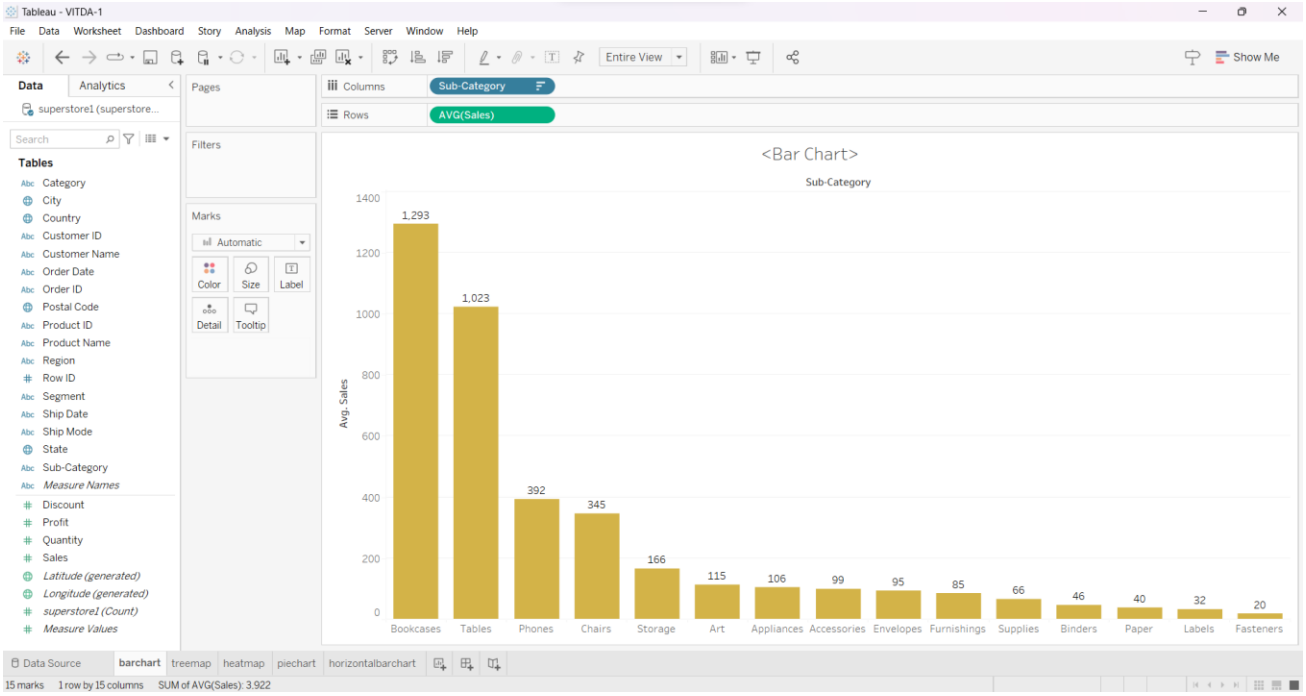
Name: kanugo Krishna Ganesh

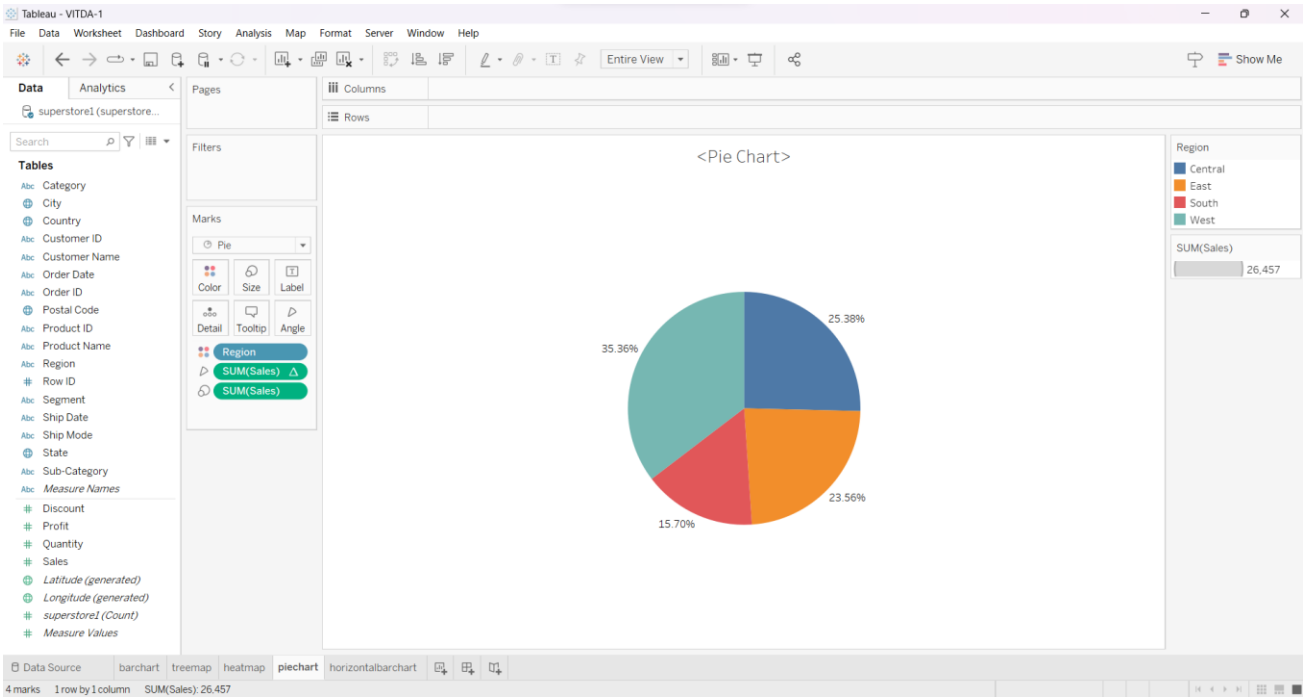
Data Analytics – Assignment – 02

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

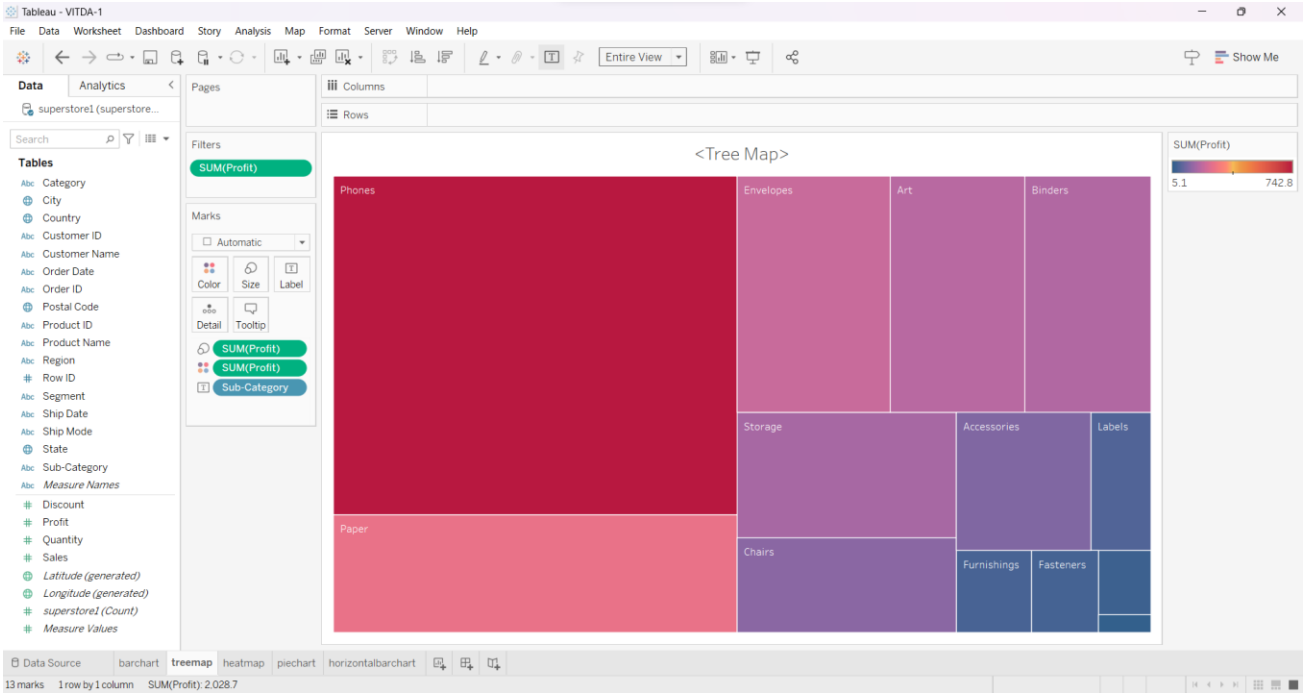
- **Bar chart:** Average of Sales for each Sub-Category.



