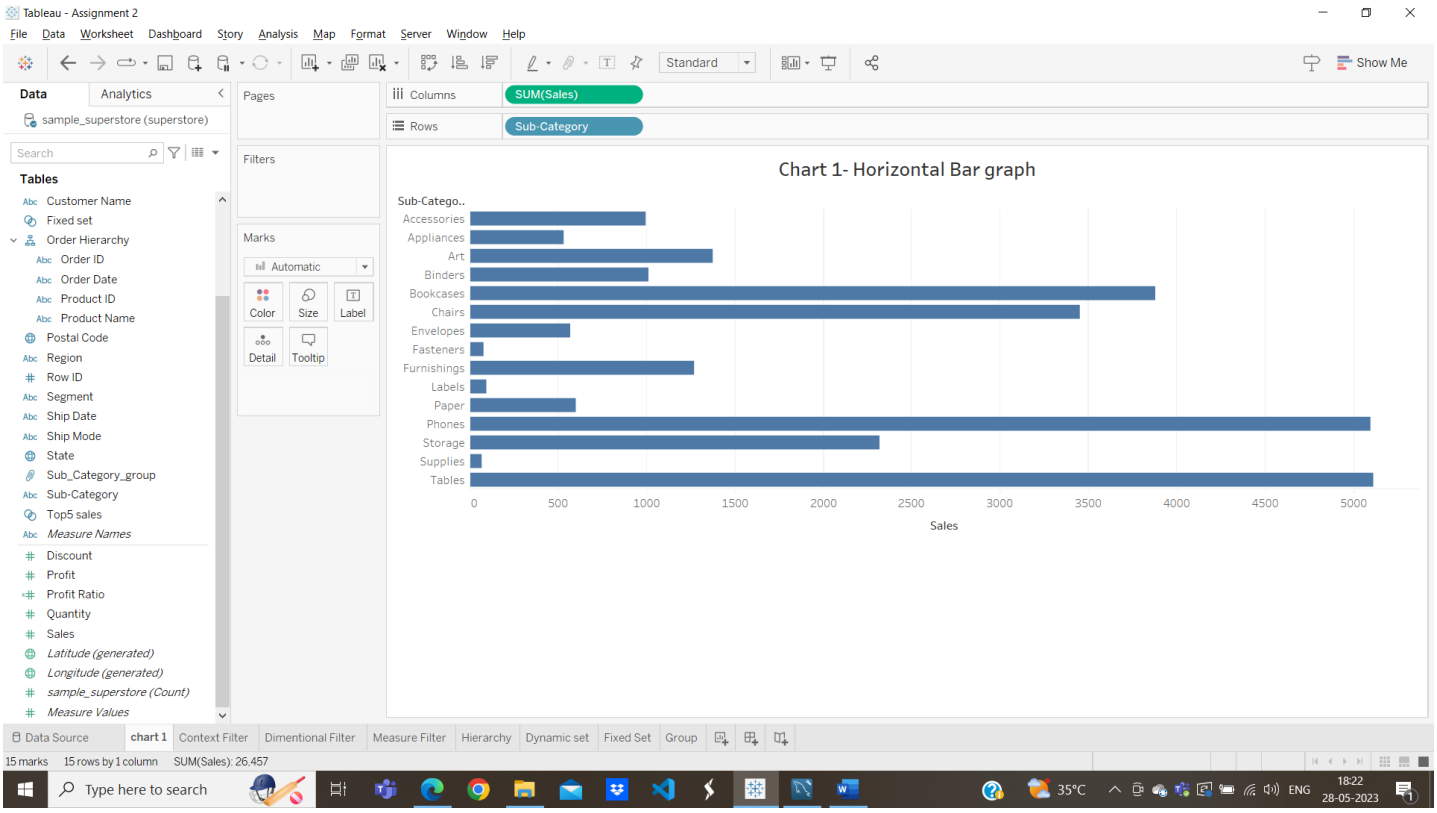
HARSHITHA. R

DATA ANALYTICS EXTERNSHIP- ASSIGNMENT 2

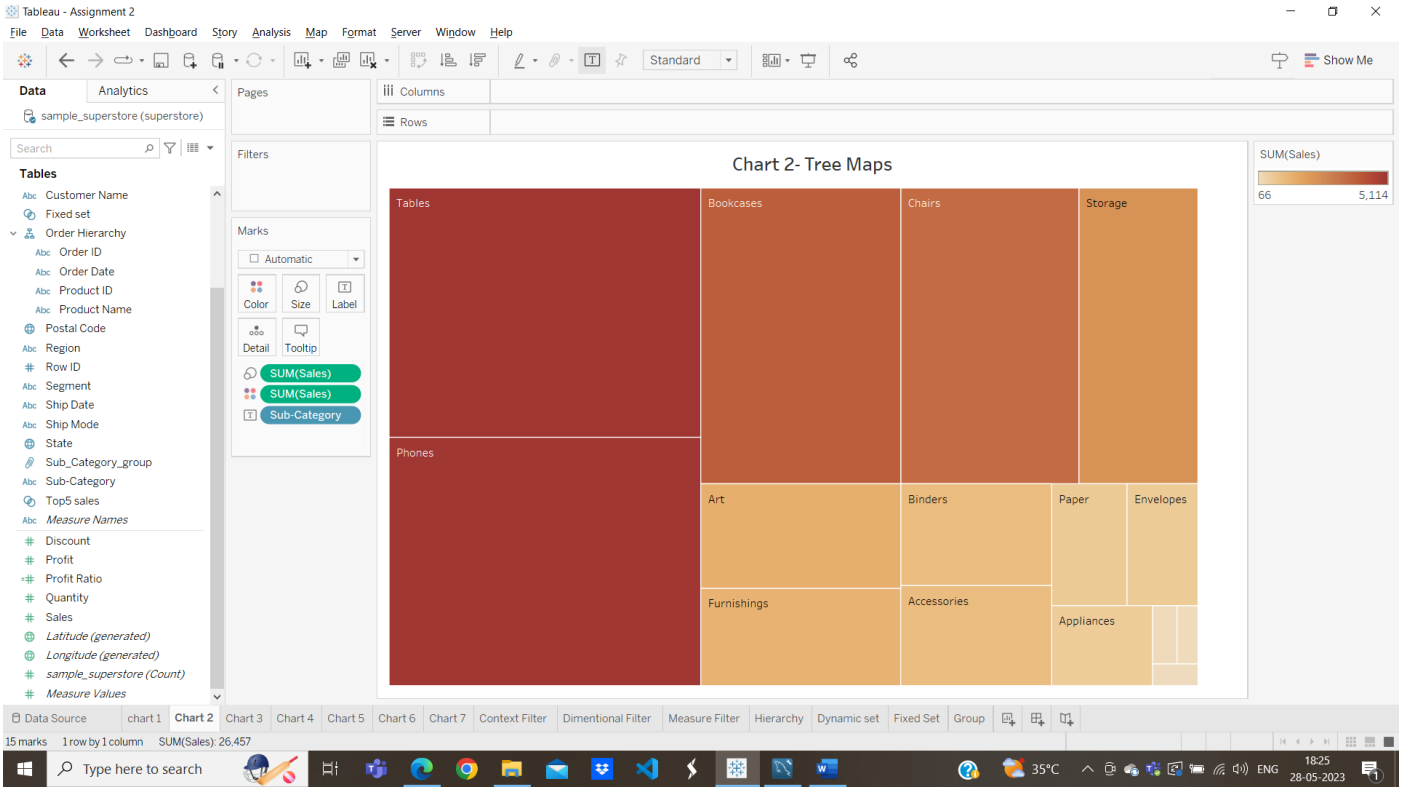
G-DRIVE LINK-
https://drive.google.com/drive/folders/1pATdEwtYNdXyMNlPRN0g5i_69YDTaTxx?usp=share_link

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

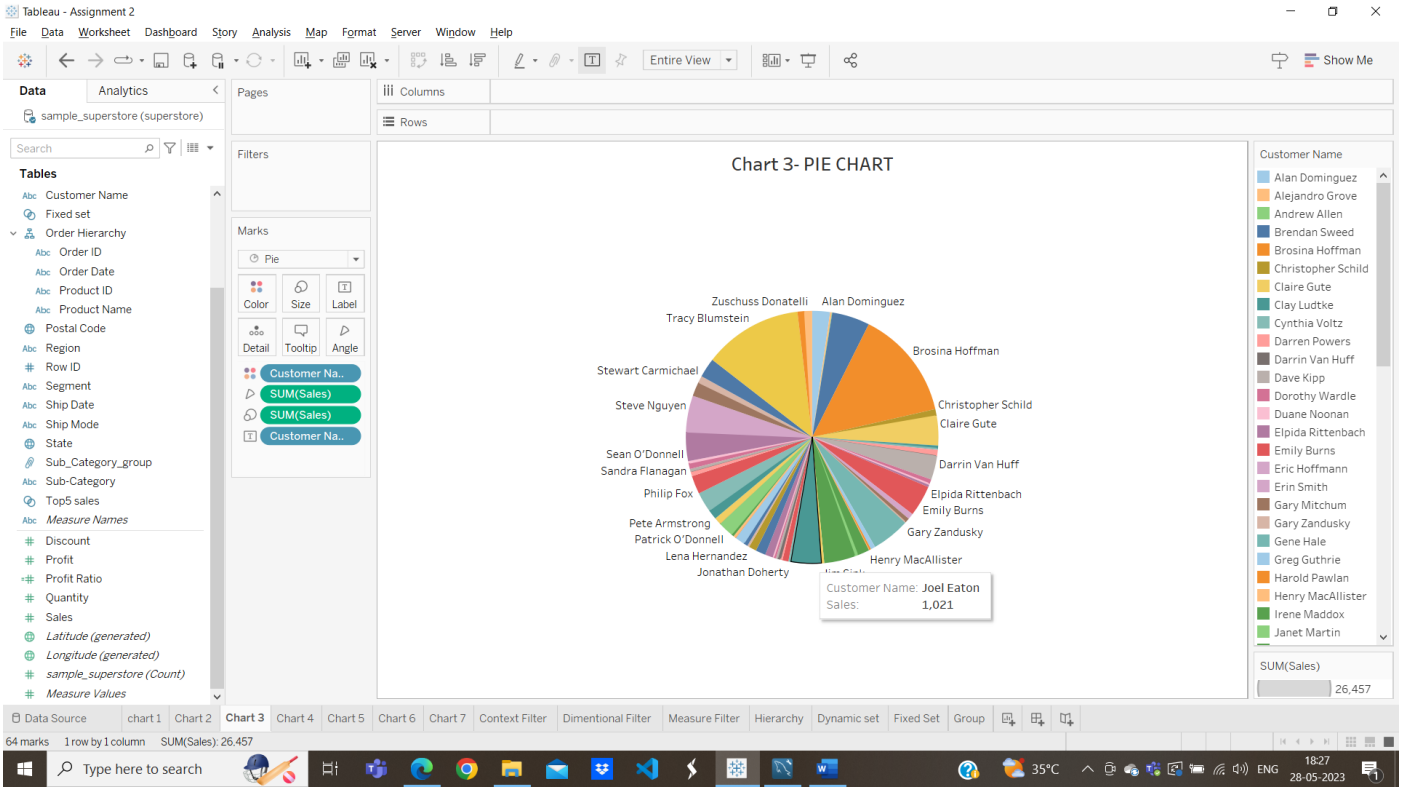
HORIZONTAL BAR GRAPH:



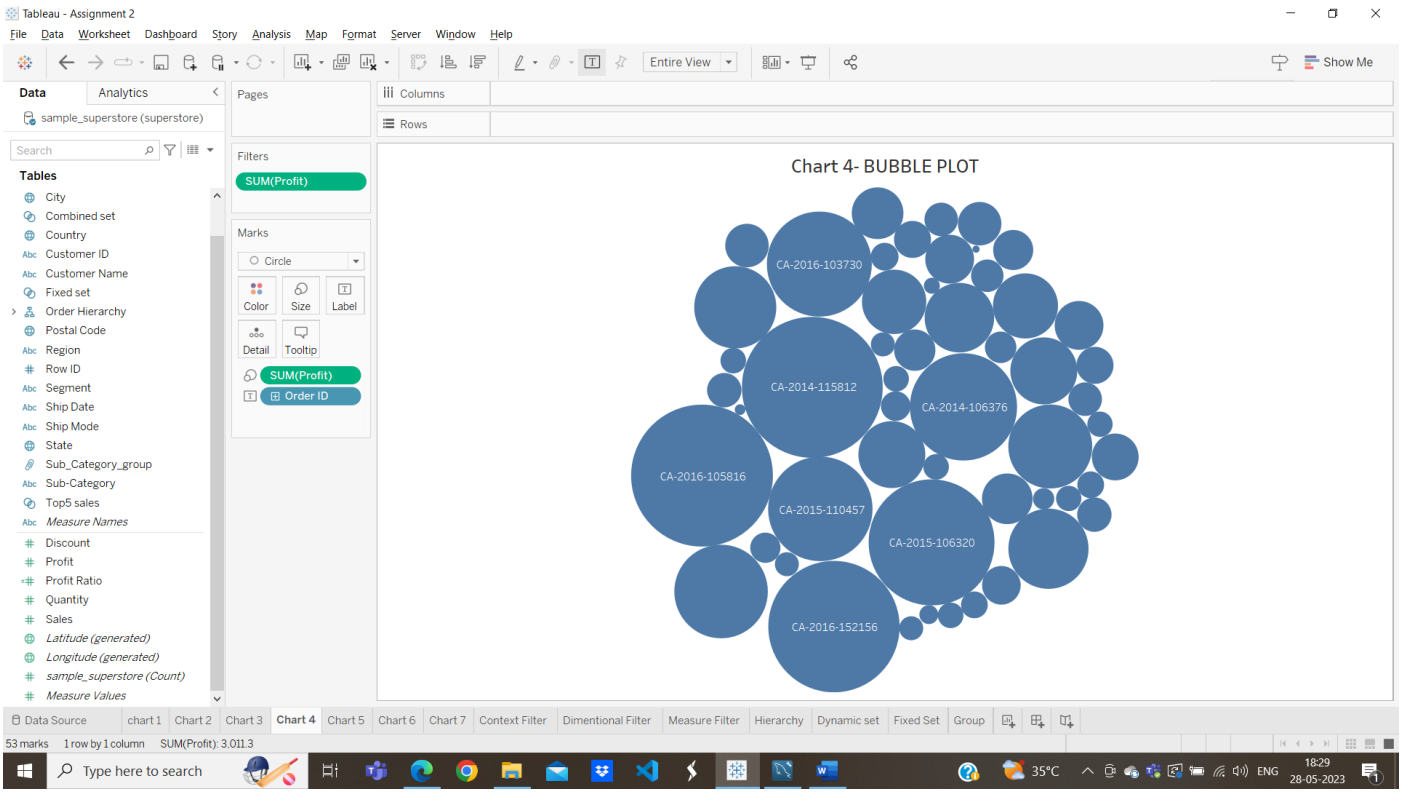
TREE MAPS:



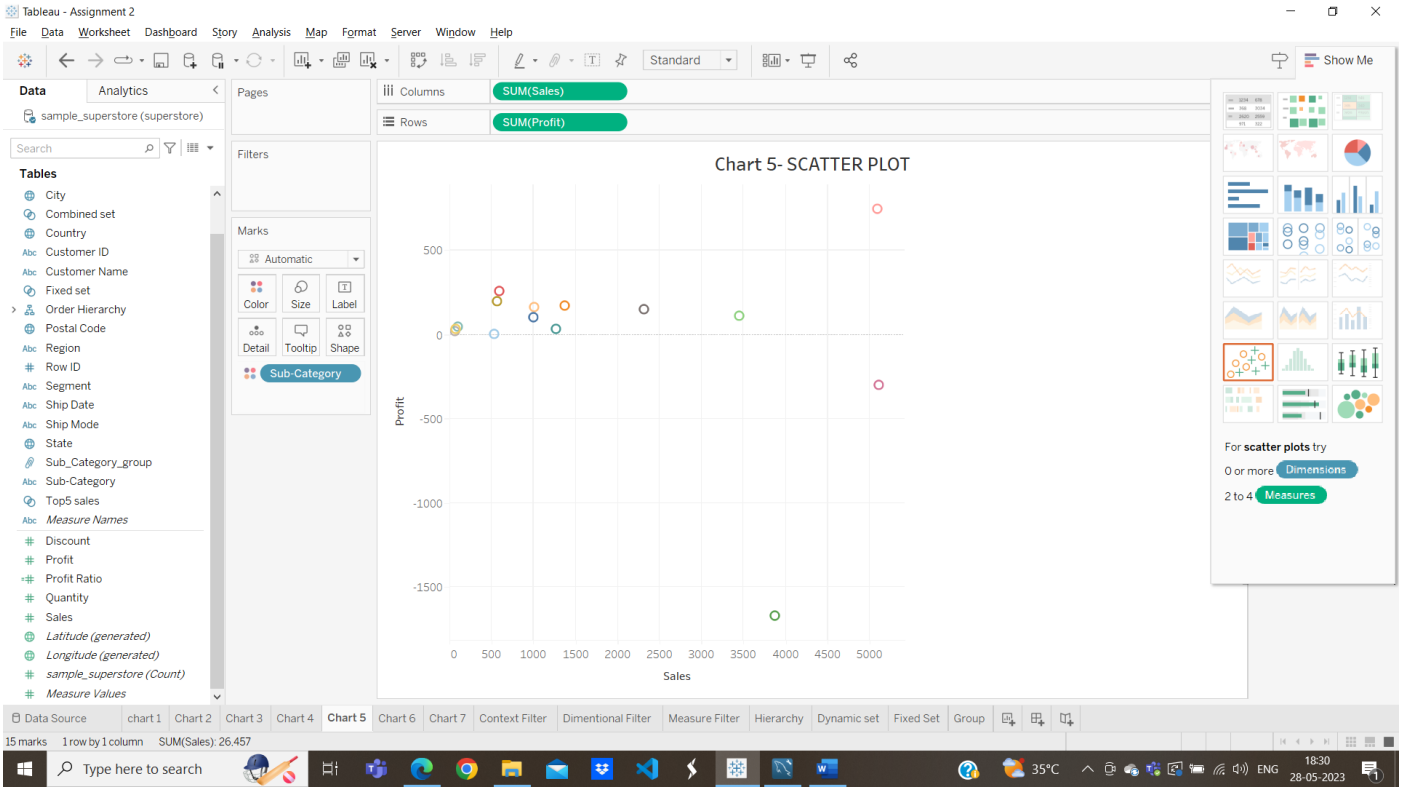
PIE CHARTS:



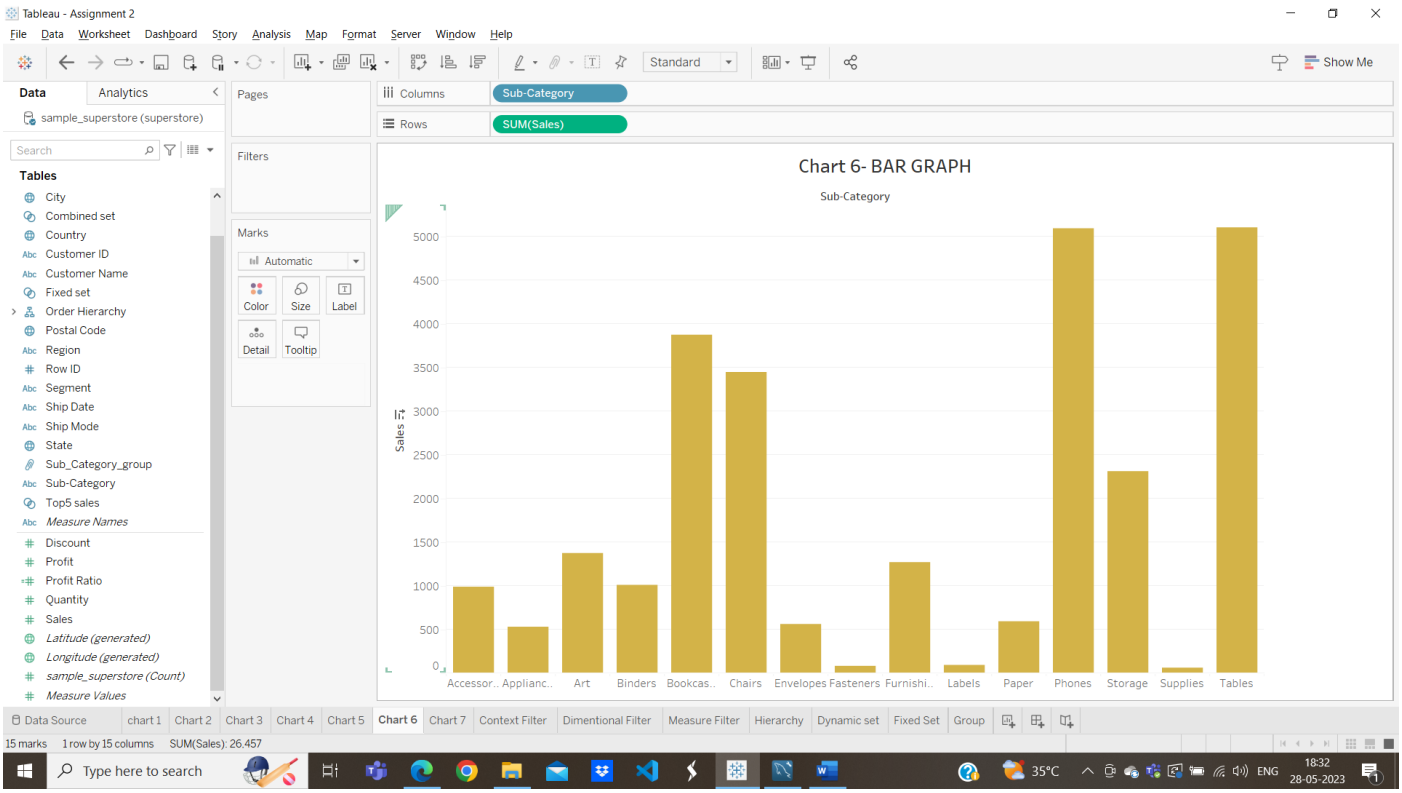
BUBBLE PLOT:



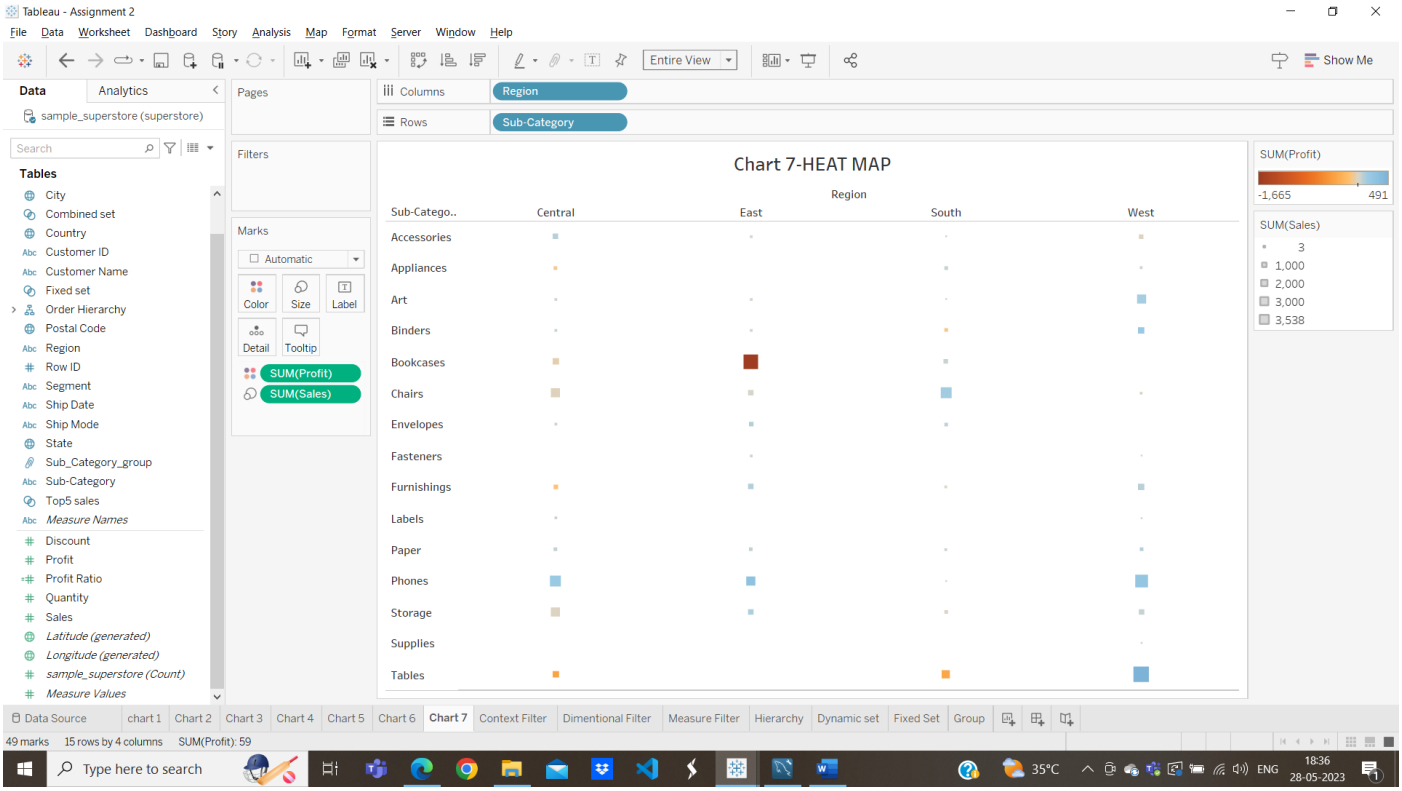
SCATTER PLOT:



BAR GRAPH:



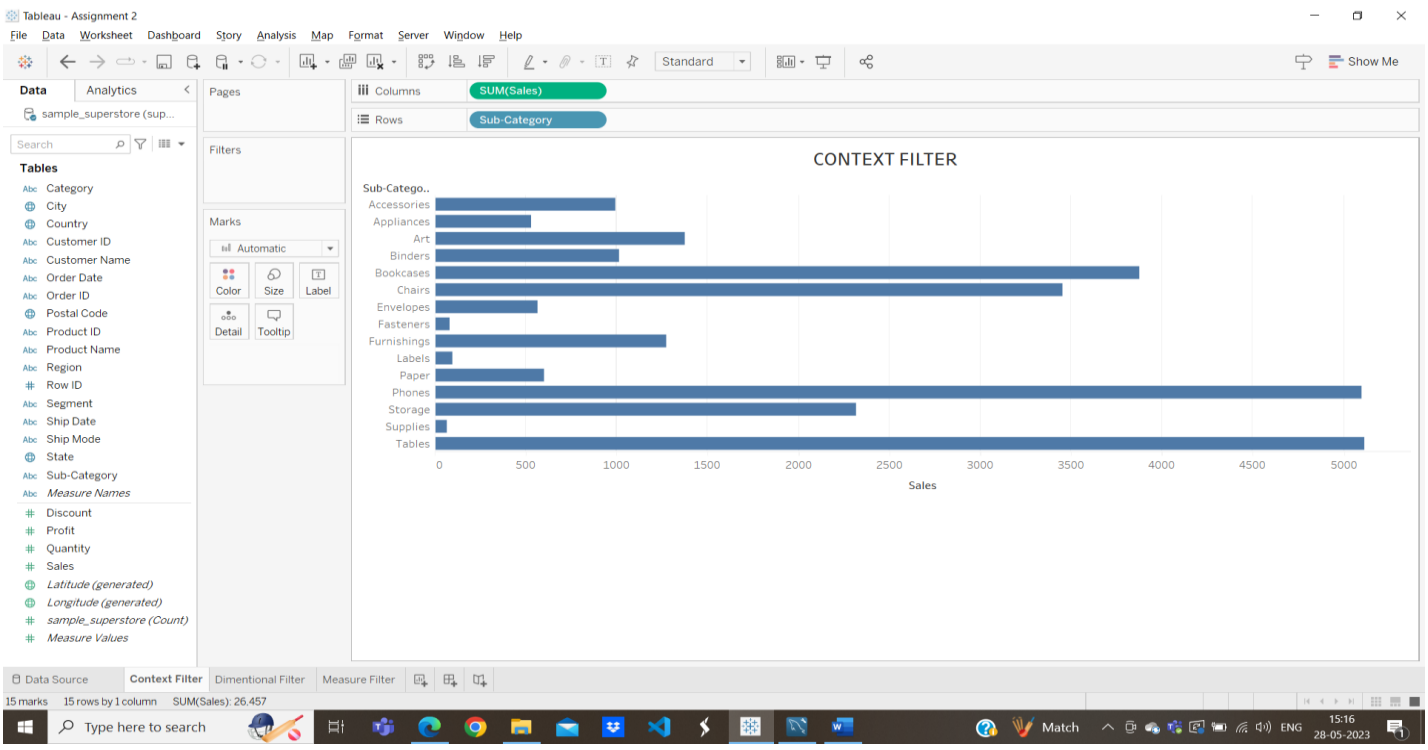
HEAT MAPS:



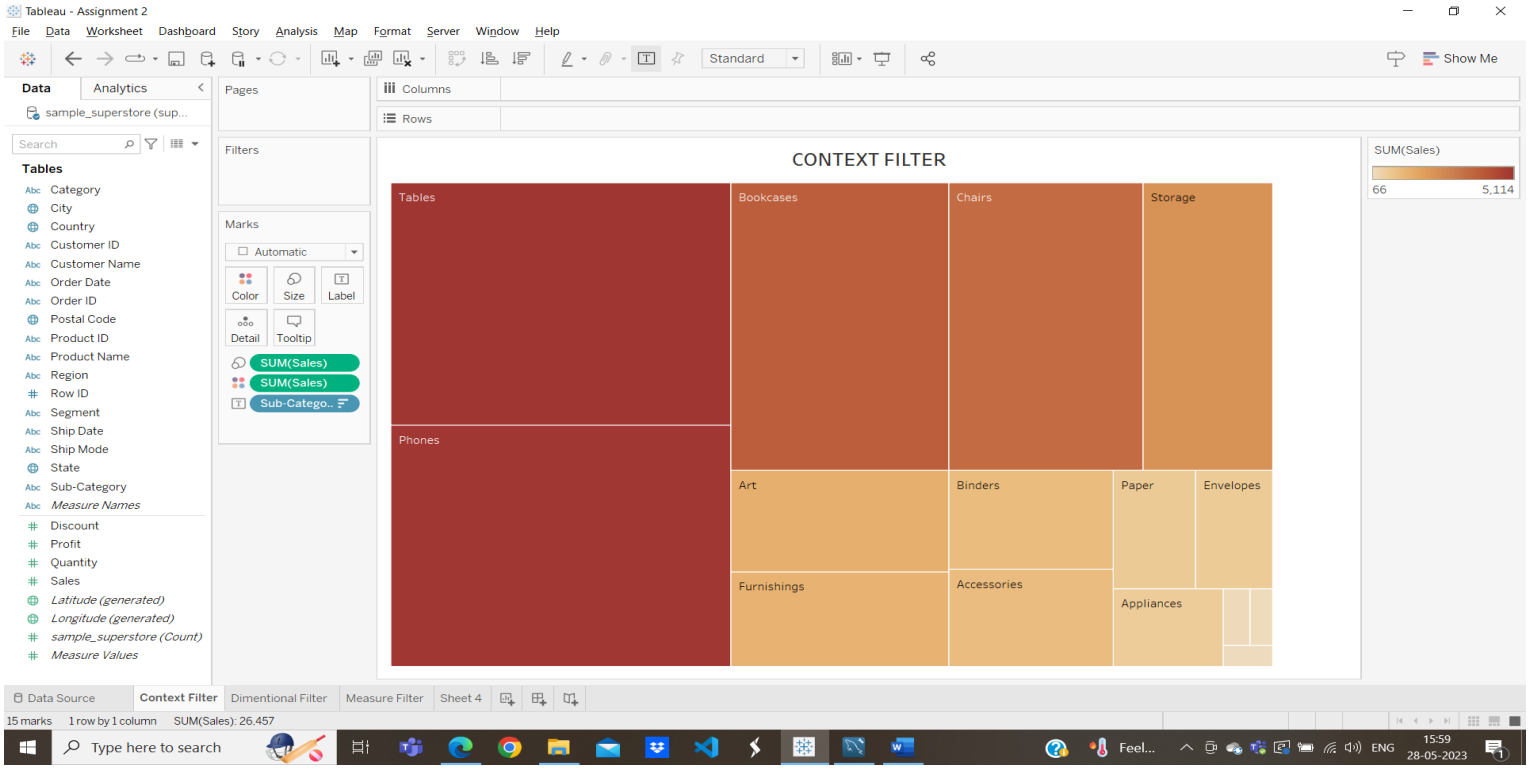
2) Apply dimension filter, context and measure filter on any of the three visualizations

CONTEXT FILTER:

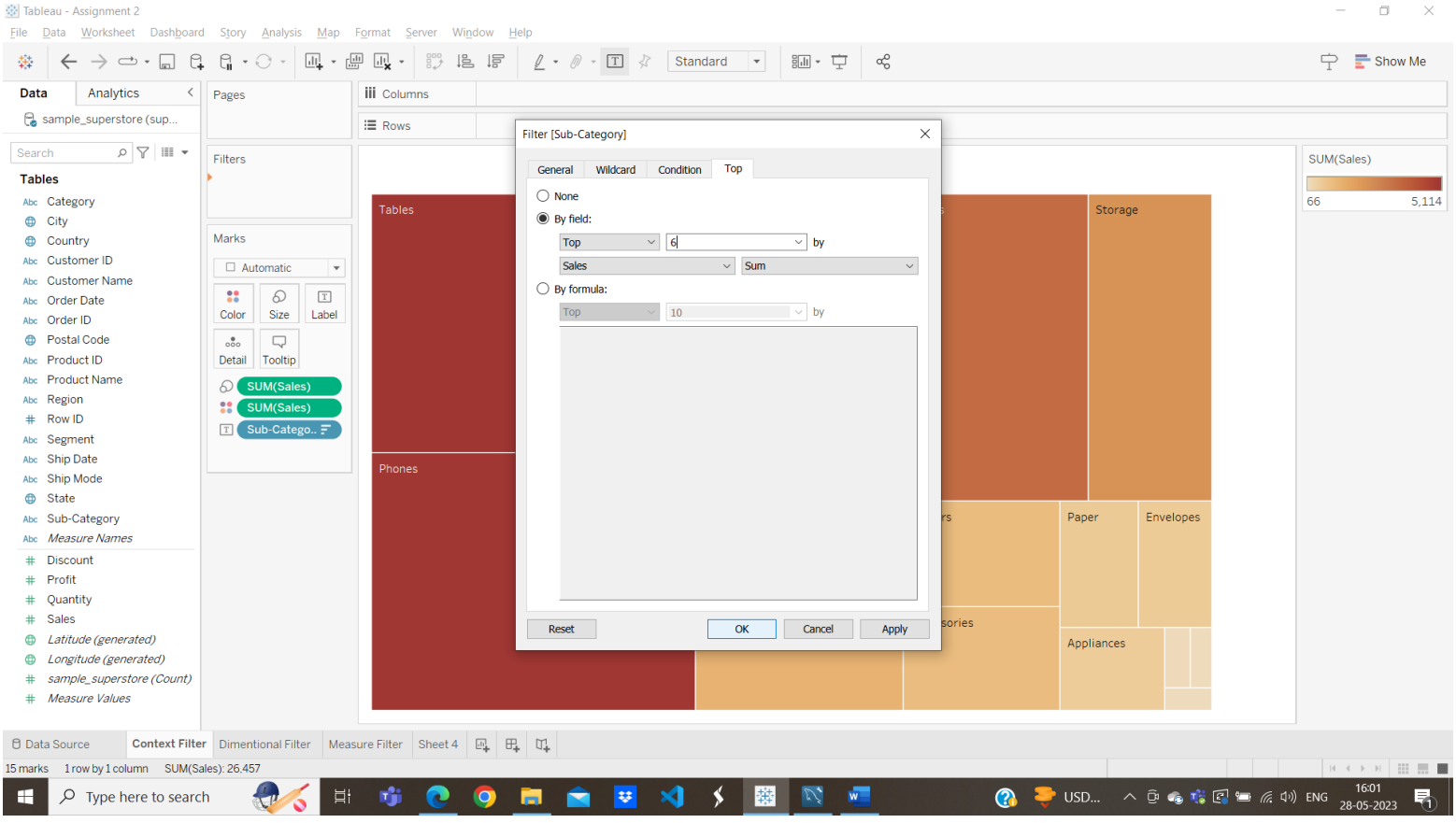
Taking Sales as Column and Sub Category as Row

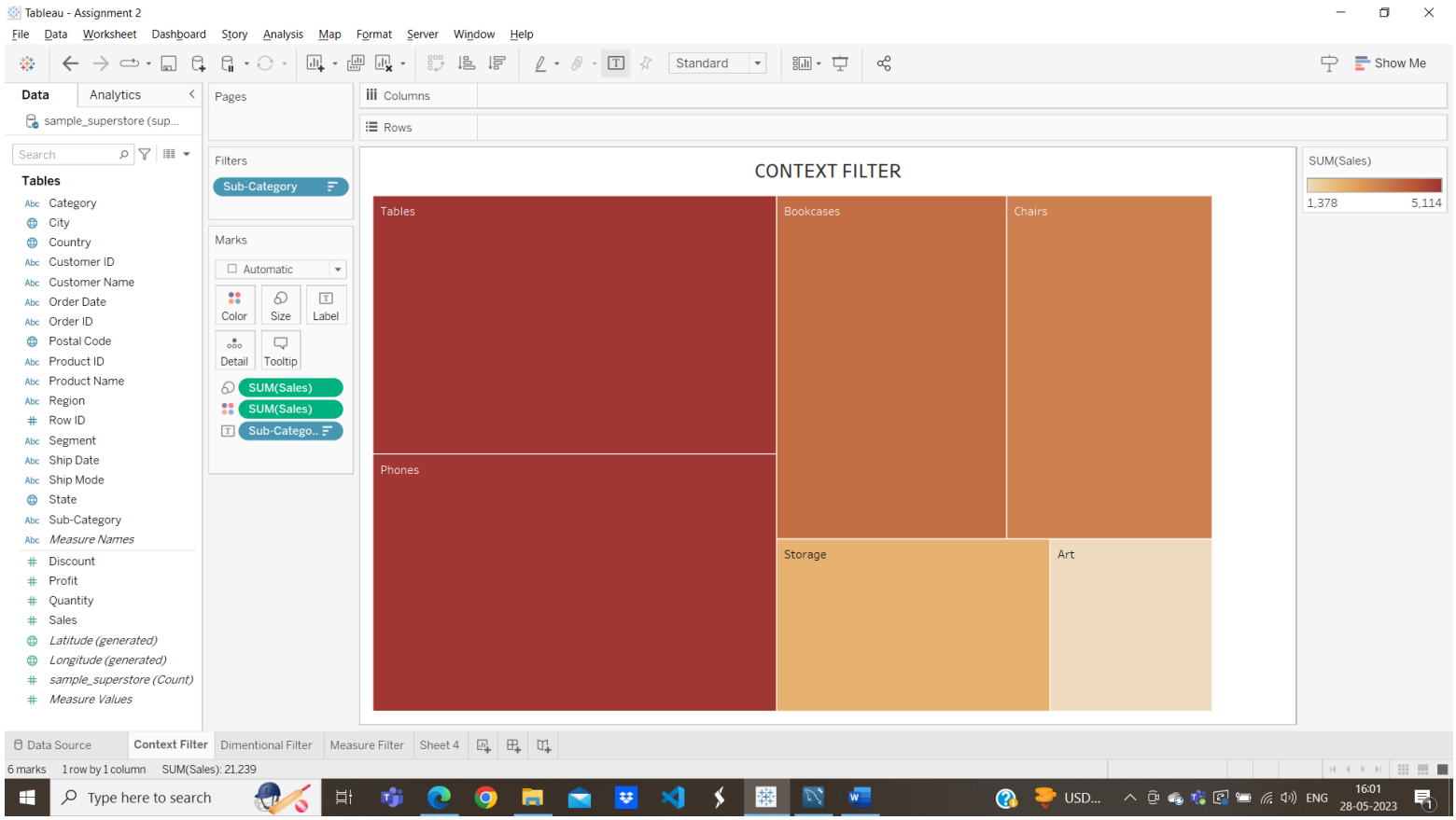


Applying Using TREE MAP:

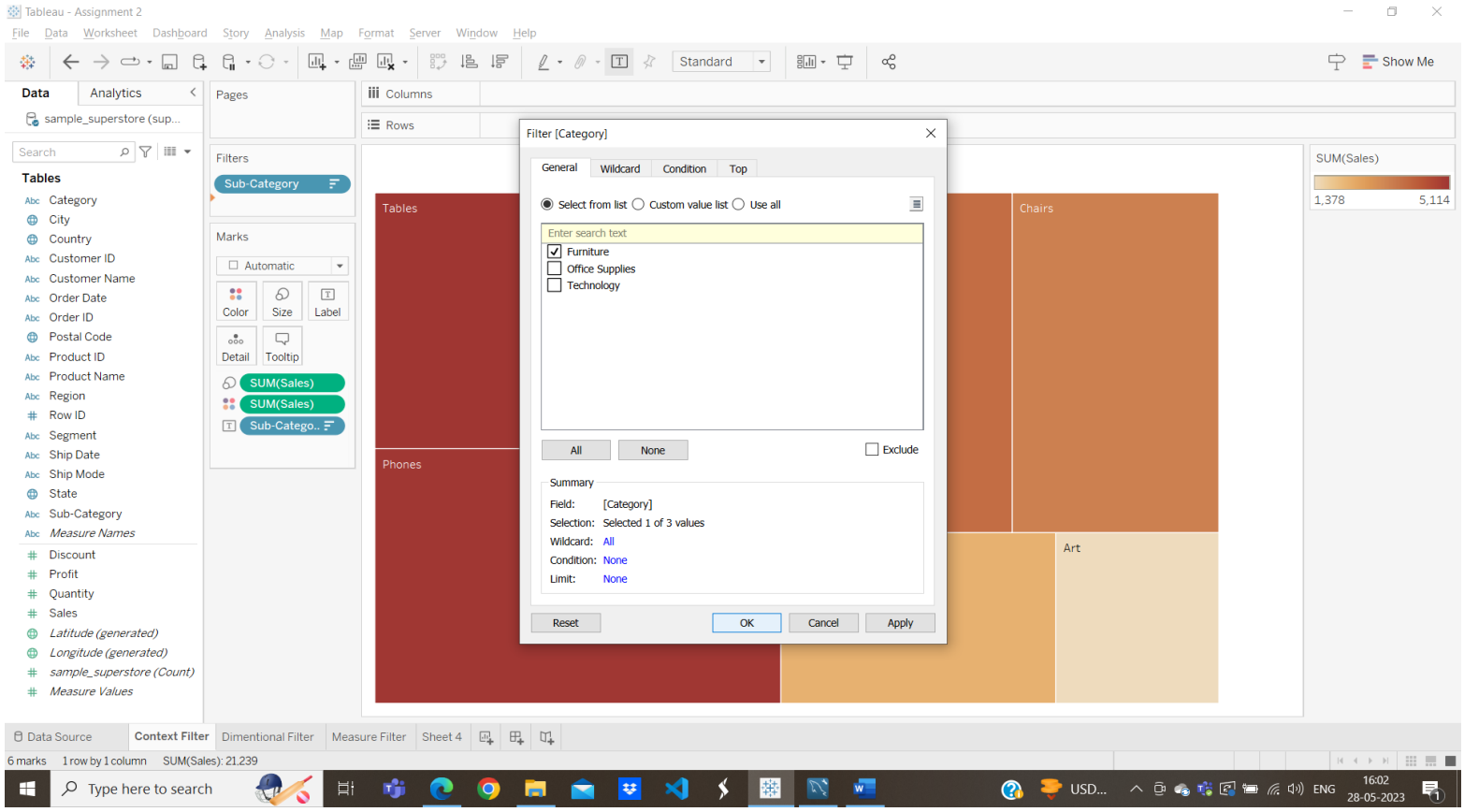


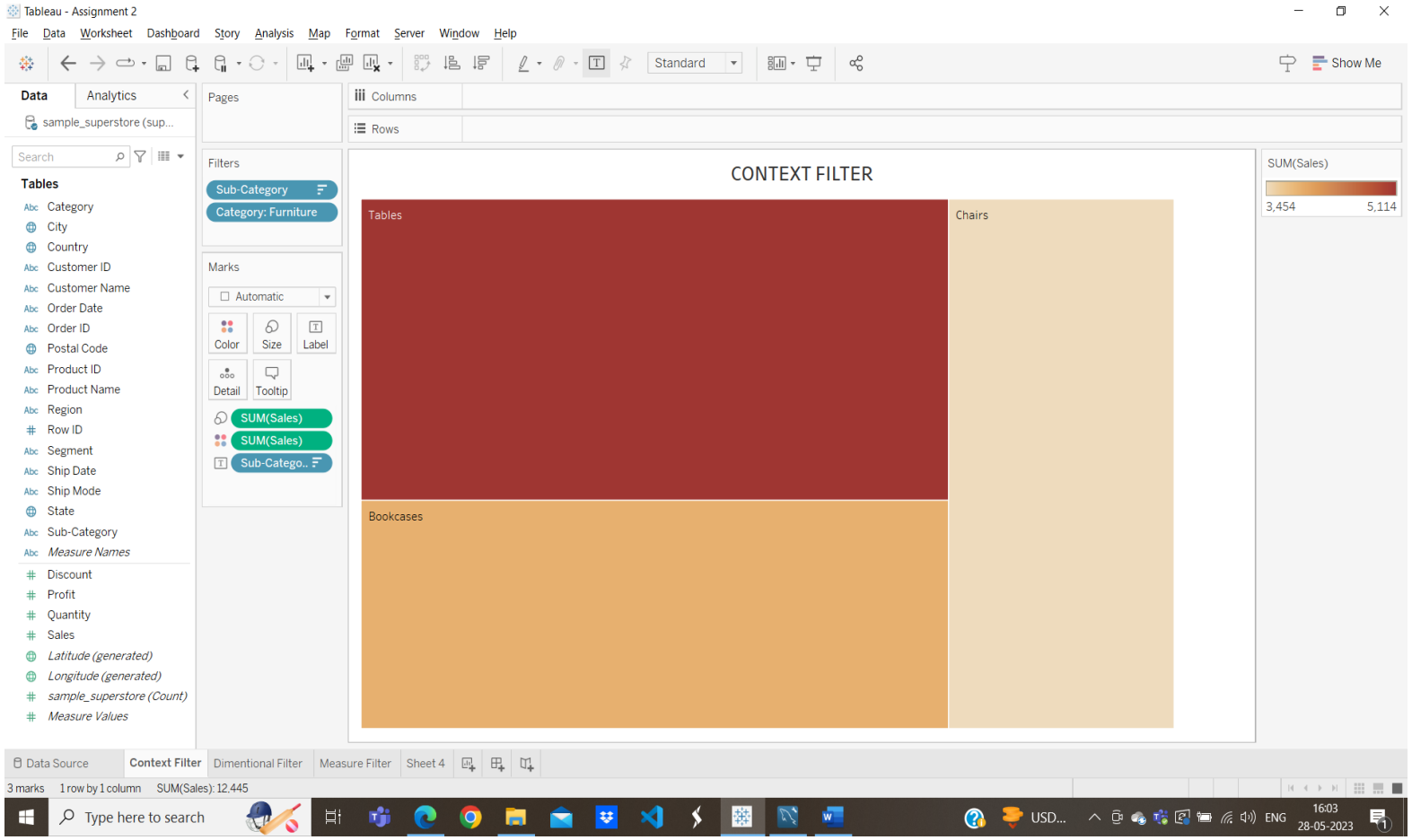
Applying the first filter as Top 6 On Sub – Category:



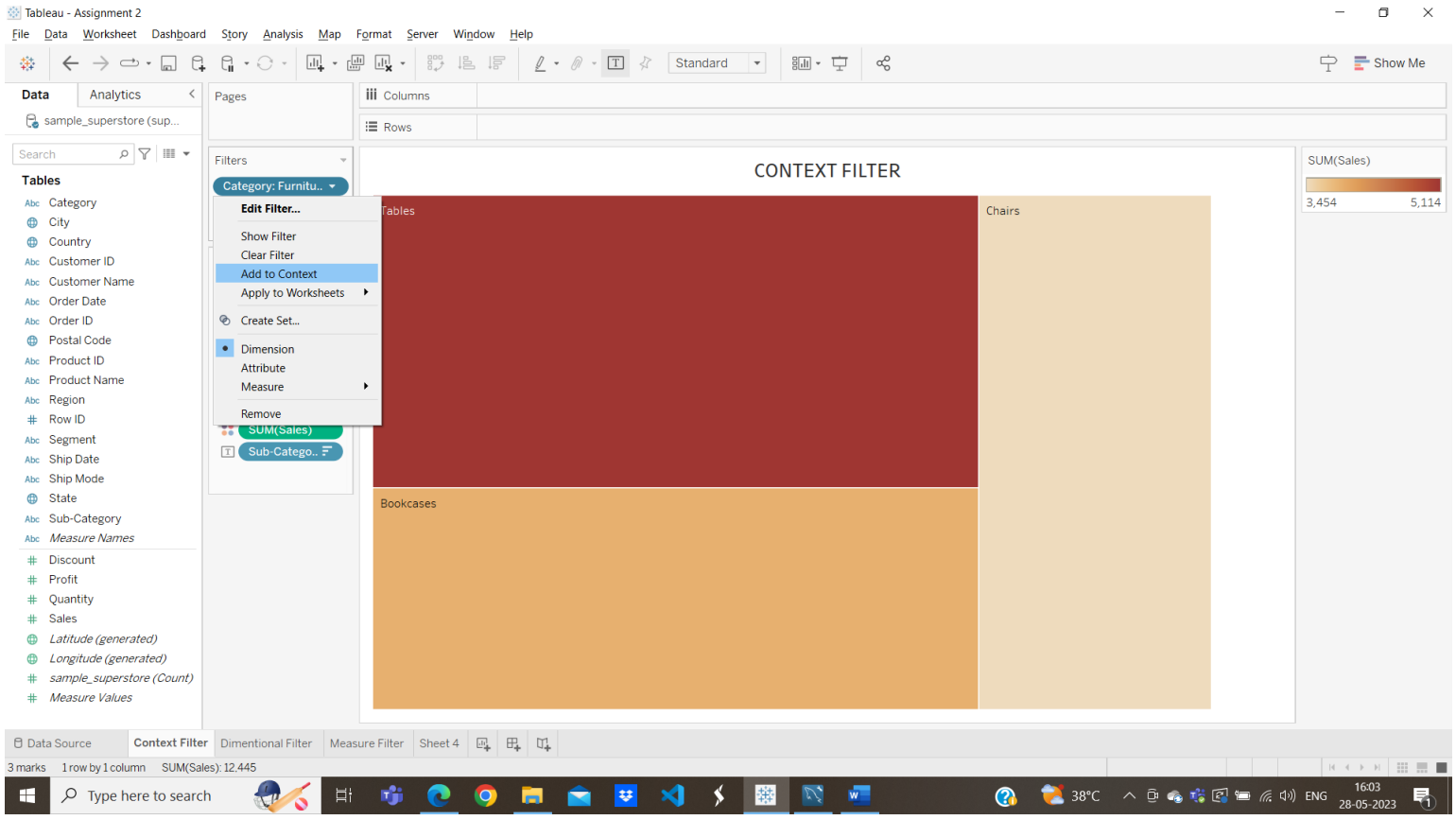


Adding another Filter for Category Furniture:

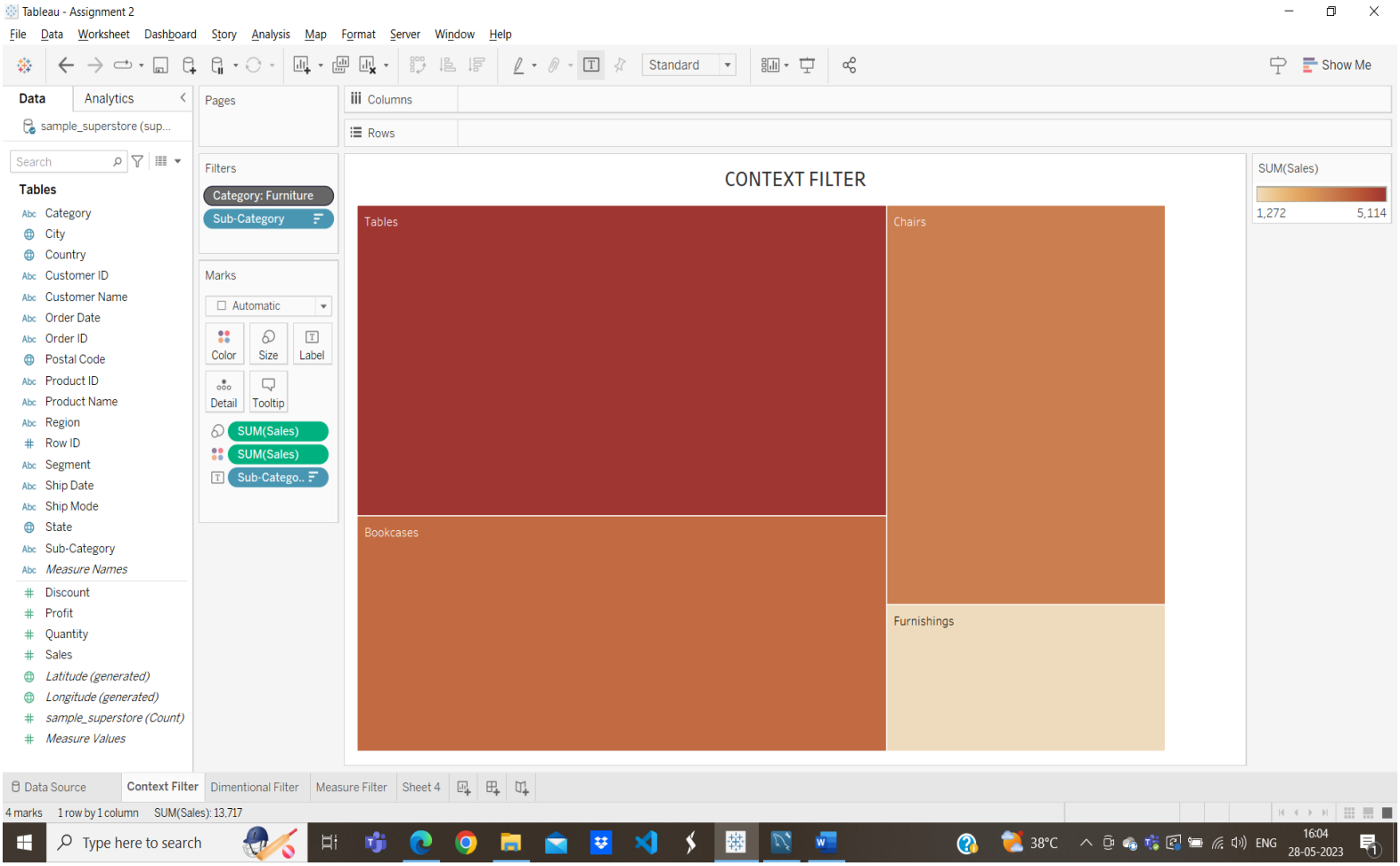




Adding Context Filter:

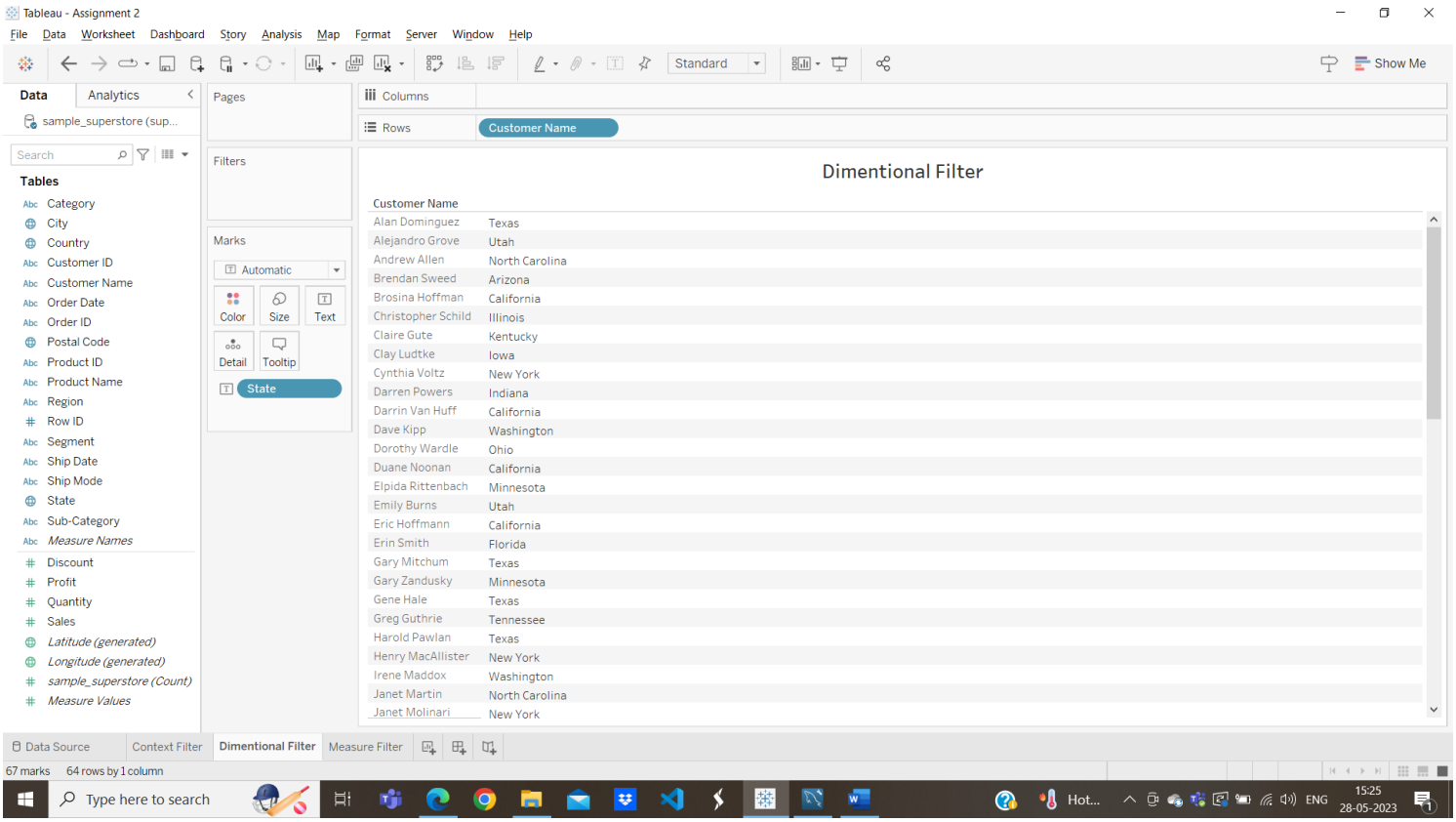


After Applying the Context Filter:

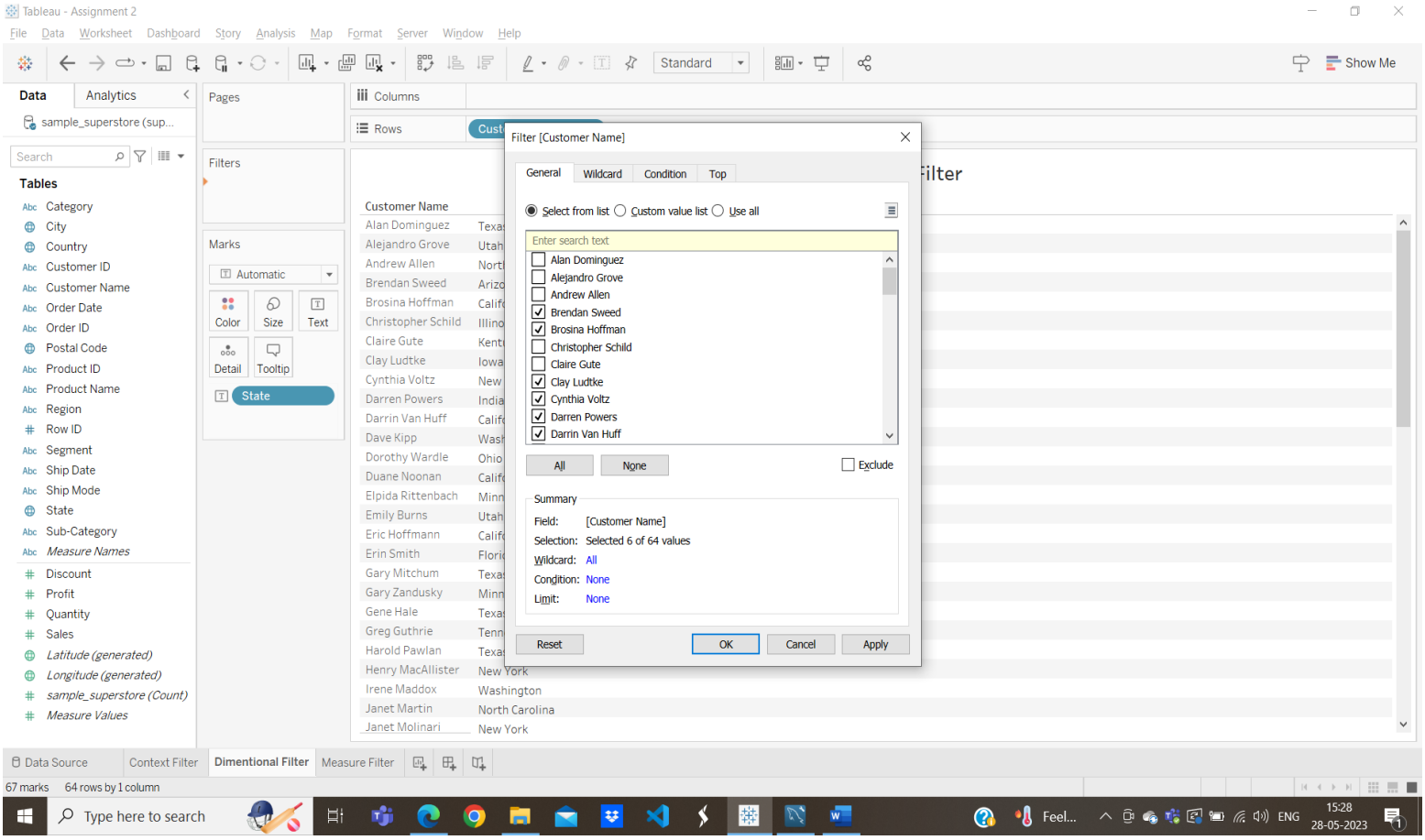


DIMENTIONAL FILTER:

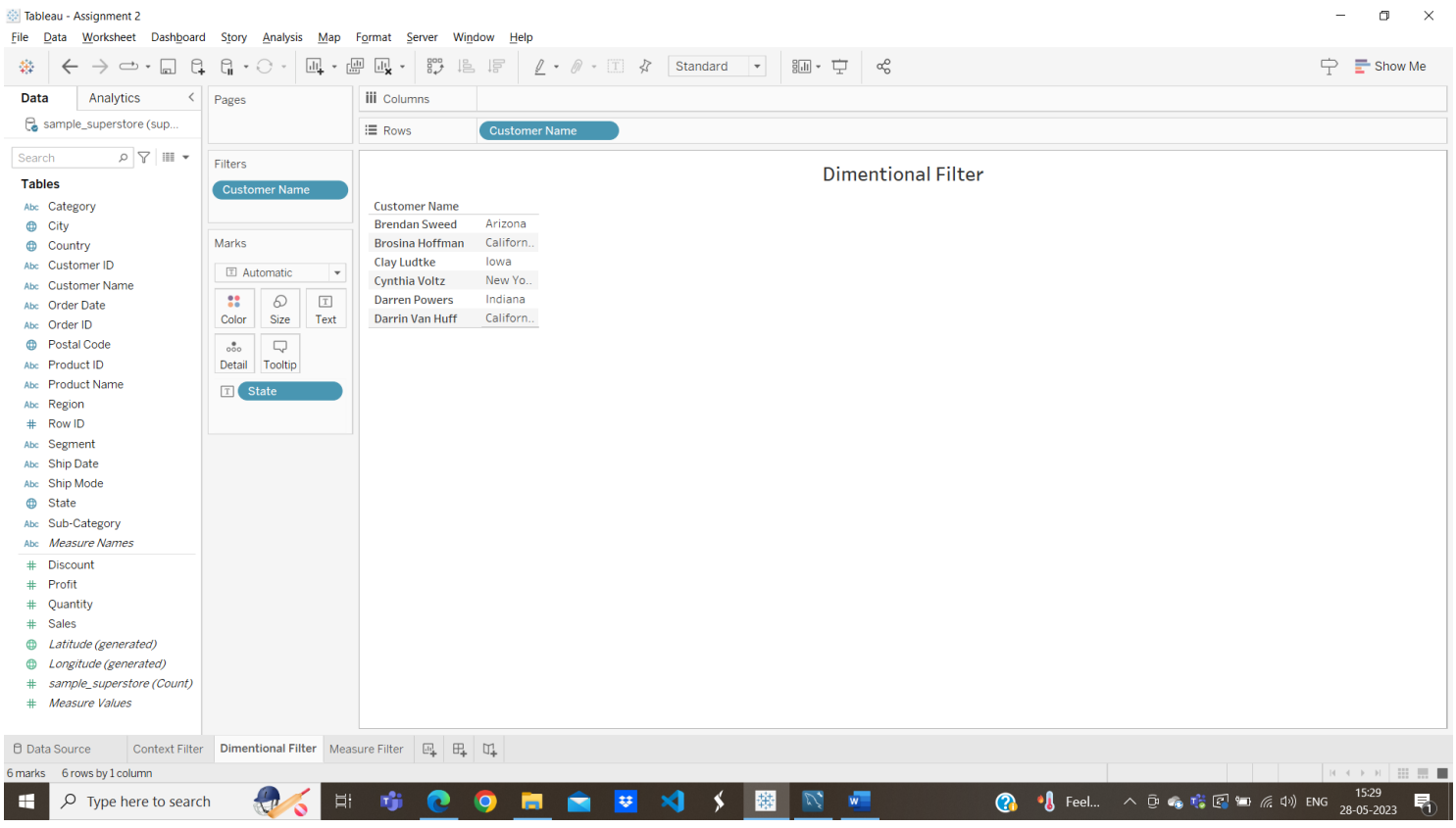
Keeping Customer Name in Rows:



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

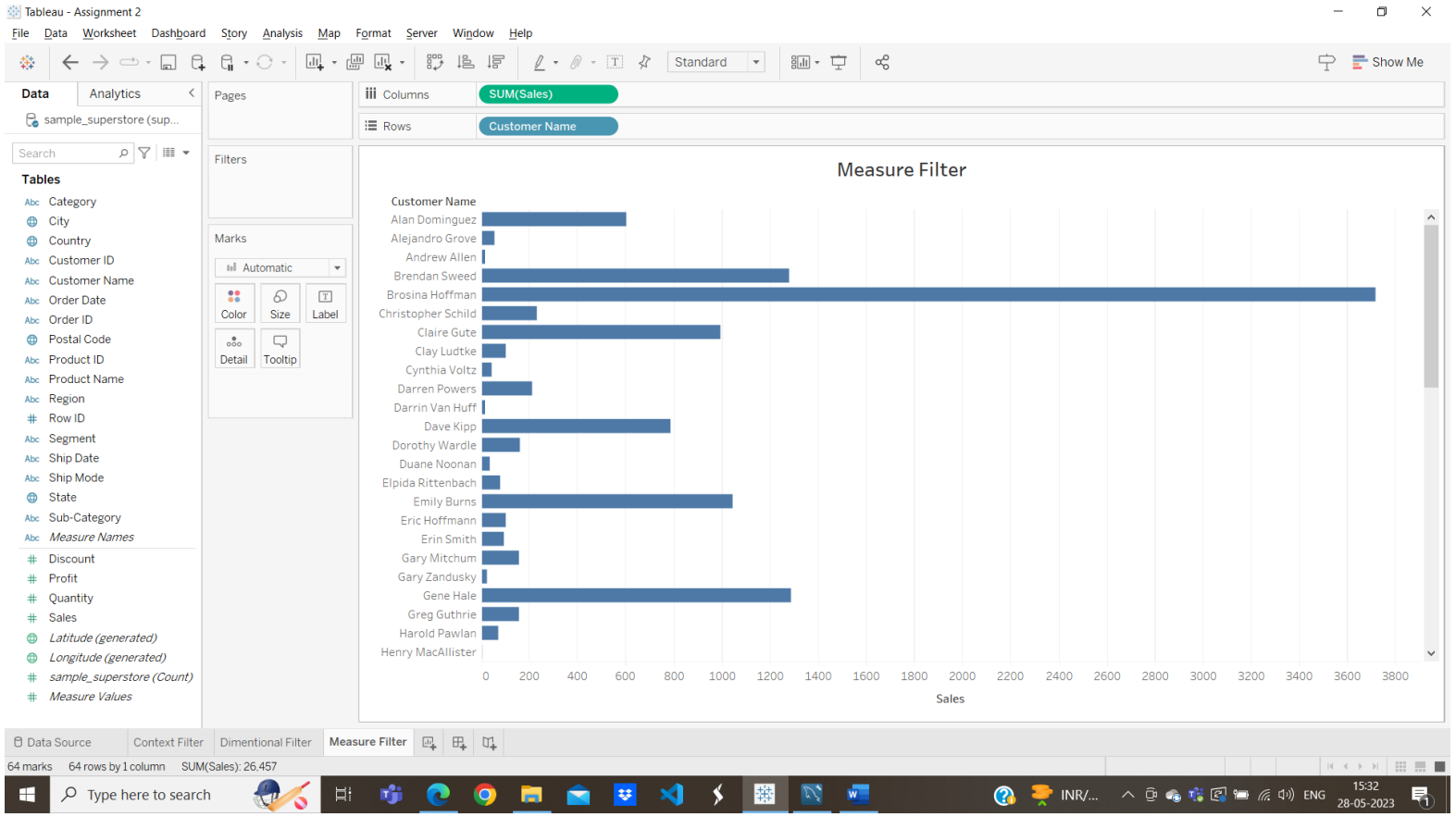


After the Dimention Filter is applied:

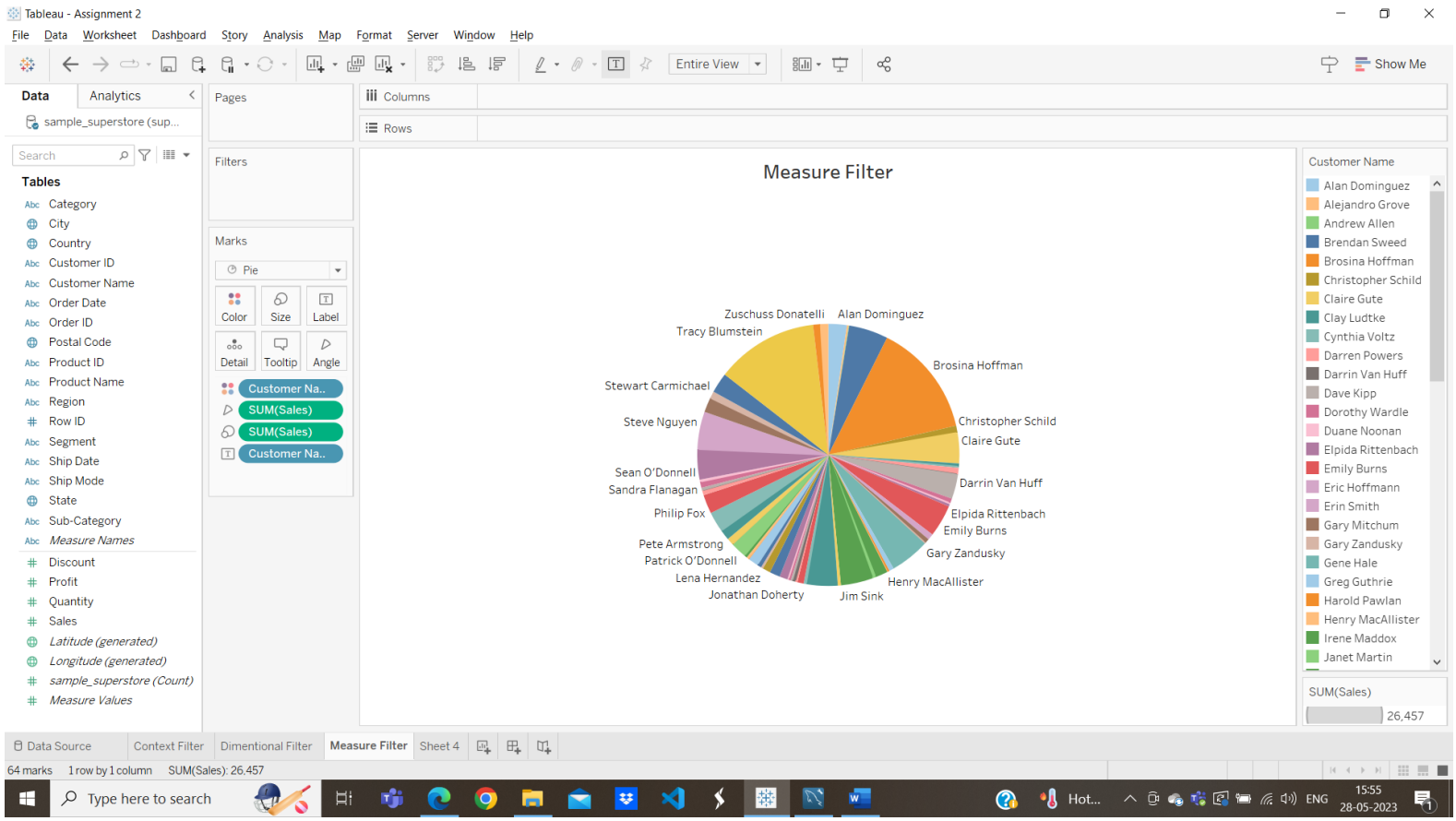


MEASURE FILTER:

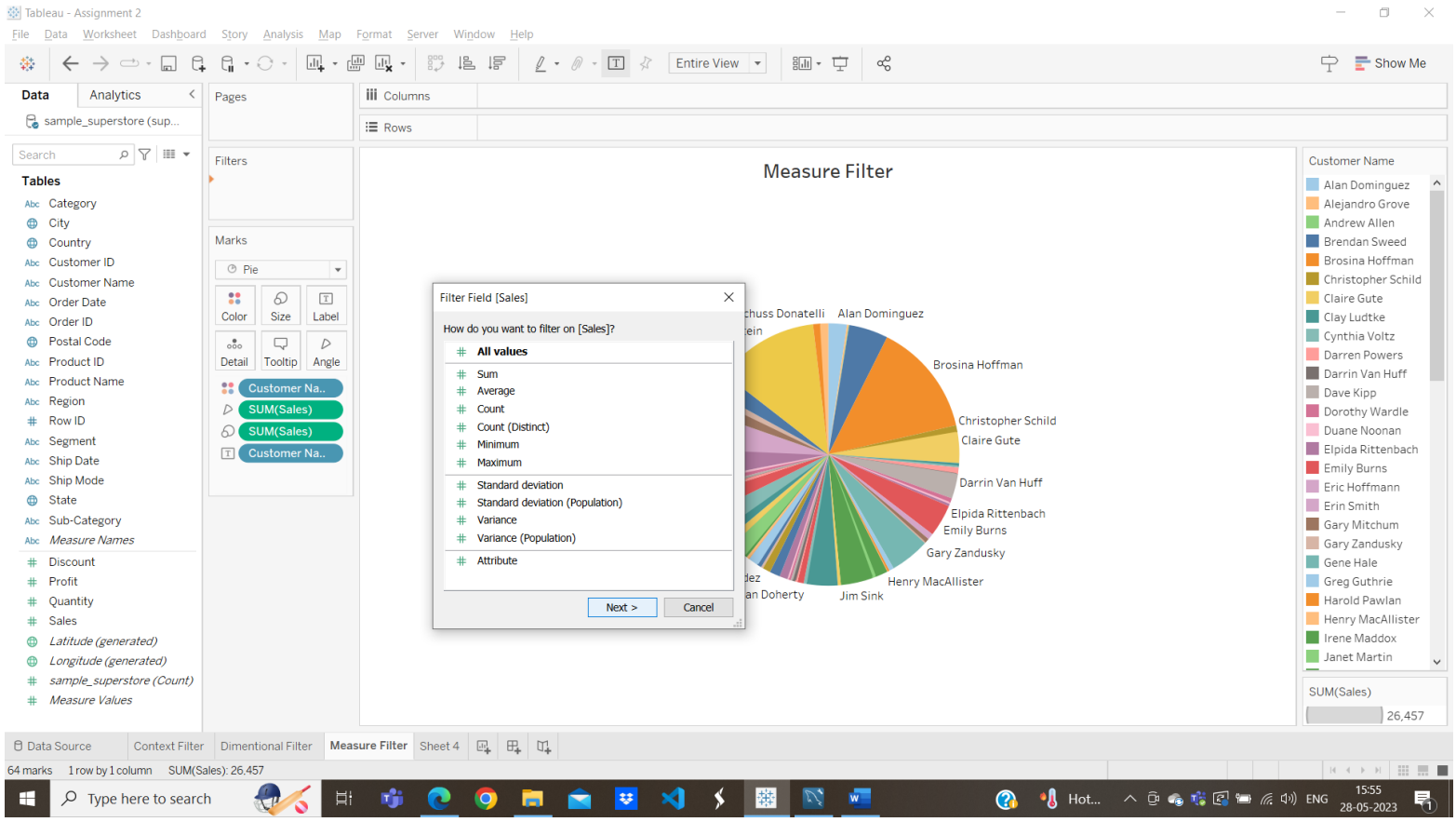
Taking the Sales as Column and Customer Name as Row



