

SMARTBRIDGE EXTERNSHIP – DATA ANALYTICS

ASSIGNMENT - 2

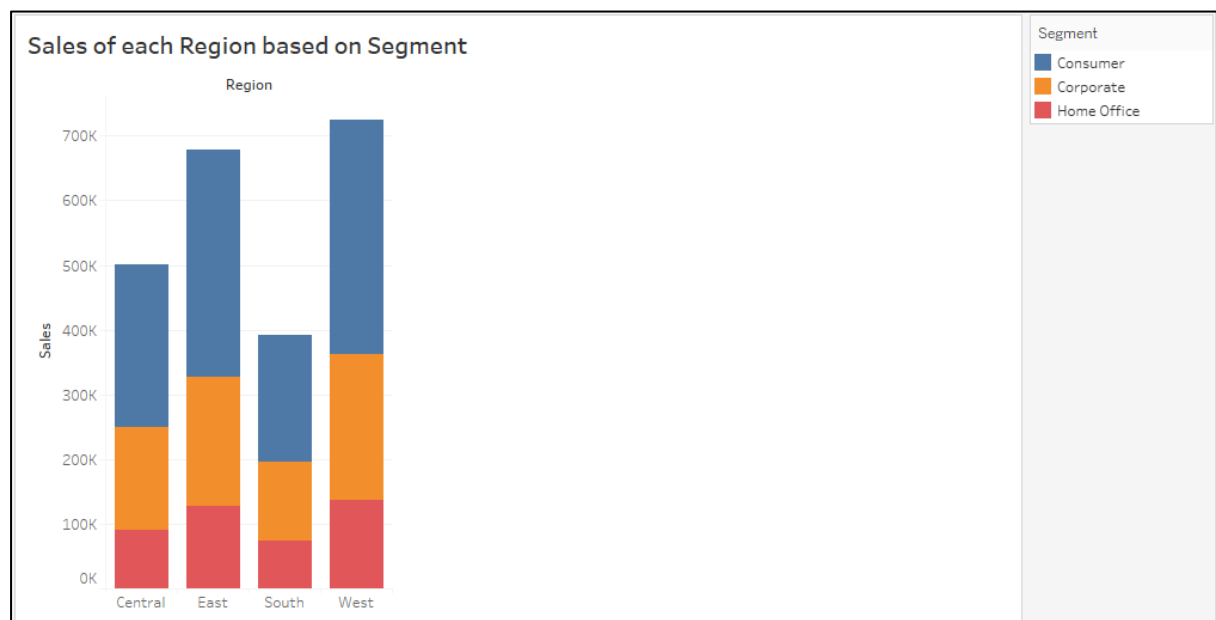
Assignment-2

- 1) Create any 7 data visualizations/charts and perform the following
- 2) Apply dimension filter, context and measure filter on any of the three visualizations
- 3) Perform the following data manipulations on your dataset
 - create a Hierarchy
 - create a set
 - create a group

