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DATA ANALYTICS

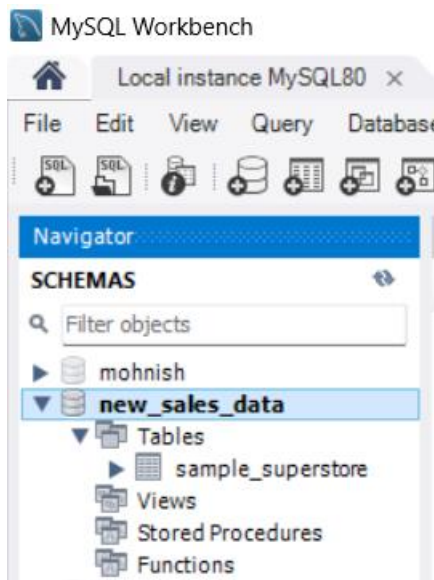
ASSIGNMENT-2

Link:

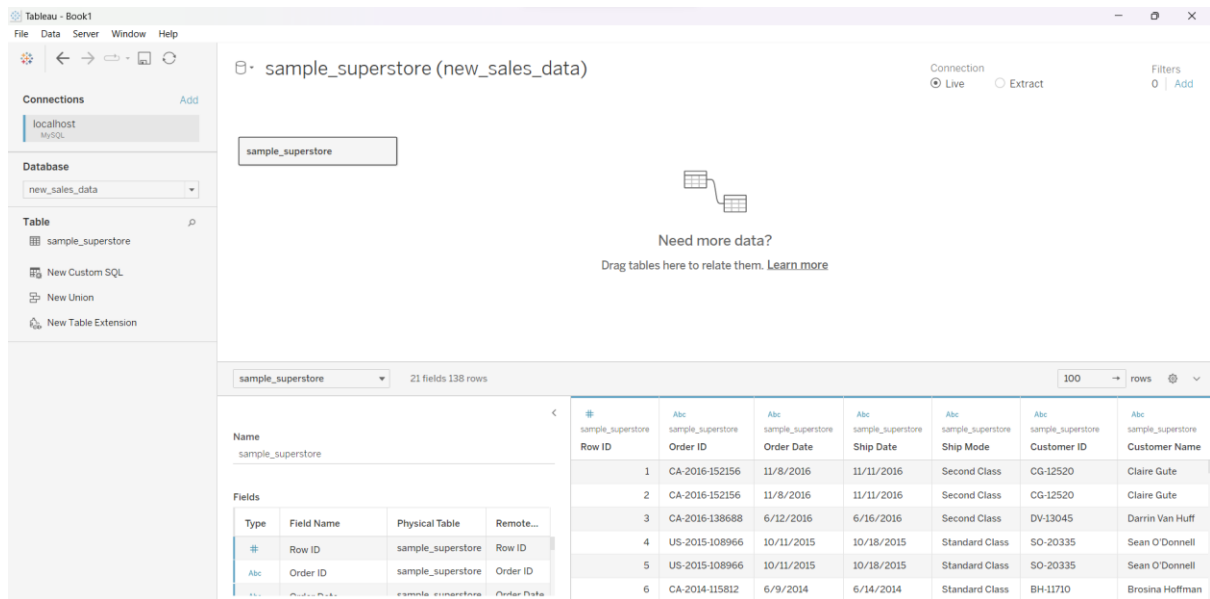
https://drive.google.com/drive/folders/100PJBj37GKrnylKExMfZm6l_ArRWOJ1A?usp=sharing

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

First, I have created a database in mysql workbench named new_sales_data.in that, I have uploaded a table named sample_superstore