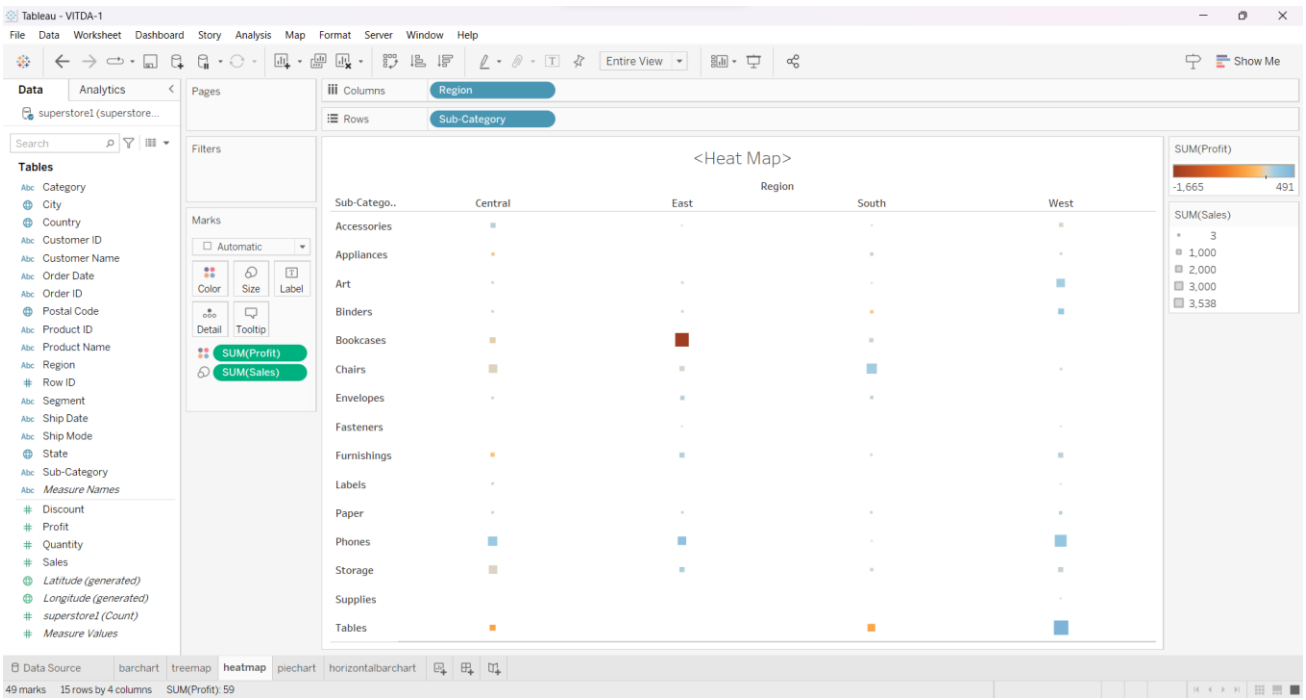
- **Pie chart:** Region (colour) and sum of Sales (size).



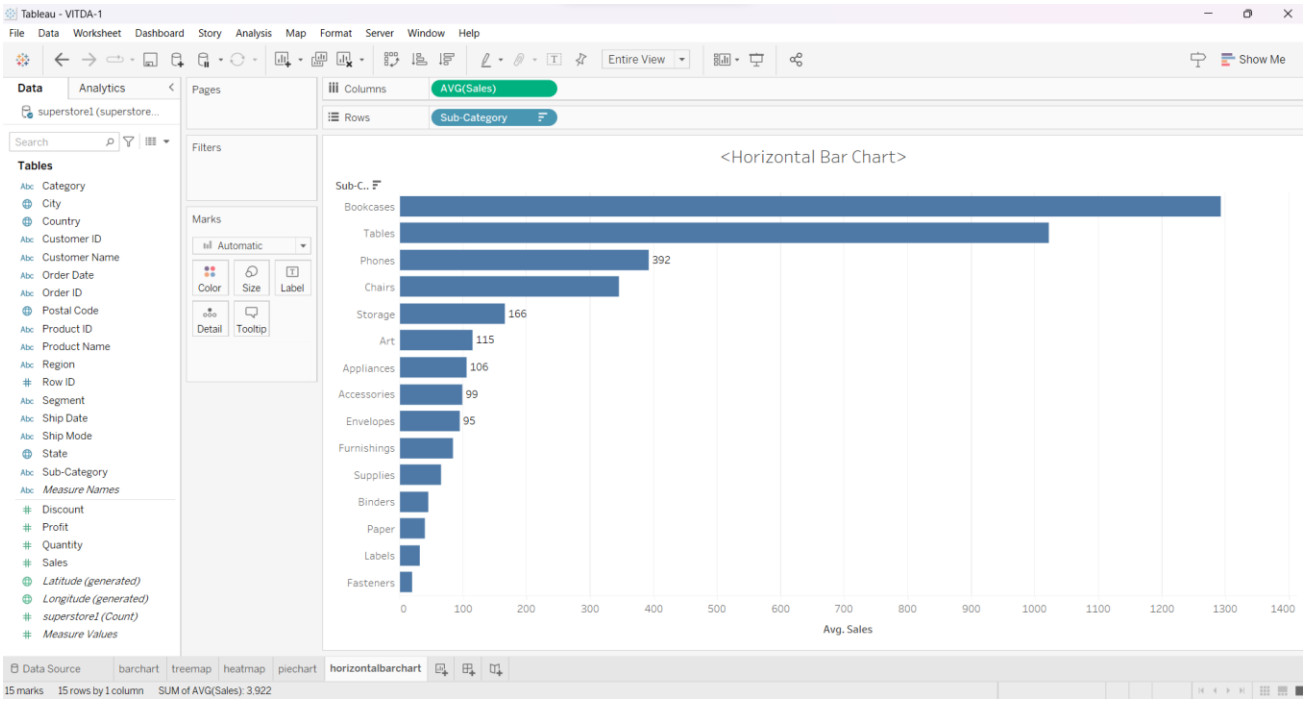
● **Tree map :** Sub-Category. Colour shows sum of Profit. Size shows sum of Profit. The marks are labelled by Sub-Category. The view is filtered on sum of Profit, which includes greater than and or equal to 0.0 and keeps Null values.



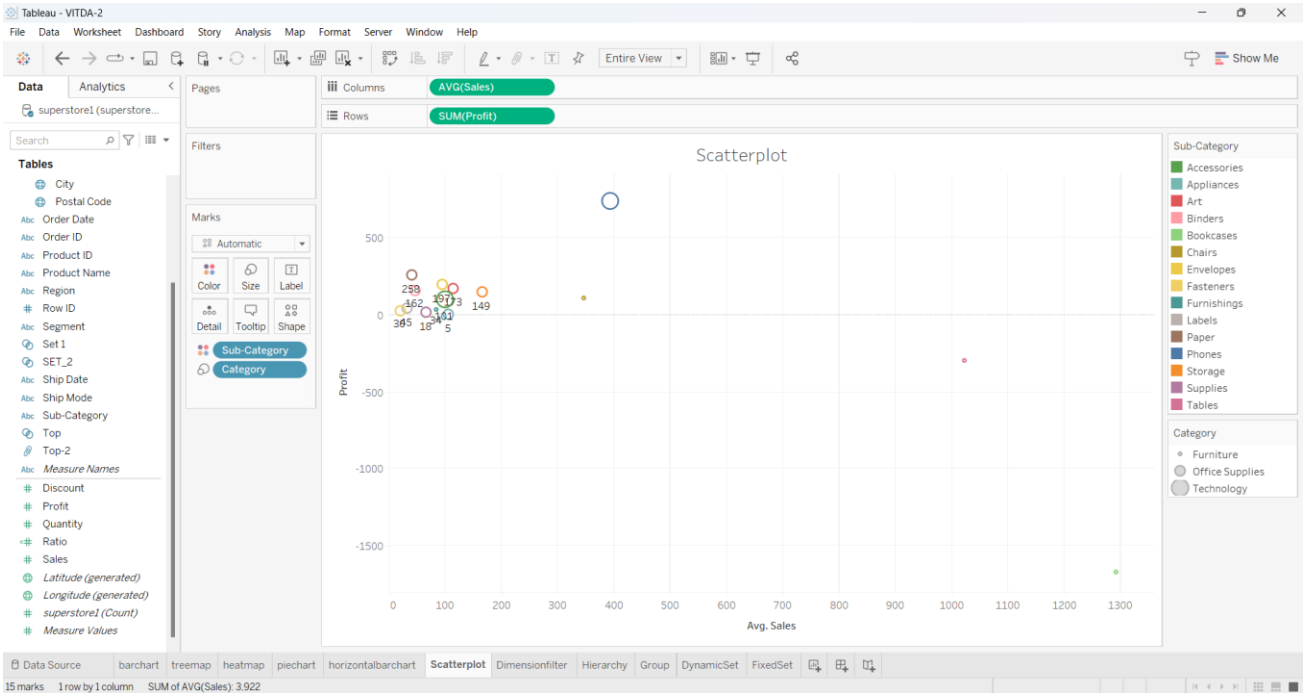
● **Heatmap:** Sum of Profit (colour) and sum of Sales (size) broken down by Region vs. Sub-Category.