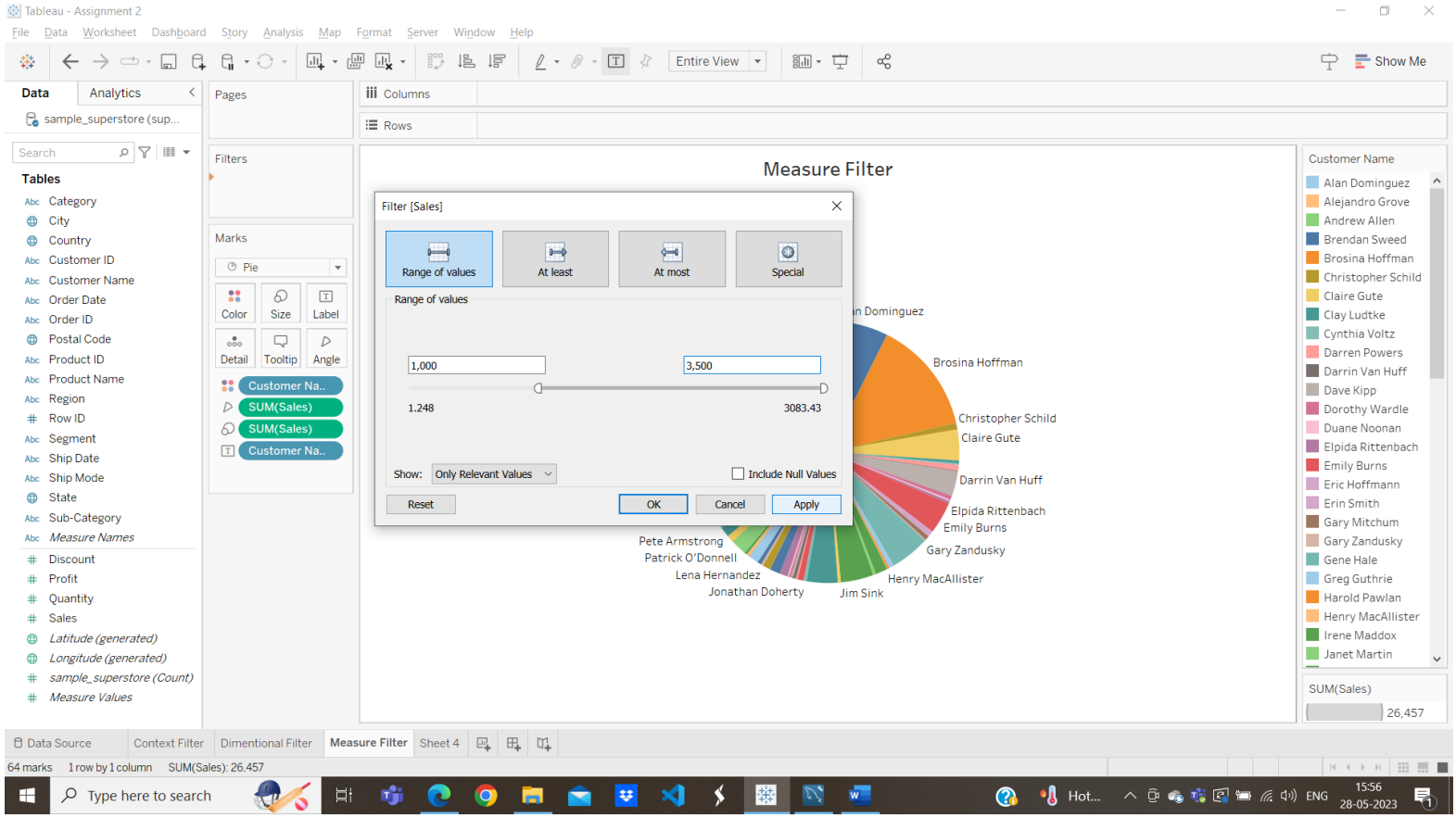
Visualizing it in PIE CHART:



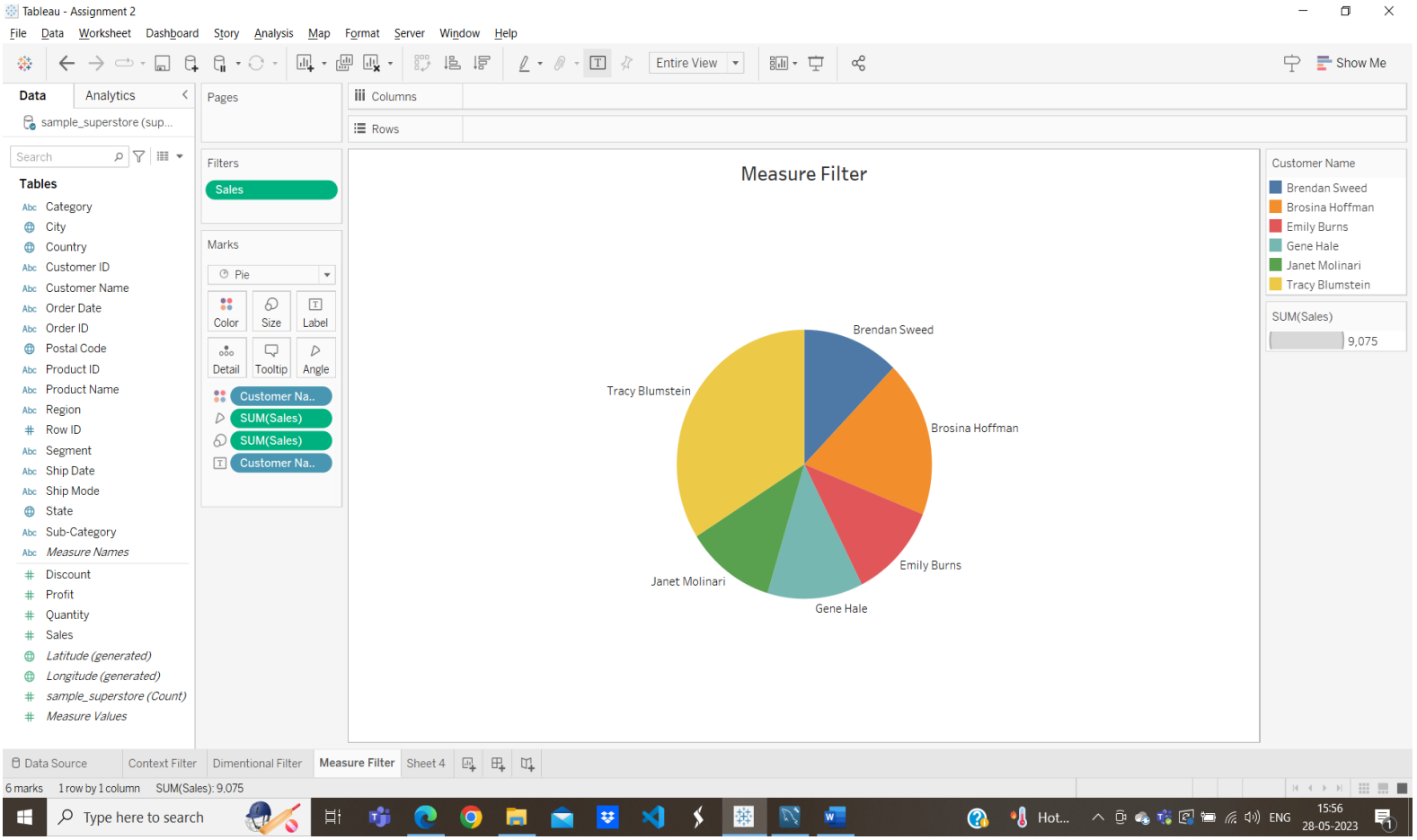
Now we add filter the measure of sum(sales):



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



After Applying Measure Filter:

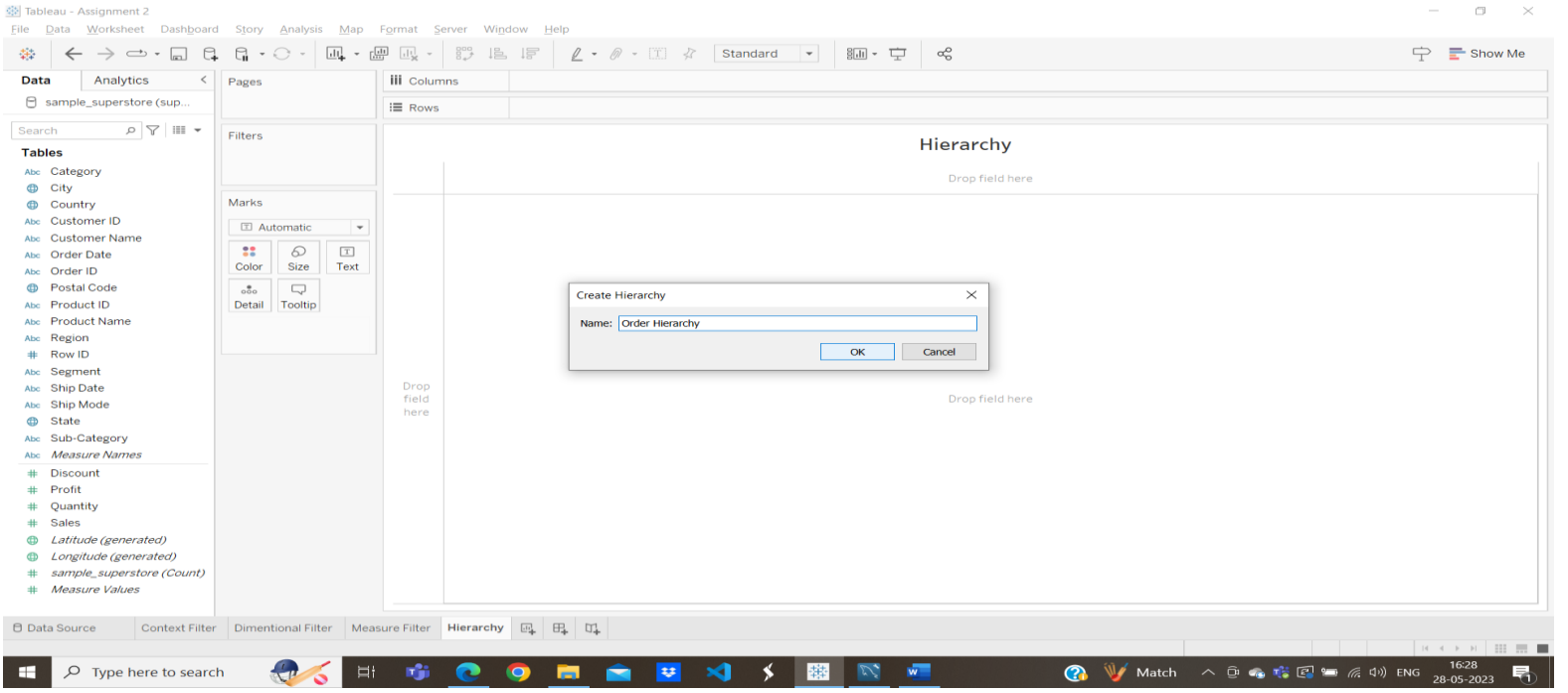


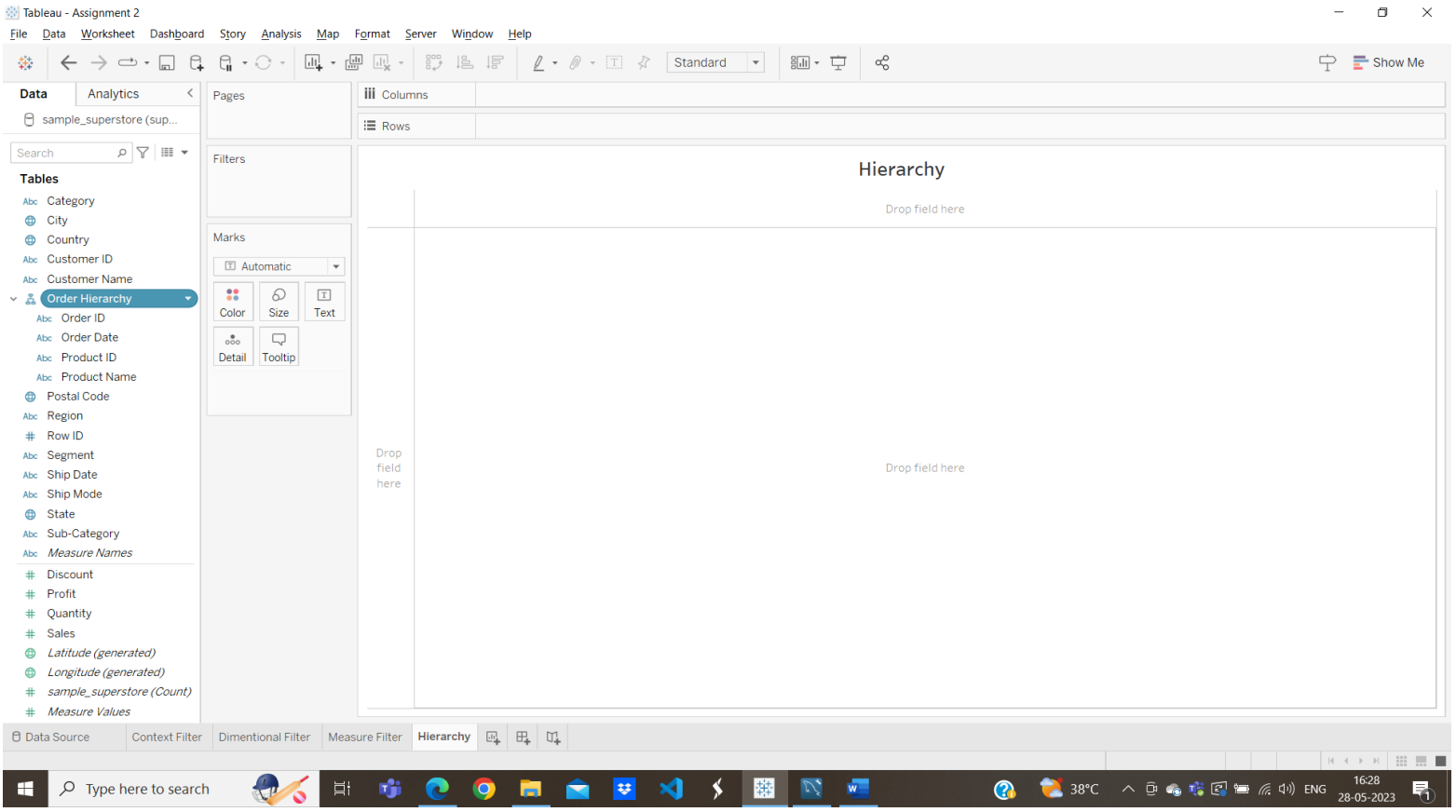
3) Perform the following data manipulations on your dataset

Note : Use ‘superstore-sales’ dataset

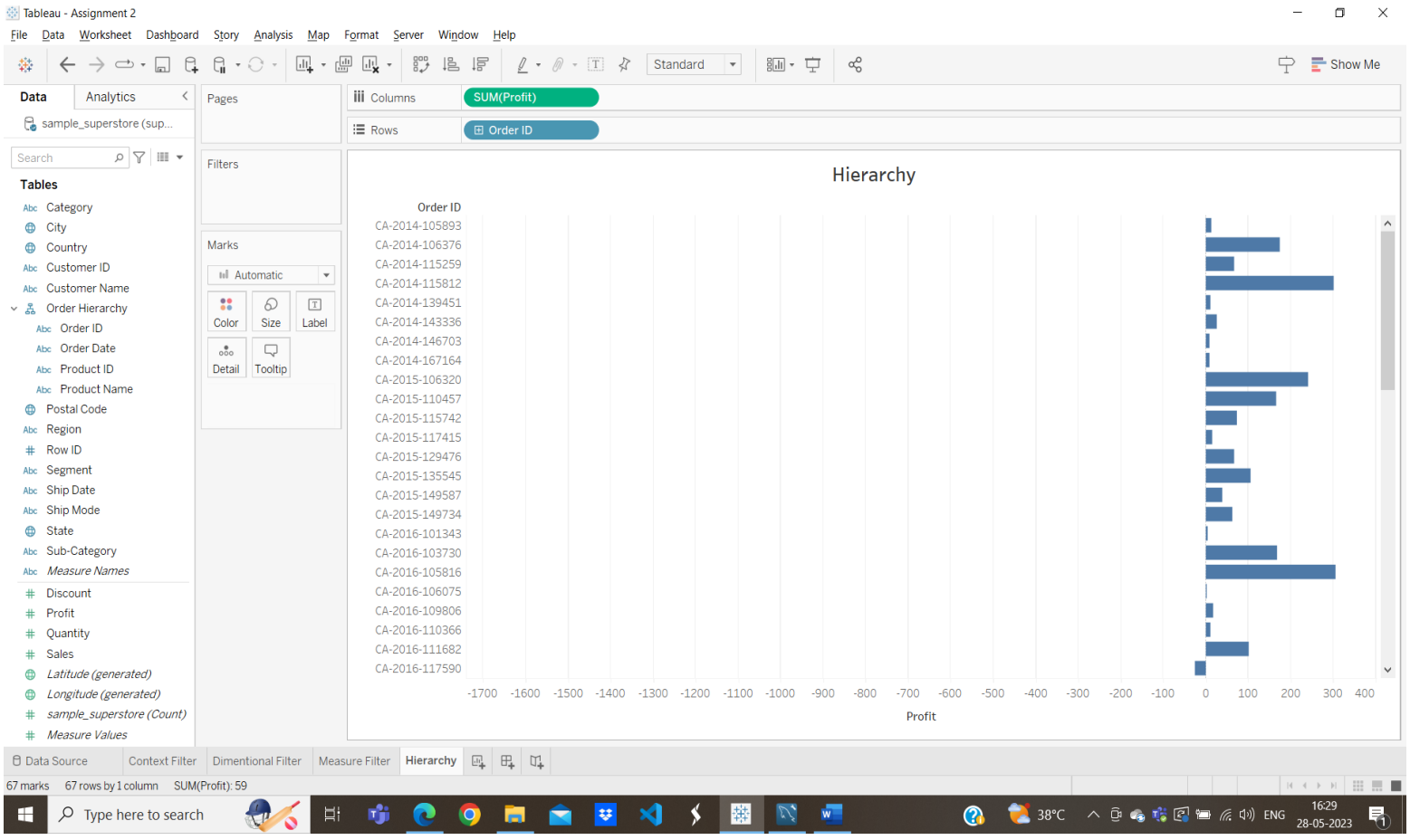
- create a Hierarchy

<u>Creating a Hierarchy:</u> 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.

