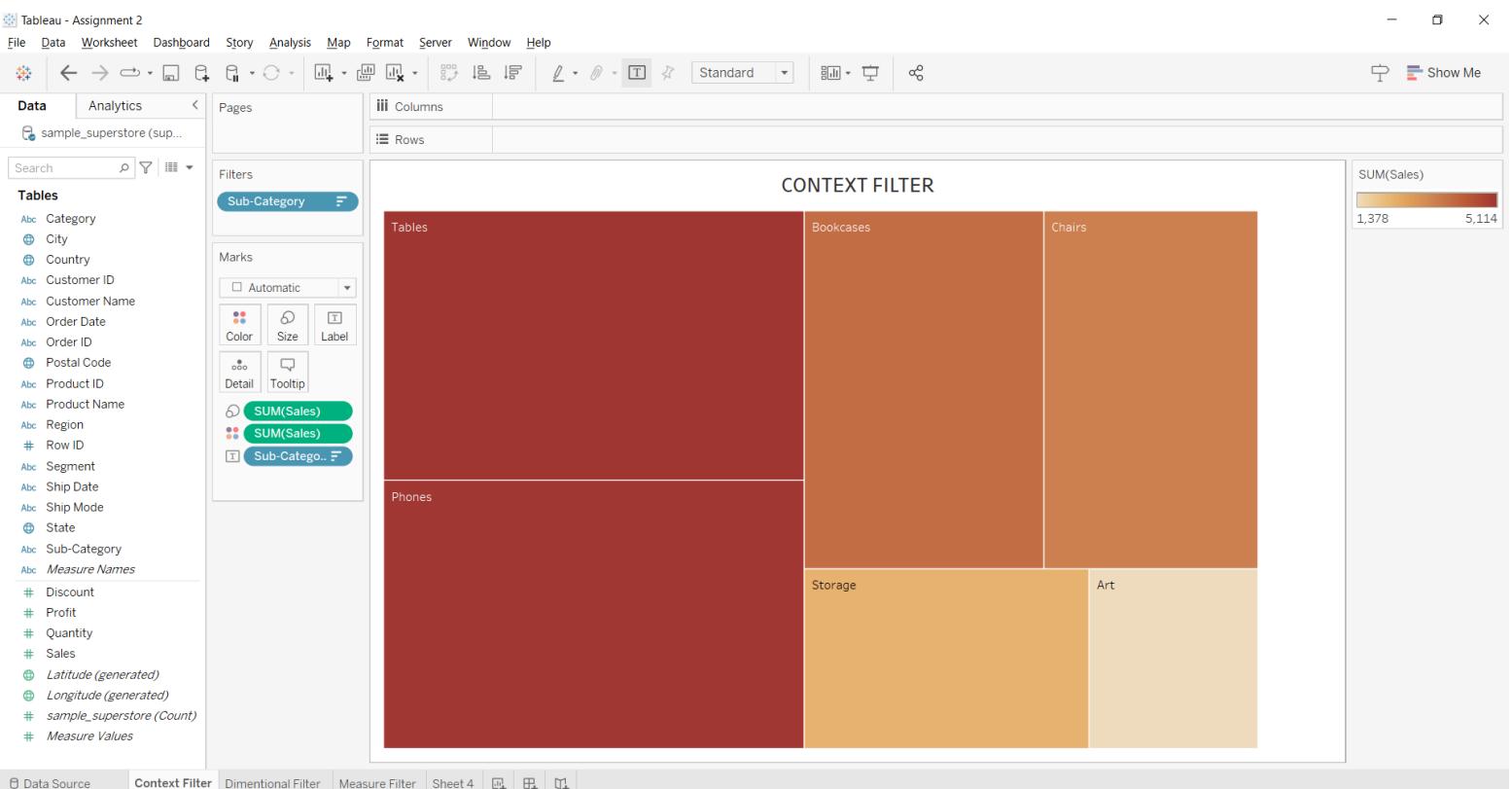


Applying Using TREE MAP:

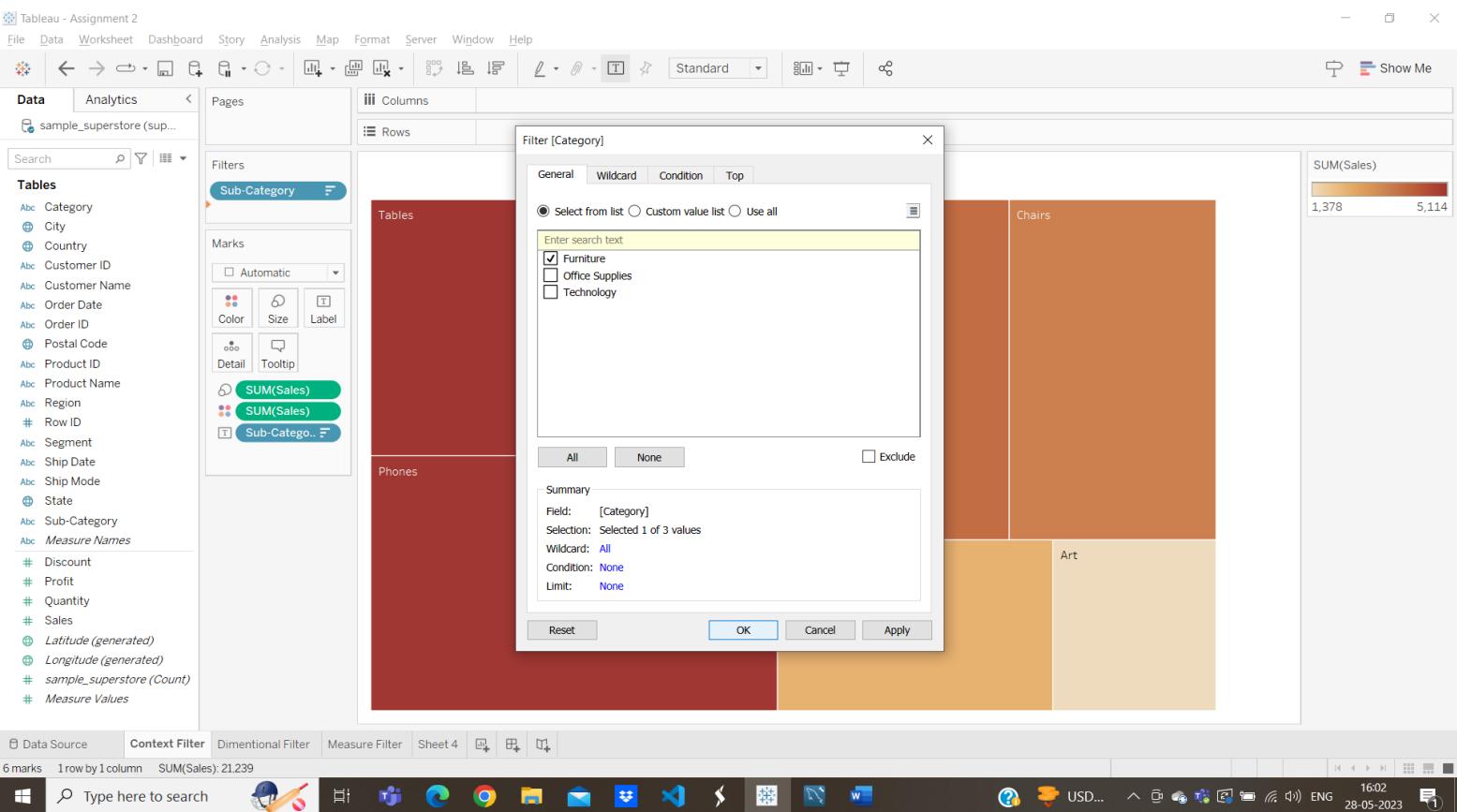


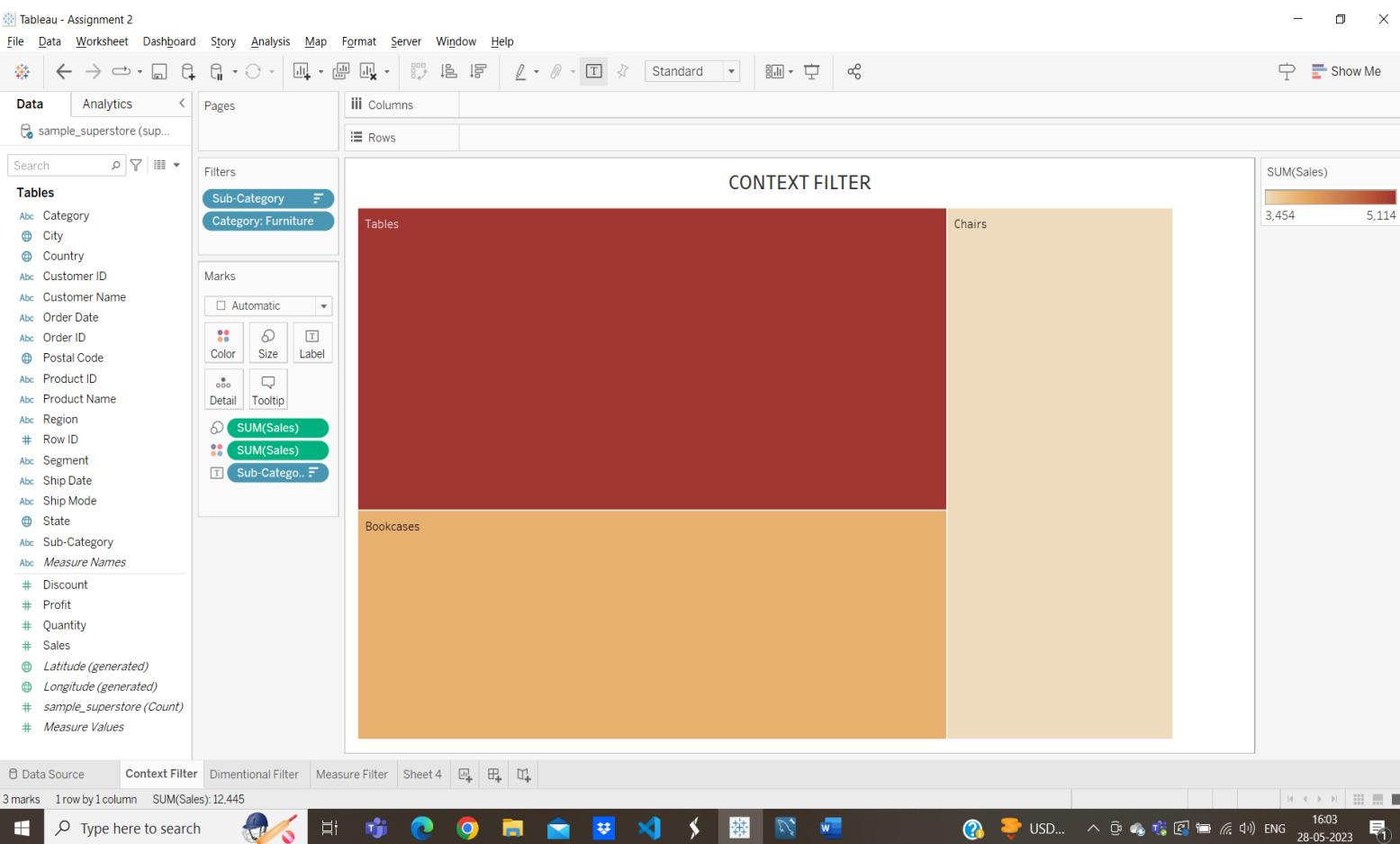
Applying the first filter as Top 6 On Sub – Category:



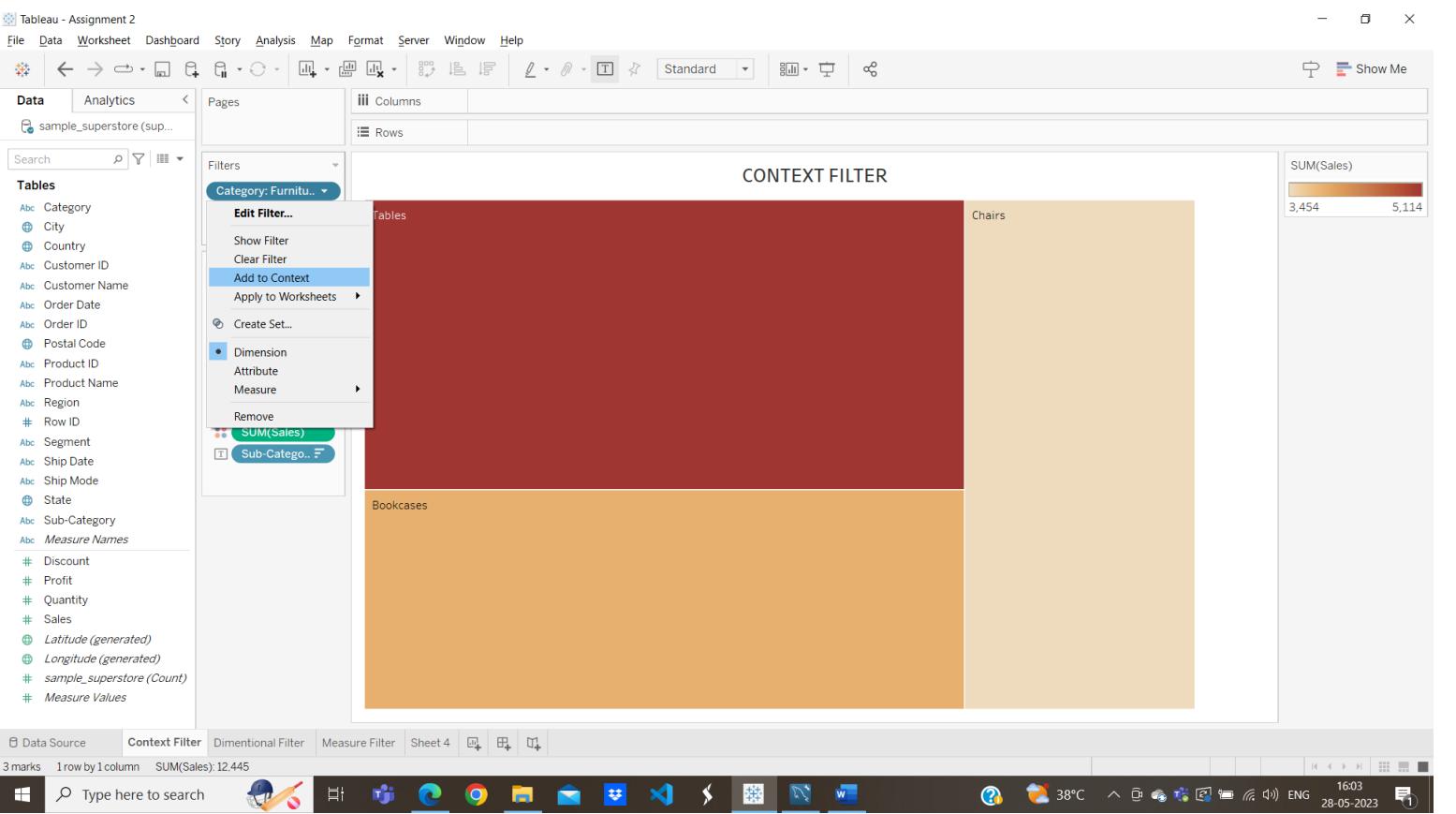


Adding another Filter for Category Furniture:

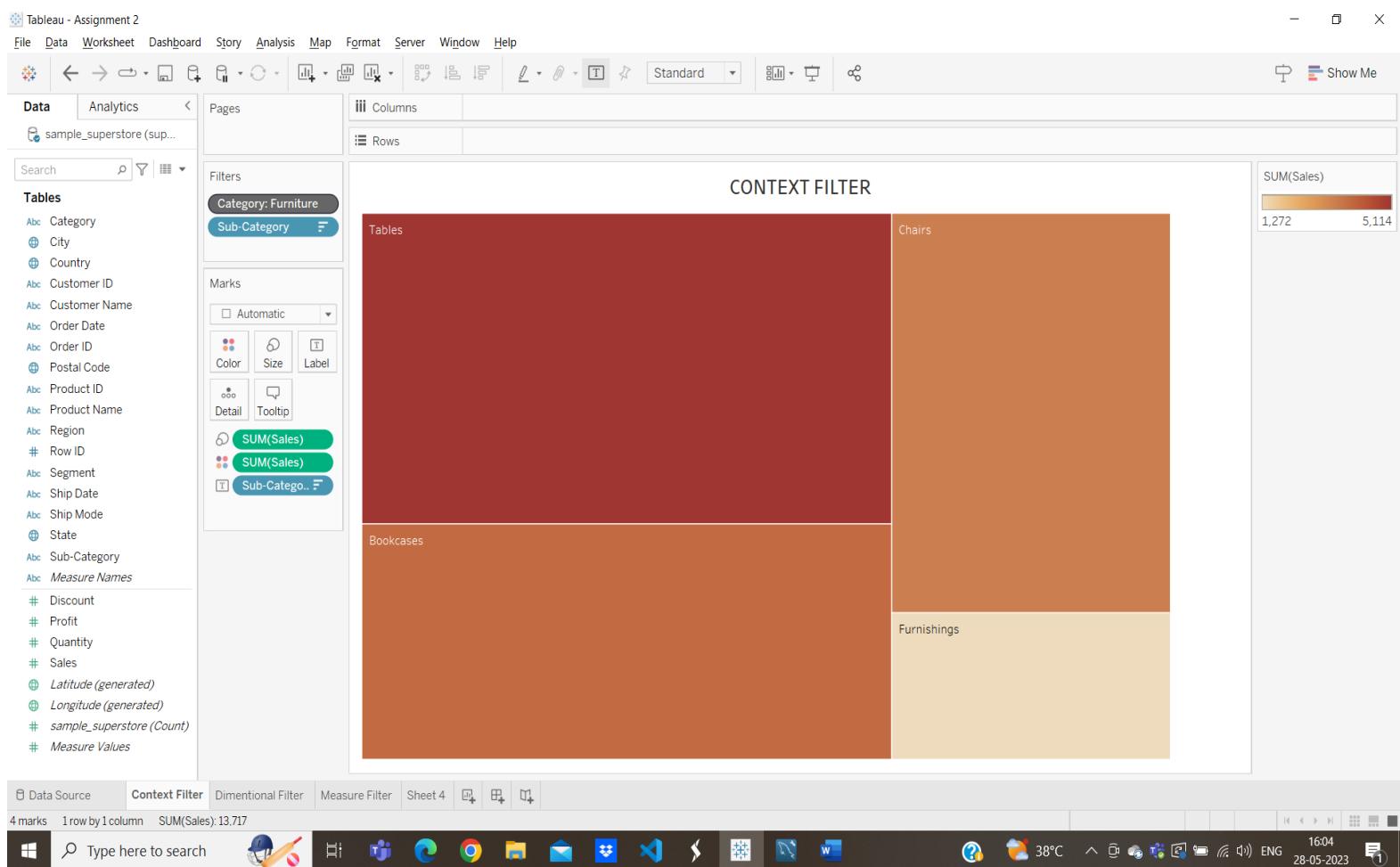




Adding Context Filter:

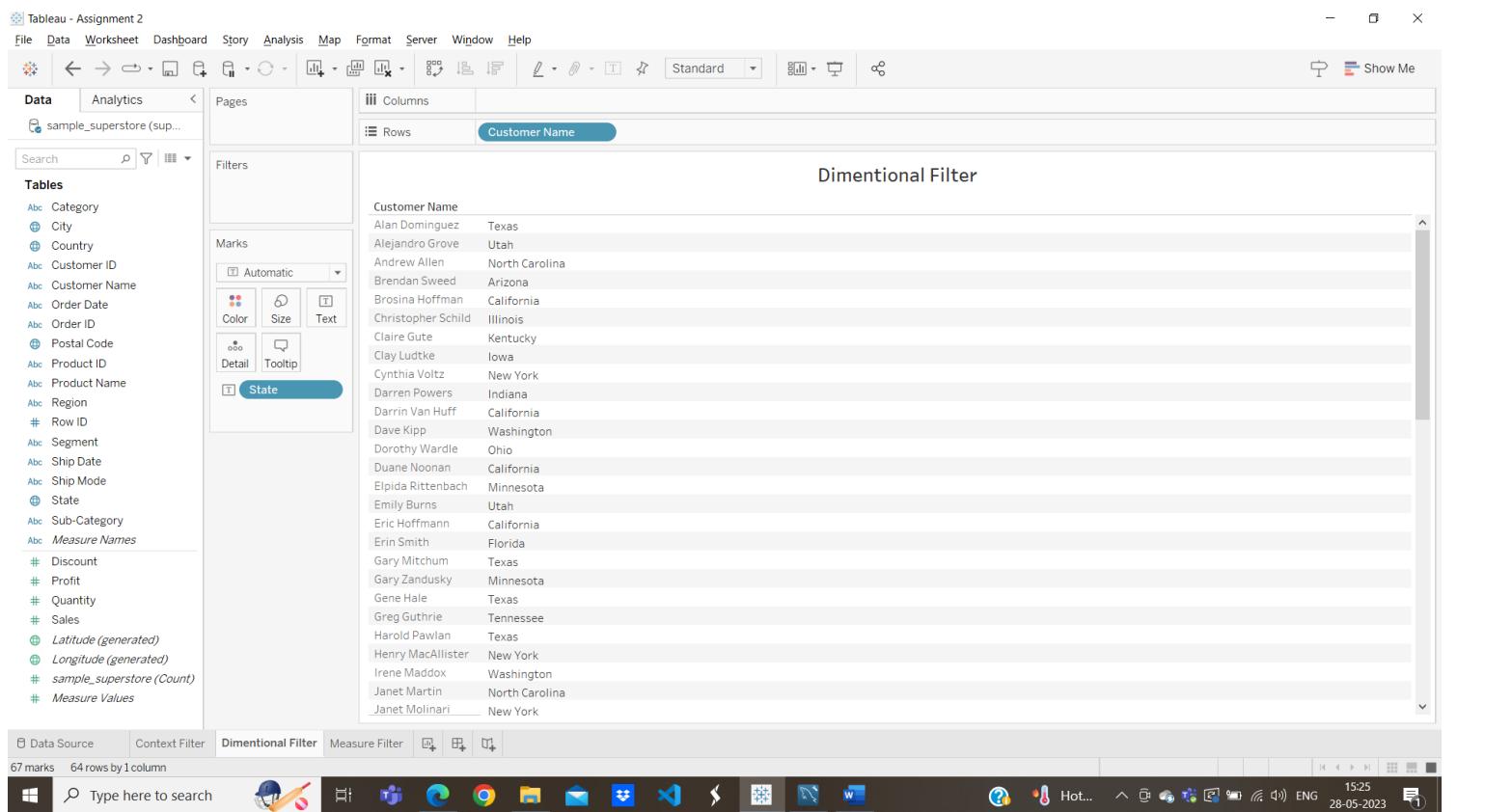


After Applying the Context Filter:



DIMENTIONAL FILTER:

Keeping Customer Name in Rows:



Applying the Dimension Filter to Customer Name by selecting only a few names:

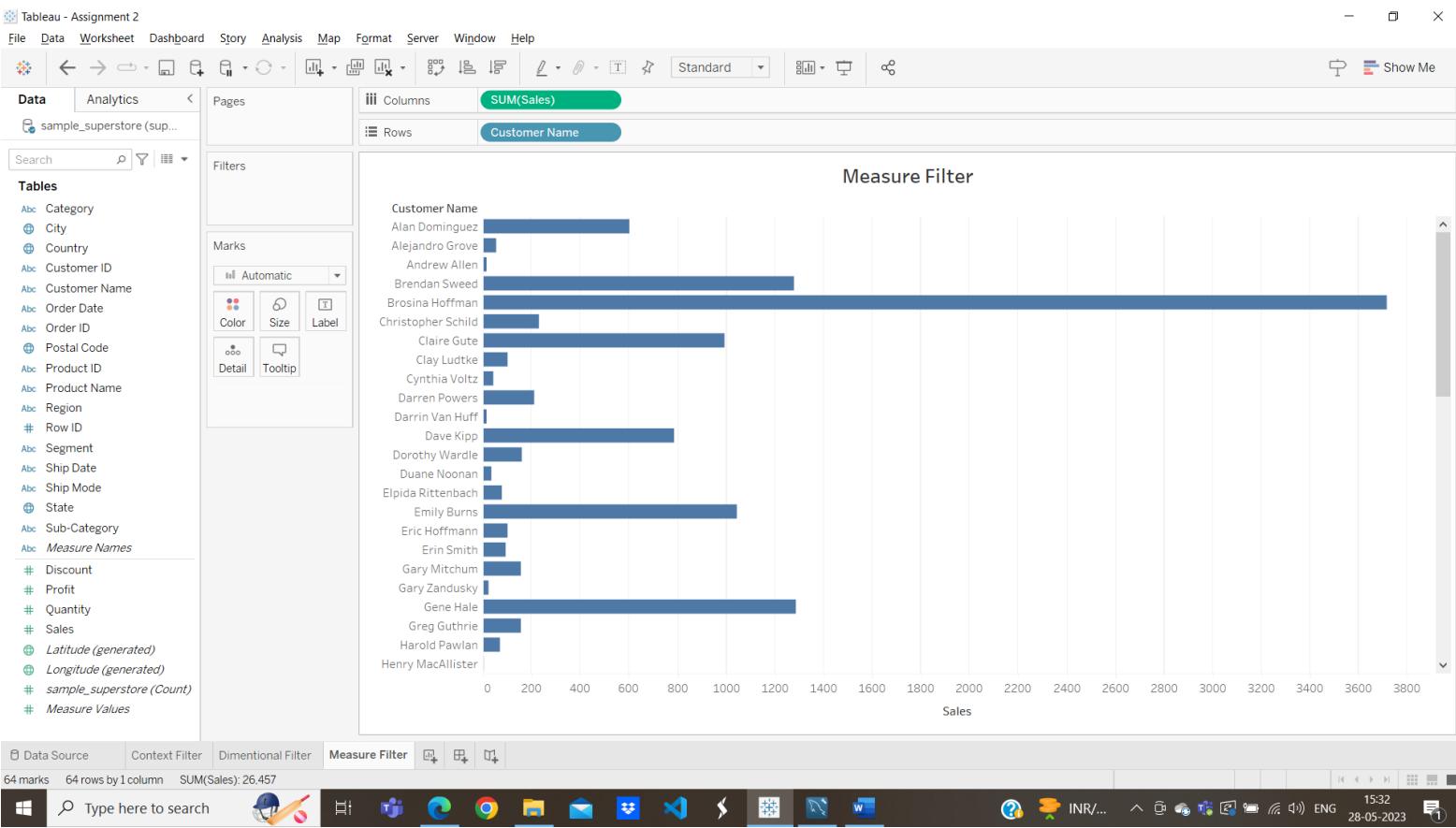
The screenshot shows the Tableau interface with the 'Customer Name' dimension selected in the Rows shelf. A context filter dialog is open, titled 'Filter [Customer Name]'. The 'General' tab is selected. Under 'Select from list', several customer names are listed with checkboxes, and some are checked (Brendan Sweet, Brosina Hoffman, Clay Ludtke, Cynthia Voltz, Darren Powers). Buttons for 'All', 'None', and 'Exclude' are present. Below the list is a 'Summary' section with fields like 'Field: [Customer Name]', 'Selection: Selected 6 of 64 values', 'Wildcard: All', 'Condition: None', and 'Limit: None'. At the bottom are 'Reset', 'OK', 'Cancel', and 'Apply' buttons.

After the Dimension Filter is applied:

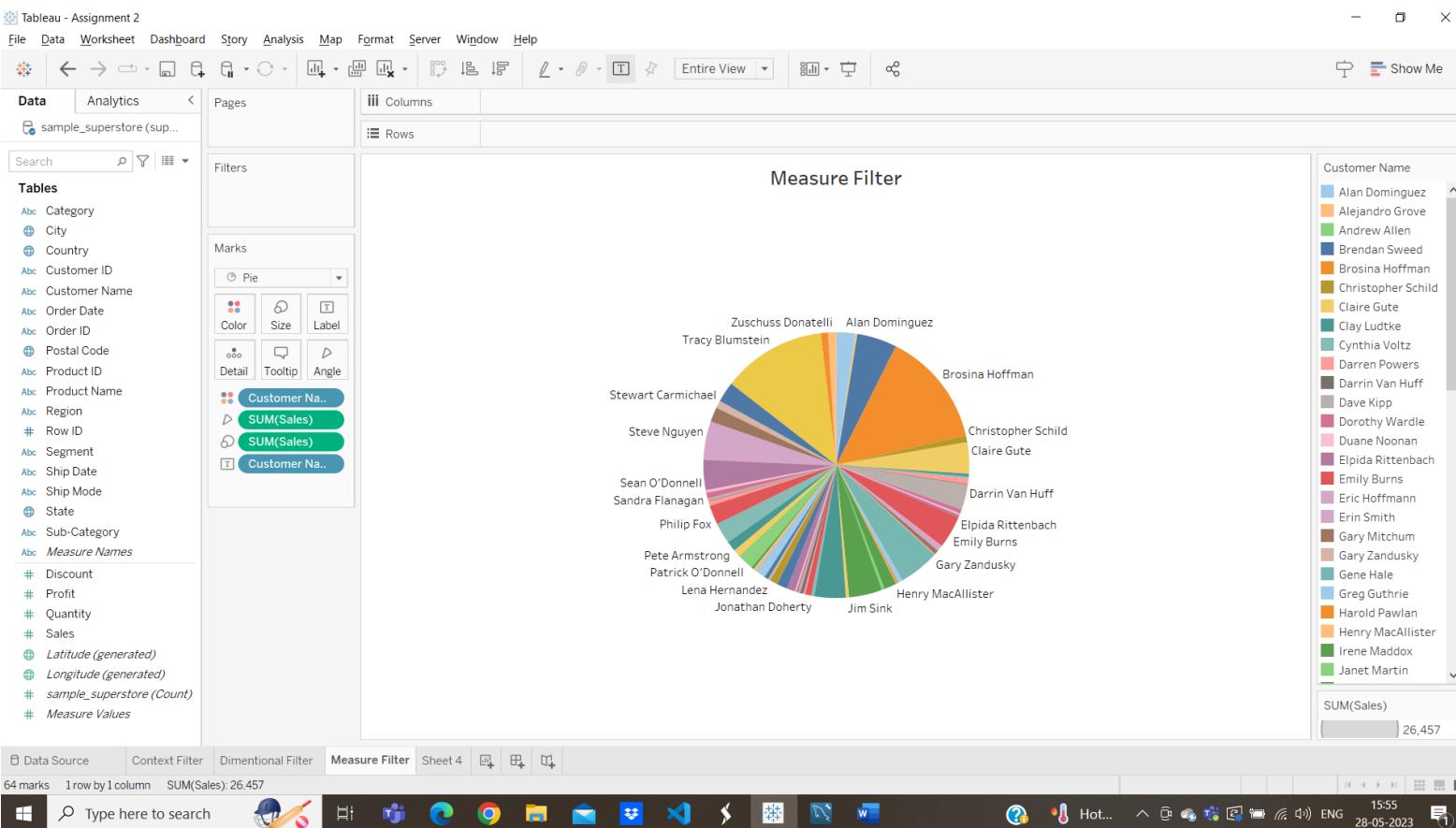
The screenshot shows the Tableau interface after applying the dimension filter. The 'Customer Name' dimension is still selected in the Rows shelf. The context filter dialog is now closed, and the main view displays a single row of data: 'Customer Name: Brendan Sweet, State: Arizona'. The status bar at the bottom indicates '6 marks 6 rows by 1 column'.

MEASURE FILTER:

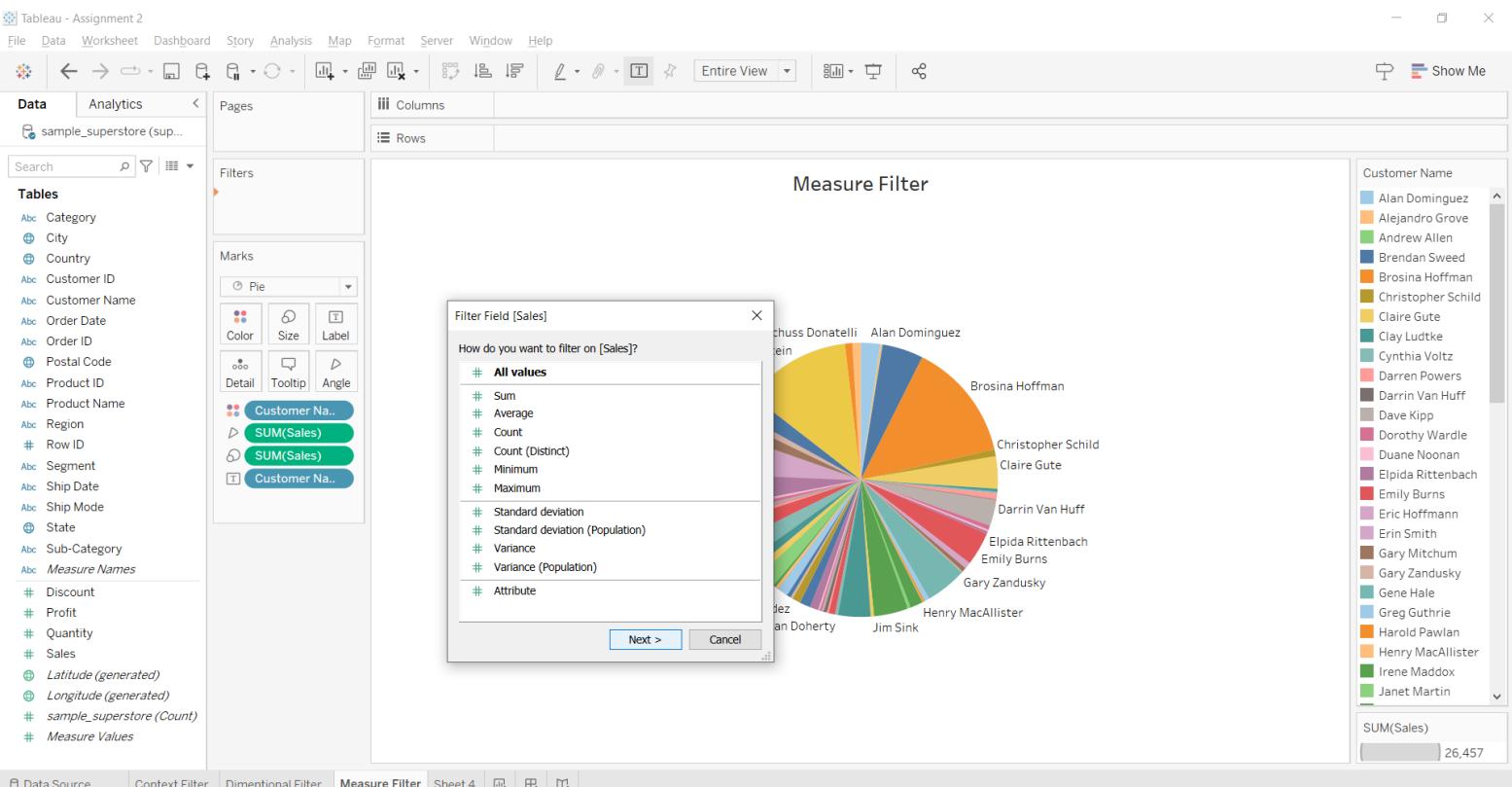
Taking the Sales as Column and Customer Name as Row