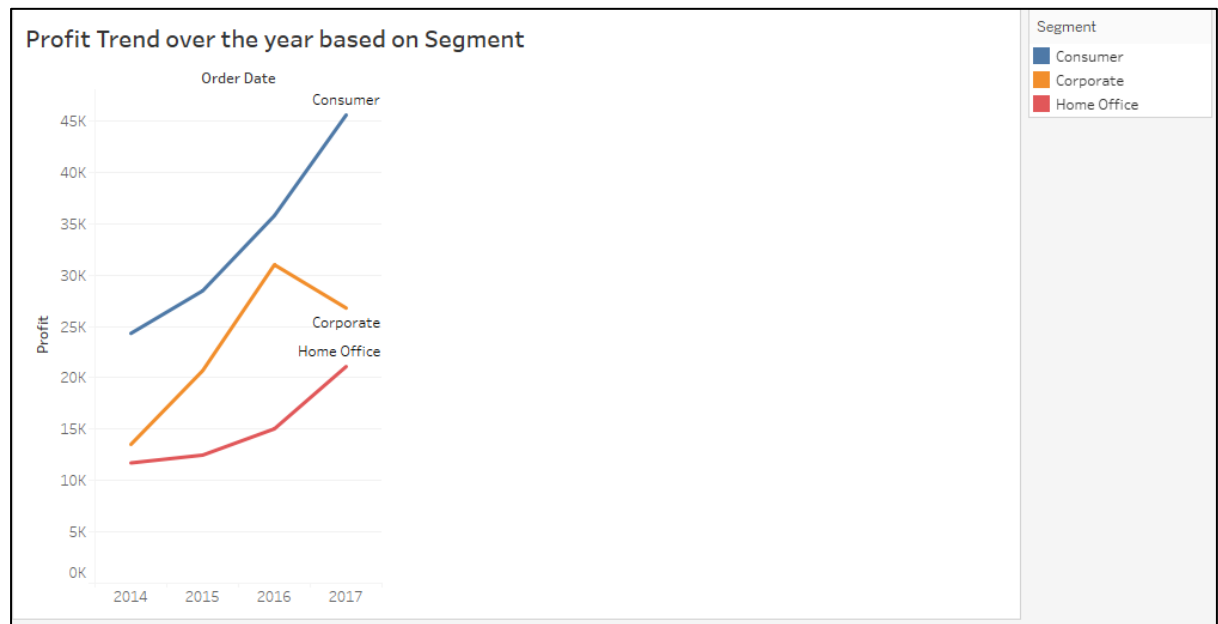
Note : Use 'superstore-sales' dataset

1) CREATE 7 DATA VISUALIZATIONS

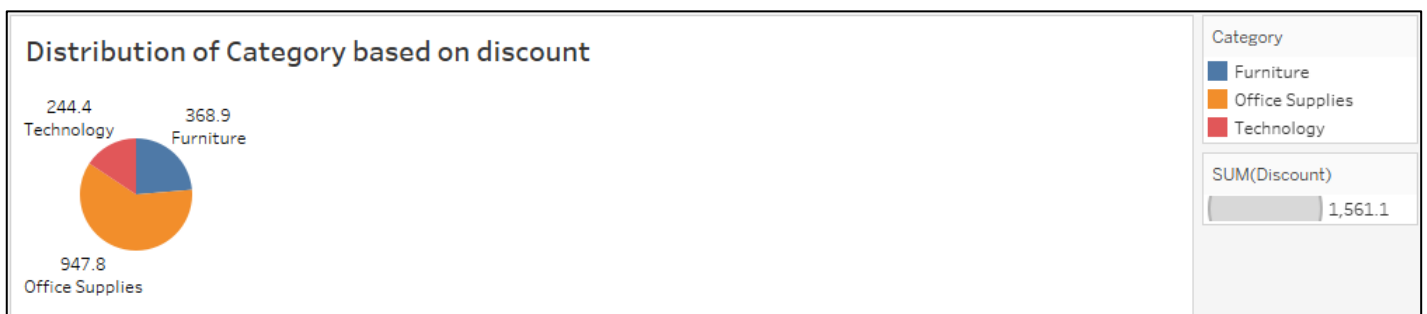
- Bar Chart



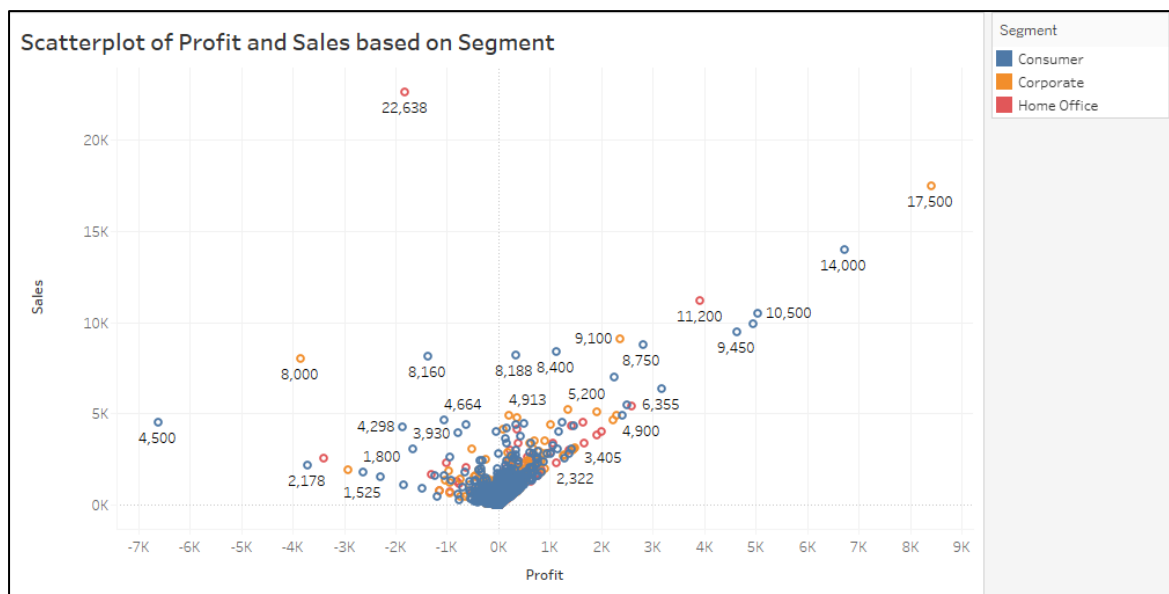
- **Line Chart**



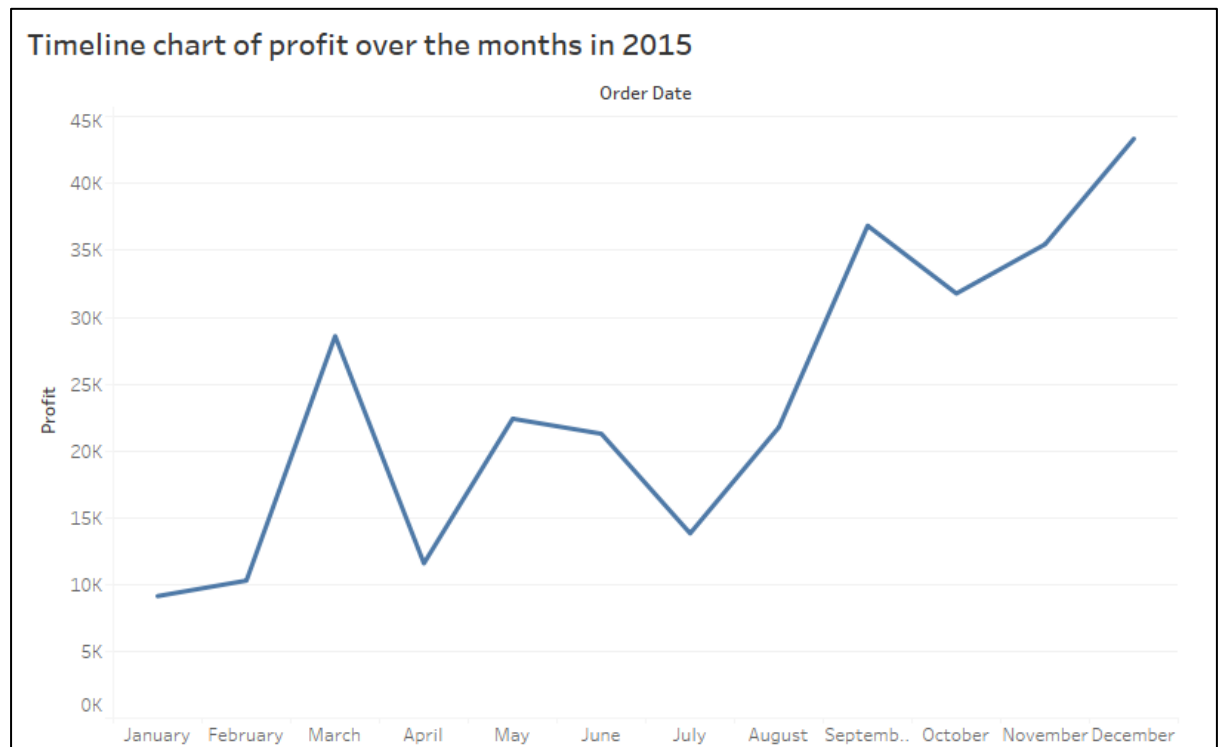
- **Pie Chart**



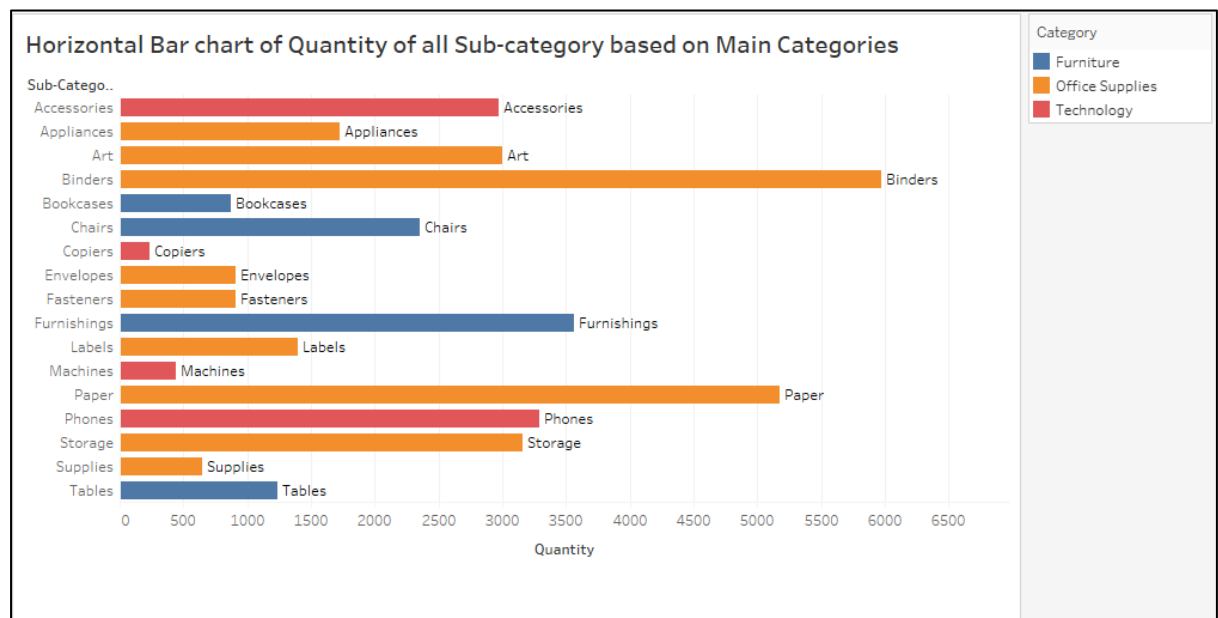
- **Scatter Plot**



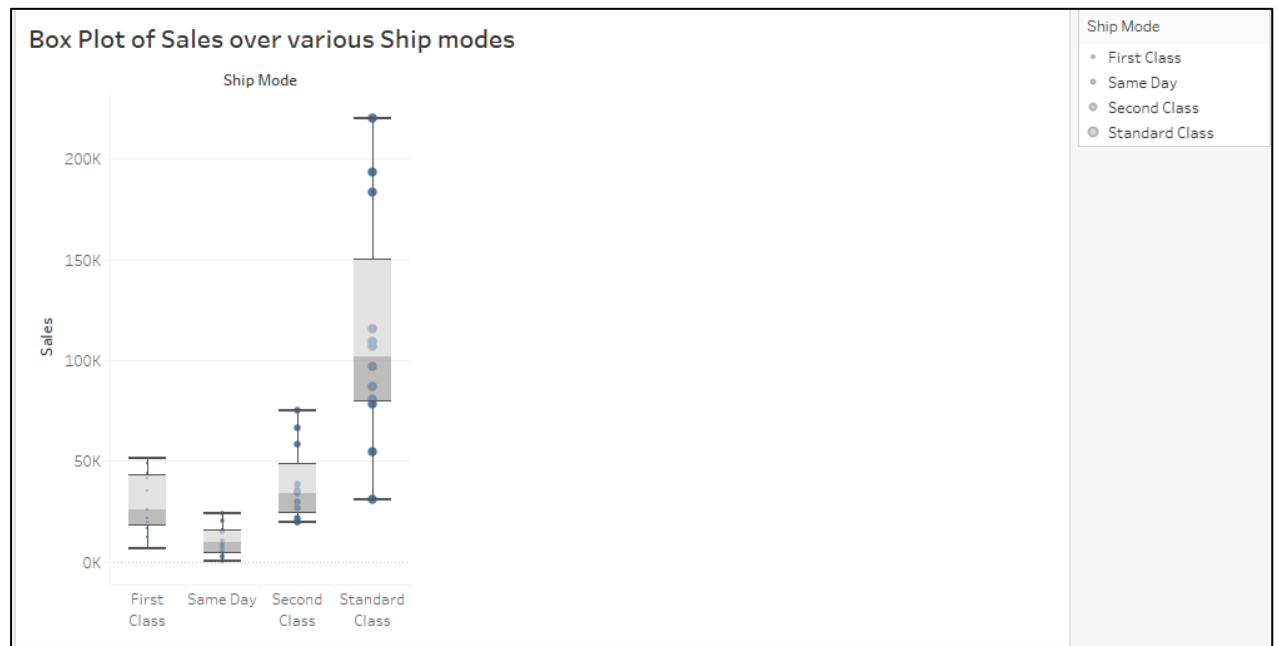
- **Time Line Plot (Line plot)**



- **Horizontal Bar Chart**