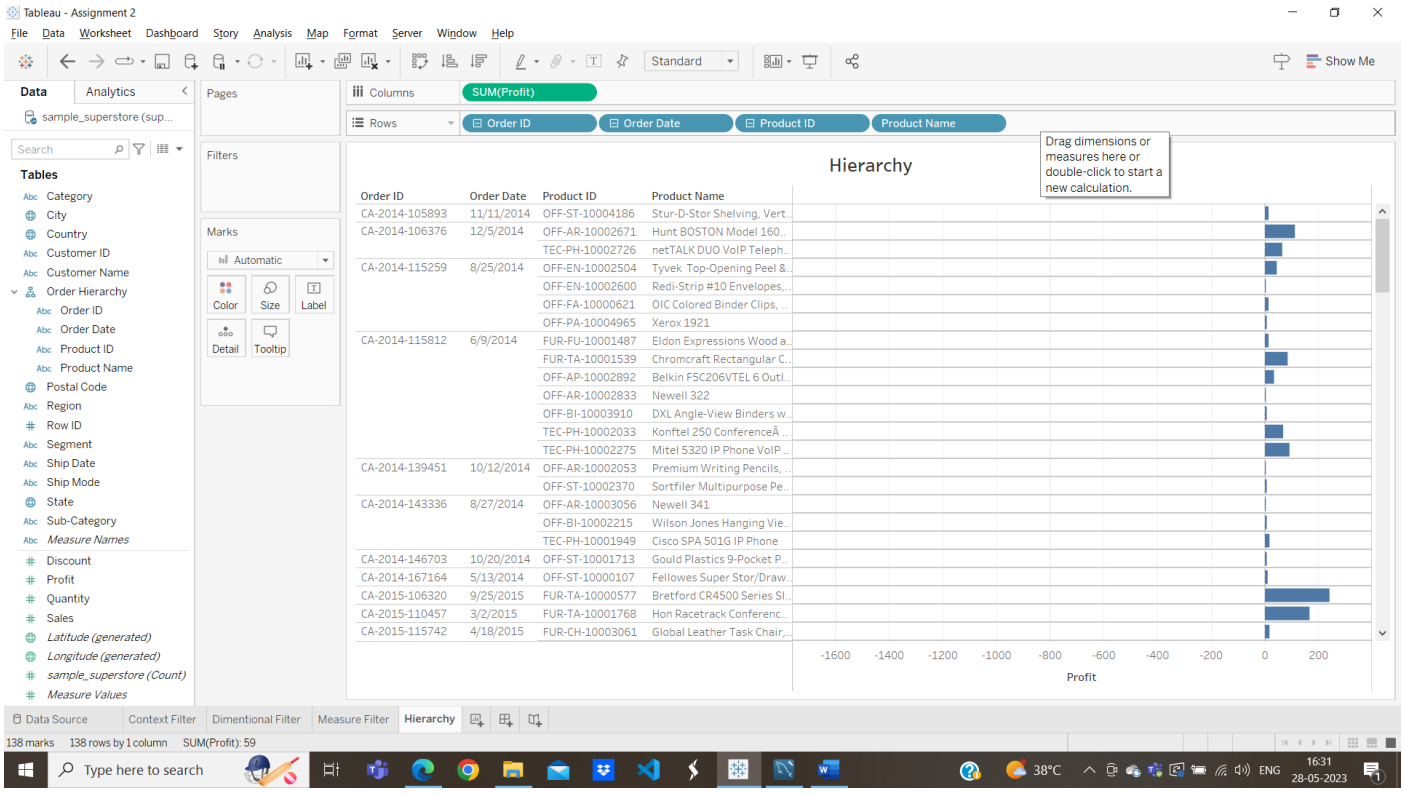




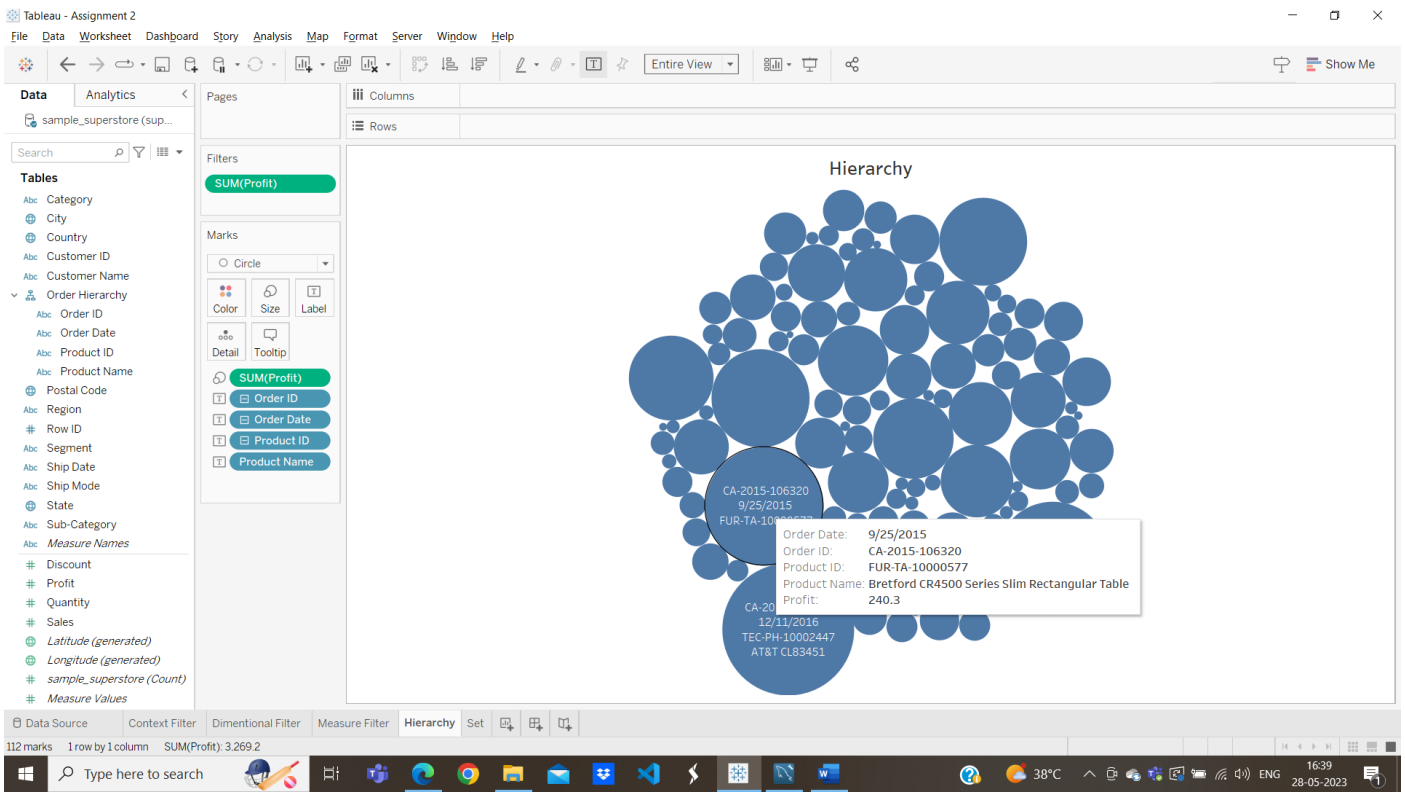
We name the Hierarchy as Order Hierarchy and then drag it to the Rows. Now put Profit to the Columns.



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



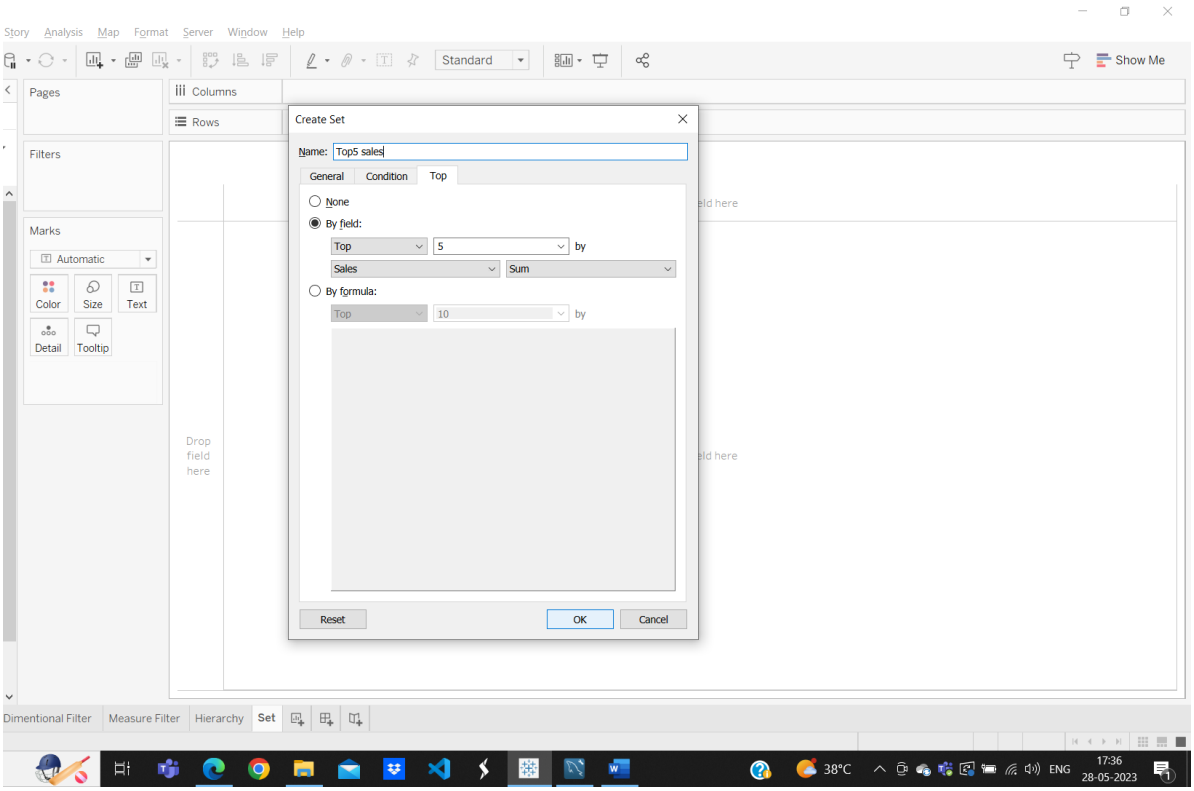
We can view it using Bubble chart also:



● create a set

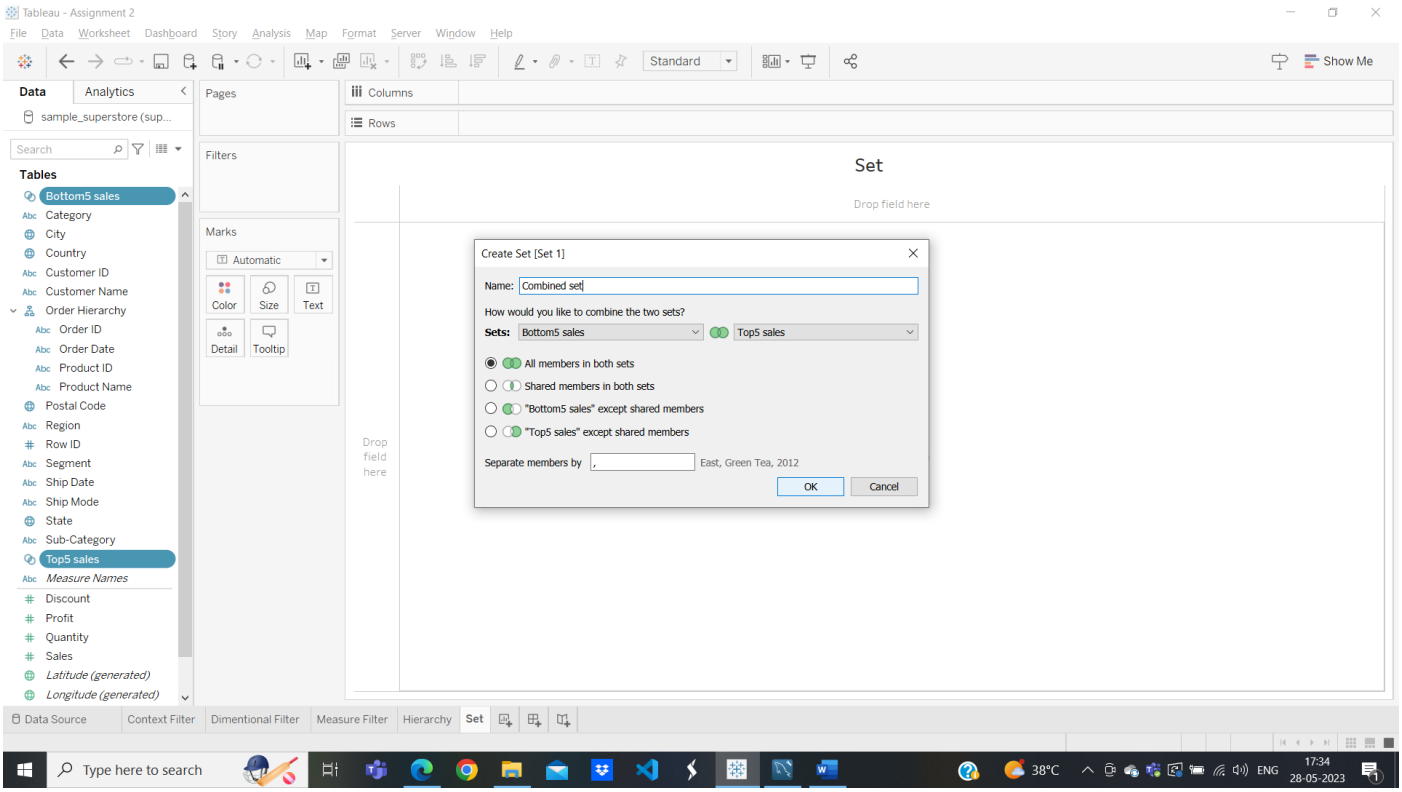
DYNAMIC SET:

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

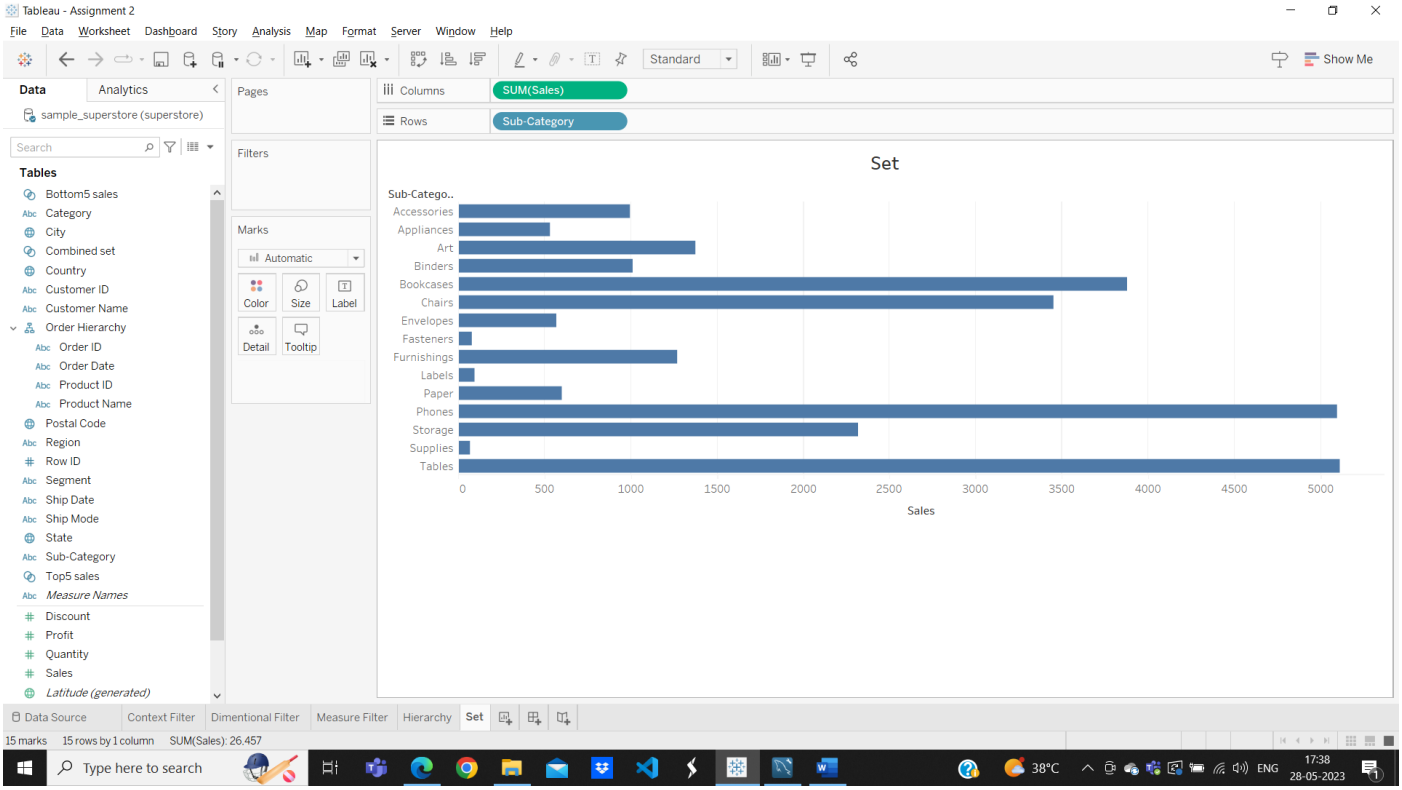


We create 2 sets one is top 5 sales and another bottom 5 sales.

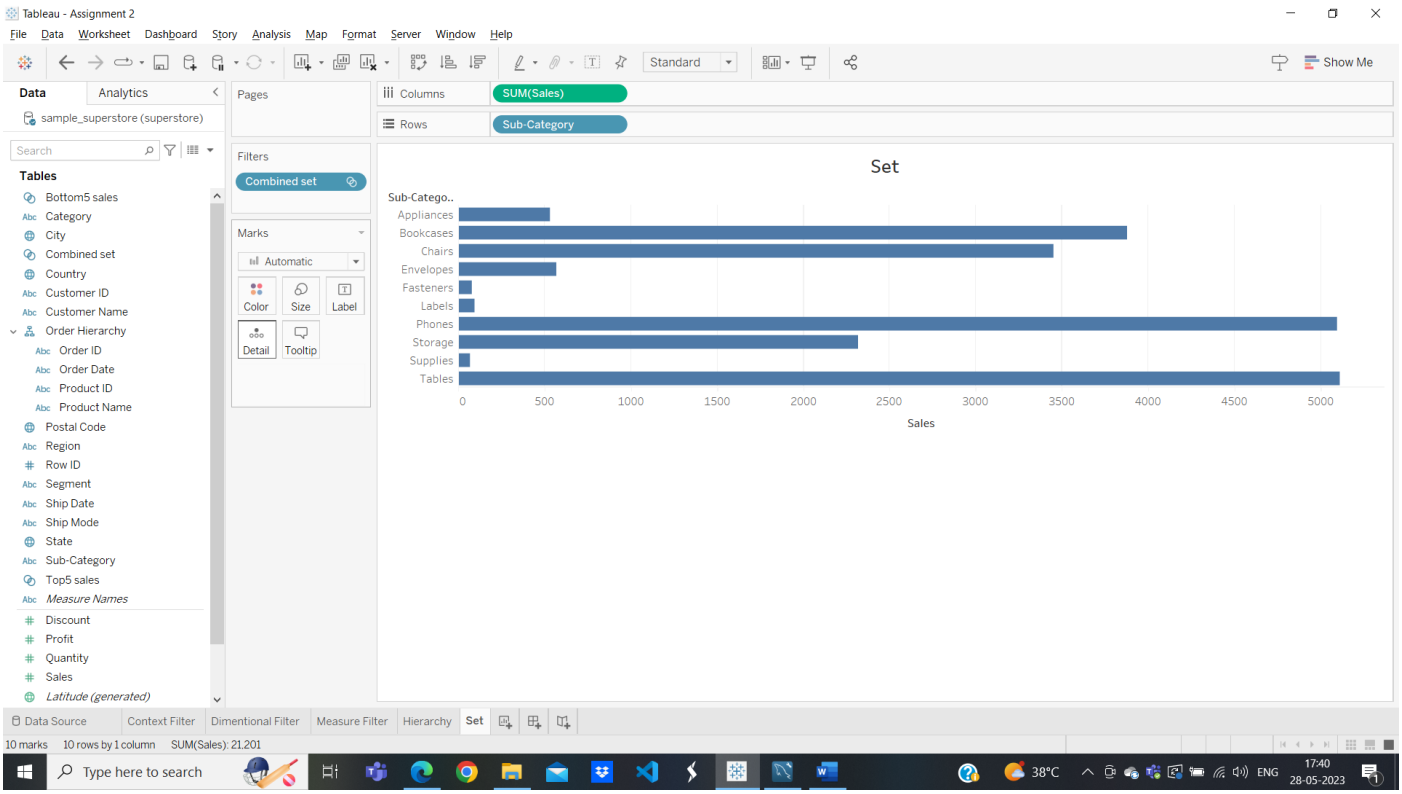
We combine both sets as Combined set.