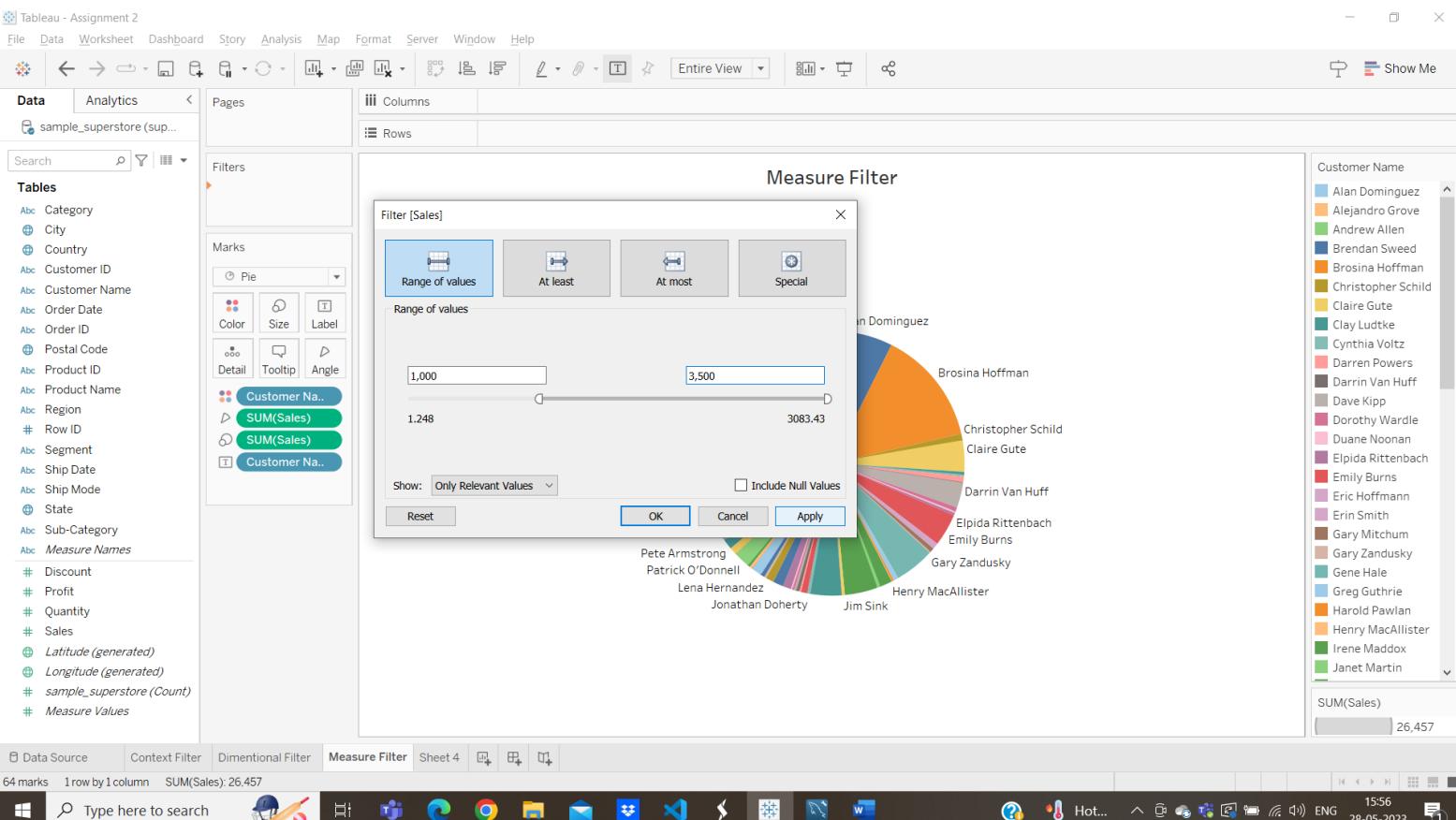
Visualizing it in PIE CHART:



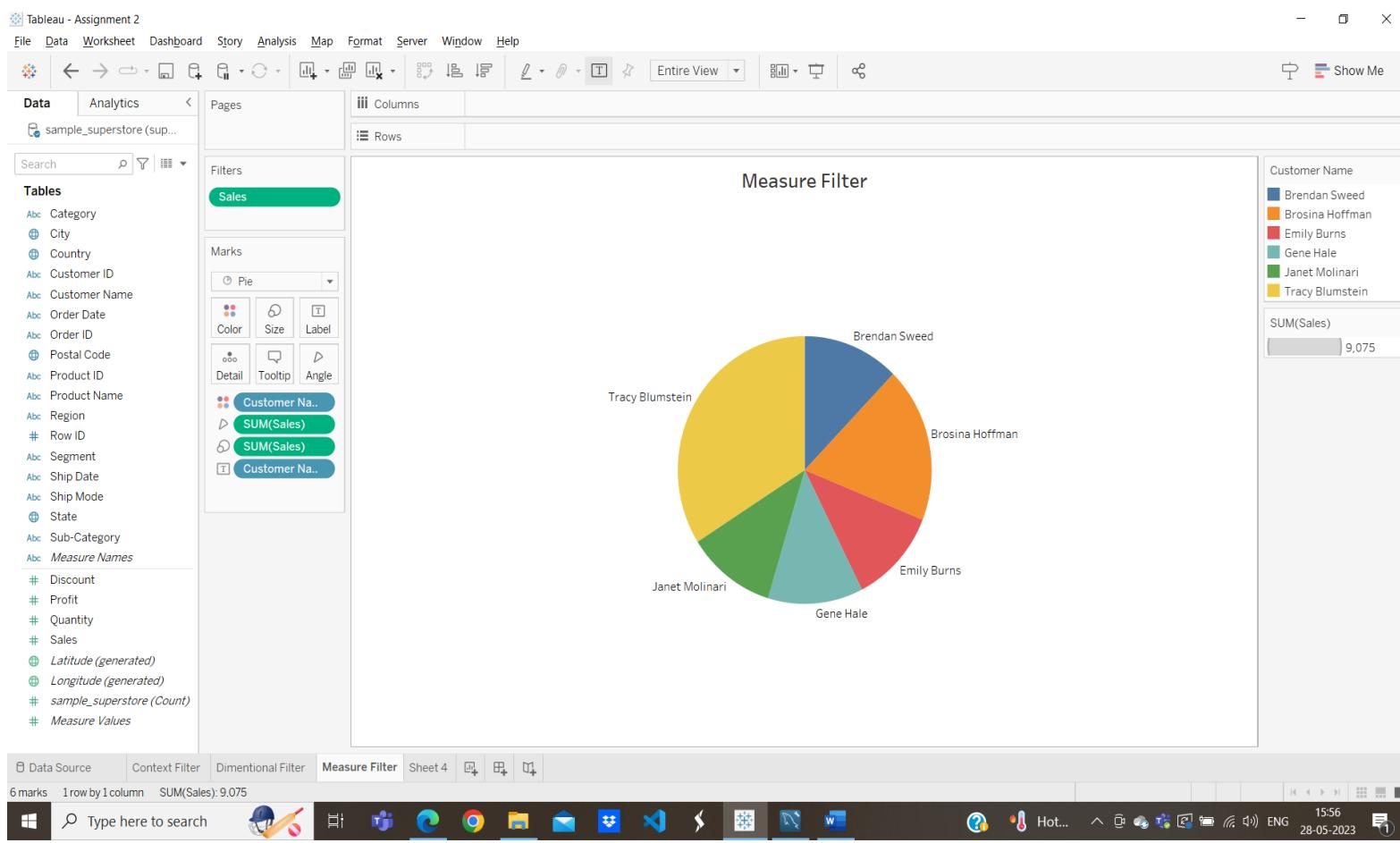
Now we add filter the measure of sum(sales):



Now we apply filter to Range(1000 – 3500) :



After Applying Measure Filter:



3) Perform the following data manipulations on your dataset

Note : Use 'superstore-sales' dataset

- create a Hierarchy

Creating a Hierarchy: Drag Order Name on Order ID to create A hierarchy we similarly add both Product ID and Product Name to the same hierarchy. So now we have ORDER ID, ORDER NAME, PRODUCT ID AND PRODUCT NAME as a single Hierarchy.

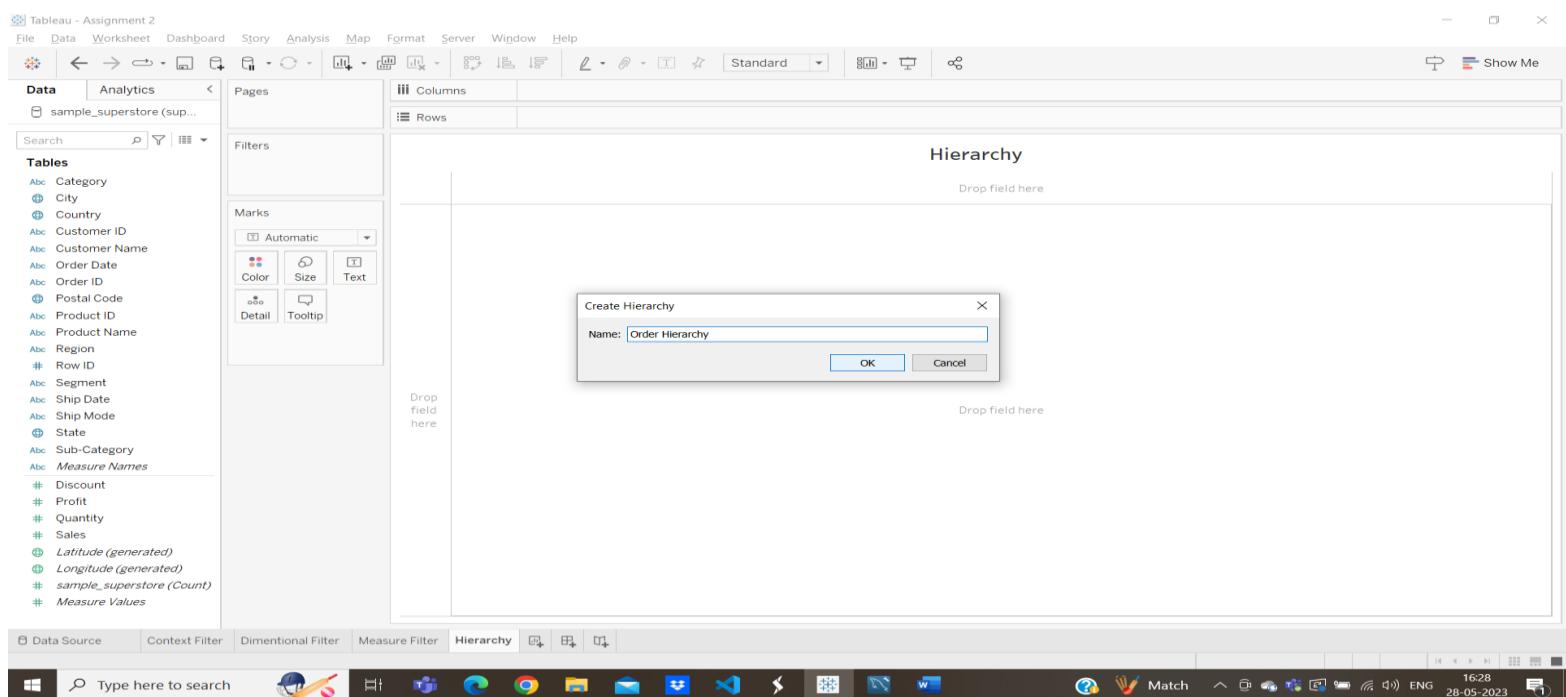


Tableau - Assignment 2

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics < Pages Columns Rows

sample_superstore (sup...)

Search

Tables

- Abc Category
- City
- Country
- Abc Customer ID
- Abc Customer Name
- Order Hierarchy**
 - Abc Order ID
 - Abc Order Date
 - Abc Product ID
 - Abc Product Name
- Postal Code
- Region
- # Row ID
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Abc Measure Names
- # Discount
- # Profit
- # Quantity
- # Sales
- # Latitude (generated)
- # Longitude (generated)
- # sample_superstore (Count)
- # Measure Values

Marks

Automatic

Color Size Text

Detail Tooltip

Hierarchy

Drop field here

Drop field here

Drop field here

Data Source Context Filter Dimensional Filter Measure Filter Hierarchy

We name the Hierarchy as Order Hierarchy and then drag it to the Rows. Now put Profit to the Columns.

Tableau - Assignment 2

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics < Pages Columns SUM(Profit)

sample_superstore (sup...)