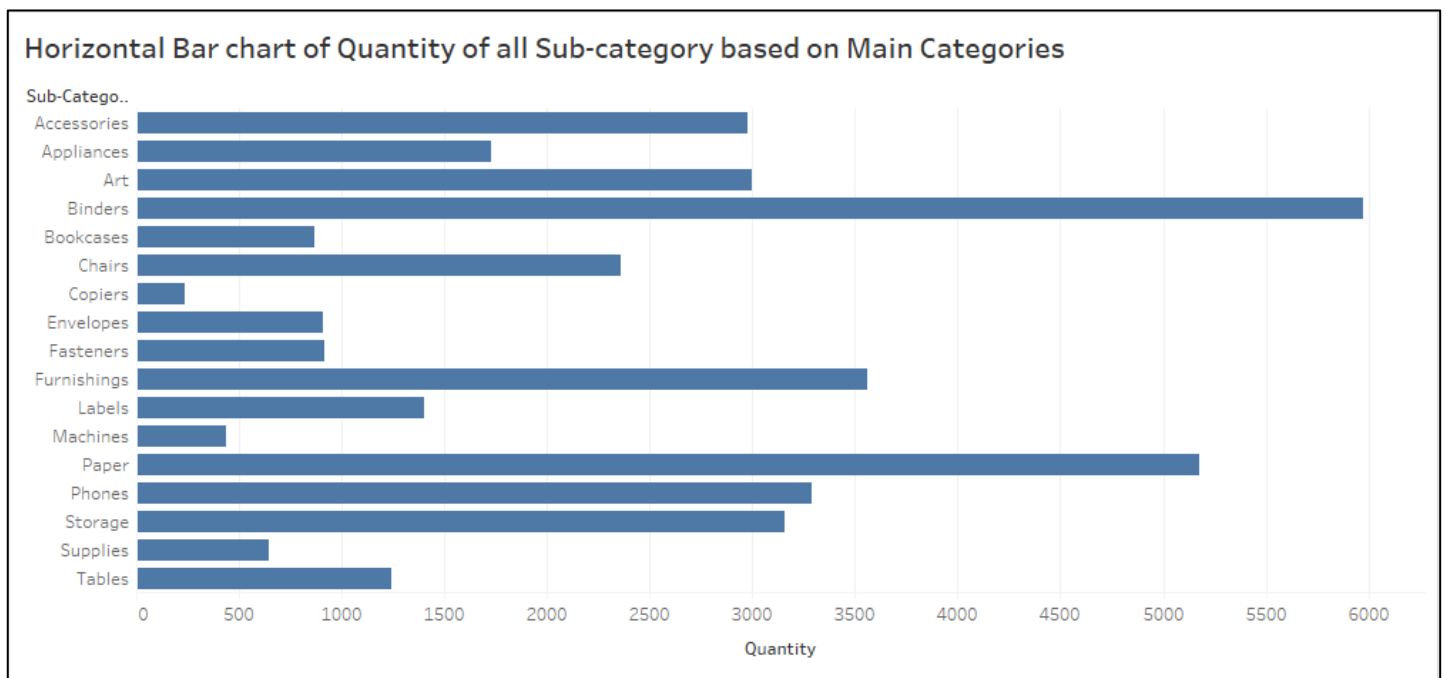
- **Box Plot**



2) APPLY THE FOLLOWING

➔ FILTERS

(Before Applying Dimension Filter)



Filtering Sub-categories → Choosing only 6 Sub-categories

Filter [Sub-Category]

General

Wildcard

Condition

Top

Select from list

Custom value list

Use all

Enter search text

Accessories

Appliances

Art

Binders

Bookcases

Chairs

Copiers

Envelopes

Fasteners

Furnishings

Labels

All

None

Exclude

Summary

Field: [Sub-Category]