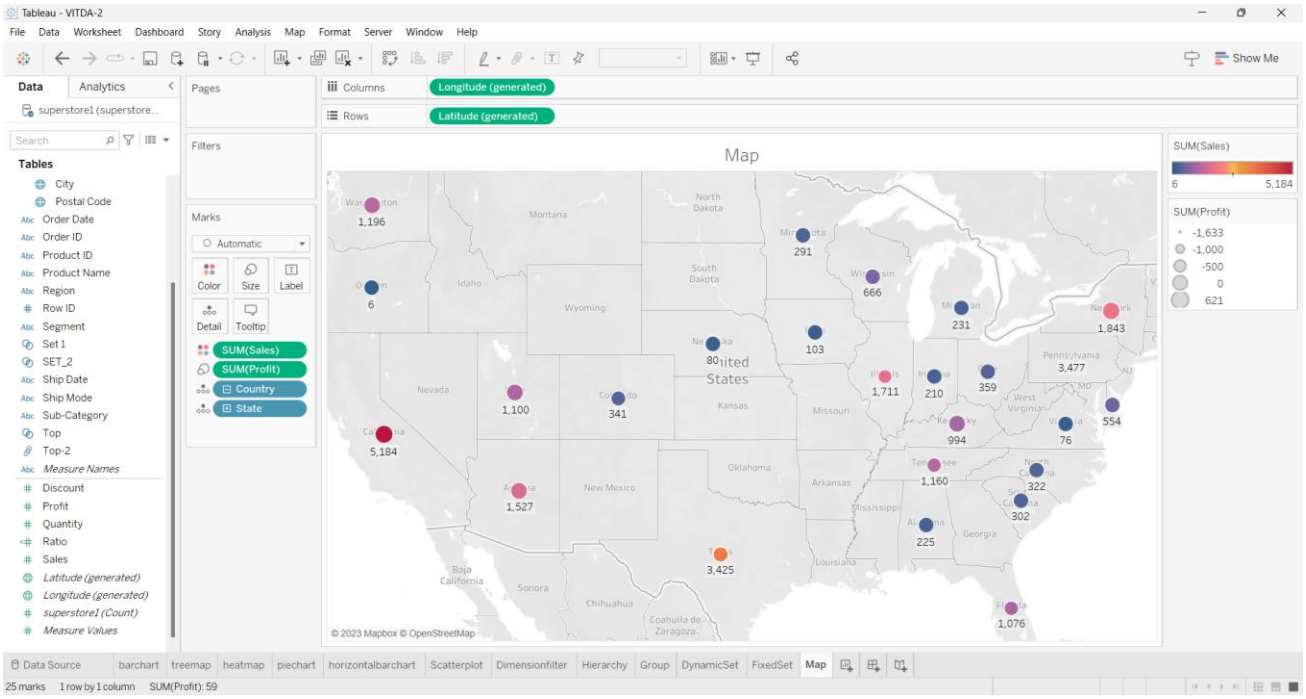
- **Horizontal bar chart:** Average of Sales for each Sub-Category.



- **Scatter plot:** Average of Sales vs. sum of Profit. Colour shows details about Sub-Category. Size shows details about Category.

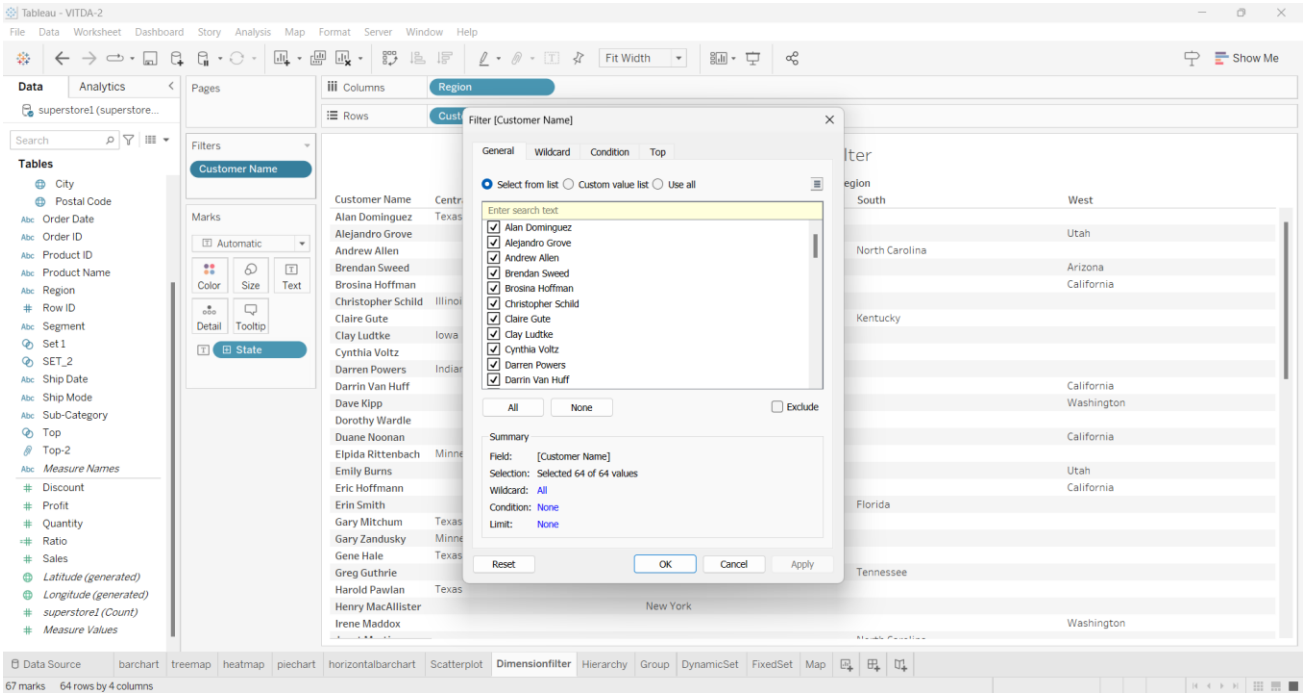


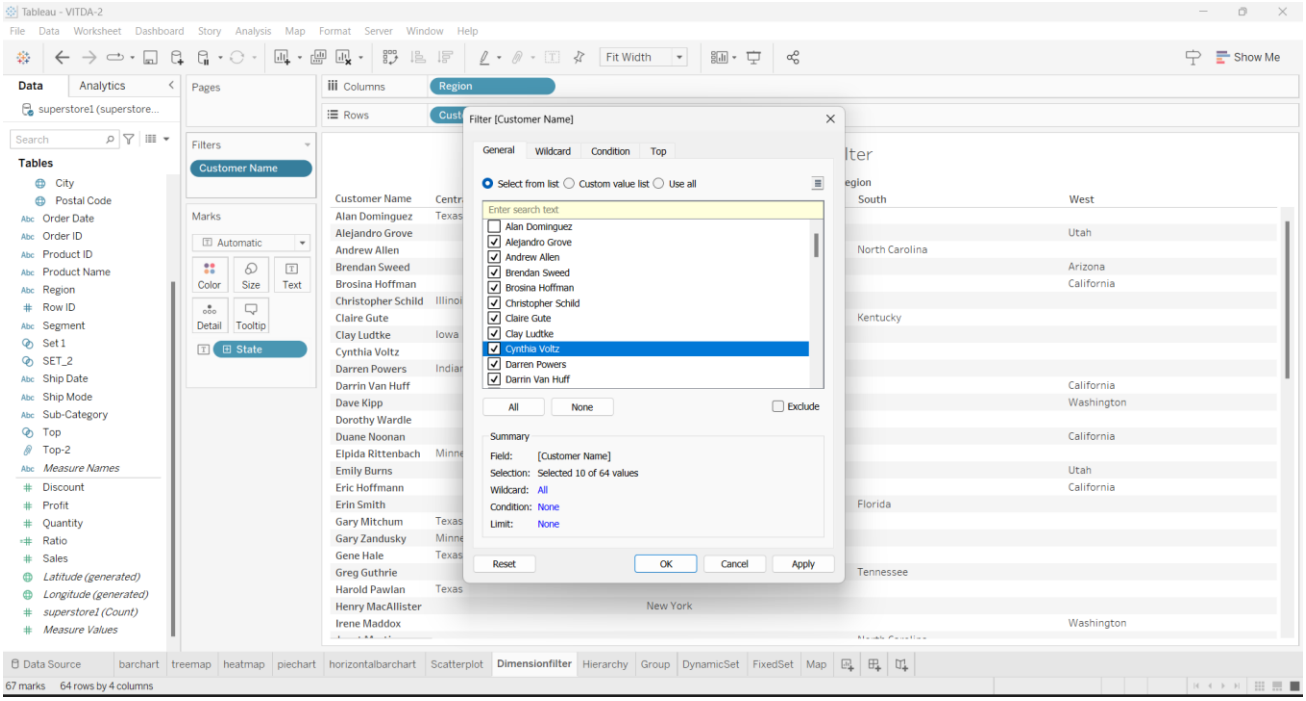
- **Map:** Map based on Longitude (generated) and Latitude (generated). Colour shows sum of Sales. Size shows sum of Profit. Details are shown for Country and State.