Rows Order ID

Filters

Hierarchy

Order ID

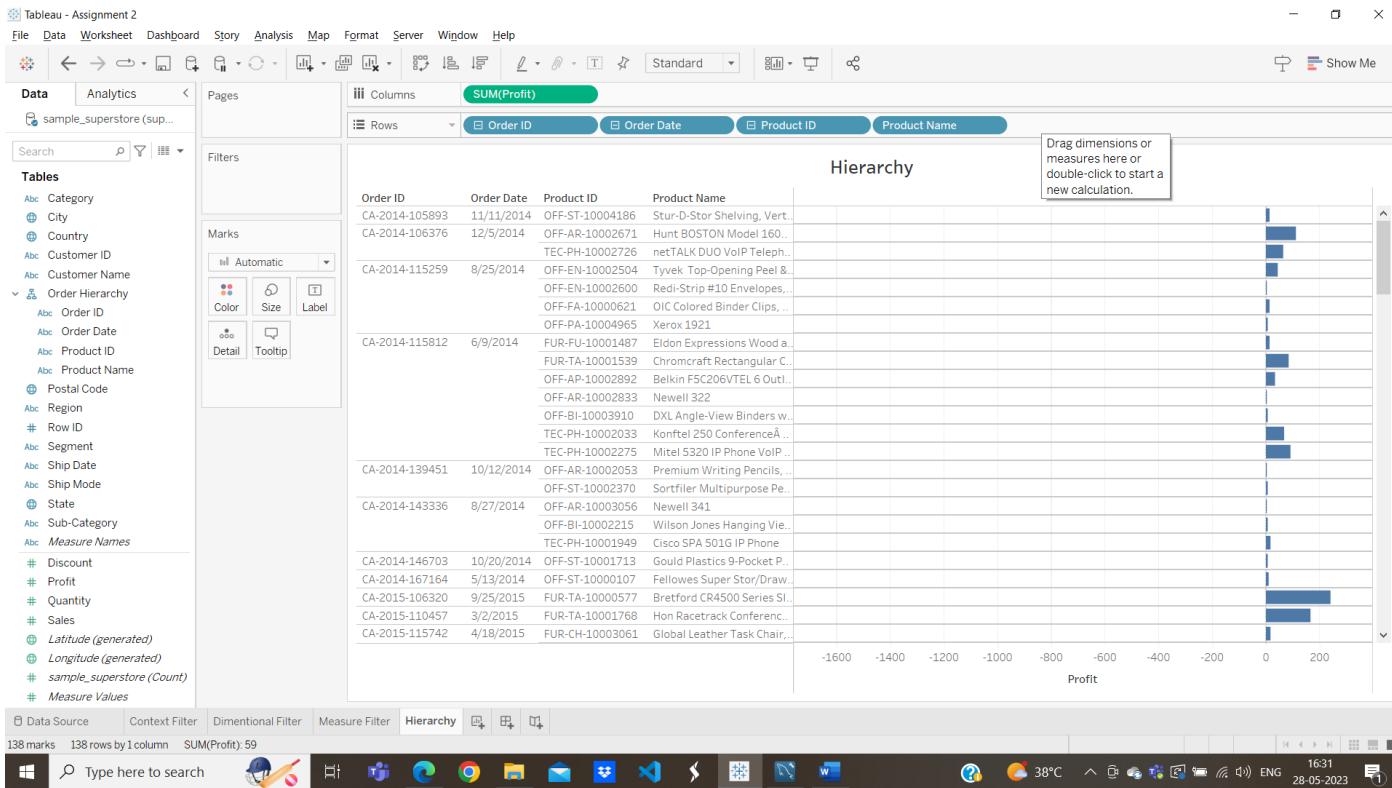
- CA-2014-105893
- CA-2014-106376
- CA-2014-115259
- CA-2014-115812
- CA-2014-139451
- CA-2014-143336
- CA-2014-146703
- CA-2014-167164
- CA-2015-106320
- CA-2015-110457
- CA-2015-115742
- CA-2015-117415
- CA-2015-129476
- CA-2015-135545
- CA-2015-149587
- CA-2015-149734
- CA-2016-101343
- CA-2016-103730
- CA-2016-105816
- CA-2016-106075
- CA-2016-109806
- CA-2016-110366
- CA-2016-111682
- CA-2016-117590

Profit

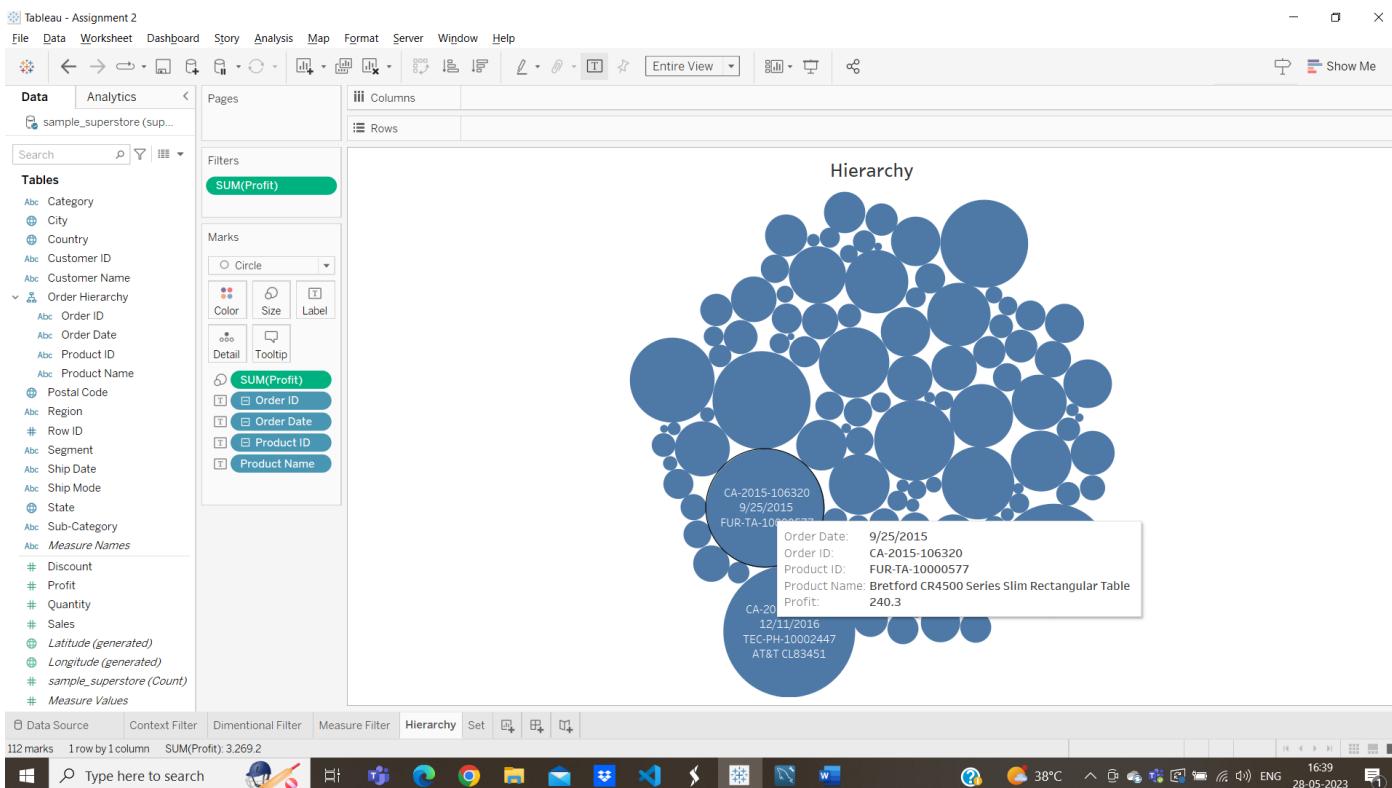
Data Source Context Filter Dimensional Filter Measure Filter Hierarchy

67 marks 67 rows by 1 column SUM(Profit): 59

We can even get a more detail view using hierarchy by clicking the plus symbol on the hierarchy to view more details.



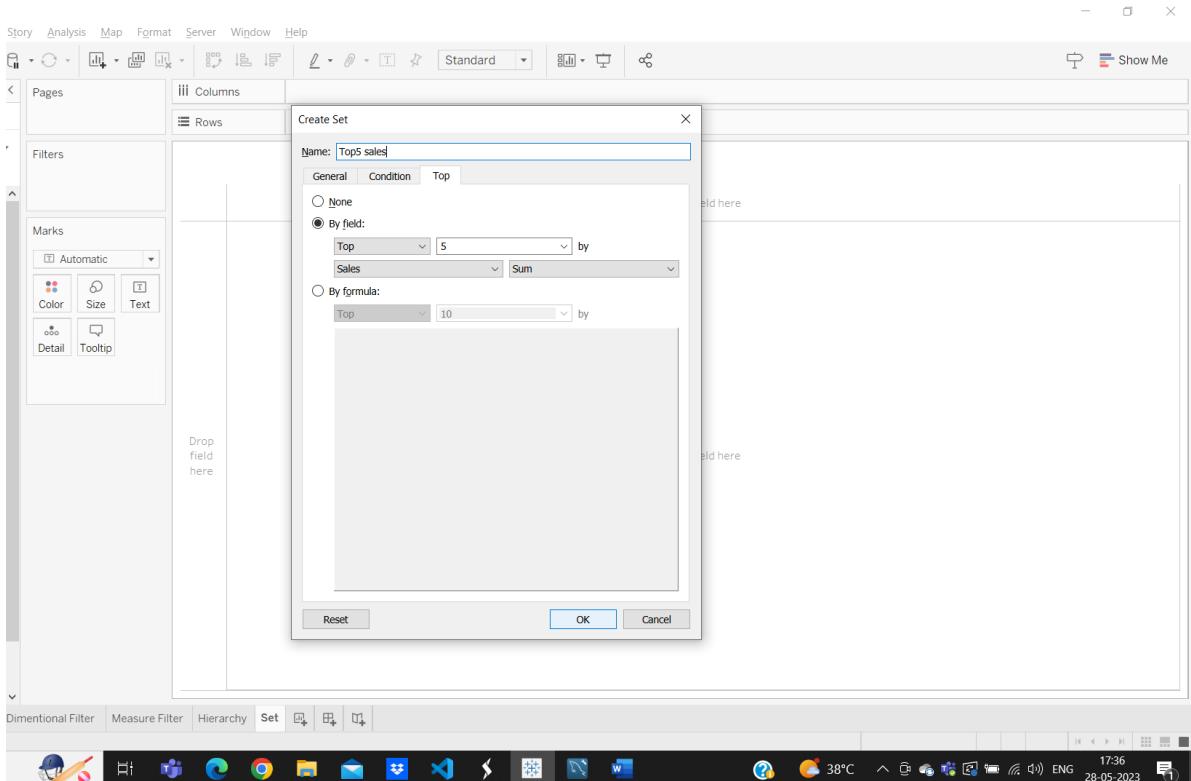
We can view it using Bubble chart also:



- create a set

DYNAMIC SET:

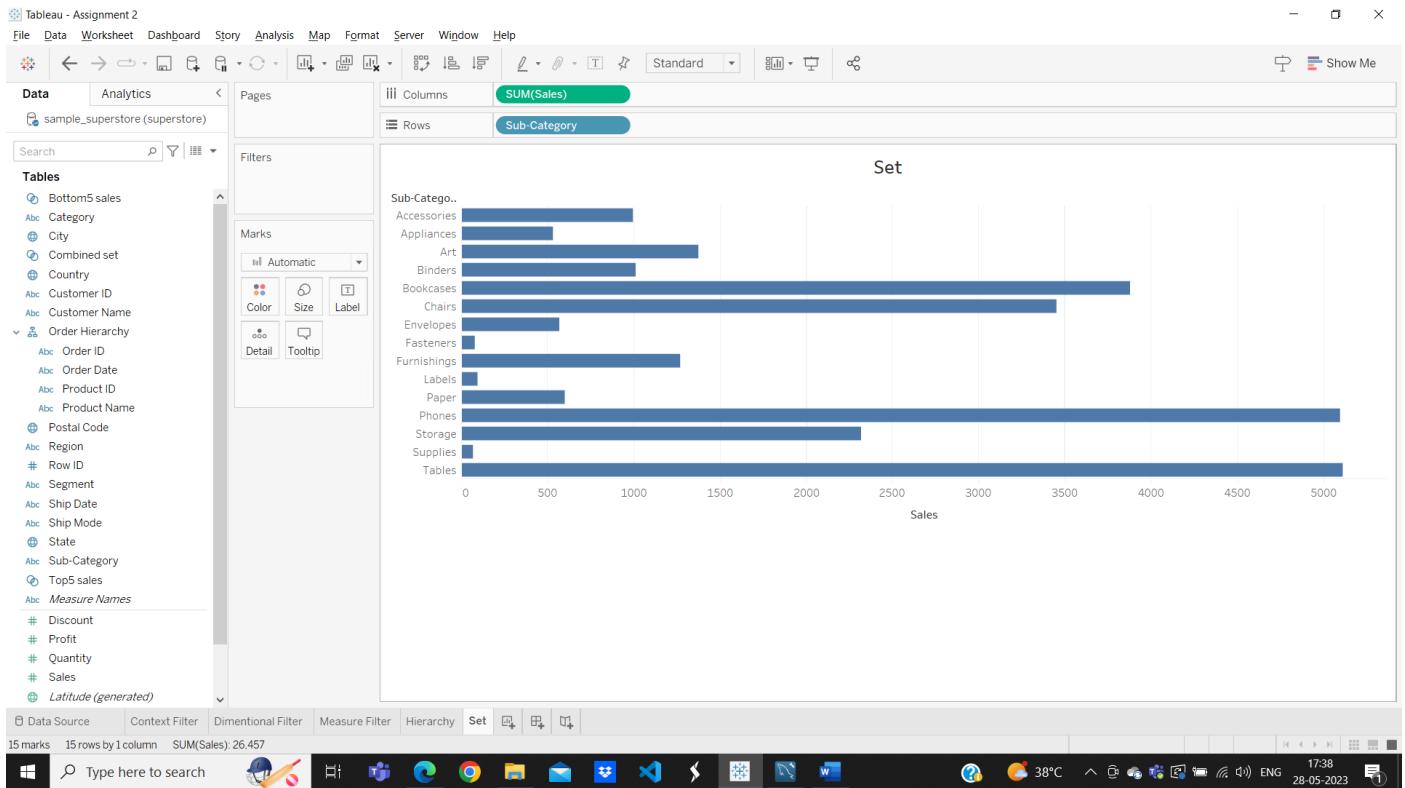
To create set we choose Sub category and the create set option to create set



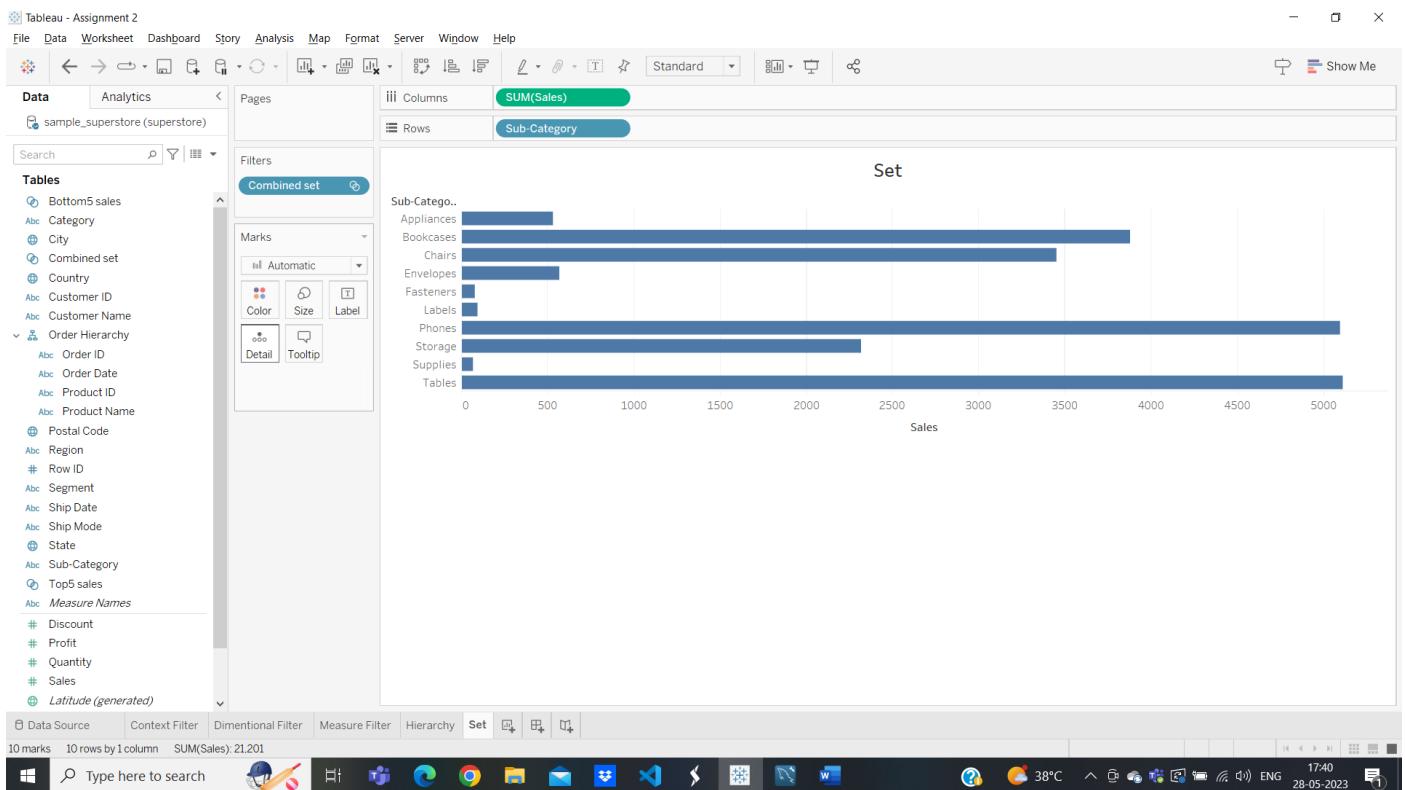
We create 2 sets one is top 5 sales and another bottom 5 sales.

We combine both sets as Combined set.

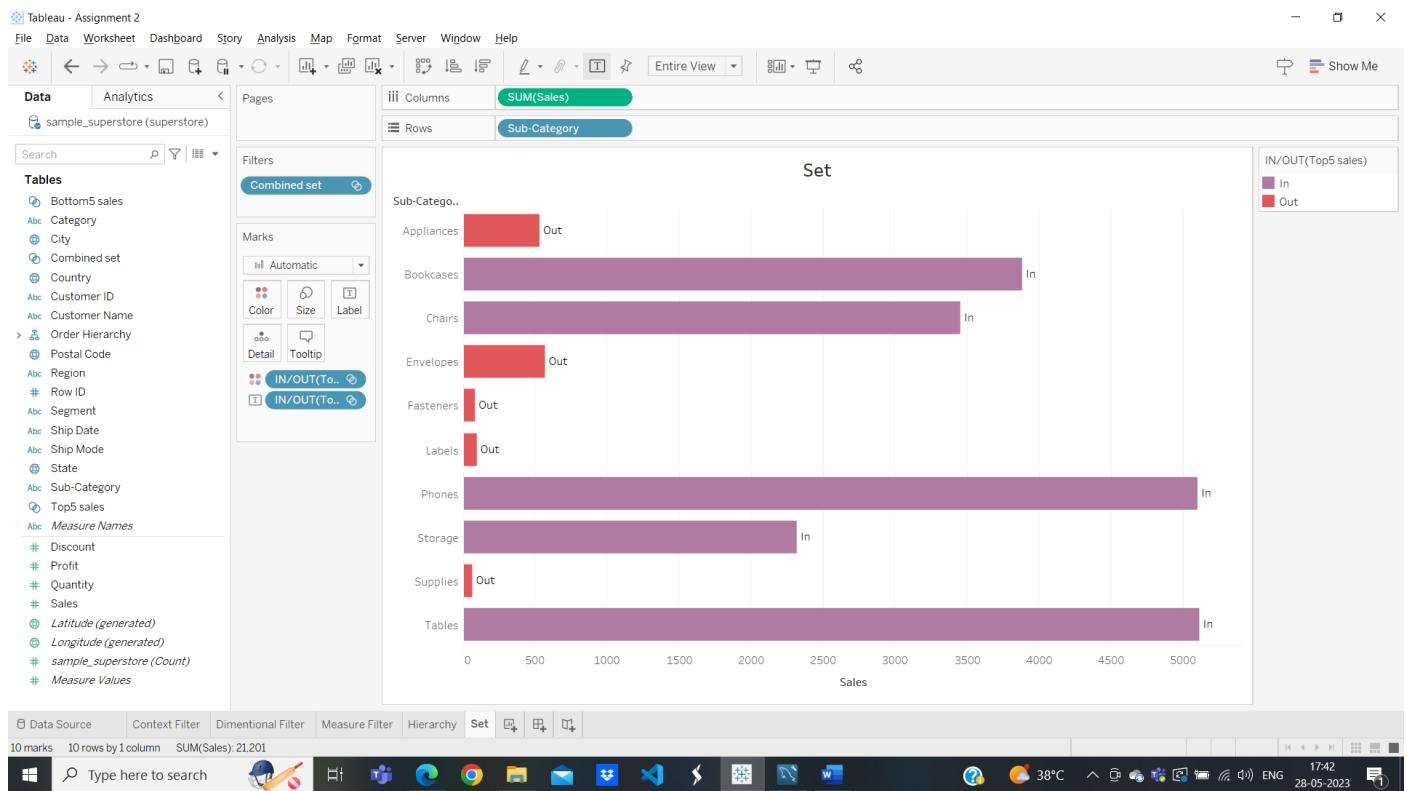
Now create plot by putting Sub category in rows and sales in columns



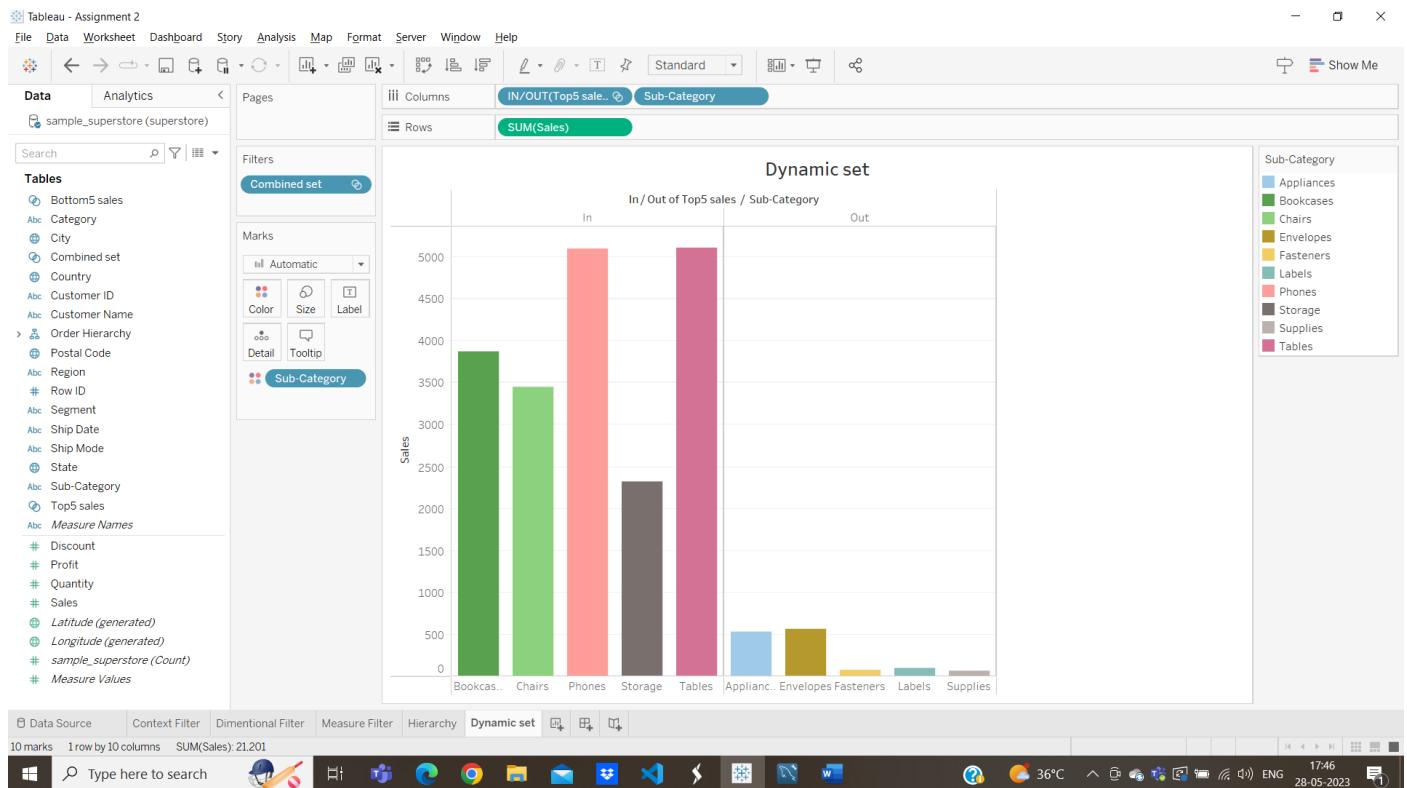
After this we put combined set in filters which filters out