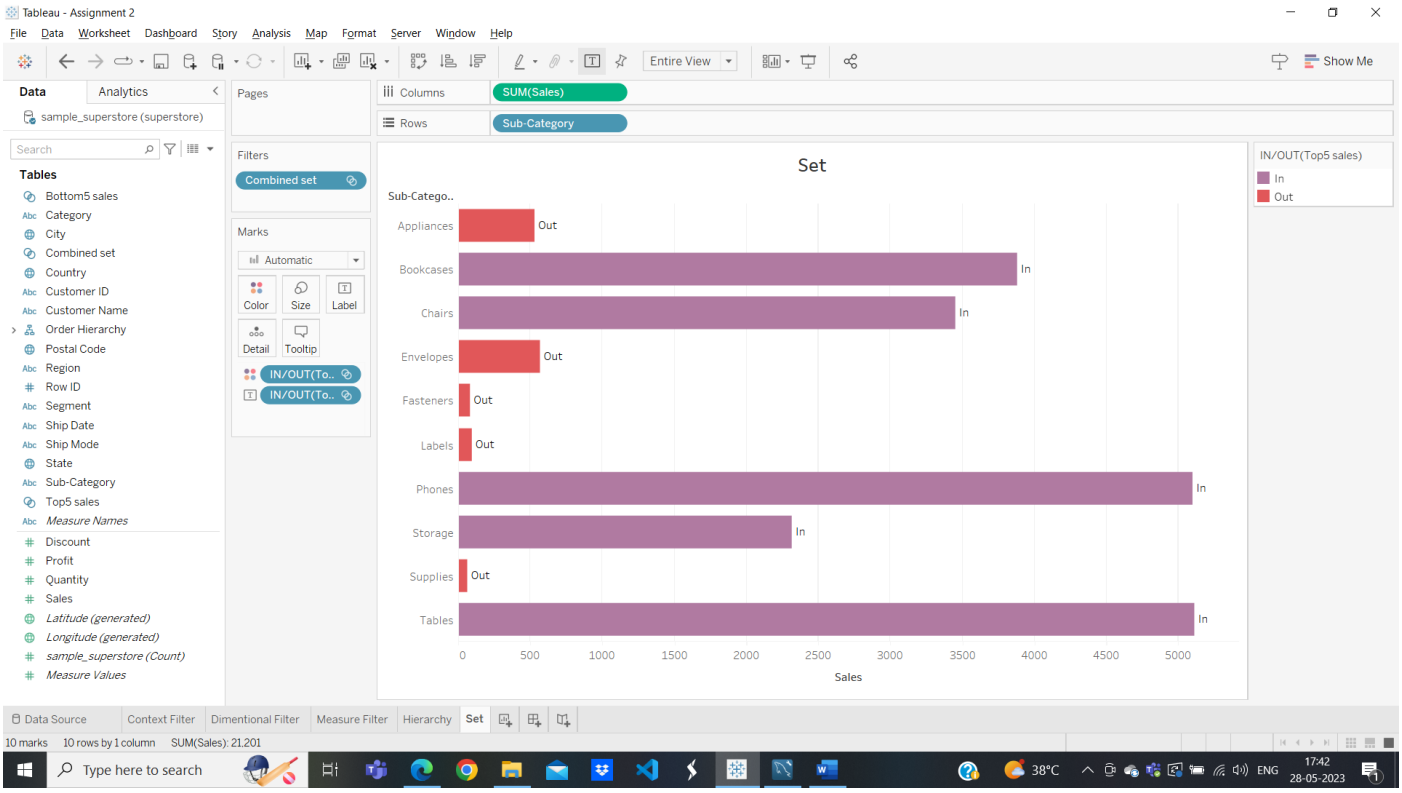
Now create plot by putting Sub category in rows and sales in columns



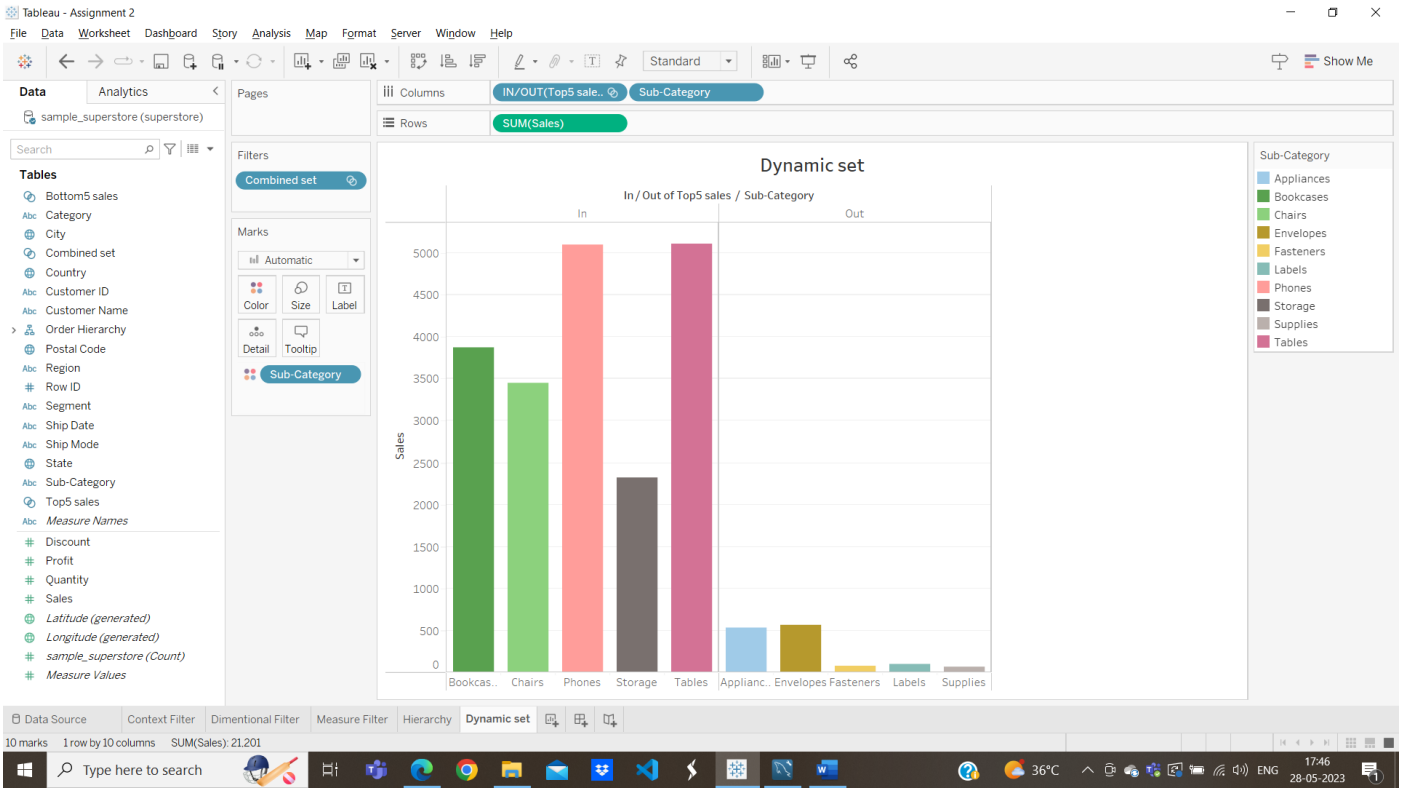
After this we put combined set in filters which filters out



After this we put top 5 in colors and text

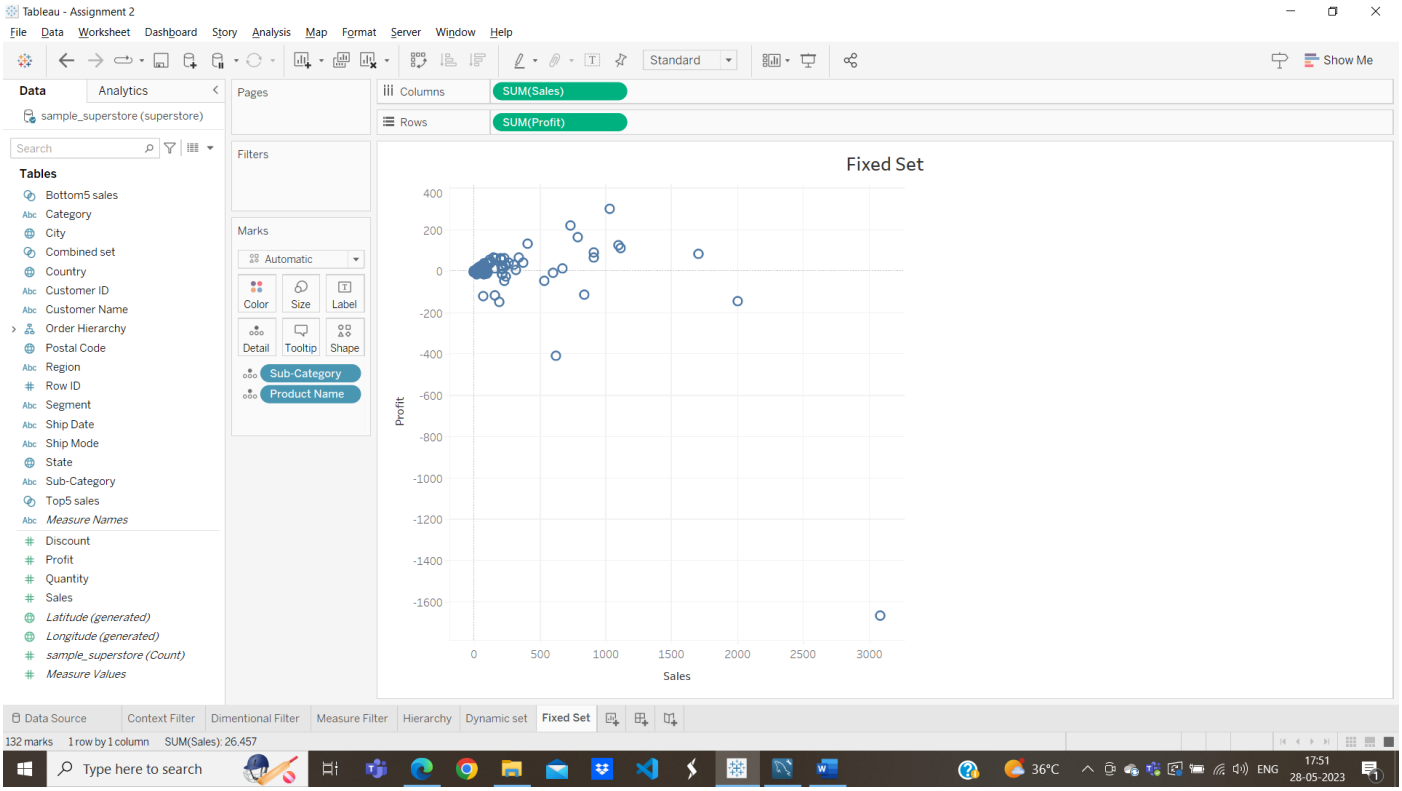


We can also analyse it using side by side bar charts

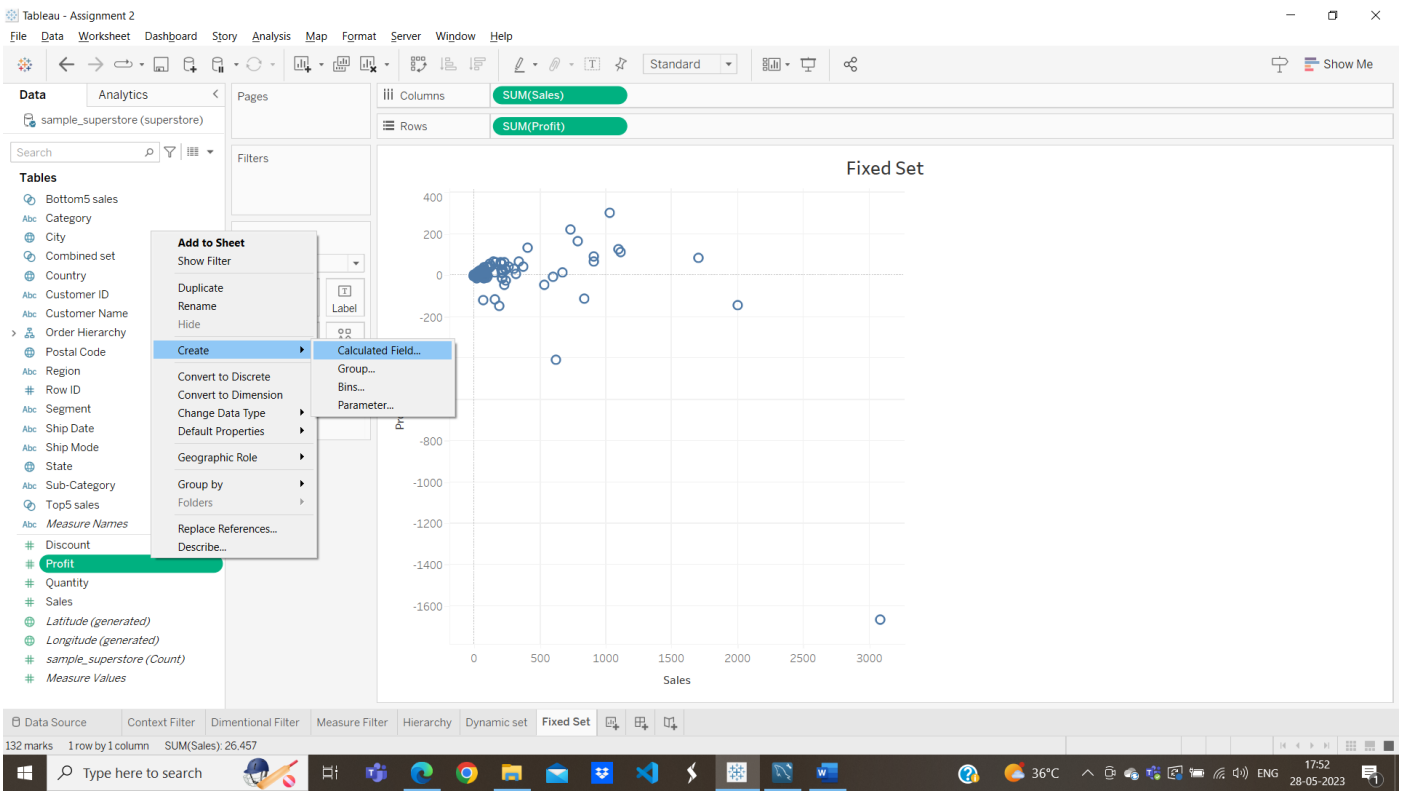


FIXED SET:

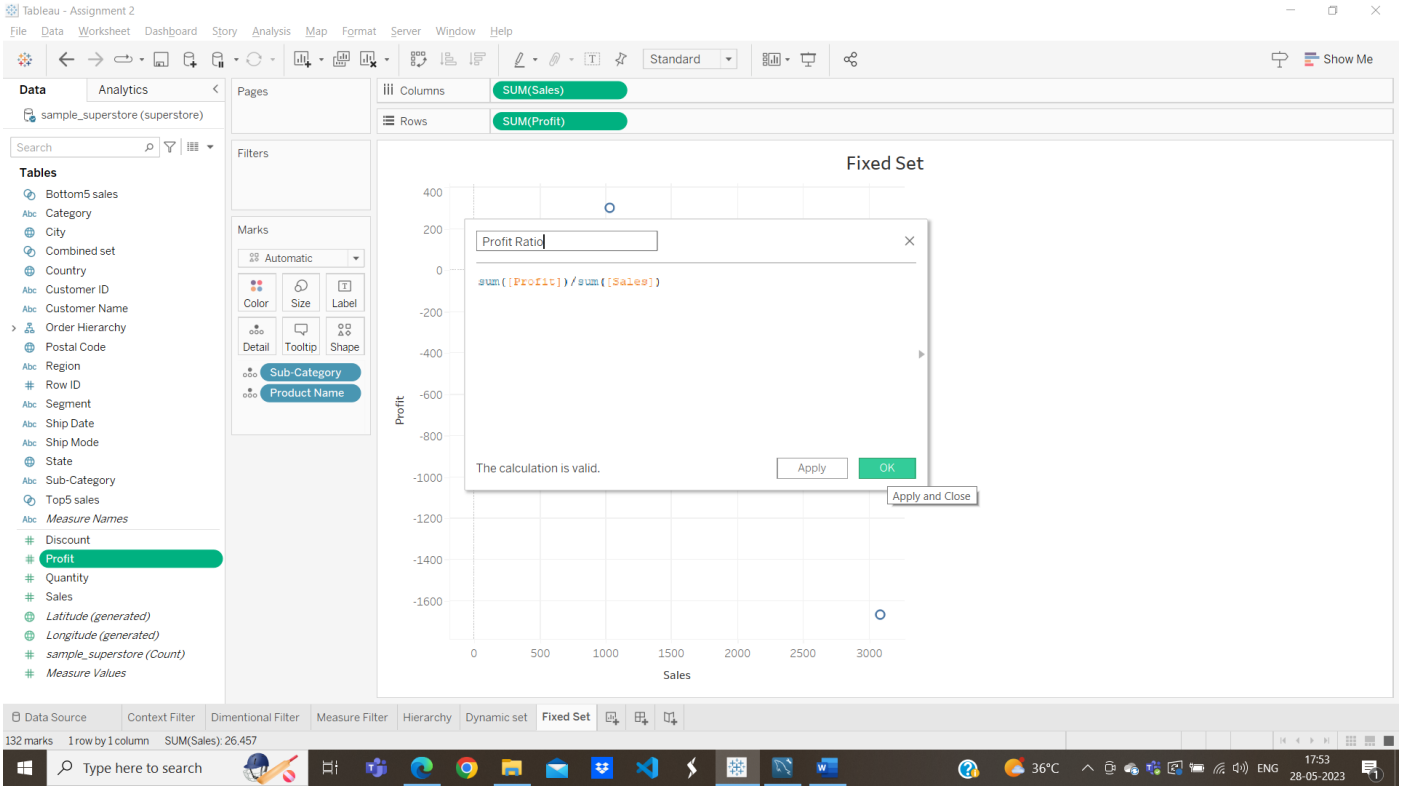
We take Sales and Profit as Columns and Row respectively and put sub category and Product name in detail. We here use SCATTER PLOT