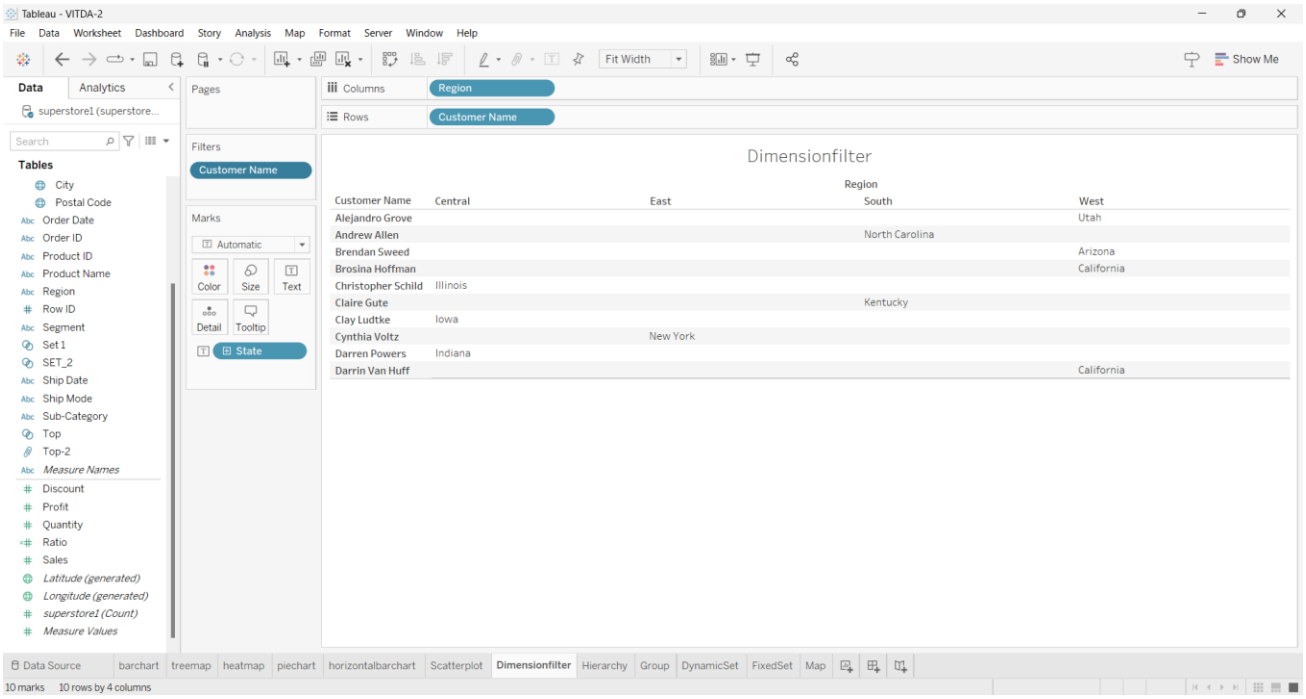


2) Apply dimension filter, context and measure filter on any of the three Visualizations

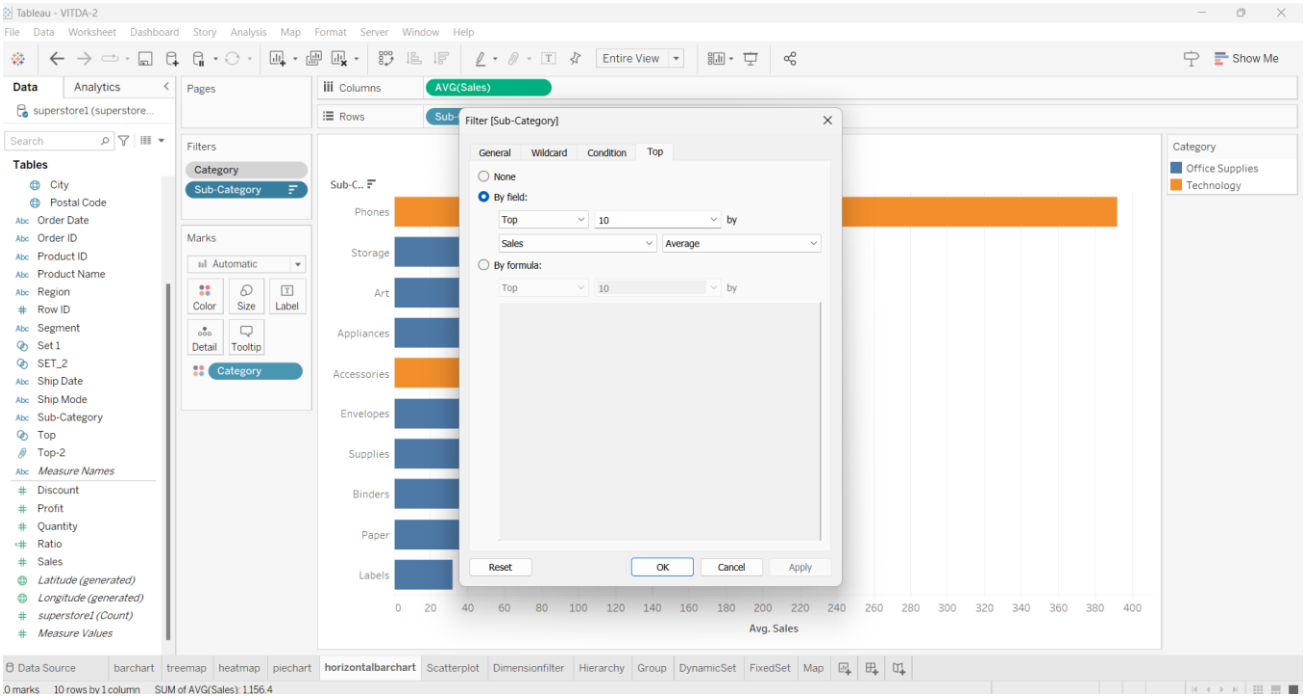
Dimension Filter: State broken down by Region vs. Customer Name. The view is filtered on Customer Name, which keeps 10 members.







Context Filter: Average of Sales for each Sub-Category. Colour shows details about Category. The context is filtered on Category, which excludes Furniture and Null. The view is filtered on Sub-Category, which has multiple members selected.