Selection: Selected 6 of 17 values

Wildcard: All

Condition: None

Limit: None

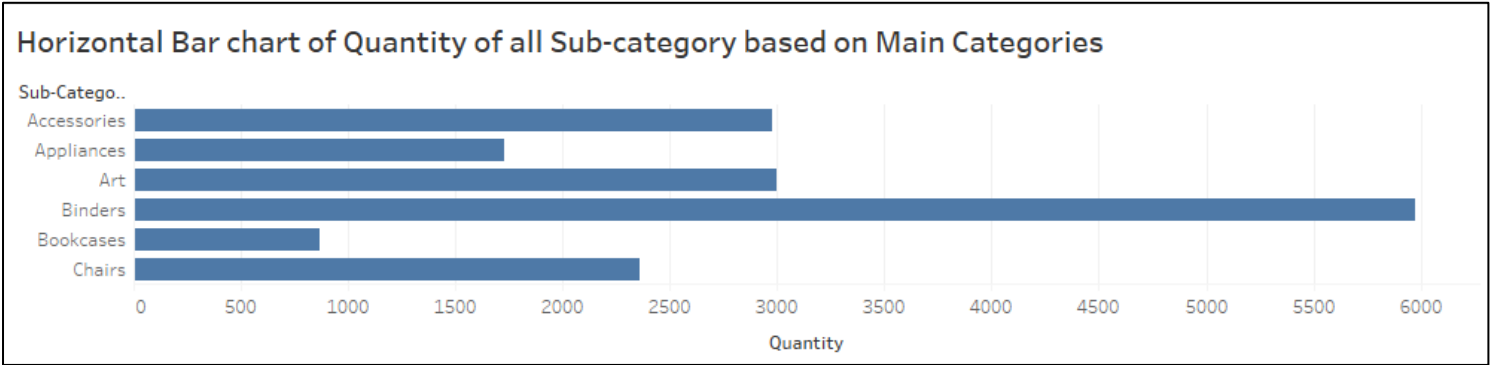
Reset

OK

Cancel

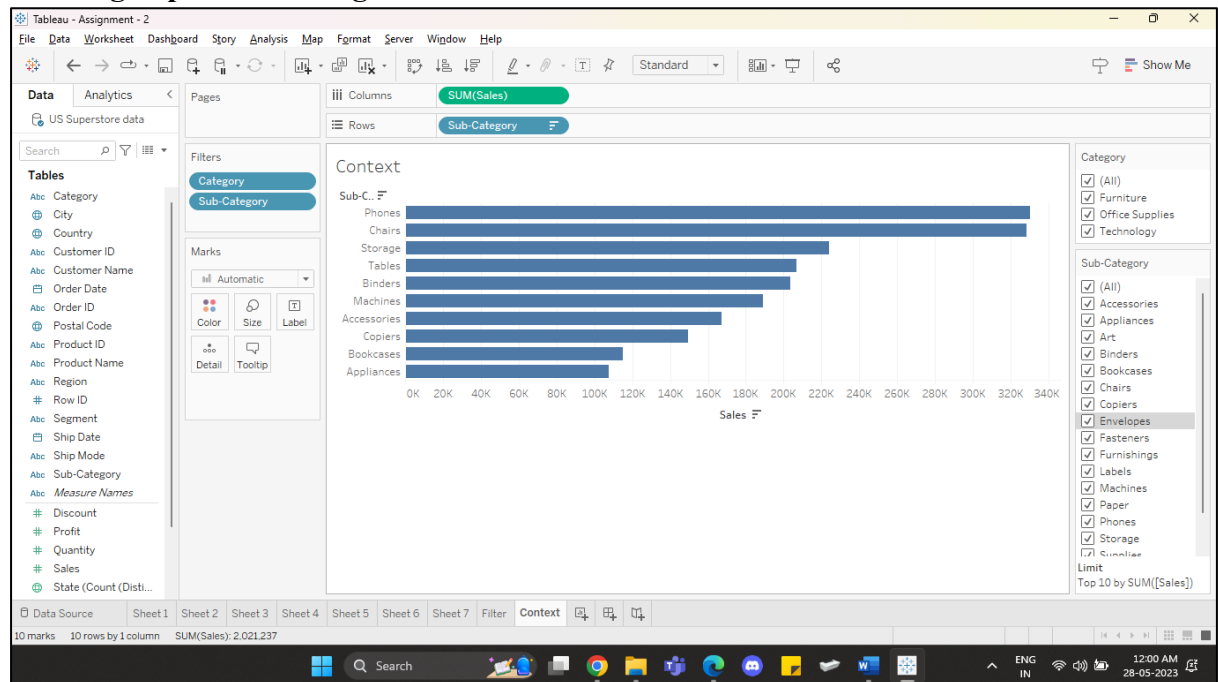
Apply

(After Applying Dimension Filter)