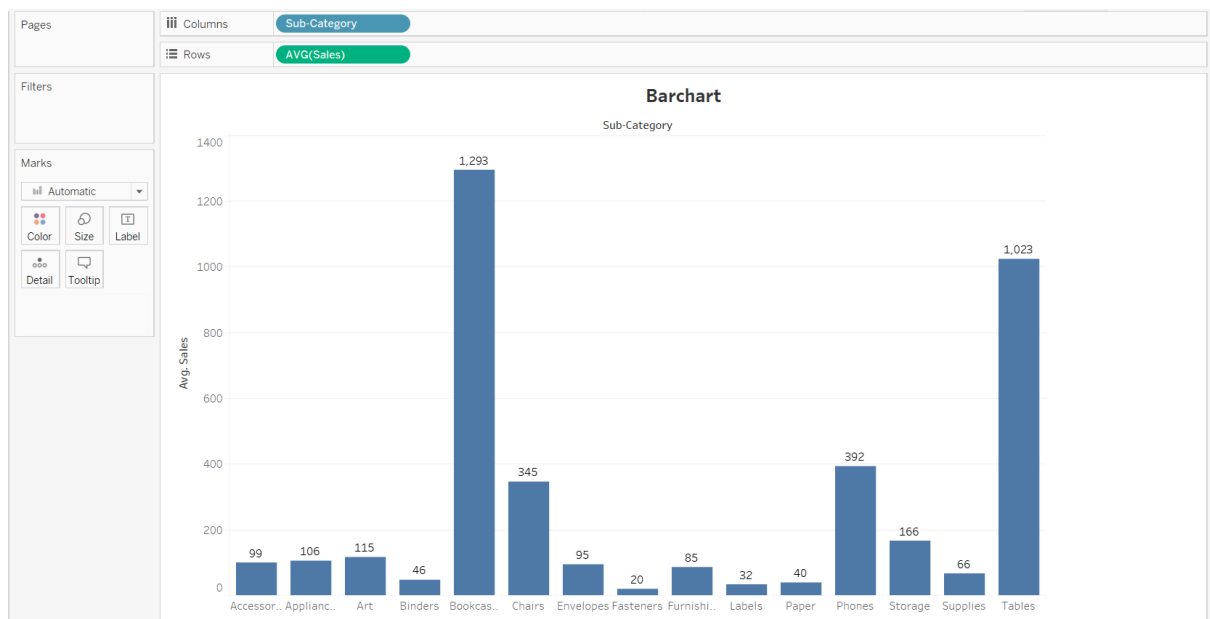


And now I am connecting that database to my tableau

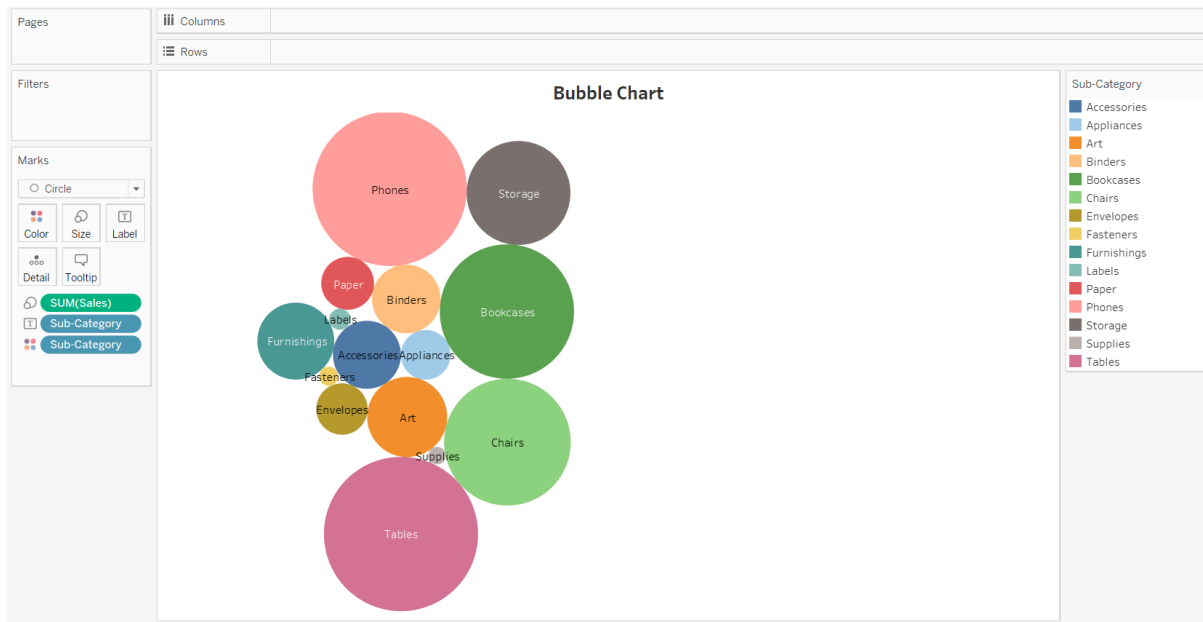


After connecting the database, perform 7 visualizations

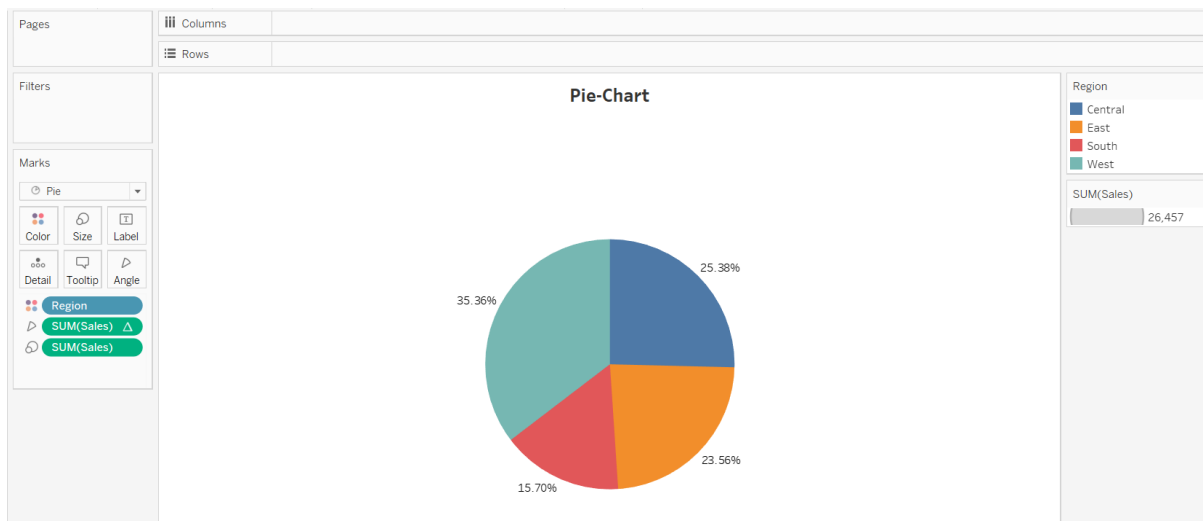
1. BarChart