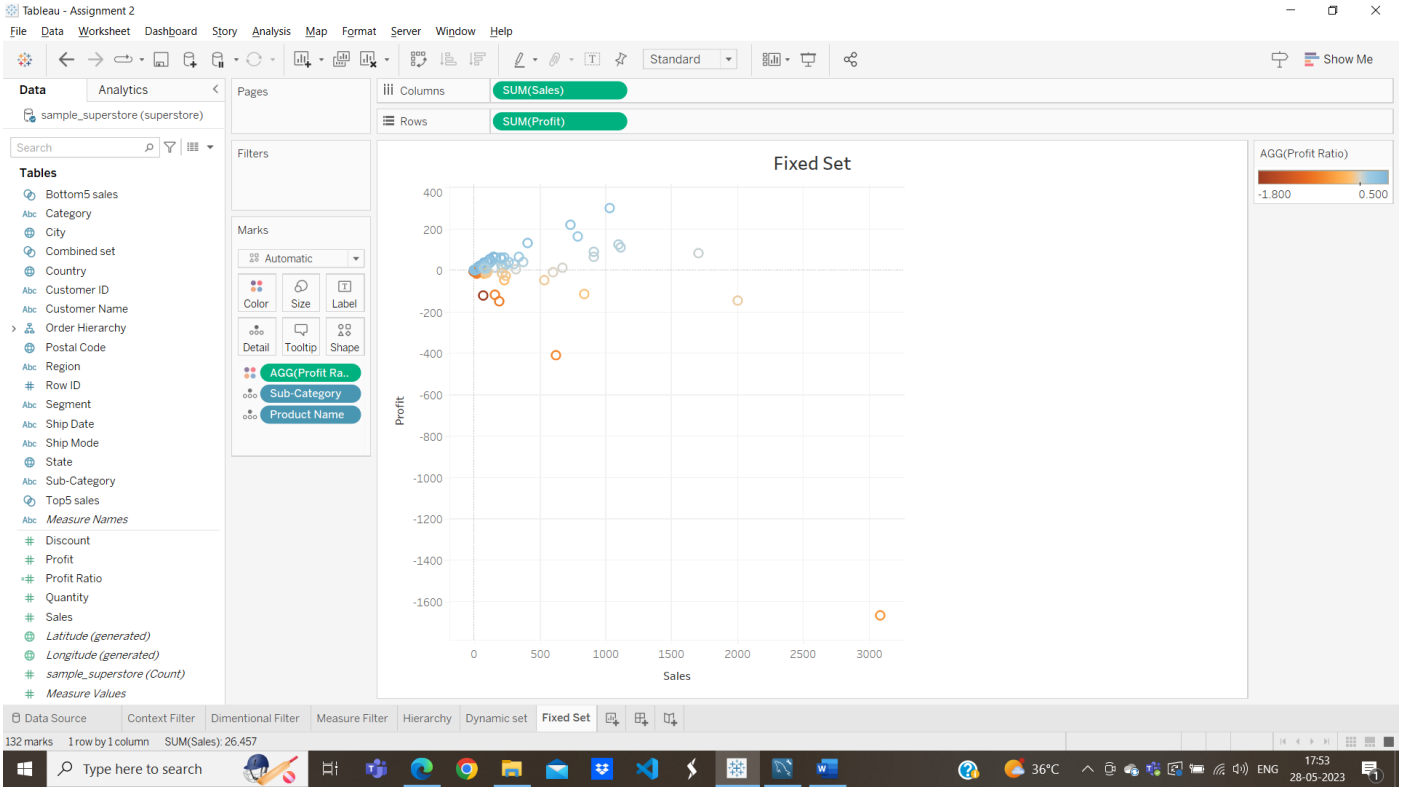


Now we create a calculated field



Now we do Profit ratio and put it in color:





FIXED SET:

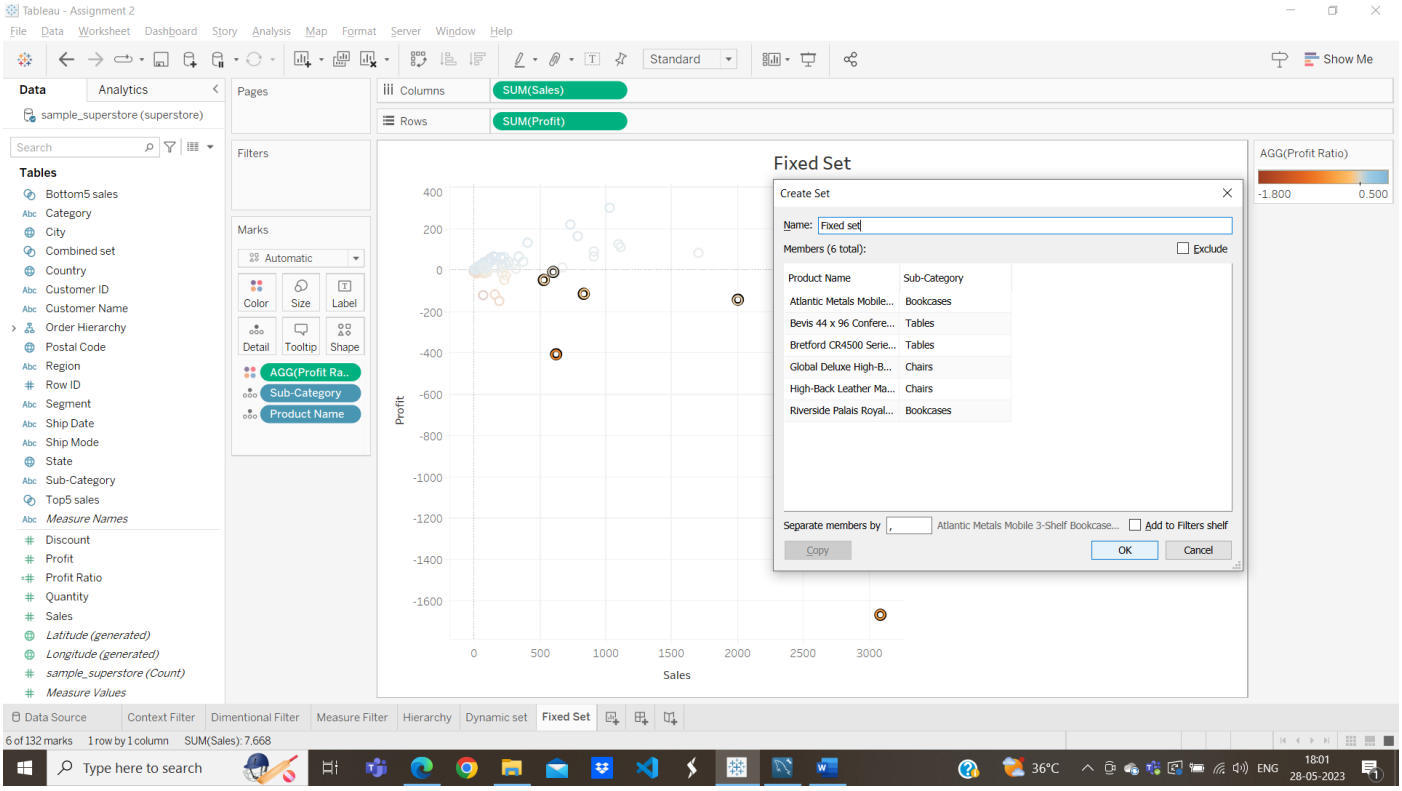
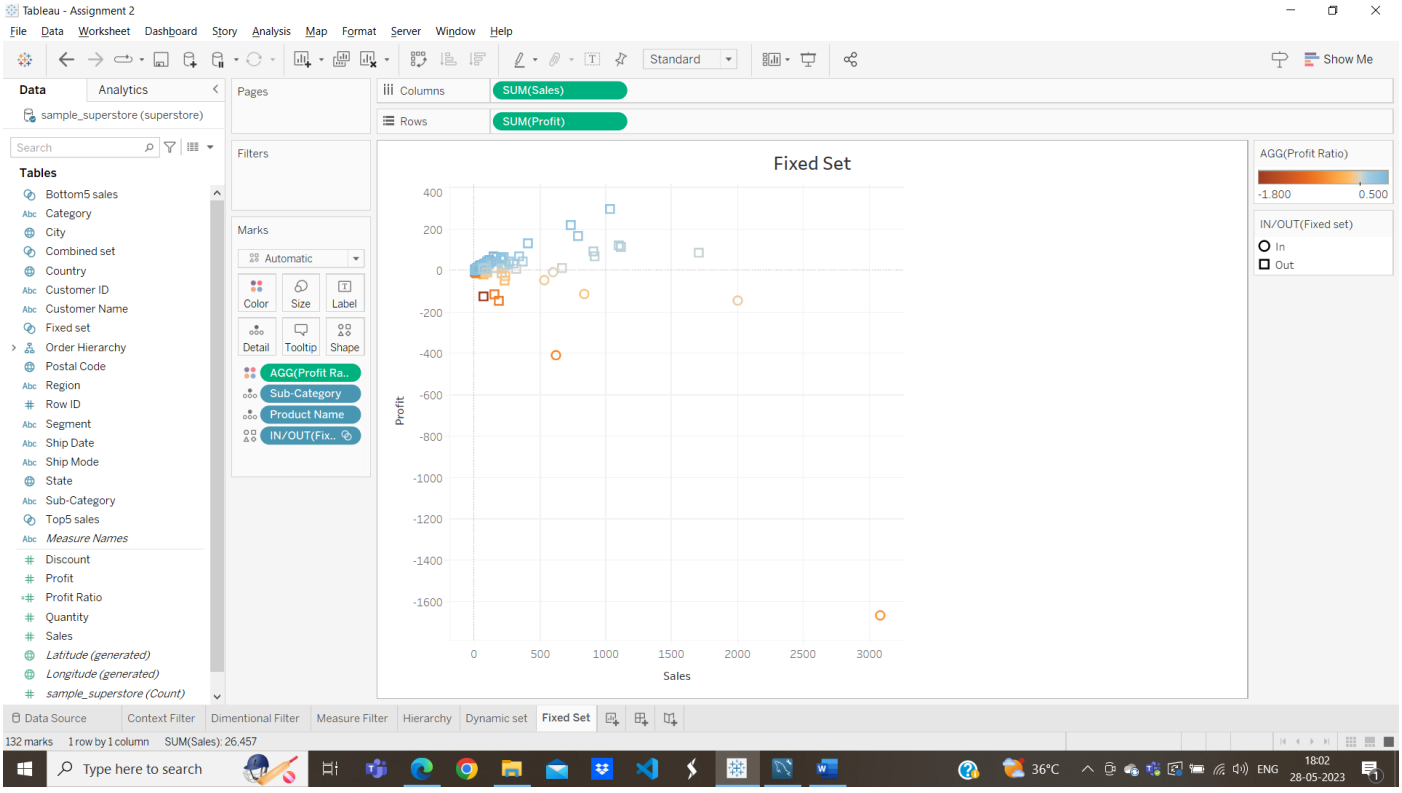


Tableau - Assignment 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
sample_superstore (superstore)
Search
Tables
Bottom5 sales
Category
City
Combined set
Country
Customer ID
Customer Name
Order Hierarchy
Postal Code
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Top5 sales
Measure Names
Discount
Profit
Profit Ratio
Quantity
Sales
Latitude (generated)
Longitude (generated)
sample_superstore (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Shape
AGG(Profit Ra..
Sub-Category
Product Name
Columns
SUM(Sales)
Rows
SUM(Profit)
Fixed Set
Create Set
Name: Fixed set
Members (6 total):
Exclude
Product Name
Sub-Category
Atlantic Metals Mobile...
Bookcases
Bevis 44 x 96 Confere...
Tables
Bretford CR4500 Serie...
Tables
Global Deluxe High-B...
Chairs
High-Back Leather Ma...
Chairs
Riverside Palais Royal...
Bookcases
Separate members by
Atlantic Metals Mobile 3-Shelf Bookcase...
Add to Filters shelf
Copy
OK
Cancel
AGG(Profit Ratio)
-1.800
0.500
Profit
Sales
Data Source
Context Filter
Dimentional Filter
Measure Filter
Hierarchy
Dynamic set
Fixed Set
6 of 132 marks
1 row by 1 column
SUM(Sales): 7.668
Type here to search
36°C
ENG
18:01
28-05-2023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Standard
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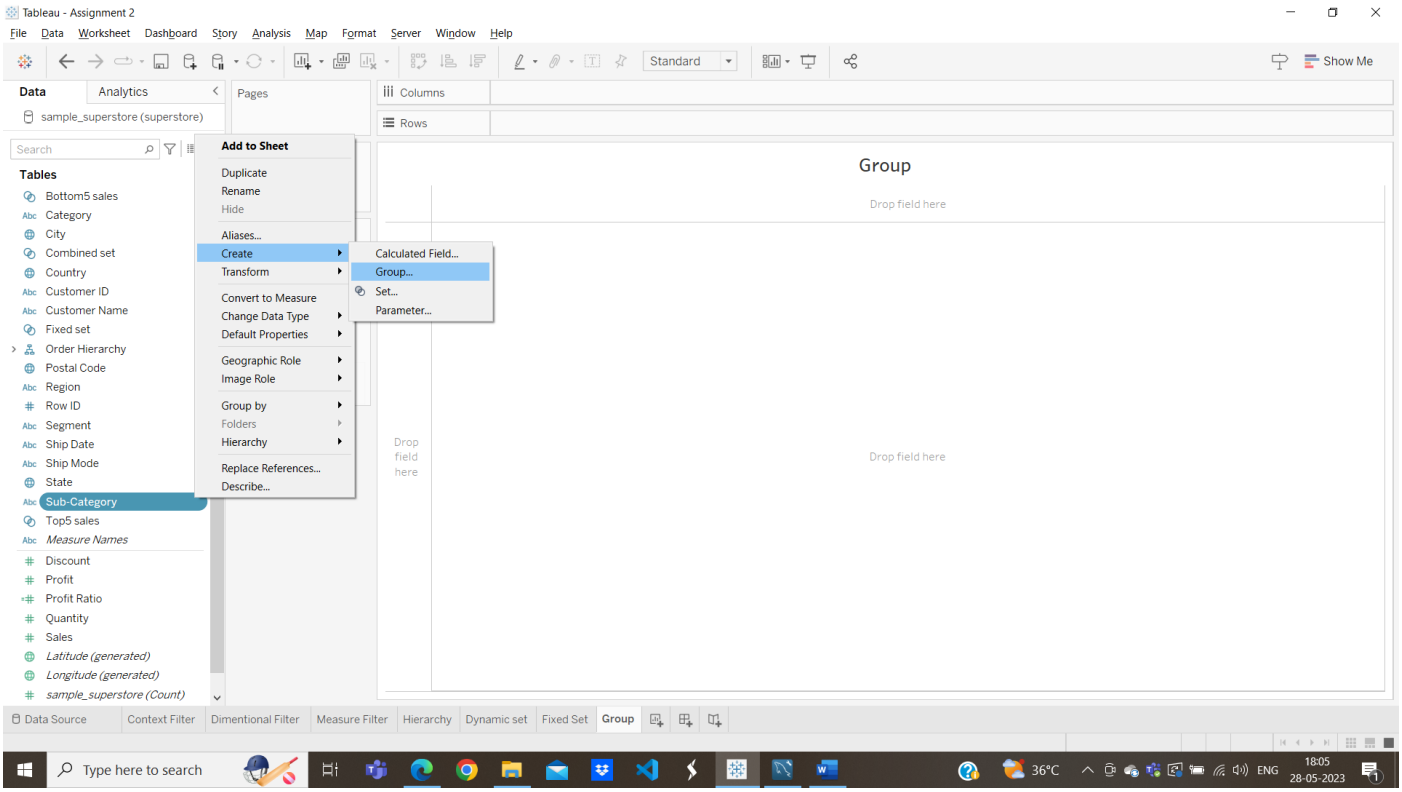
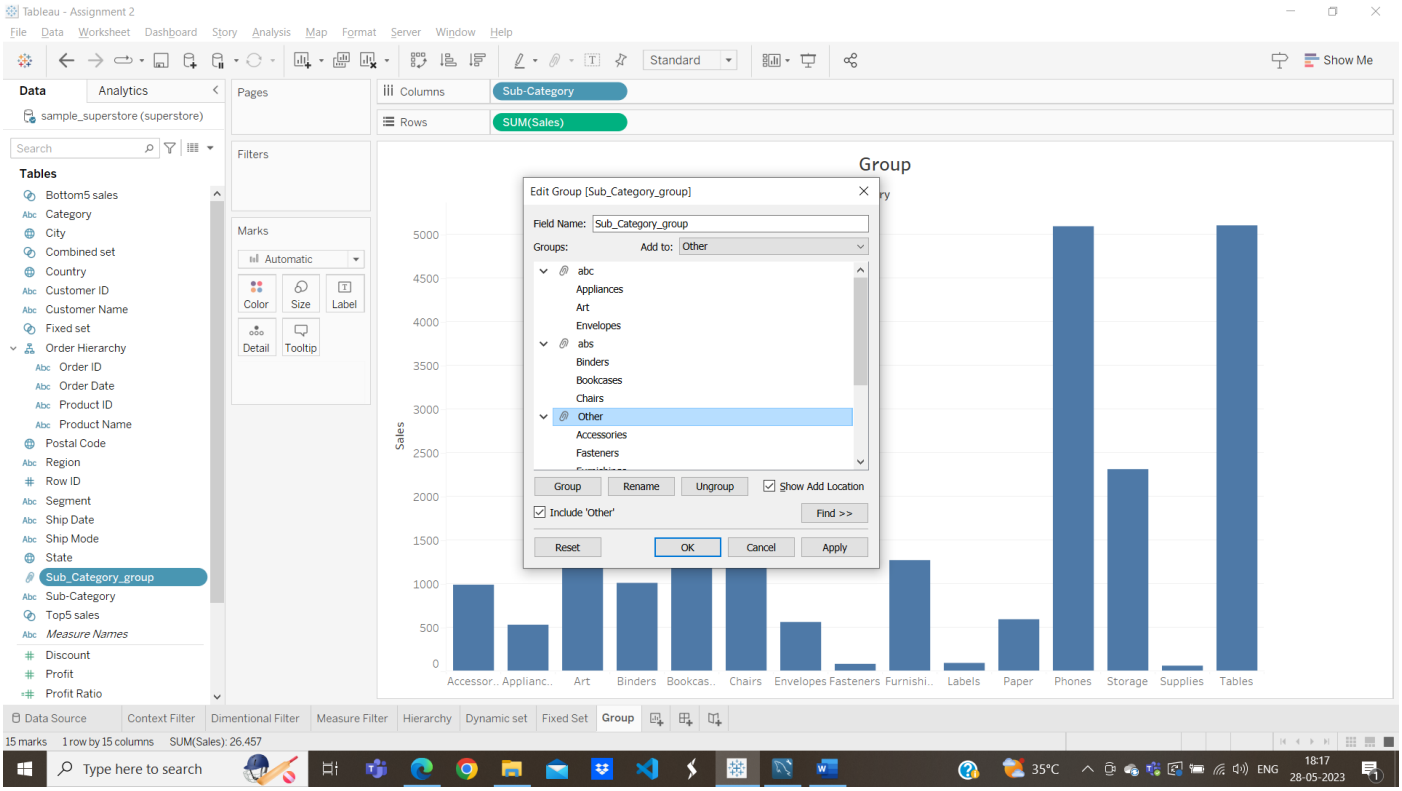
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Shape
AGG(Profit Ra..
Sub-Category
Product Name
IN/OUT(Fix..
Columns
SUM(Sales)
Rows
SUM(Profit)
Fixed Set
AGG(Profit Ratio)
-1.800
0.500
IN/OUT(Fixed set)
In
Out
Profit
Sales
Data Source
Context Filter
Dimentional Filter
Measure Filter
Hierarchy
Dynamic set
Fixed Set
132 marks
1 row by 1 column
SUM(Sales): 26.457
Type here to search
36°C
ENG
18:02
28-05-2023

- create a group



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



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