After this we put top 5 in colors and text

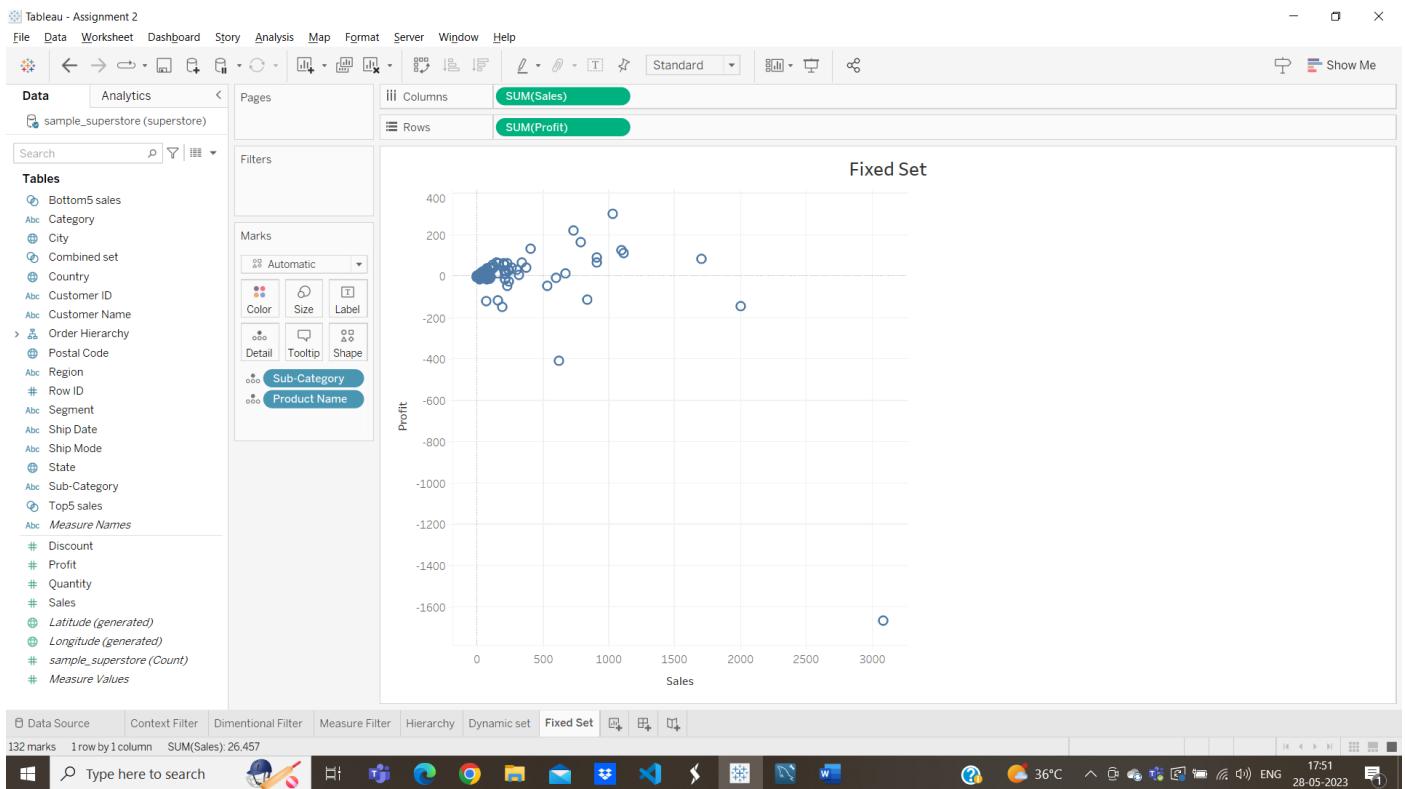


We can also analyse it using side by side bar charts

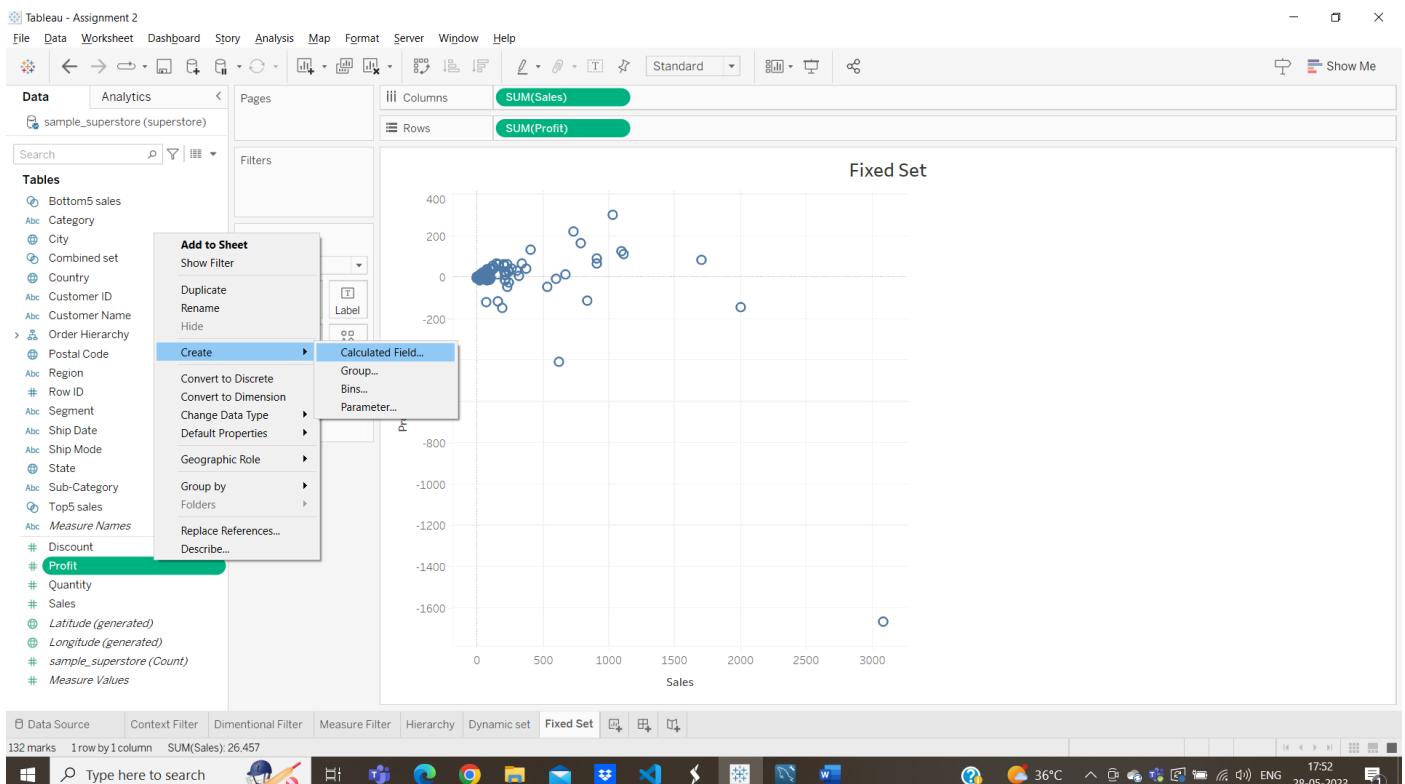


FIXED SET:

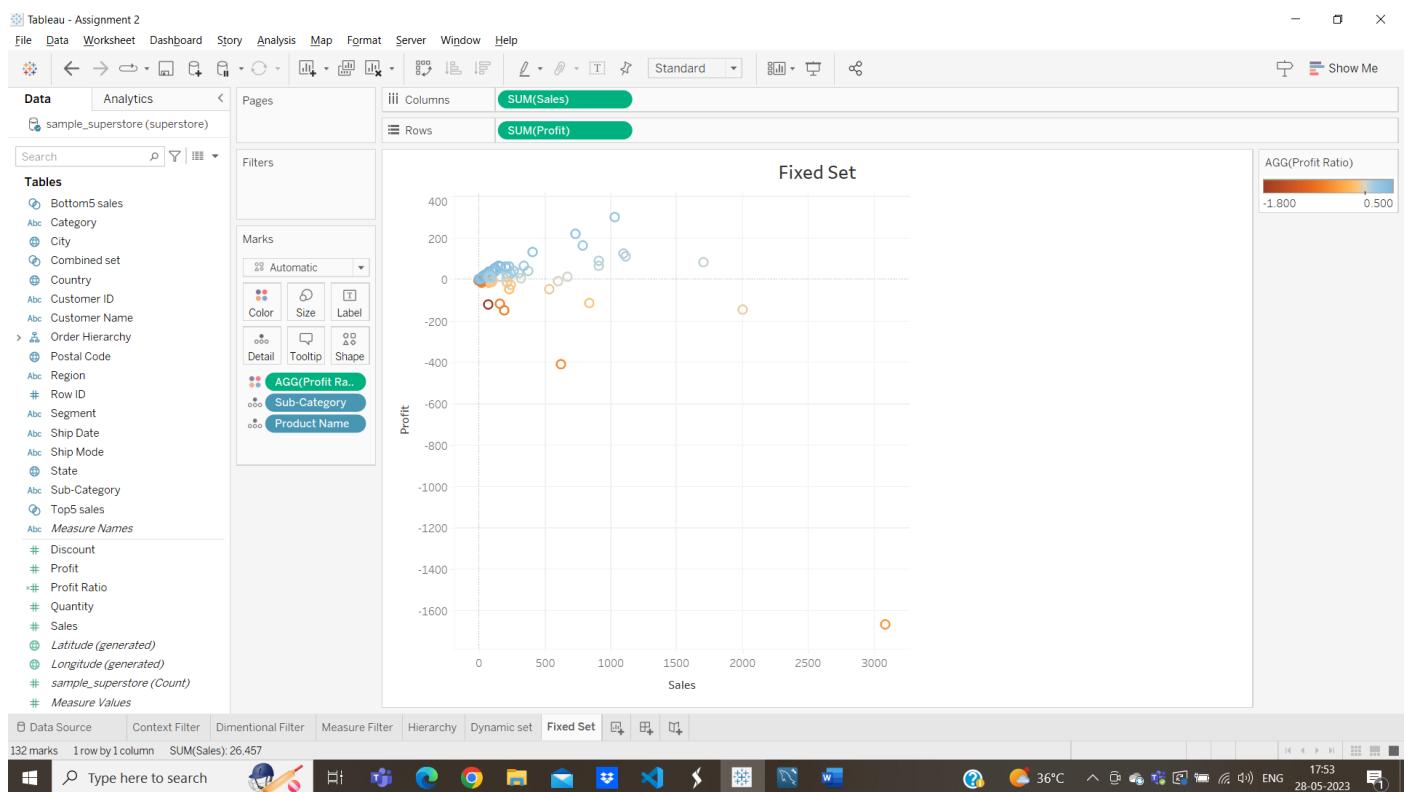
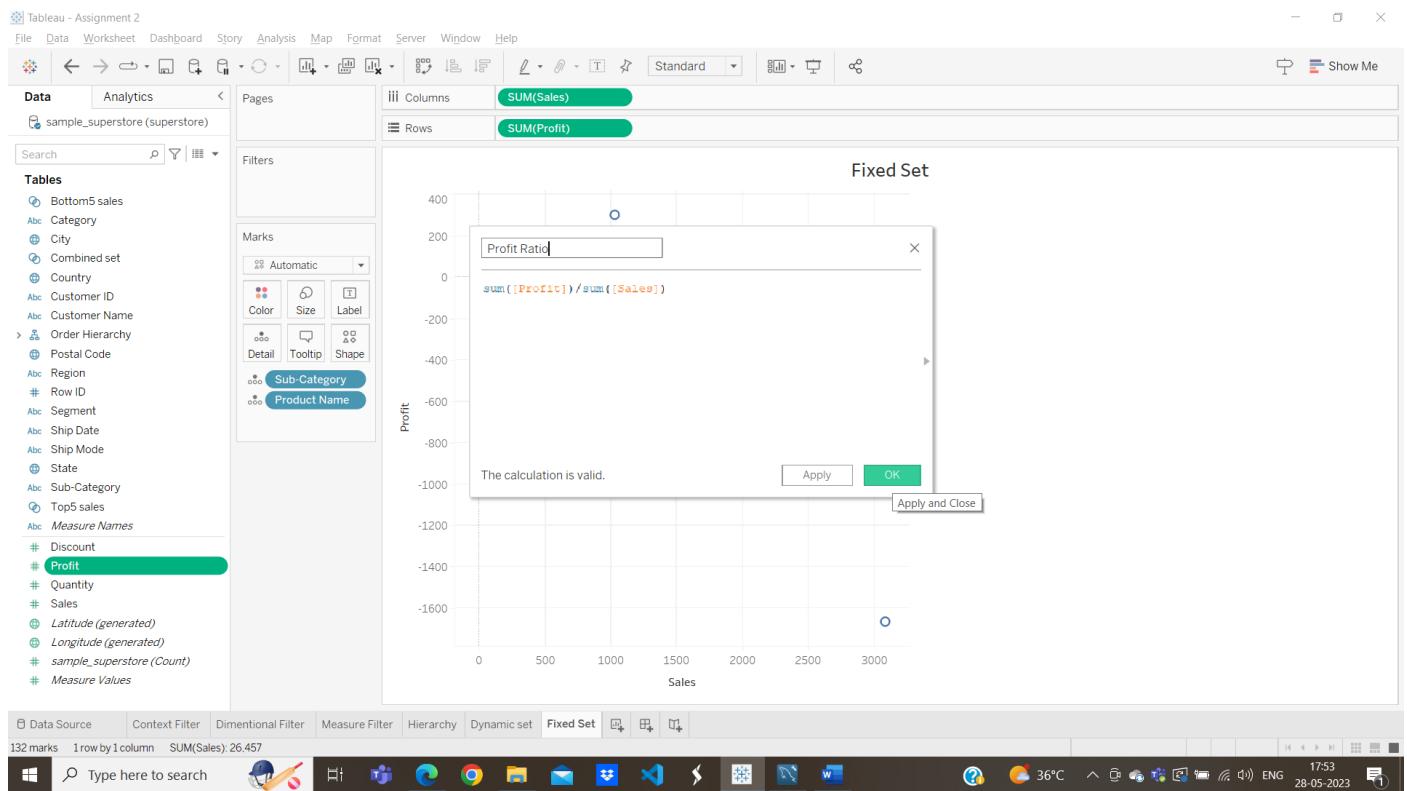
We take Sales and Profit as Columns and Row respectively and put sub category and Product name in detail. We here use SCATTER PLOT