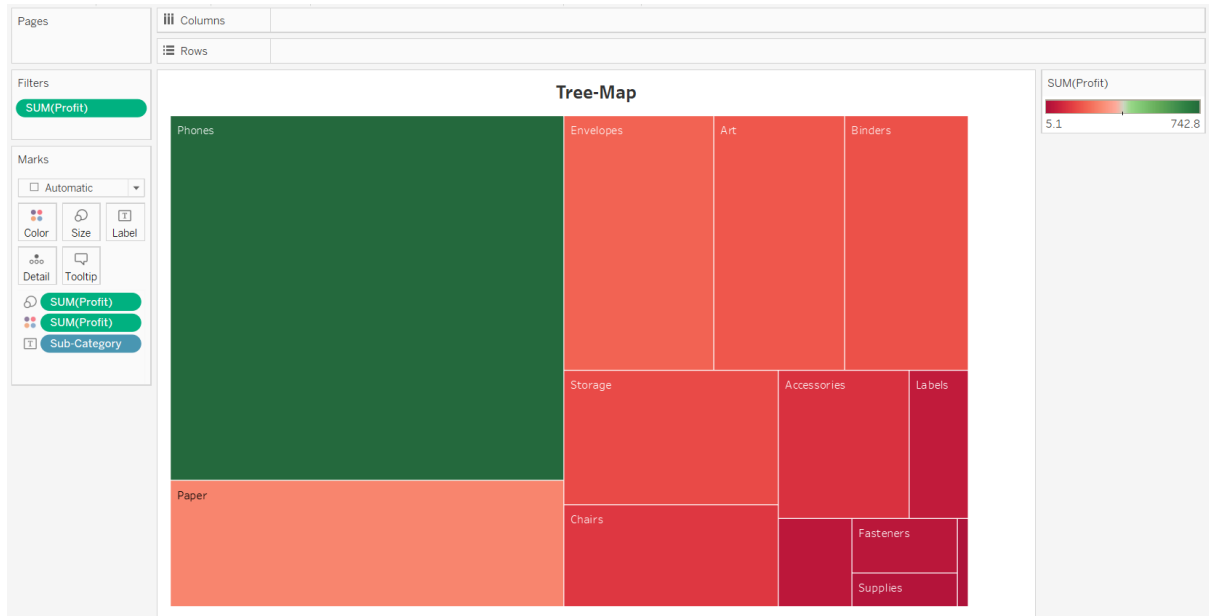
2. BubbleChart



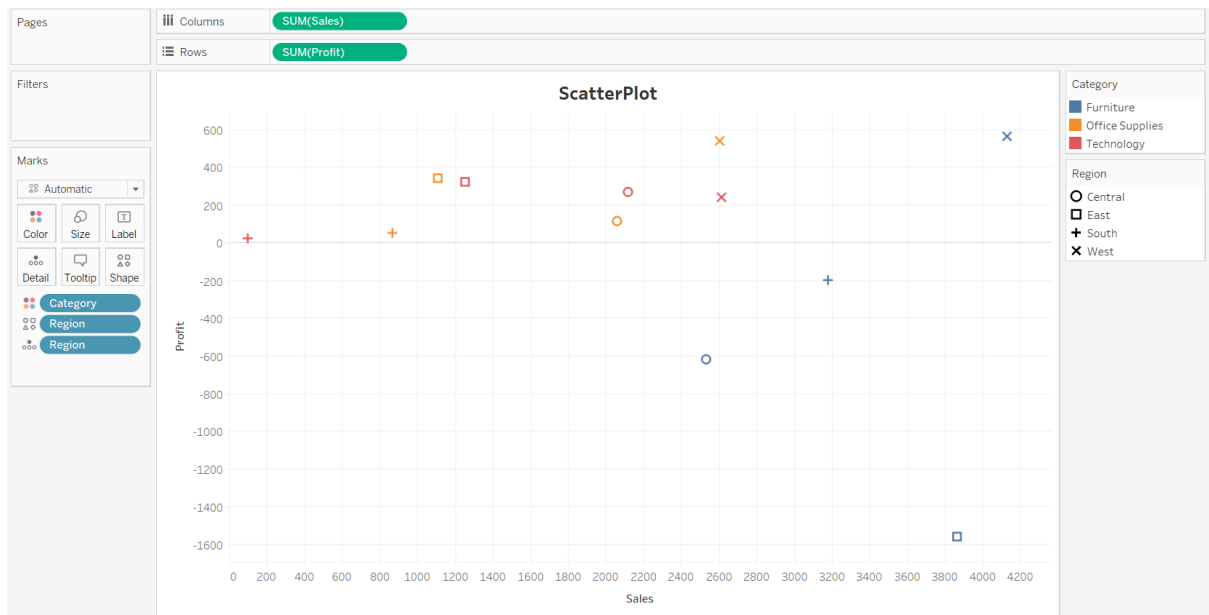
3. PieChart



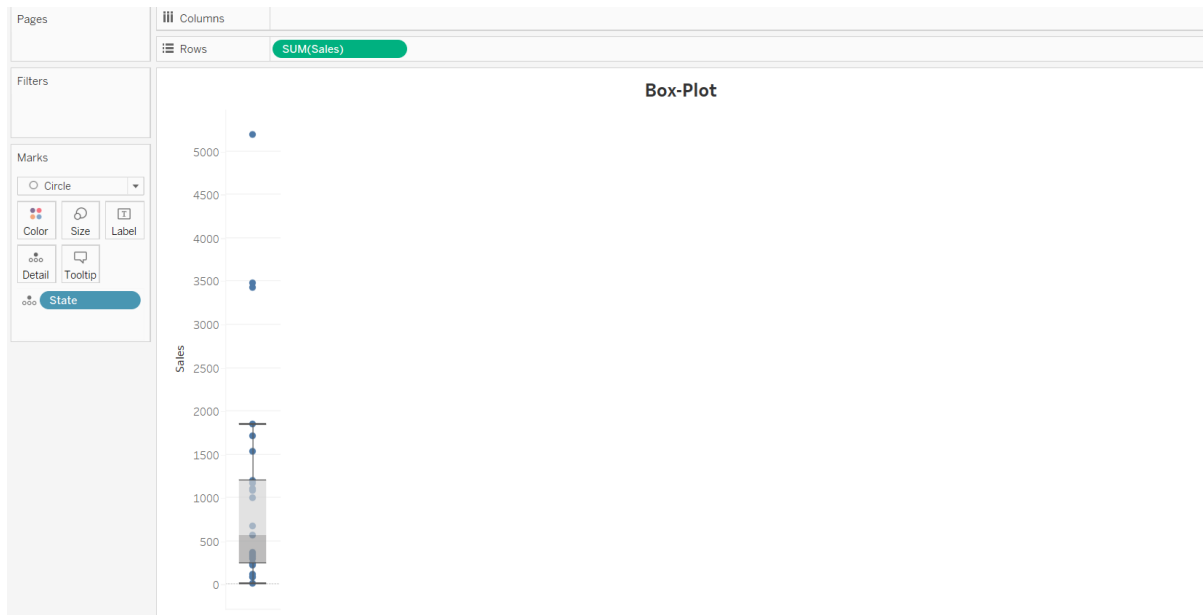
4. TreeMap



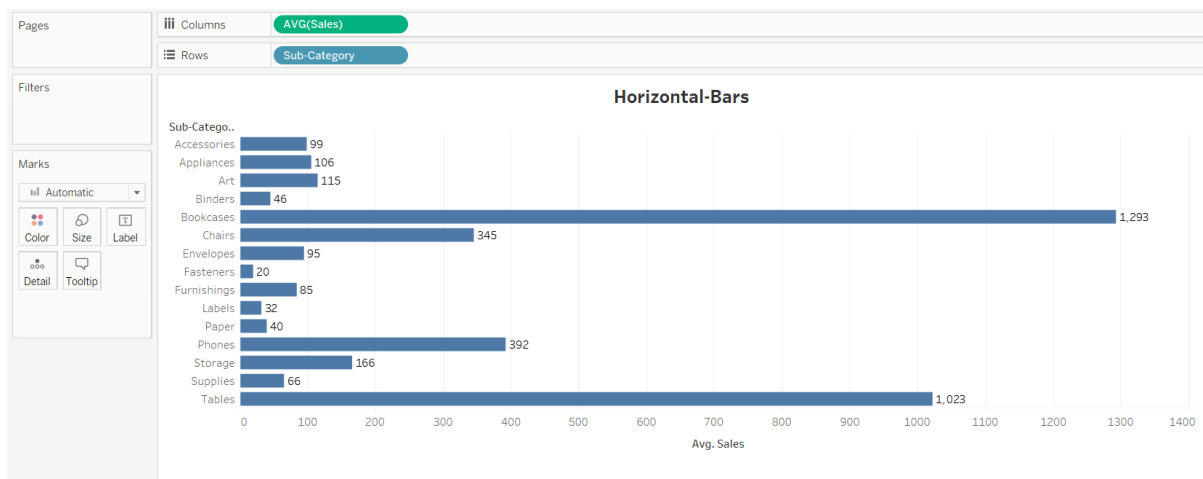
5. Scatter-Plot



6. Box-Plot



7. Horizontal-Bars