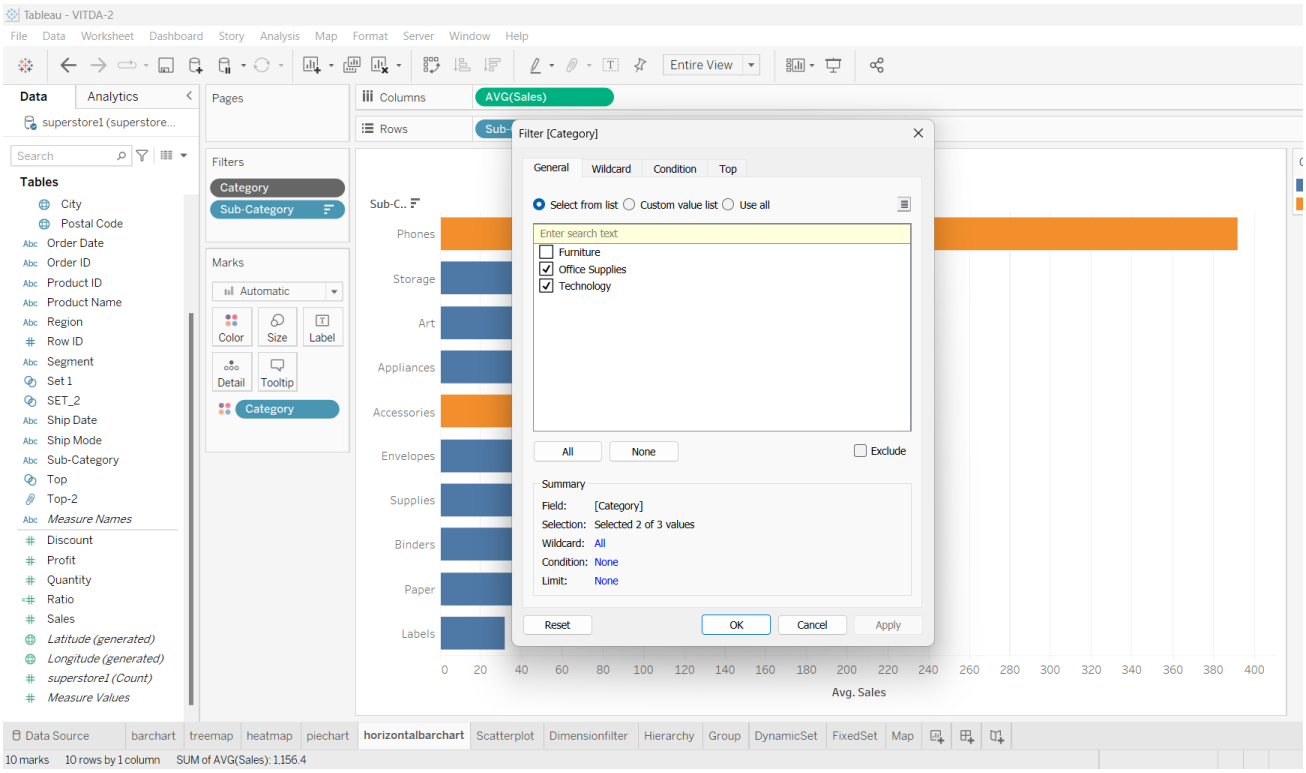


Tableau - VITDA-2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Data
Analytics
superstore1 (superstore...
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Tables
City
Postal Code
Order Date
Order ID
Product ID
Product Name
Region
Row ID
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Set 1
SET_2
Ship Date
Ship Mode
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Top
Top-2
Measure Names
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Profit
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Ratio
Sales
Latitude (generated)
Longitude (generated)
superstore1 (Count)
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Category
Sub-Category
Marks
Automatic
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Size
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Accessories
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Supplies
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Filter [Category]
General
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Condition
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Select from list
Custom value list
Use all
Enter search text
Furniture
Office Supplies
Technology
All
None
Exclude
Summary
Field: [Category]
Selection: Selected 2 of 3 values
Wildcard: All
Condition: None
Limit: None
Reset
OK
Cancel
Apply
Data Source
barchart
treemap
heatmap
piechart
horizontalbarchart
Scatterplot
Dimensionfilter
Hierarchy
Group
DynamicSet
FixedSet
Map
10 marks
10 rows by 1 column
SUM of AVG(Sales): 1,156.4

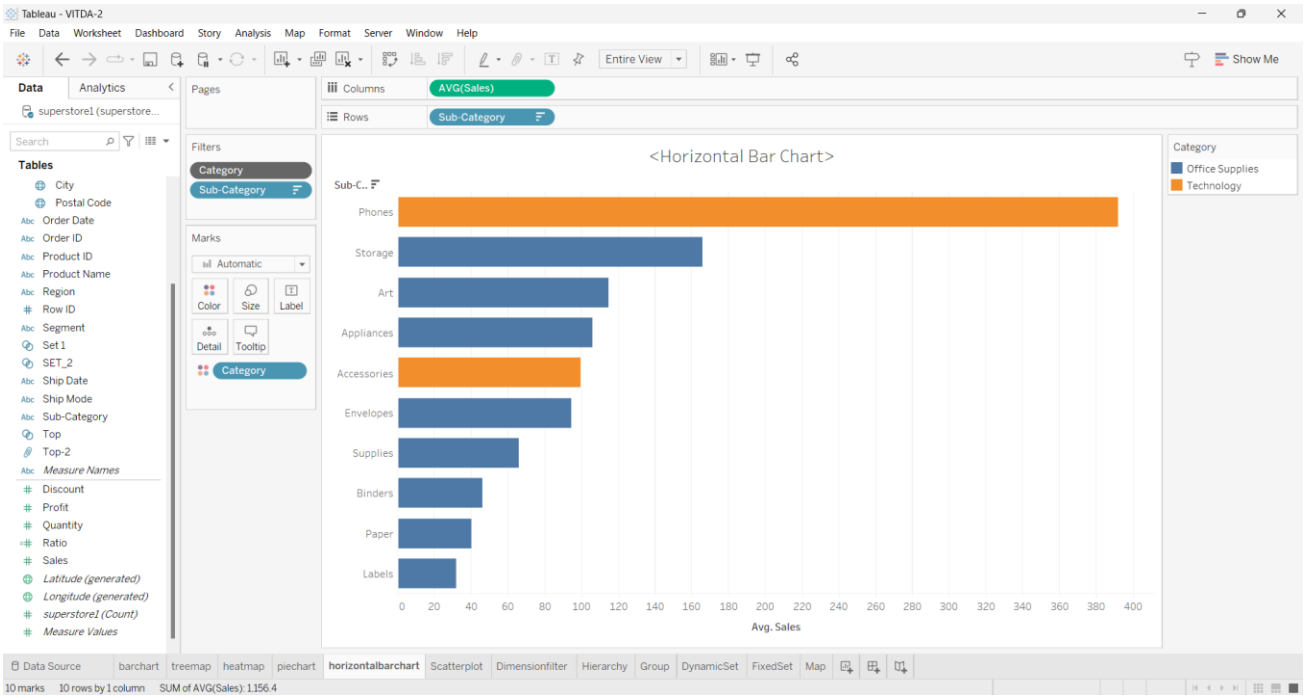
Tableau - VITDA-2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
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superstore1 (superstore...
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City
Postal Code
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Order ID
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Product Name
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Ship Date
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Sub-Category
Top
Top-2
Measure Names
Discount
Profit
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Ratio
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Latitude (generated)
Longitude (generated)
superstore1 (Count)
Measure Values
Pages
Filters
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Sub-Category
Marks
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Color
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Tooltip
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Columns
AVG(Sales)
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Sub-Category
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Phones
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Art
Appliances
Accessories
Envelopes
Supplies
Binders
Paper
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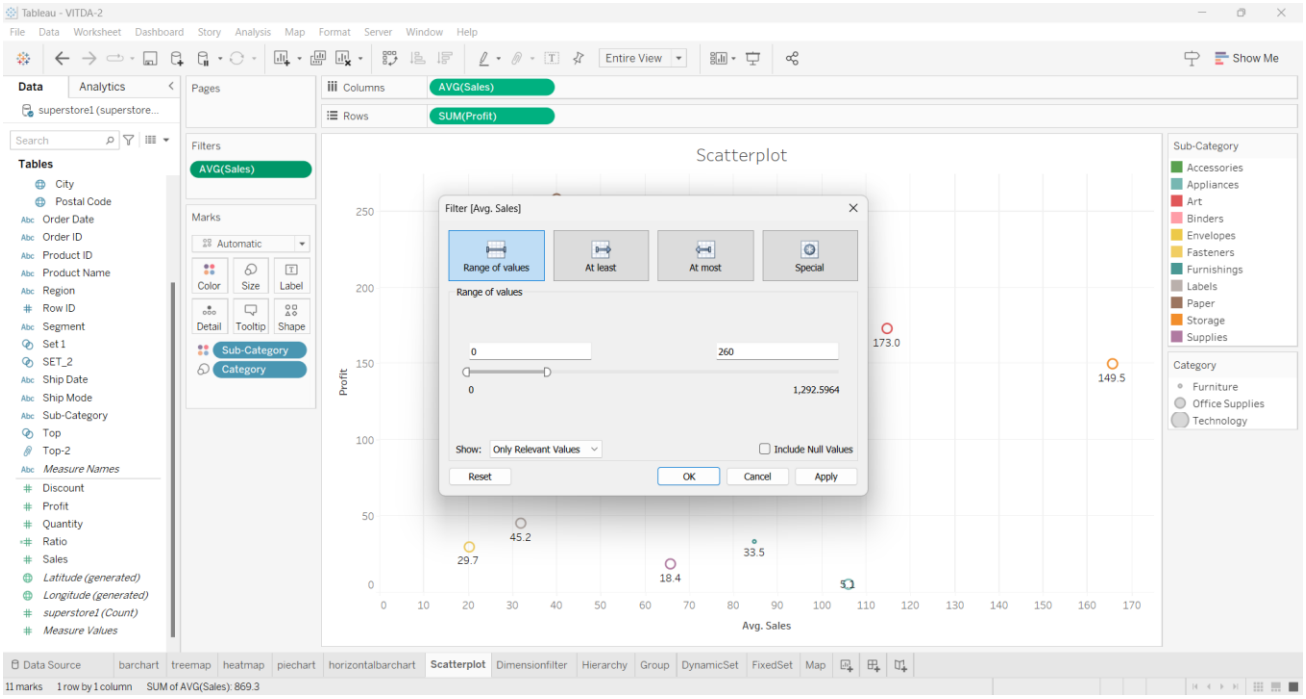
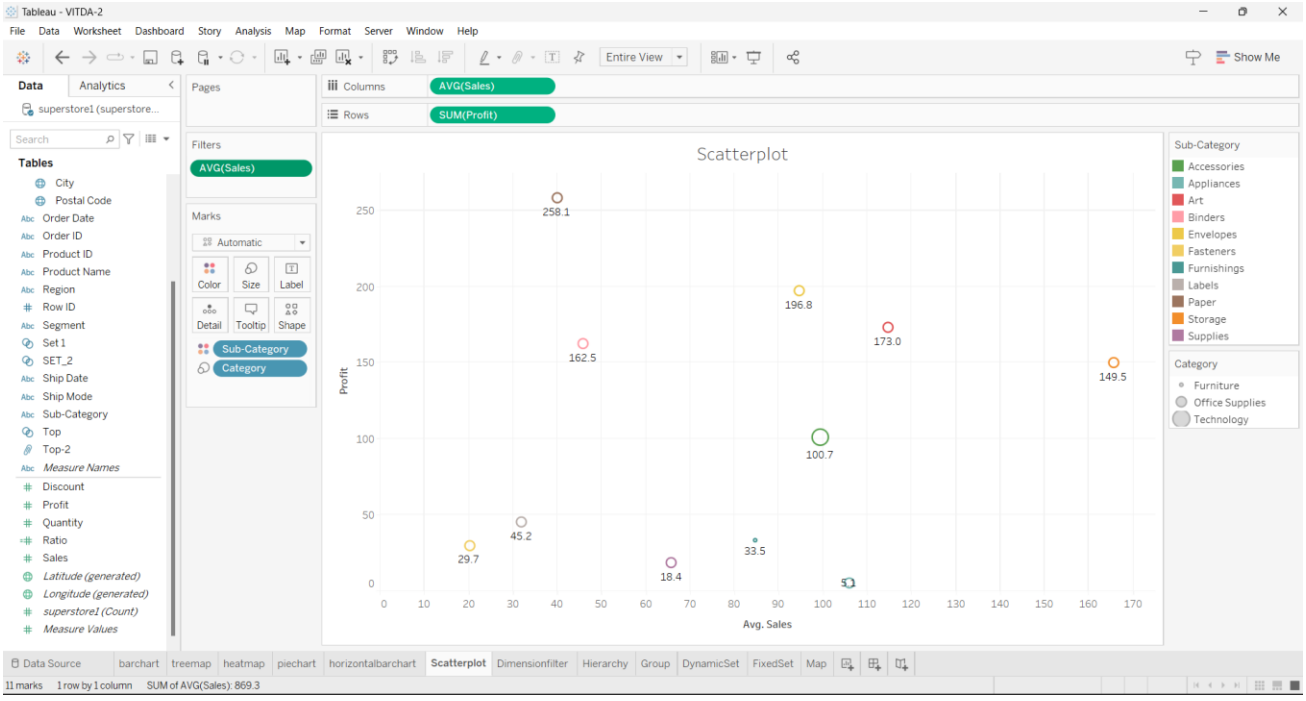
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400
Avg. Sales
Category
Office Supplies
Technology
Data Source
barchart
treemap
heatmap
piechart
horizontalbarchart
Scatterplot
Dimensionfilter
Hierarchy
Group
DynamicSet
FixedSet
Map
10 marks
10 rows by 1 column
SUM of AVG(Sales): 1,156.4