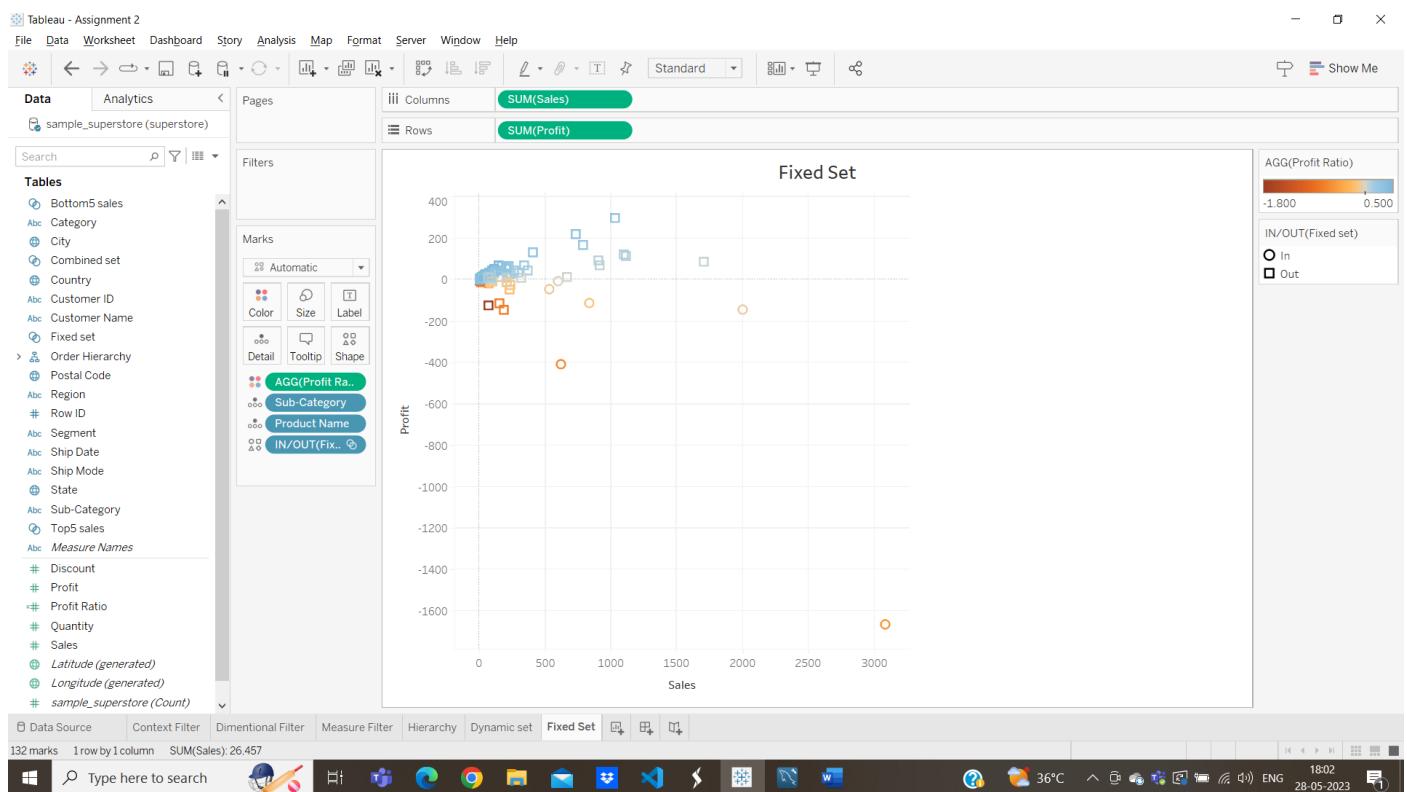
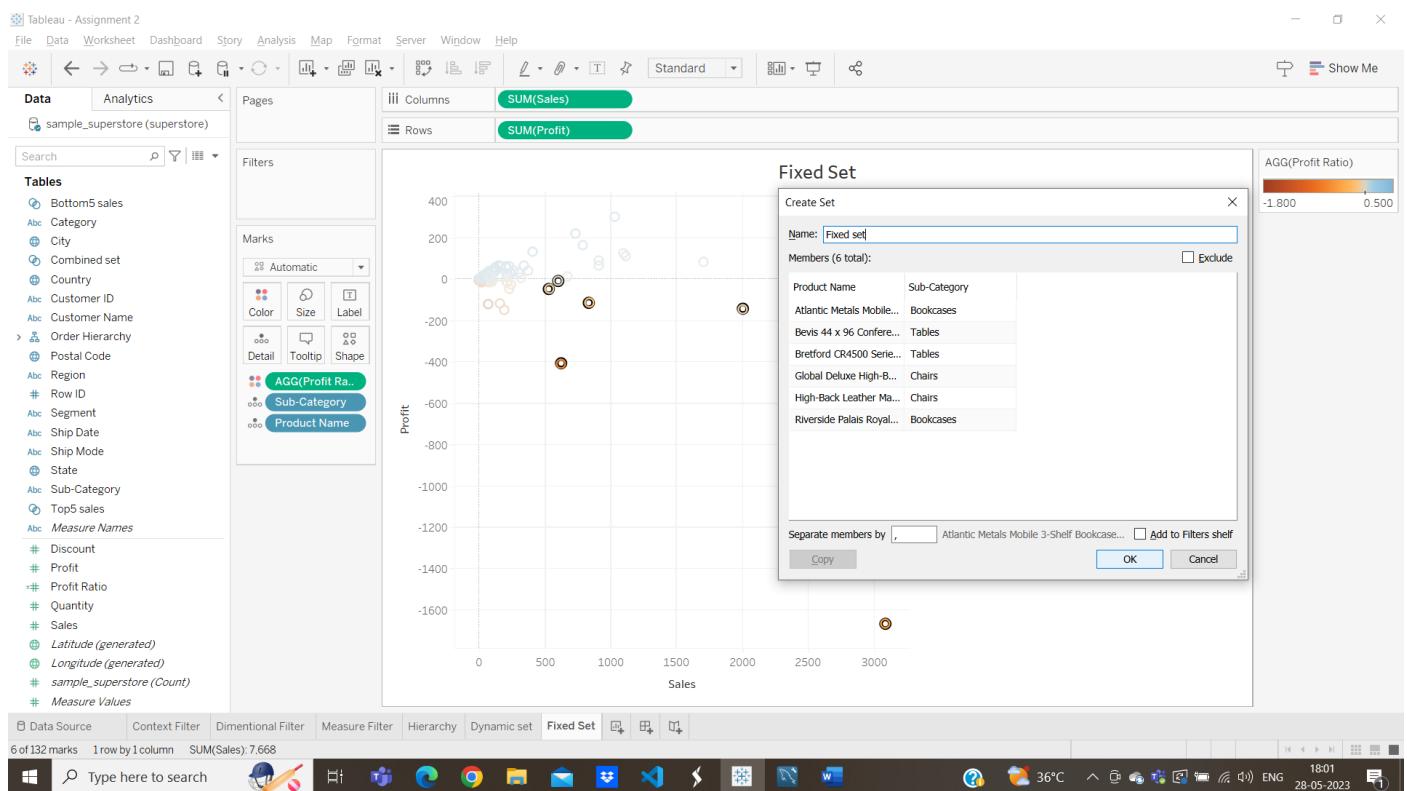
Now we create a calculated field



Now we do Profit ratio and put it in color:



FIXED SET:



● create a group

The screenshot shows the Tableau Data Editor interface. On the left, the 'Tables' pane lists various dimensions and measures. In the center, a 'Group' panel is open with a sub-menu for 'Create' (Calculated Field..., Group..., Set..., Parameter...). The 'Group...' option is highlighted. The bottom of the screen shows the Windows taskbar with the date and time.

For example we take 2 groups one is names abc and other abs and the rest of the members are others.

The screenshot shows a bar chart with 'Sub-Category' on the columns shelf and 'SUM(Sales)' on the rows shelf. A 'Group' dialog box is open, titled 'Edit Group [Sub_Category_group]'. It shows a tree view of categories: 'abc' (Appliances, Art, Envelopes), 'abs' (Binders, Bookcases, Chairs), and 'Other' (Accessories, Fasteners). The 'Other' category is selected. The dialog includes buttons for 'Group', 'Rename', 'Ungroup', 'OK', 'Cancel', and 'Apply'. The background bar chart shows sales for various sub-categories like Accesor., Applianc., Art, Binders, Bookcas., Chairs, Envelopes, Furnishi., Labels, Paper, Phones, Storage, Supplies, and Tables.

We now put sub category group in colors and the different groups are highlighted in different colors.