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

Context filter:

First by adding sub-category to filters and gave condition as top 10 sales. For that the graph is,

Filter [Sub-Category]

General
Wildcard
Condition
Top

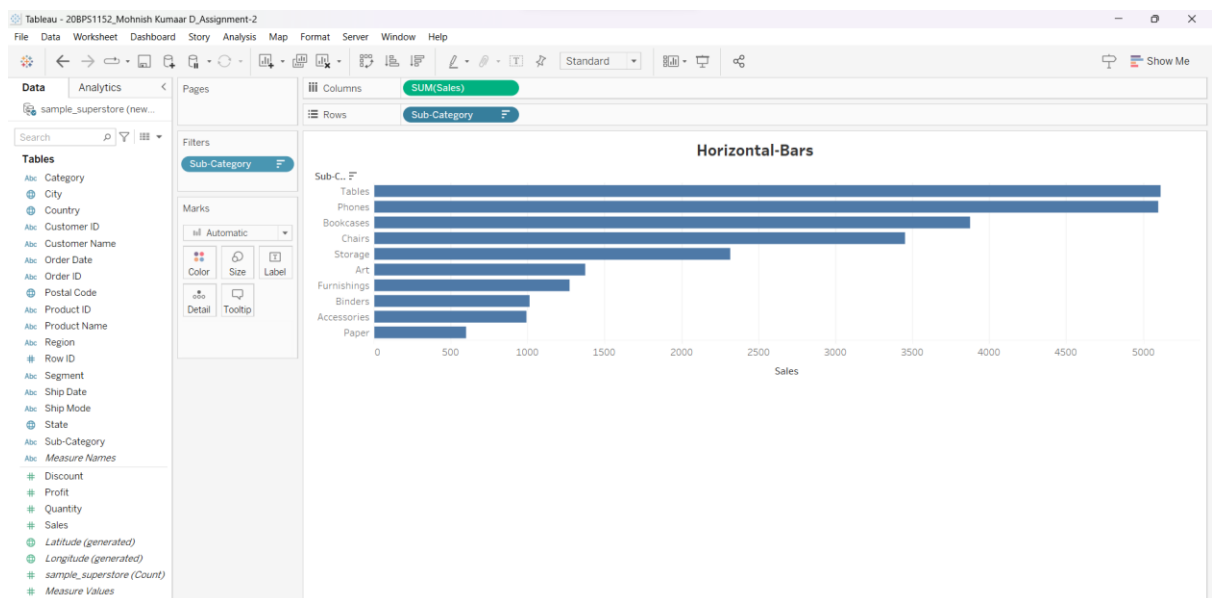
☐ None

☒ By field:

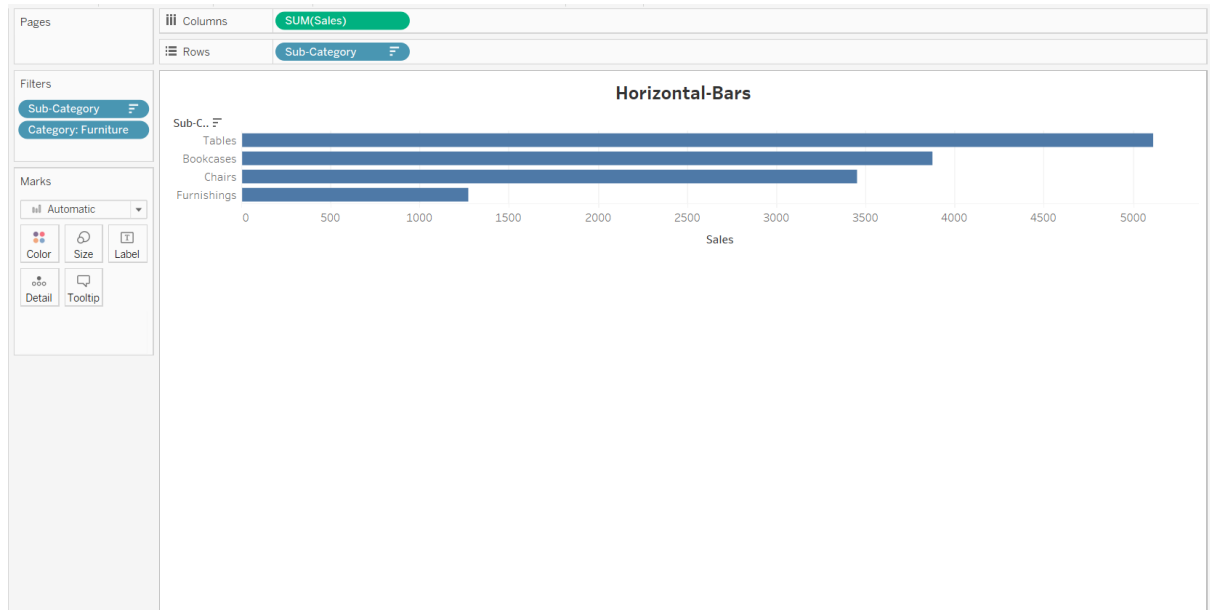
Top
10
by
Sales
Sum

☐ By formula:

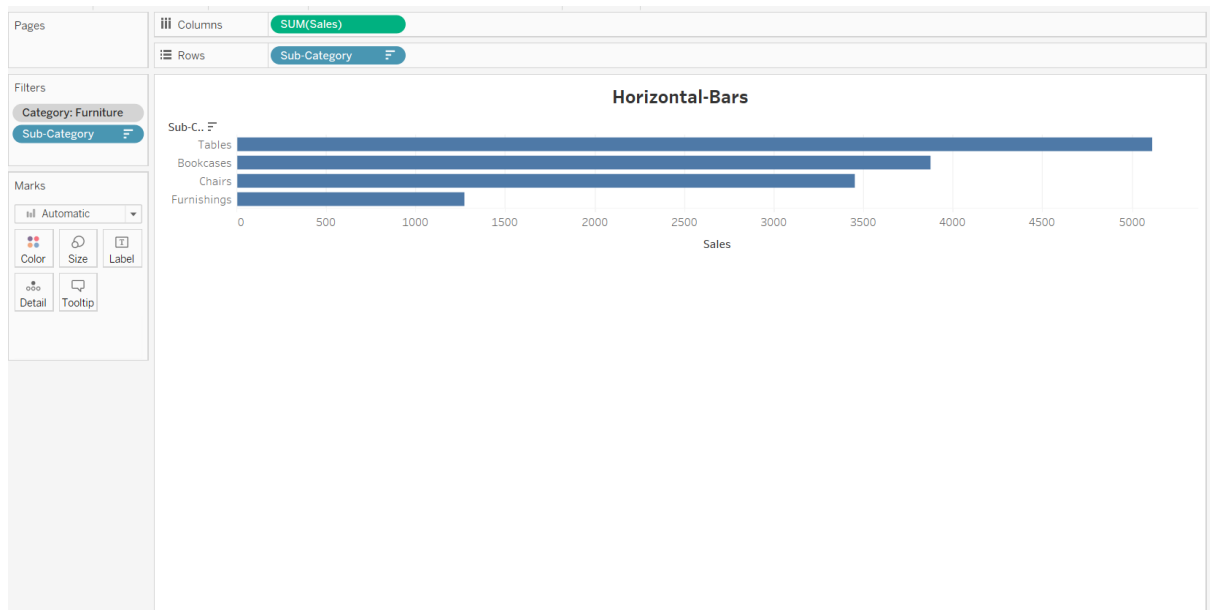
Top
10
by



Now,after adding category of furniture alone into filter ,we will get graph like,



Now, after this to know top 10 sales in furniture we need to add furniture to add to context by right click on its field,



Dimension Filter:

For Dimension Filter I am choosing customer name and in detail and giving state. So first it is displaying all the customer name with their respective state.

Pages	Columns
Filters	Rows
Marks	Customer Name
Automatic	
Color	
Size	
Text	
Detail	
Tooltip	
State	

Customer Name	
Alan Dominguez	Texas
Alejandro Grove	Utah
Andrew Allen	North Carolina
Brendan Sweed	Arizona
Brosina Hoffman	California
Christopher Schild	Illinois
Claire Gute	Kentucky
Clay Ludtke	Iowa
Cynthia Voltz	New York
Darren Powers	Indiana
Darrin Van Huff	California
Dave Kipp	Washington
Dorothy Wardle	Ohio
Duane Noonan	California
Elpida Rittenbach	Minnesota
Emily Burns	Utah
Eric Hoffmann	California
Erin Smith	Florida
Gary Mitchum	Texas
Gary Zandusky	Minnesota
Gene Hale	Texas
Greg Guthrie	Tennessee
Harold Pawlan	Texas
Henry MacAllister	New York
Irene Maddox	Washington
Janet Martin	North Carolina

I need only customers,so I am just selecting their names

Filter [Customer Name]

General

Wildcard

Condition

Top

☒ Select from list
 ☐ Custom value list
 ☐ Use all

☒ Alan Dominguez
☒ Alejandro Grove
☒ Andrew Allen
☒ Brendan Sweed
☒ Brosina Hoffman
☐ Christopher Schild
☒ Claire Gute
☒ Clay Ludtke
☒ Cynthia Voltz
☐ Darren Powers
☐ Darrin Van Huff

All

None

☐ Exclude

Summary

Field: [Customer Name]