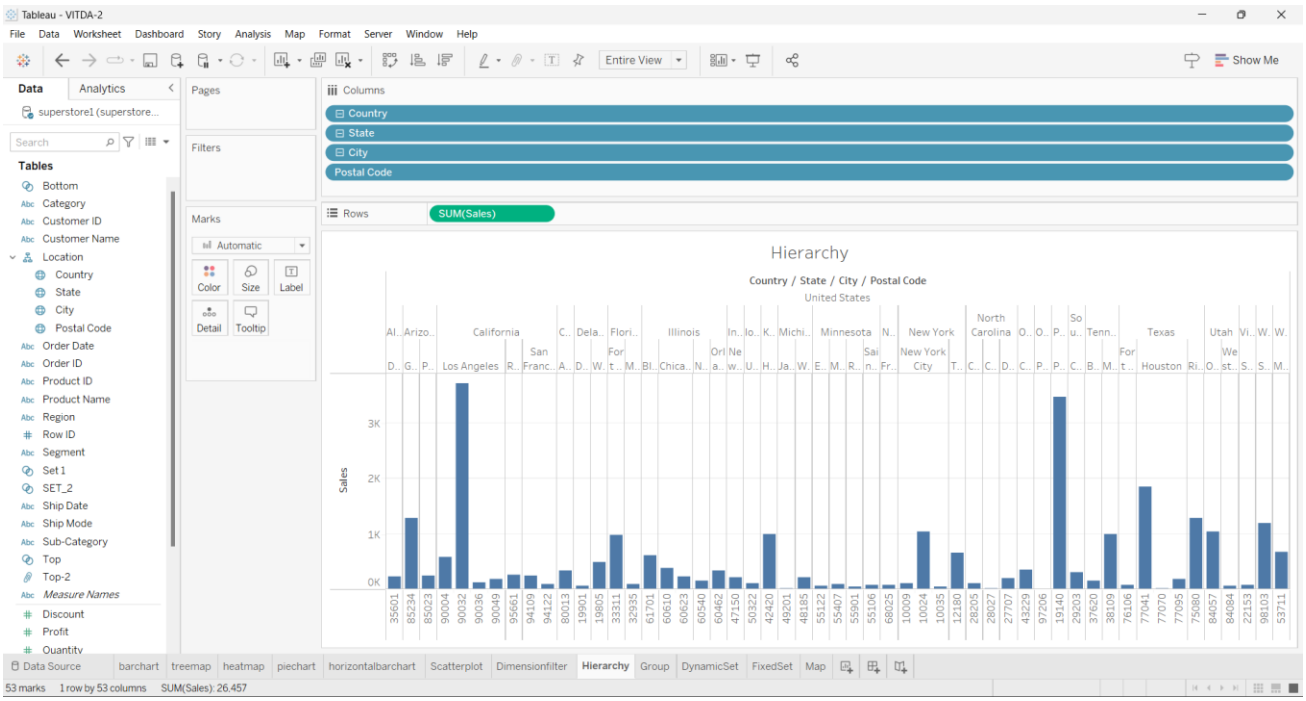
Measure Filter: Average of Sales vs. sum of Profit. Colour shows details about Sub-Category. Size shows details about Category. The view is filtered on average of Sales, which ranges from 0.0 to 260.0.