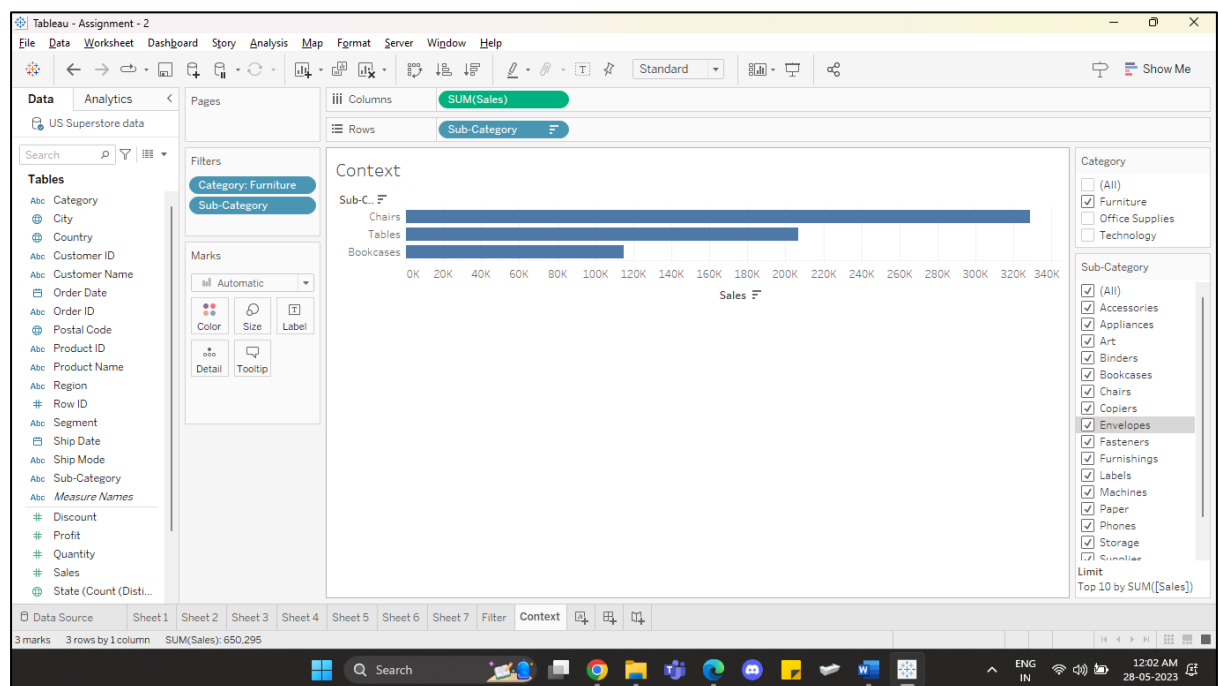
→ CONTEXT

Showing Top 10 Sub-categories

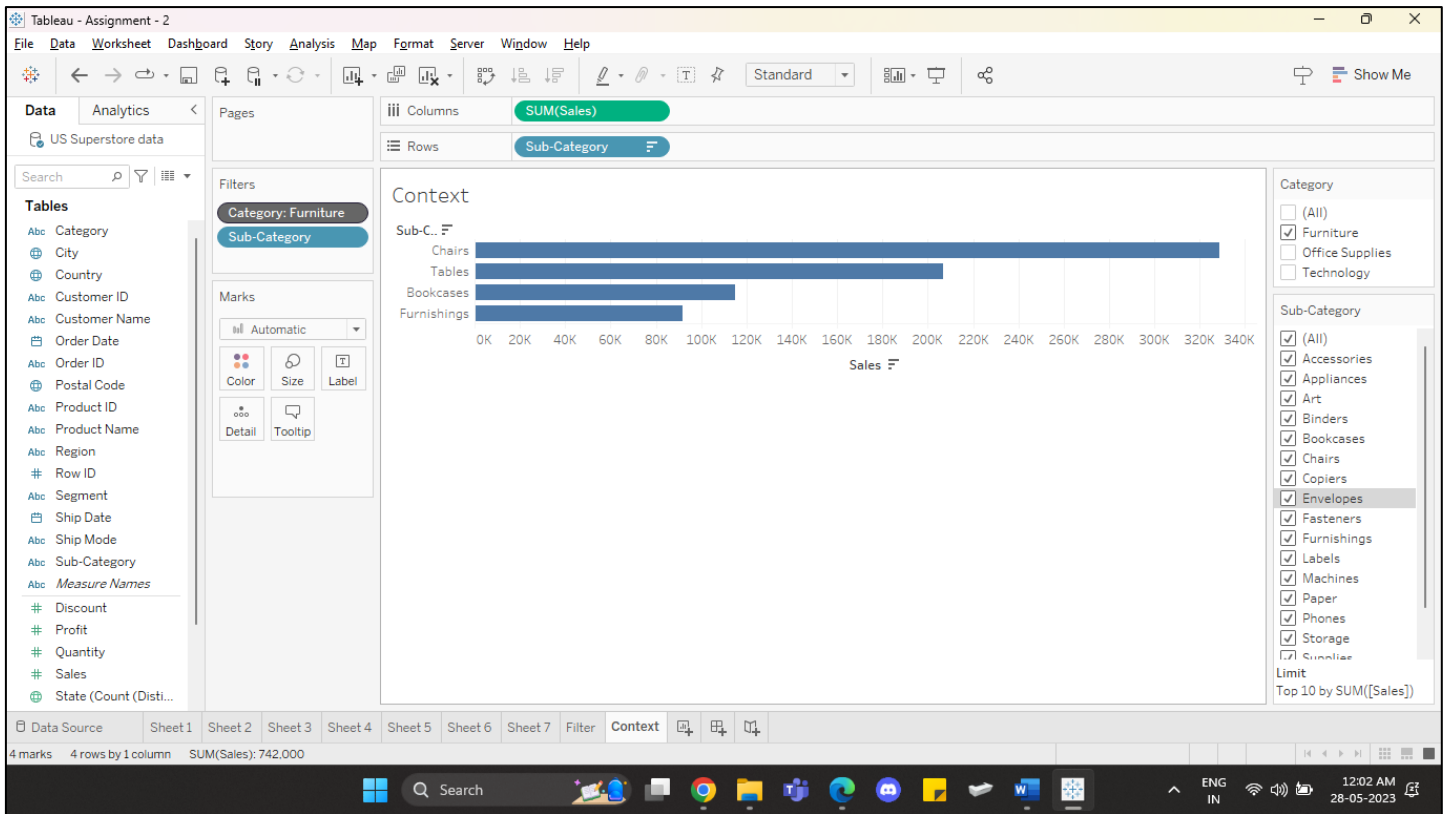


Now Applying Context filter for Furniture Category to extract top 10 Sub-categories in sales in Category – Furniture. (It might show less than 10 if there are less than 10 categories present)

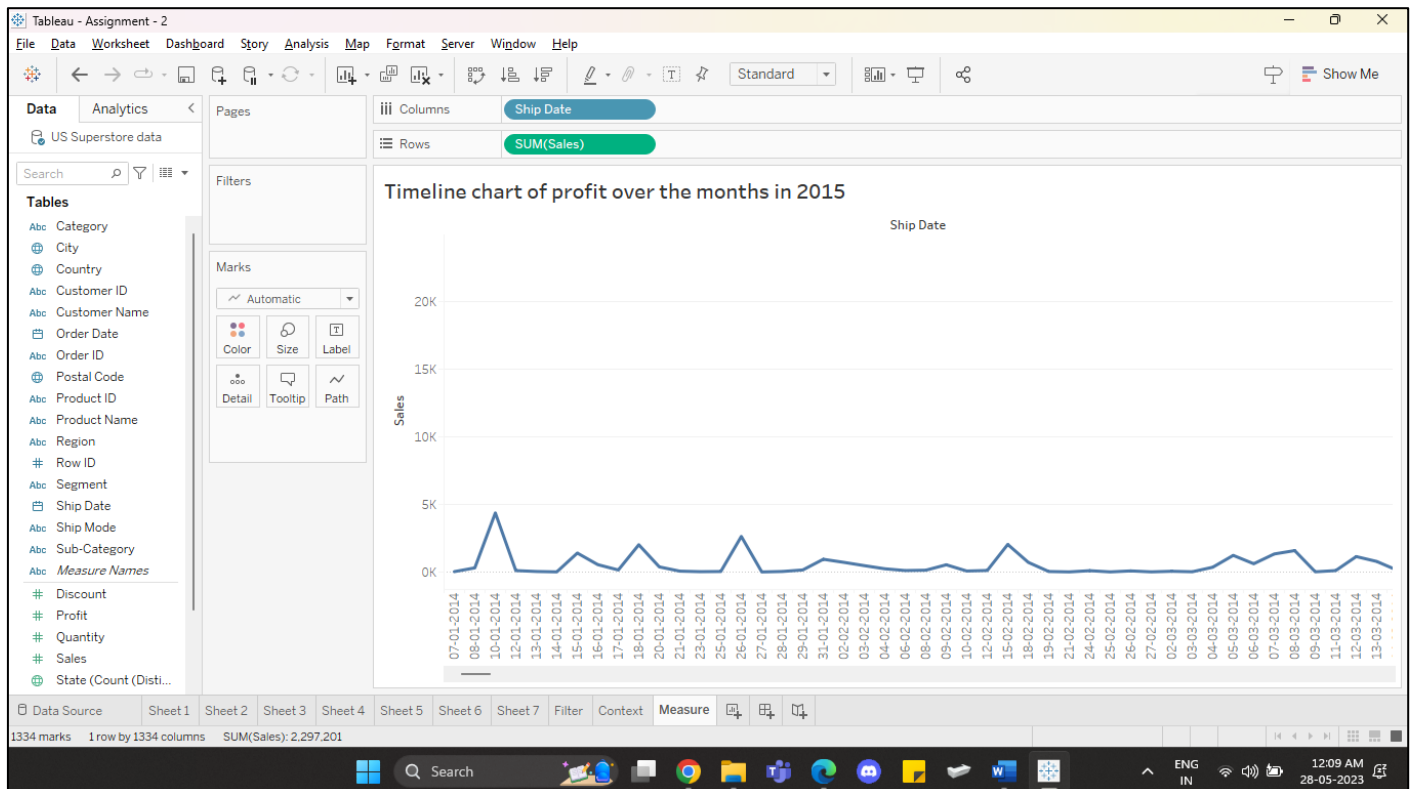
Before Adding Context



After Adding context filter



➔ MEASURE FILTER BEFORE



**Applying Measure Filter will help in bringing the dates into a range as per user's choice.
Dates then trim down to a particular range.**

Filter [Ship Date]