Selection: Selected 8 of 64 values

Wildcard: All

Condition: None

Limit: None

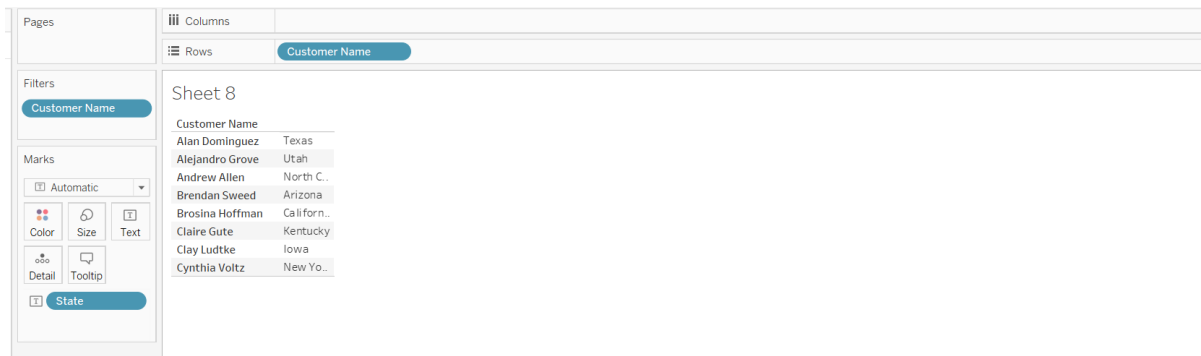
Reset

OK

Cancel

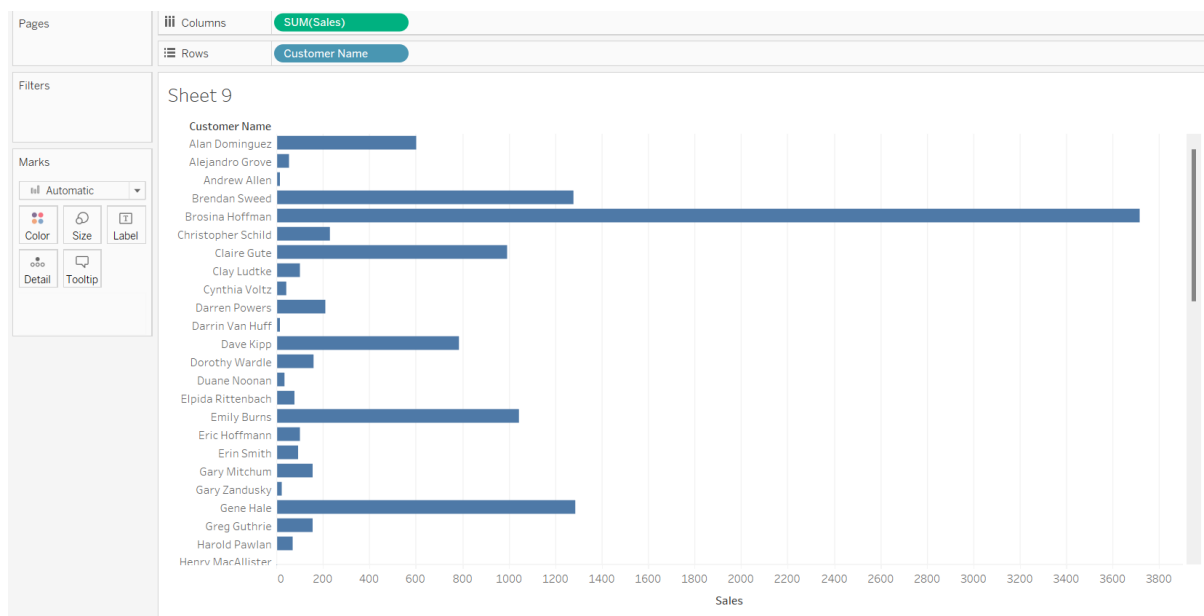
Apply

Now after filtering ,the graph will be



Measure Filter:

I am taking sales in rows and customer name in columns and I am getting graph like,



Now I am adding sales in filter Column, and I want to filter based on sum(sales) and I am choosing values between 5 to 500

Filter [Sales] ✕

Range of values

At least

At most

Special

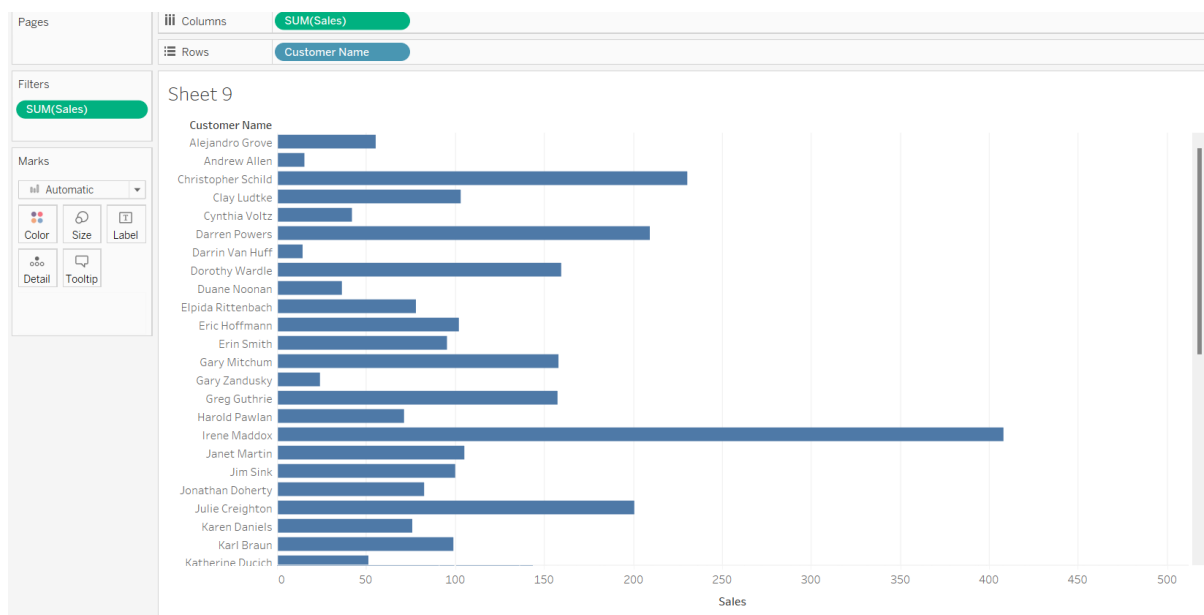
Range of values

4.616
3,714.304

Show: Only Relevant Values ☐ Include Null Values

Reset OK Cancel Apply

Graph will be like,

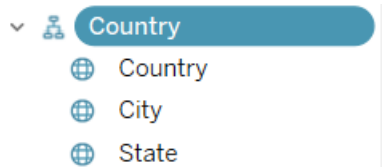


3) Perform the following data manipulations on your dataset

- create a Hierarchy
- create a set
- create a group

Create Hierarchy:

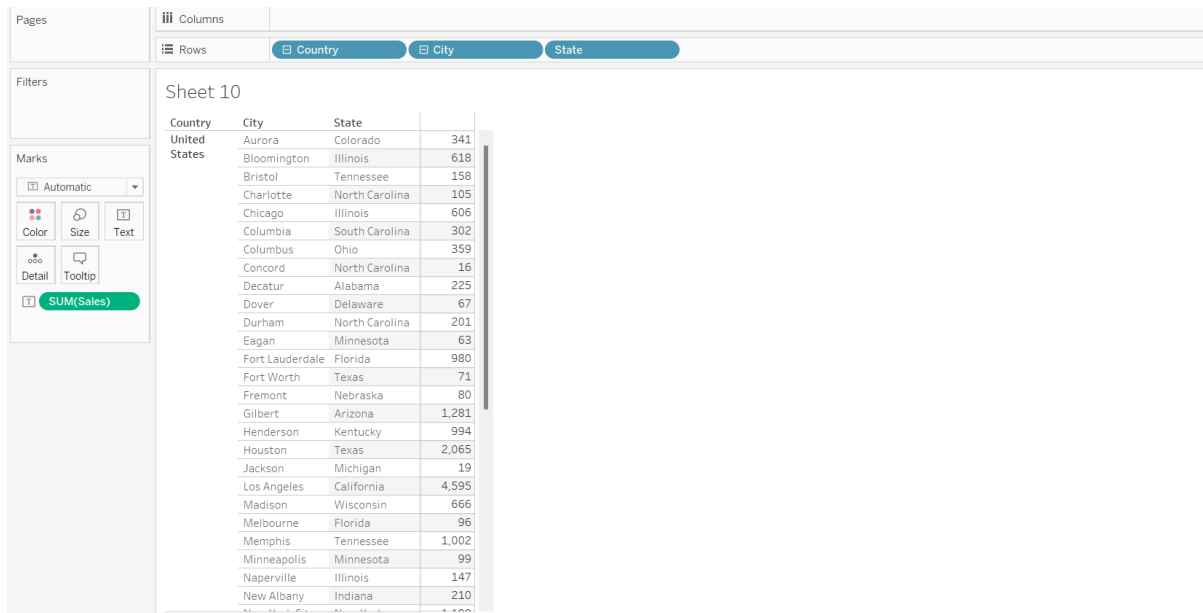
To create a hierarchy we need to click on the element and then we have to click on hierarchy -> create-> and then give it a name . I have given the name as COUNTRY and then I have added country,city and state in it.



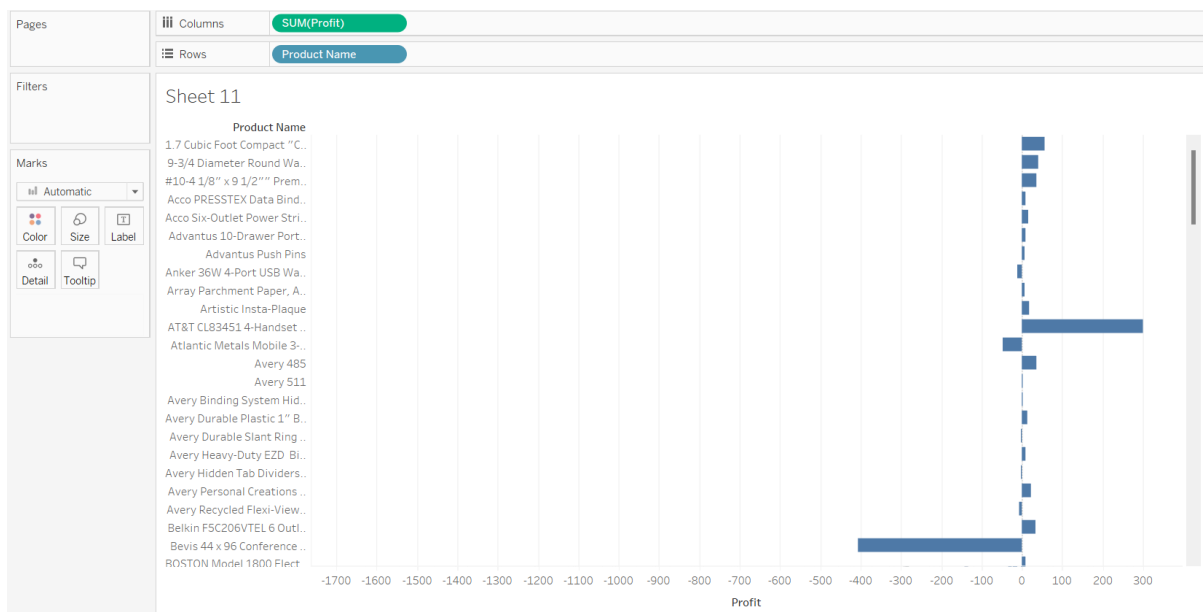
Now I am adding sales in text box and country hierarchy in column to check the graph,



Plus symbol is shown near country hierarchy .If we click on the plus symbol we can see the whole hierarchy.



Creating Set:



By clicking product name and then clicking on the create-> set-> we can set the top priority list. I have selected the top list to be 3.