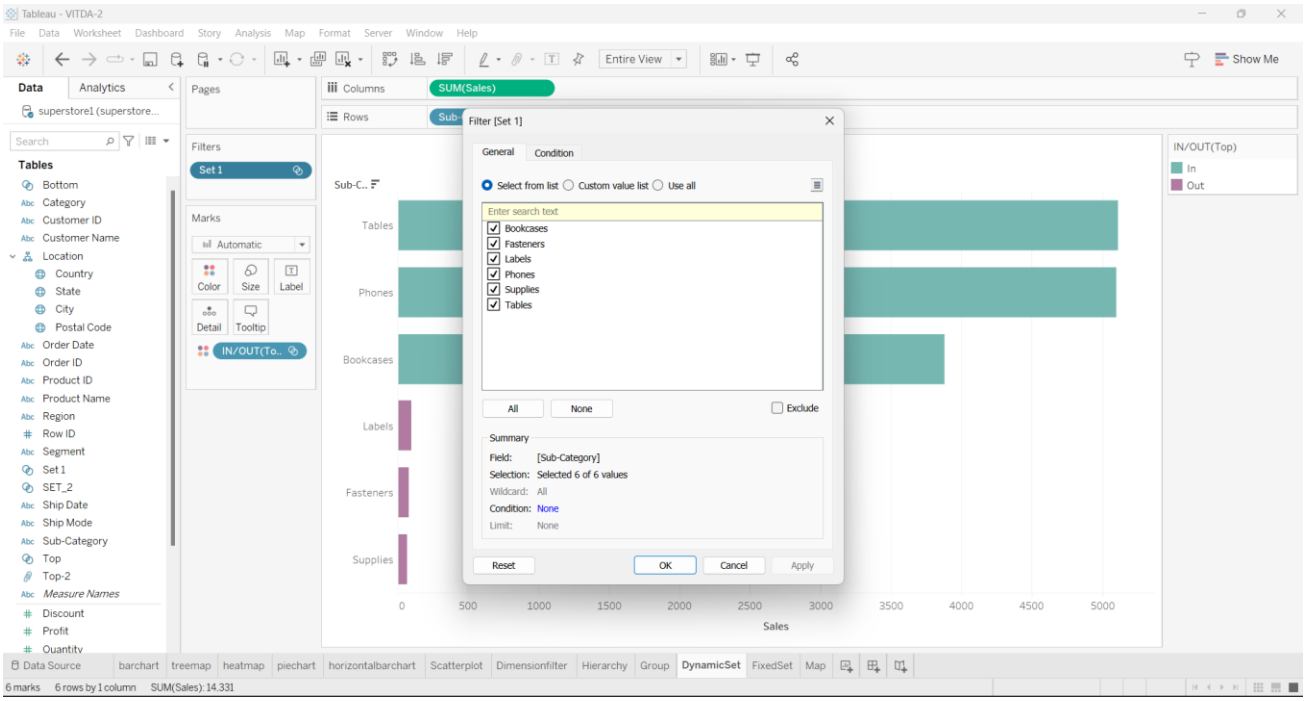
3) Perform the following data manipulations on your dataset

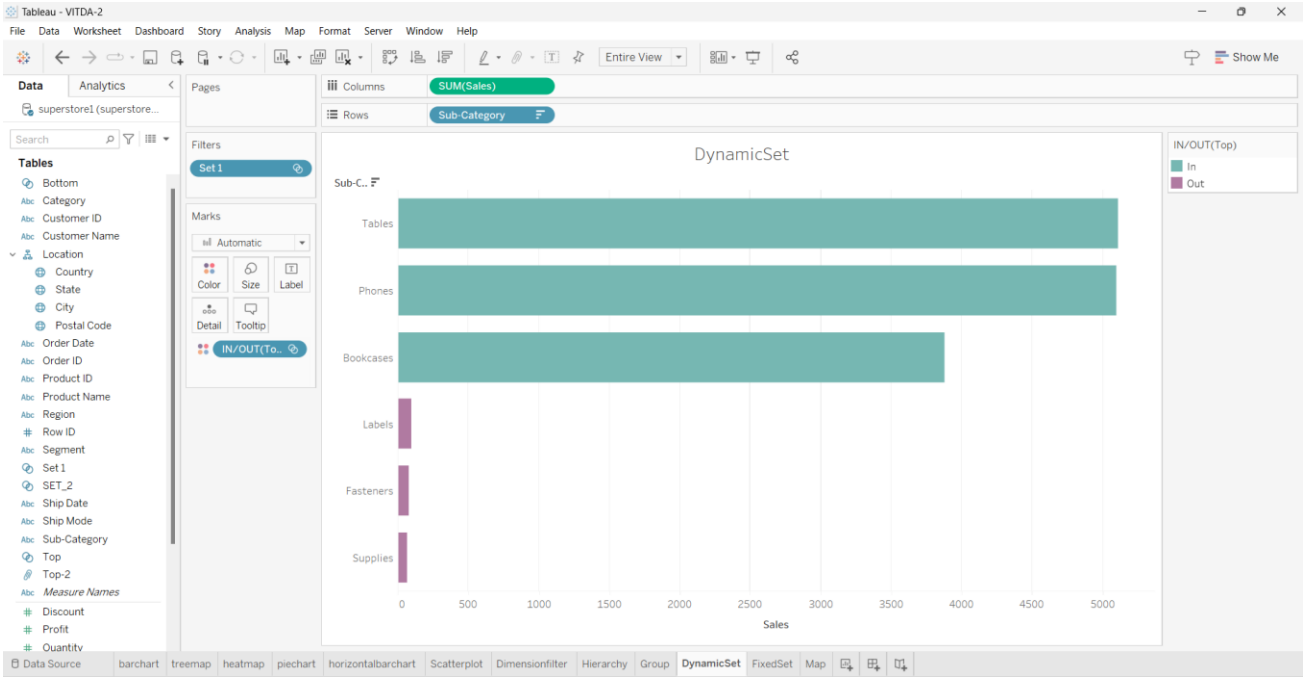
● **create a Hierarchy:** Sum of Sales for each Postal Code broken down by Country, State and City which is a location hierarchy



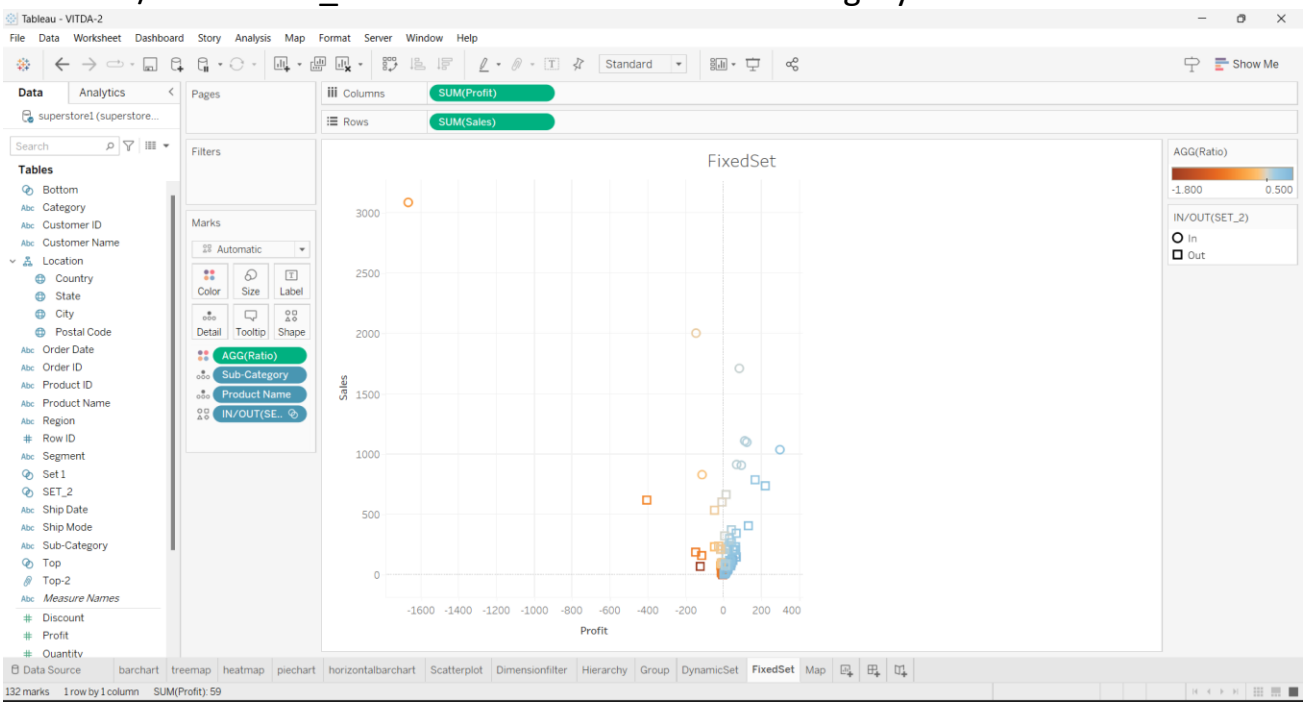
● **create a set**

Dynamic Set: Sum of Sales for each Sub-Category. Colour shows details about In / Out of Top. The data is filtered on Set 1, which keeps 6 members.