Relative dates | **Range of dates** | Starting date | Ending date | Special

Range of dates

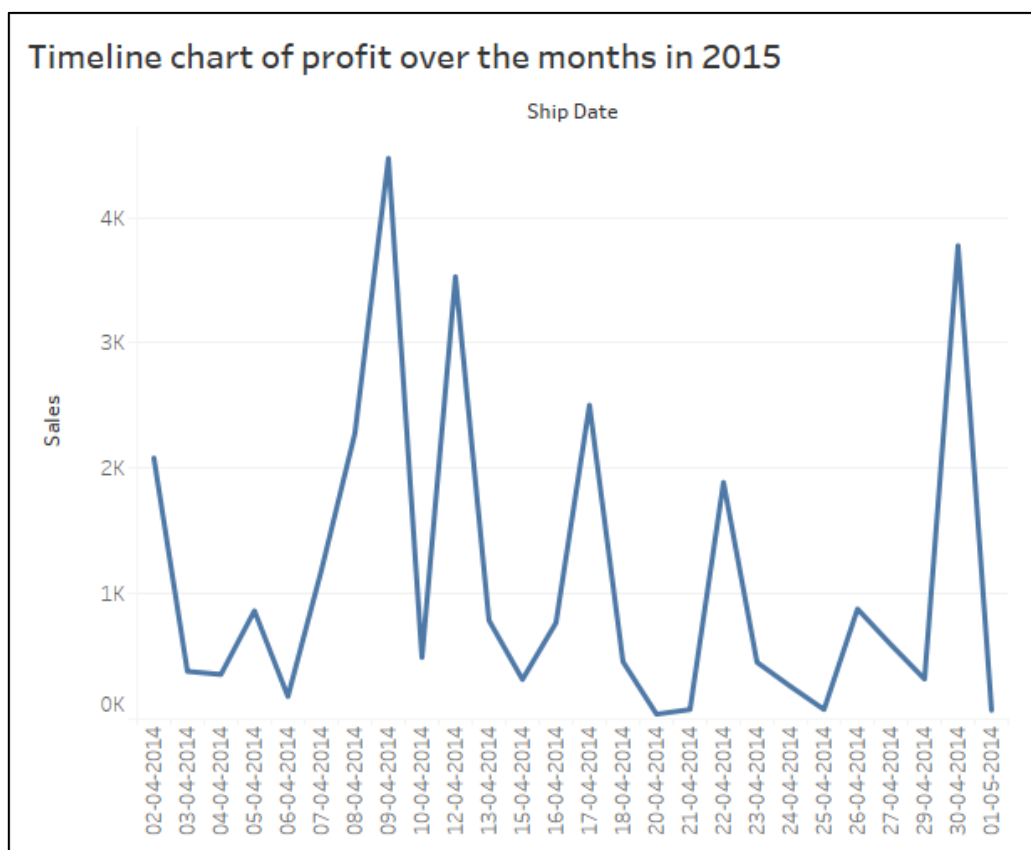
02-04-2014 01-05-2014

07-01-2014 05-01-2018

Show: Only Relevant Values ☐ Include Null Values

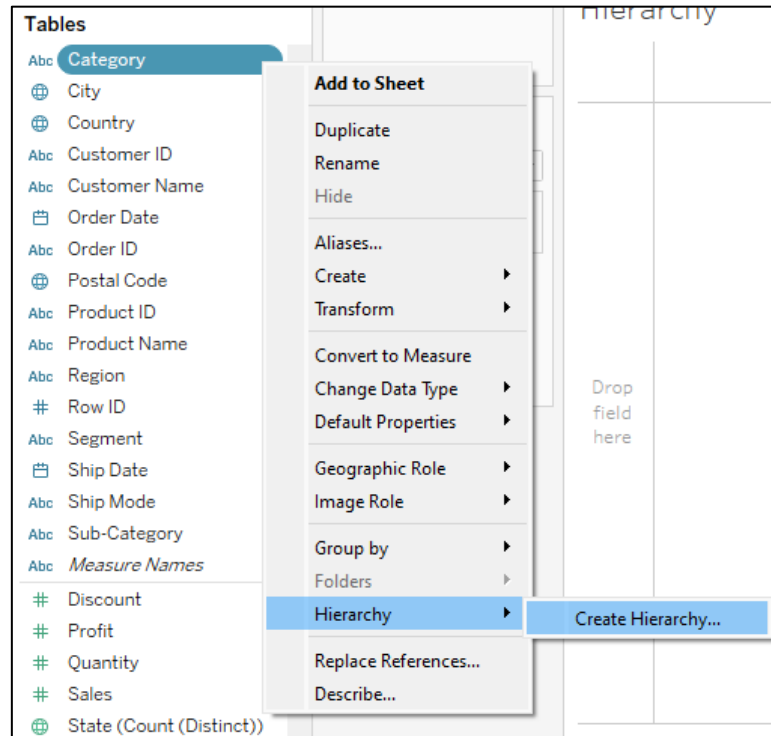
Reset OK Cancel Apply

AFTER →

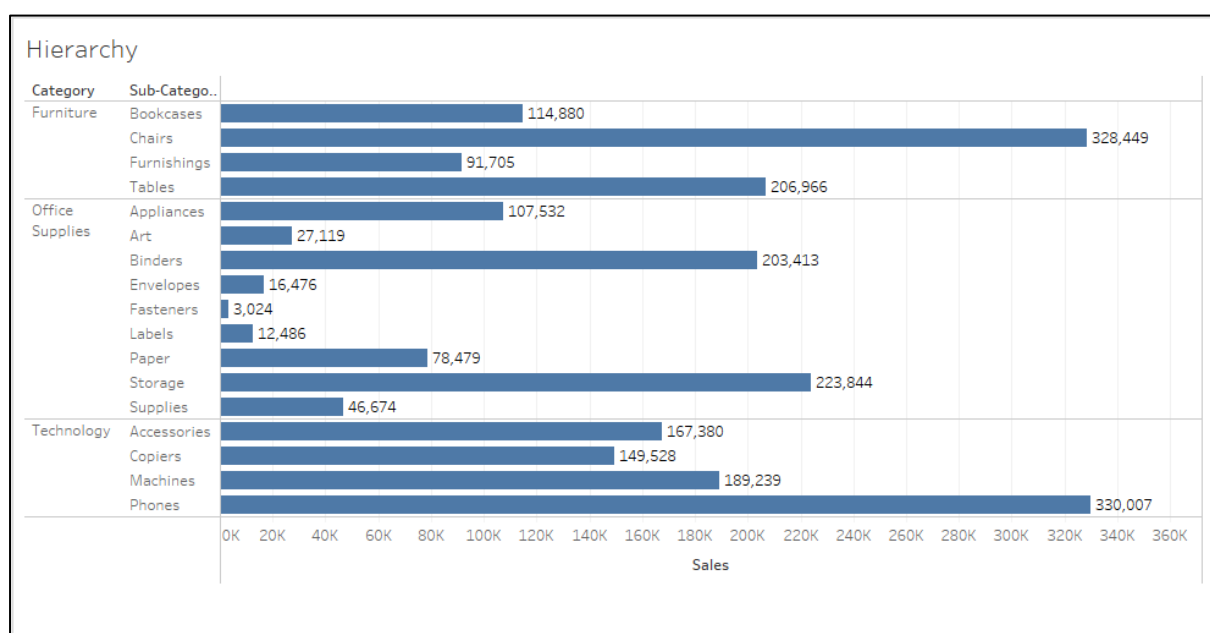
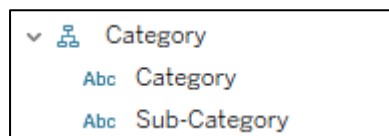


HIERARCHY

In Tableau, hierarchy refers to the organization and grouping of data fields into a structured order, allowing users to drill down or roll up data at different levels of detail. Hierarchies in Tableau are primarily used in dimensions, which are categorical or qualitative data fields.