Edit Set [Product Name Set]

Name: Product_set

General

Condition

Top

None

By field:

Top

3

by

Profit

Sum

By formula:

Top

10

by

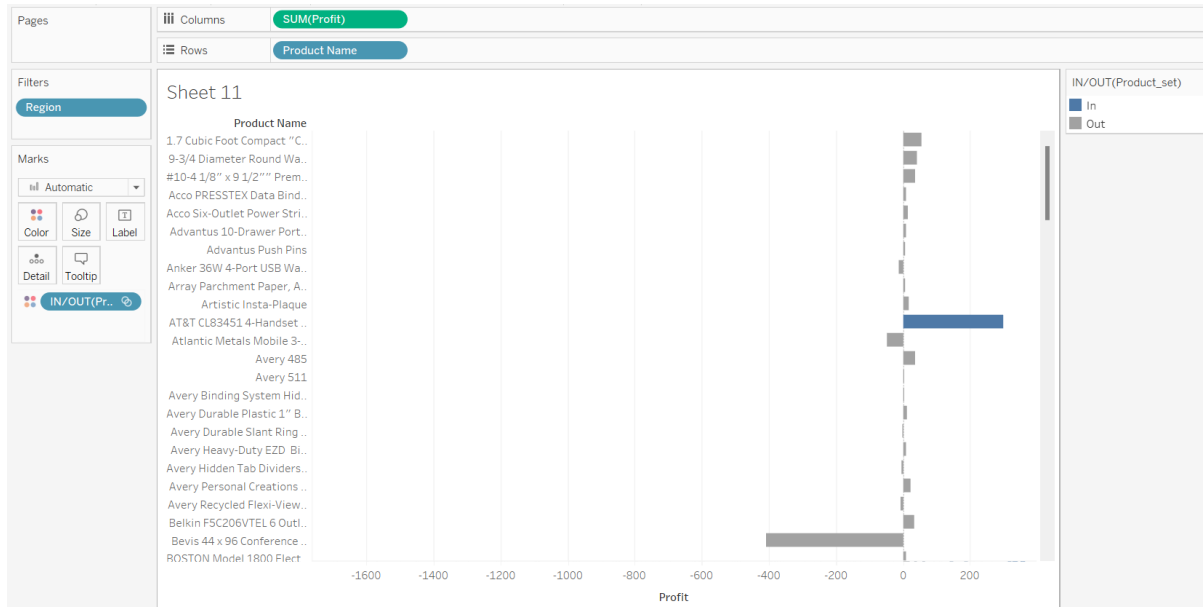
Reset

OK

Cancel

Apply

Then if we drag this into the color .It will display the product with different color in according to the profit.



Creating Group:

To make Groups, select a horizontal graph with products name and randomly make them into 4 groups and include all others in other.

Edit Group [product_group] X

Field Name:

Groups:

- > A_group
- > BC_group
- > DEFGH_group

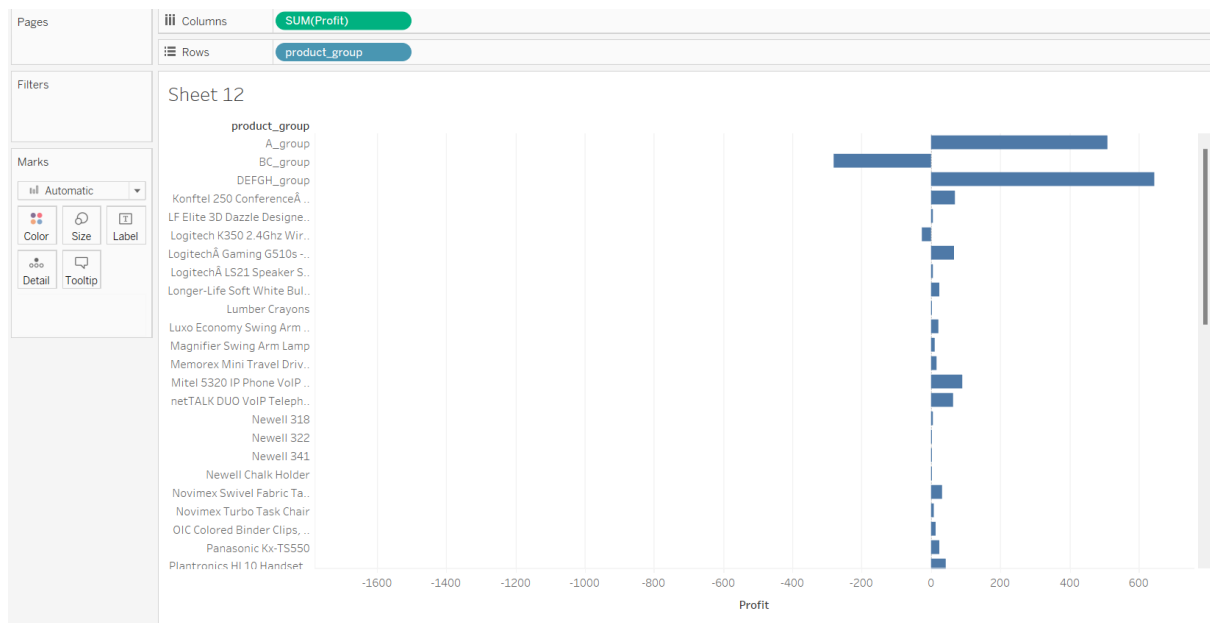
Konftel 250 ConferenceÂ phoneÂ - Charcoal black
 LF Elite 3D Dazzle Designer Hard Case Cover, Lf Stylus Pen and...
 Logitech K350 2.4Ghz Wireless Keyboard
 LogitechÂ Gaming G510s - Keyboard
 LogitechÂ LS21 Speaker System - PC Multimedia - 2.1-CH - Wir...
 Longer-Life Soft White Bulbs
 Lumber Crayons
 Luxo Economy Swing Arm Lamp
 Mopar Swing Arm Lamp

Group Rename Ungroup ☒ Show Add Location

☐ Include 'Other' Find >>

Reset OK Cancel Apply

Now drag that to rows,



For colours add product_group to colour,