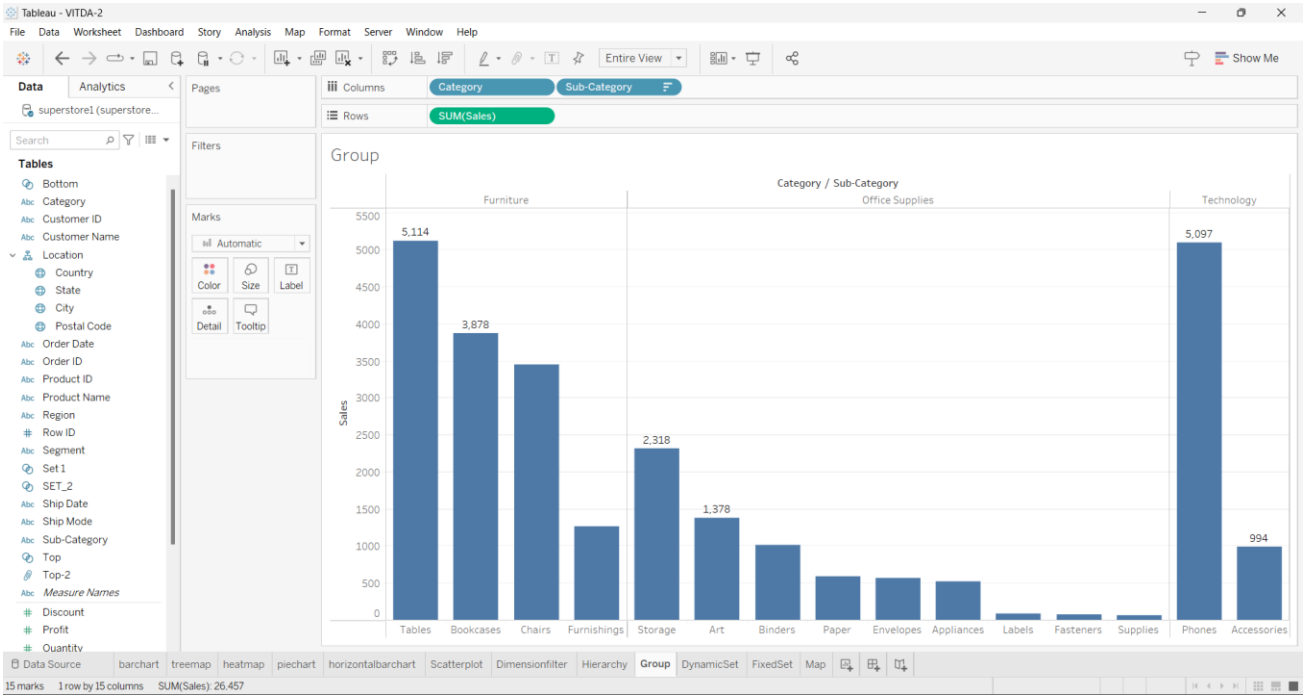


Fixed Set: Sum of Profit vs. sum of Sales. Colour shows Ratio. Shape shows details about In / Out of SET_2. Details are shown for Sub-Category and Product Name.

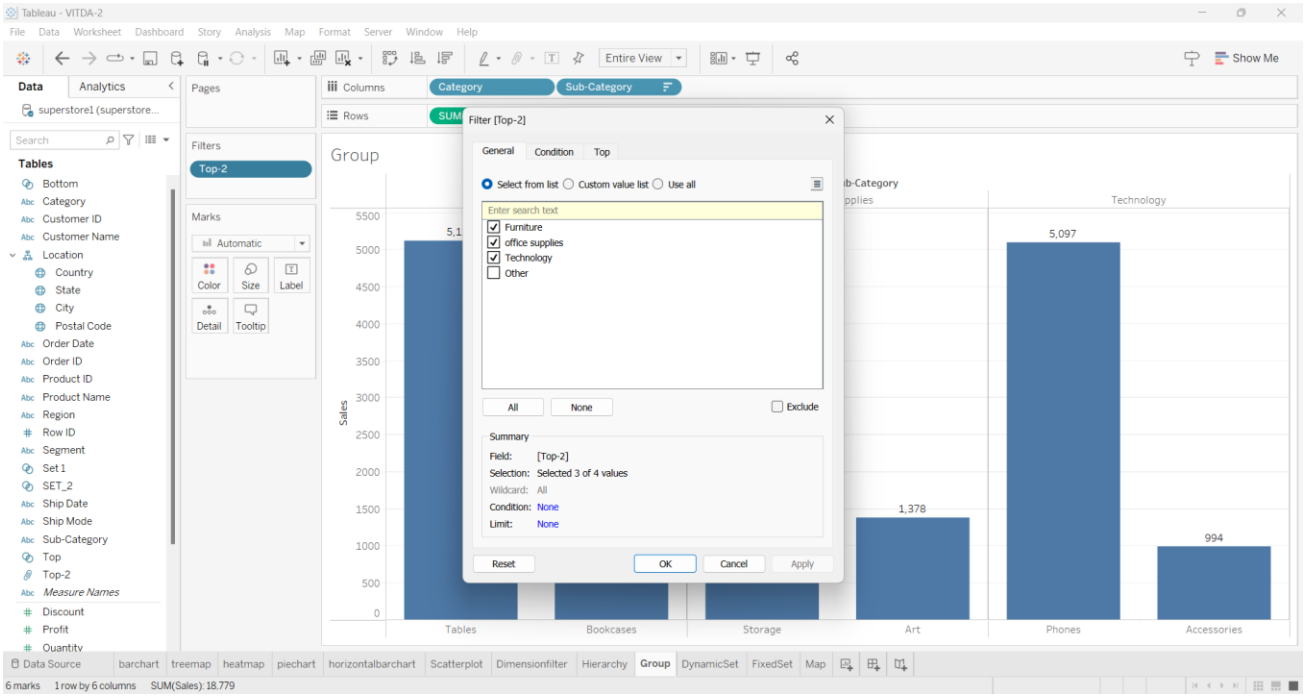


● **create a group :** Sum of Sales for each Sub-Category broken down by Category. The data is filtered on Top-2, which keeps Furniture, office supplies and Technology.

Before:



After making a group for the top two sales in each category:



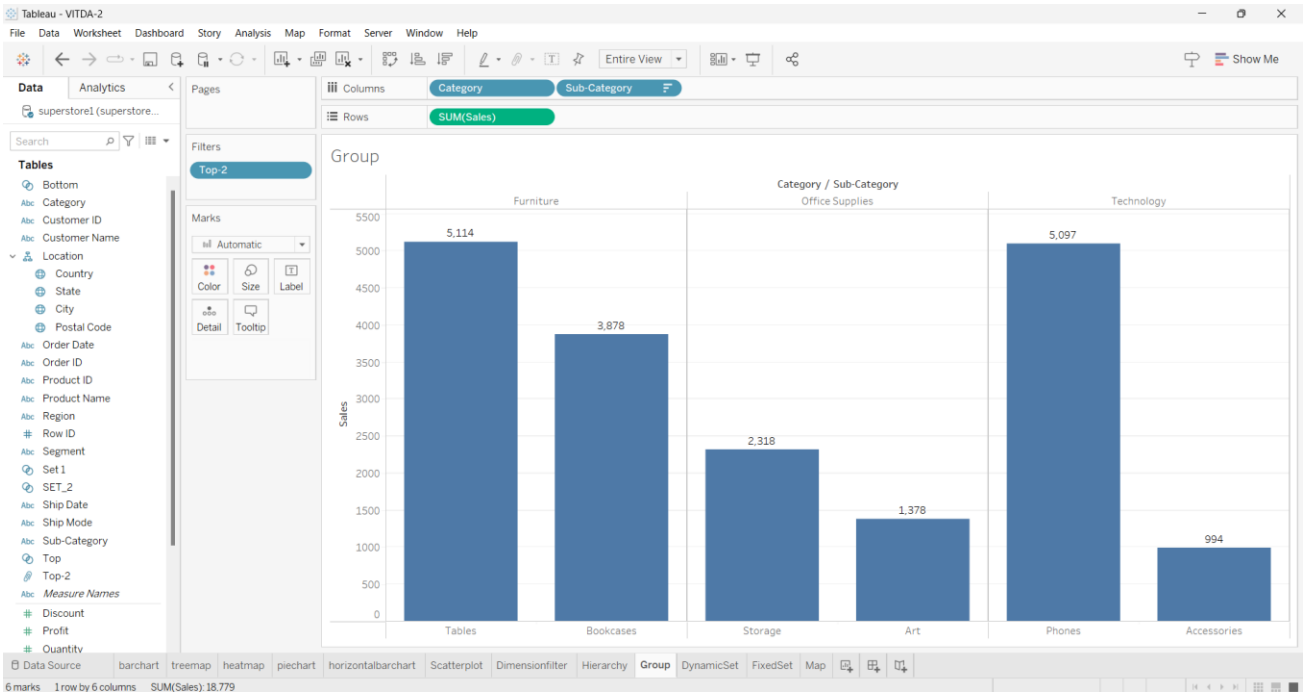


Tableau public link : https://public.tableau.com/views/VITDA-2/Scatterplot?:language=en-US&:display_count=n&:origin=viz_share_link