Created a Hierarchy called Category



Another example,

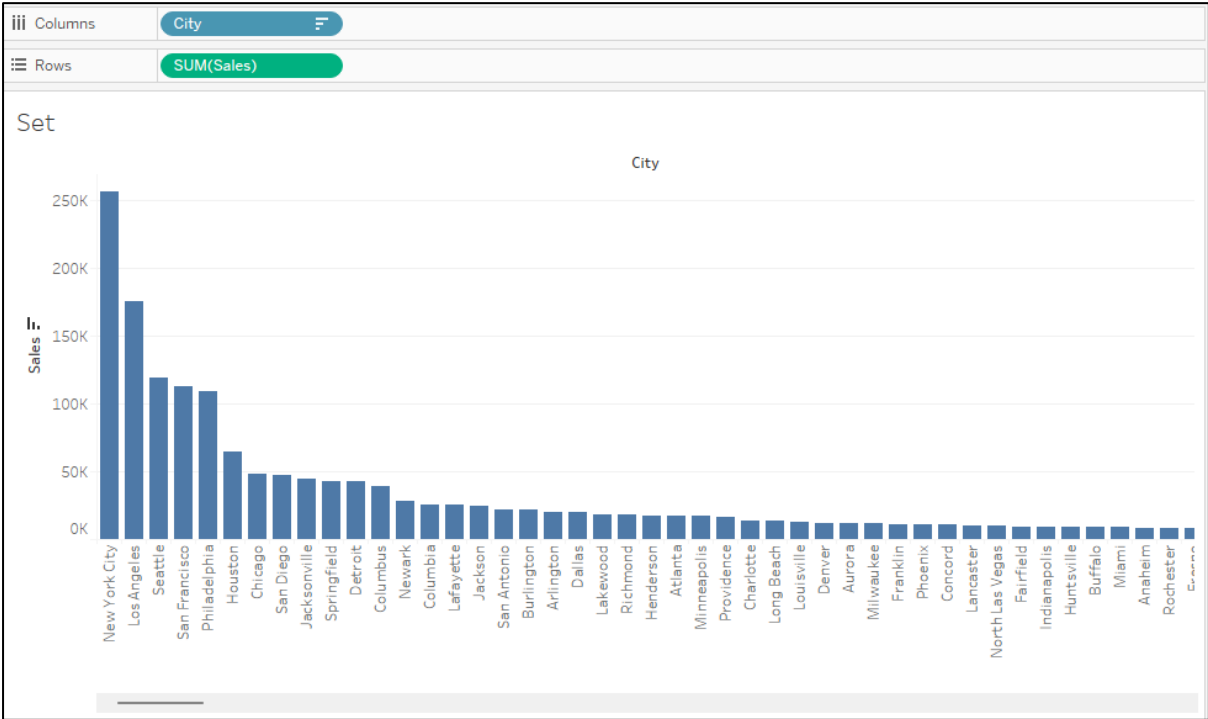
▼	Location
🌐	Country
🌐	City
Abc	Region

Columns			
Rows			
Country			
City			
Region			
Hierarchy 2			
Country	City	Region	
United States	Aberdeen	Central	7
	Abilene	Central	-4
	Akron	East	-187
	Albuquerque	West	634
	Alexandria	South	319
	Allen	Central	-40
	Allentown	East	-226
	Altoona	East	-1
	Amarillo	Central	-388
	Anaheim	West	1,234
	Andover	East	124
	Ann Arbor	Central	229
	Antioch	West	9
	Apopka	South	54
	Apple Valley	Central	9
		West	284
	Appleton	Central	555
	Arlington	Central	-254
		South	4,424
	Arlington Heights	Central	1
	Arvada	West	60
	Asheville	South	78

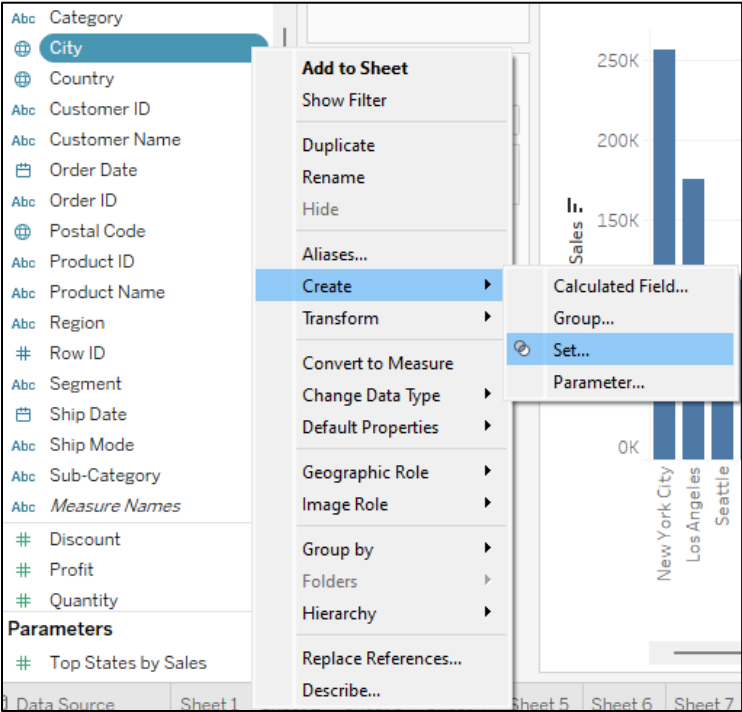
SET

In Tableau, a set is a custom subset of data created based on specific conditions or criteria. Sets allow you to group data points that share common characteristics or meet certain conditions, and they can be used for analysis, visualization, filtering, and calculations. Sets can be created based on dimensions or measures in your data.

Before a set



Creating a set



Create Set

Name: Top 10 City

General Condition Top

☐ None

☒ By field:

Top 10 by

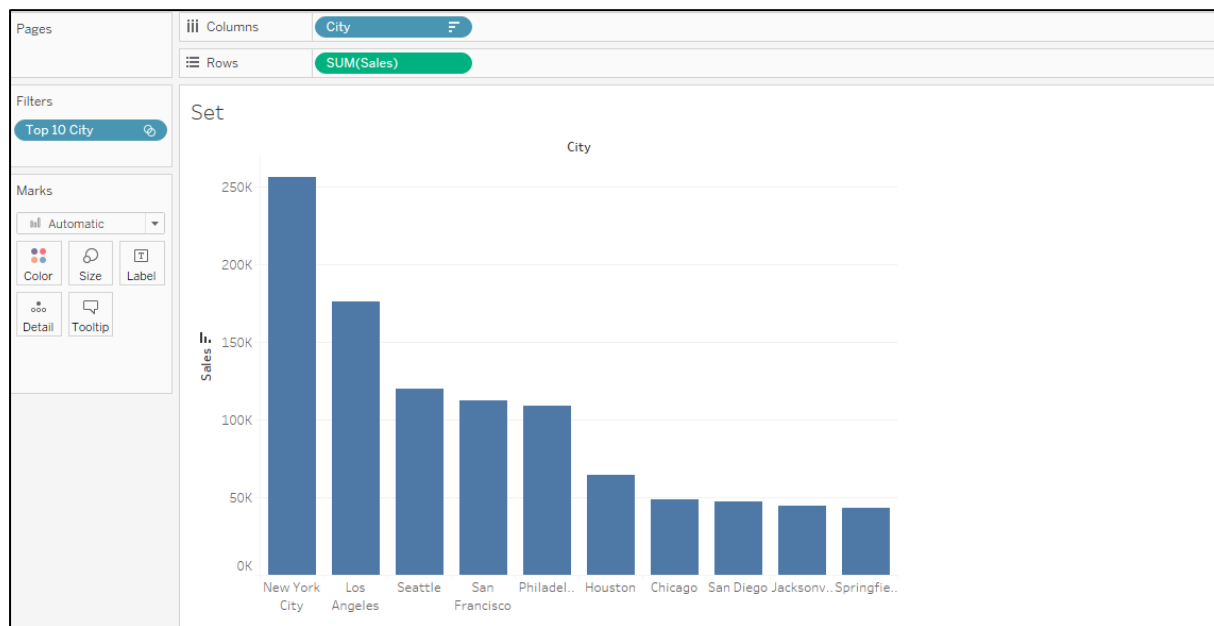
Sales Sum

☐ By formula:

Top 10 by

Reset OK Cancel

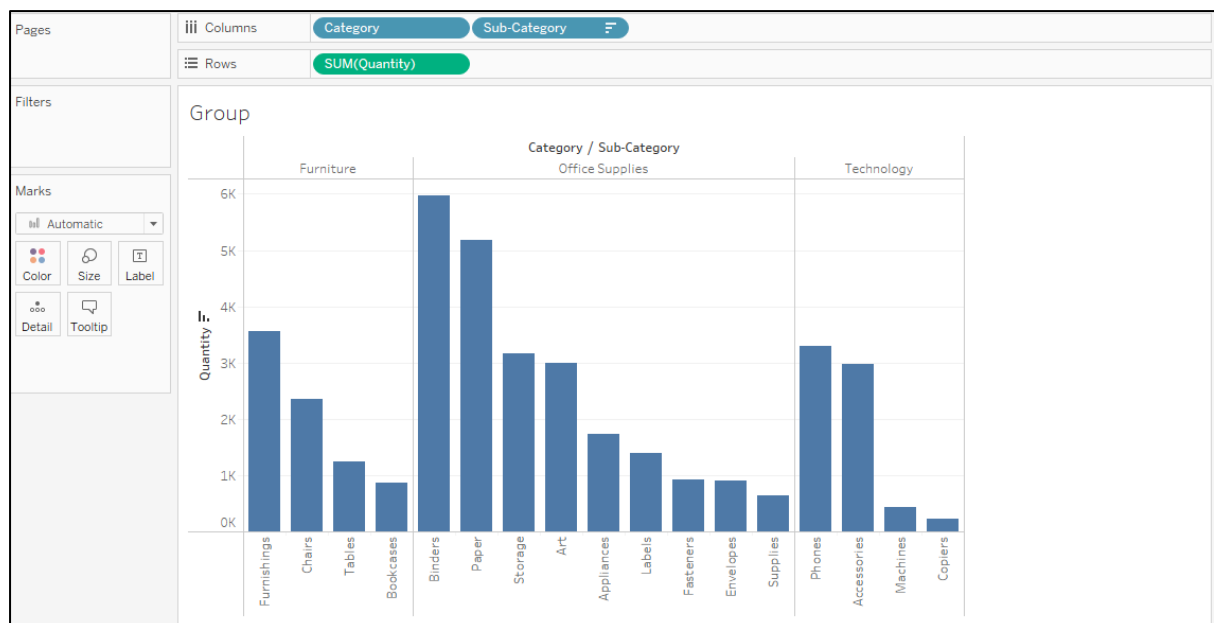
Created a set of Top 10 states of country which acts like a filter.



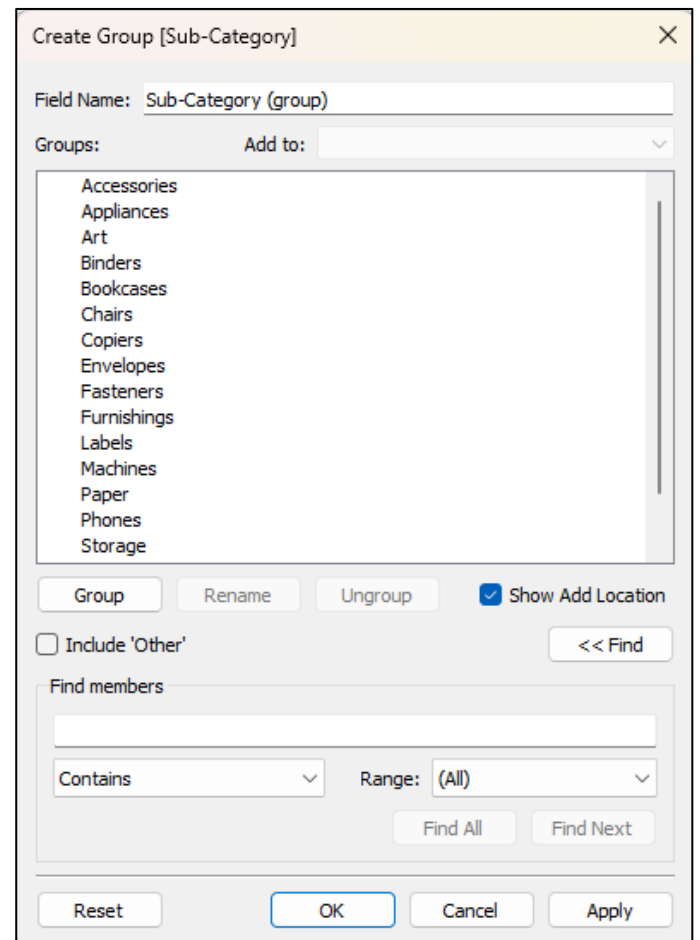
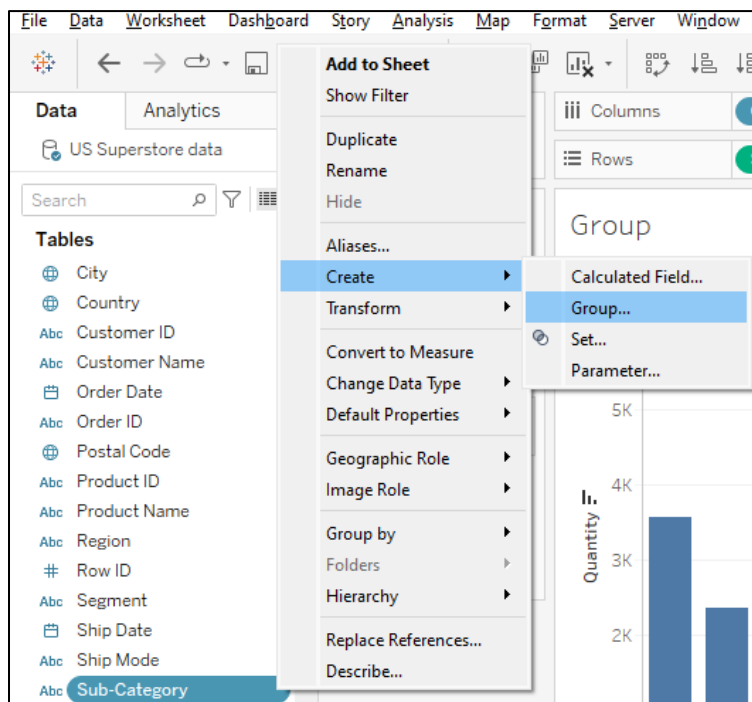
GROUP

In Tableau, grouping refers to the process of combining data points or values into logical categories or groups based on specified criteria. Grouping allows you to create custom groups that are not present in your original data, which can be useful for aggregating and analyzing data at different levels of detail or for creating new dimensions.

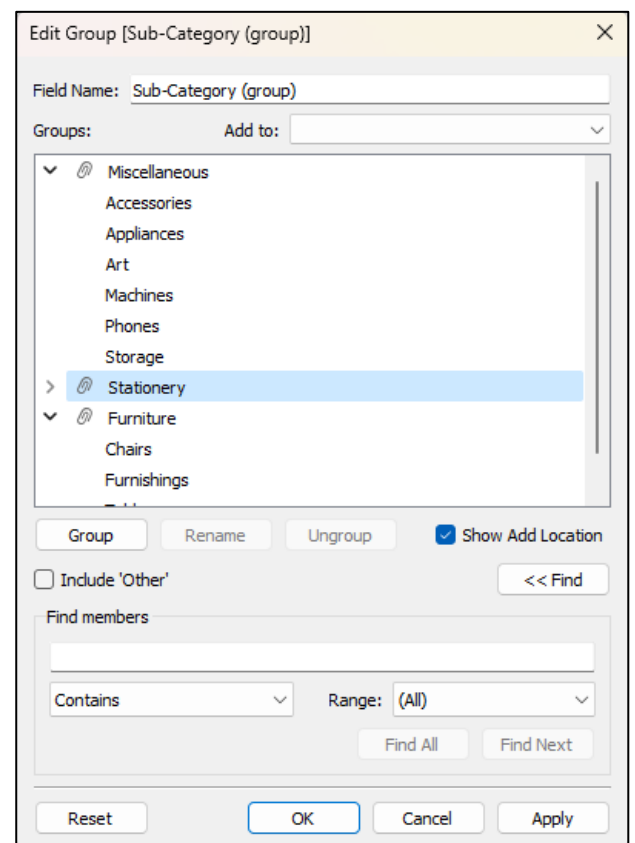
Before Grouping



Creating a Group



Created custom groups →



After Grouping →

Colored based on Custom made Group.

