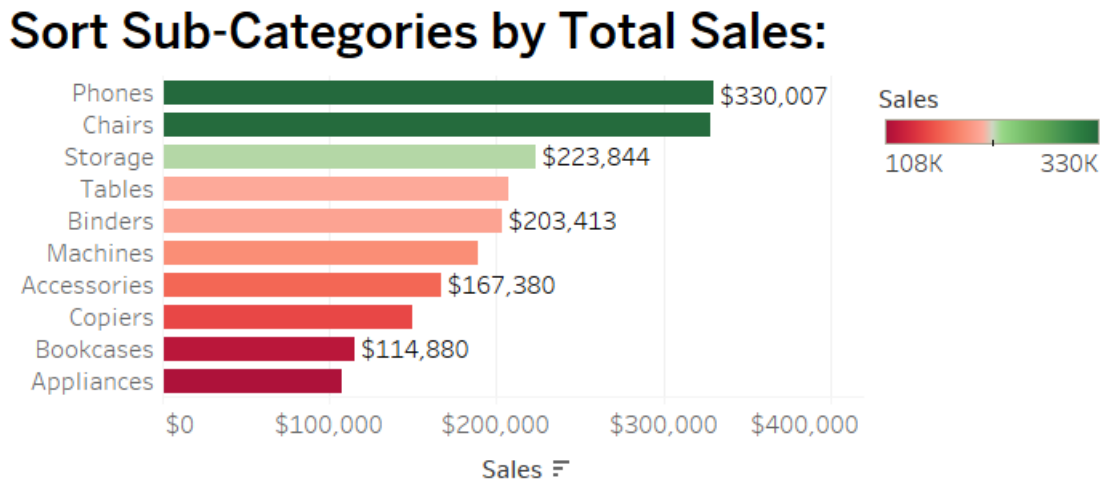
Lab-3
Date:14.08.2024

Perform these tasks on Superstore_Context data.

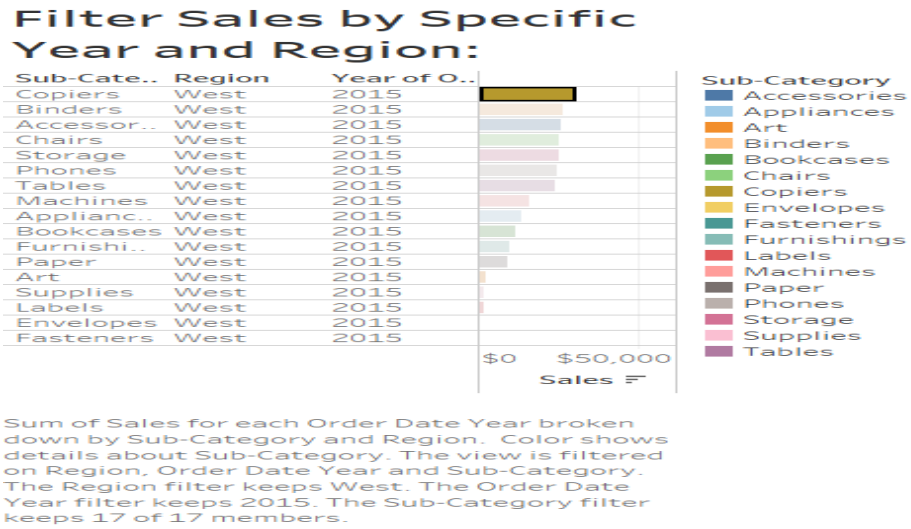
1. Sort Sub-Categories by Total Sales:

- Create a view that displays total sales for each Sub-Category.
- Sort the Sub-Categories in descending order based on their total sales.
- Display the top 10 Sub-Categories by sales in a bar chart.
- Provide Access to the User to Change the Number of Top Sub-Categories Displayed



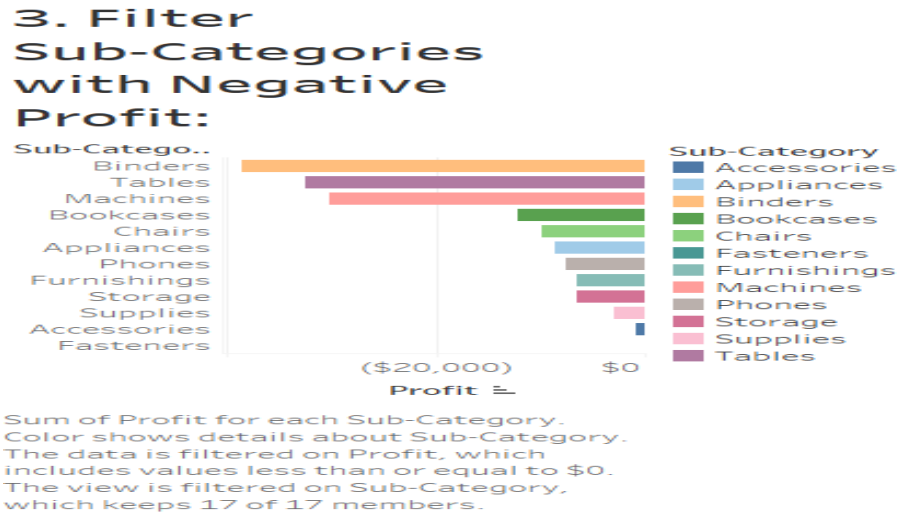
2. Filter Sales by Specific Year and Region:

- Create a view showing total sales.
- Add filters for both Order Date (to select a specific year) and Region.
- Display the sales figures for the selected year and region.



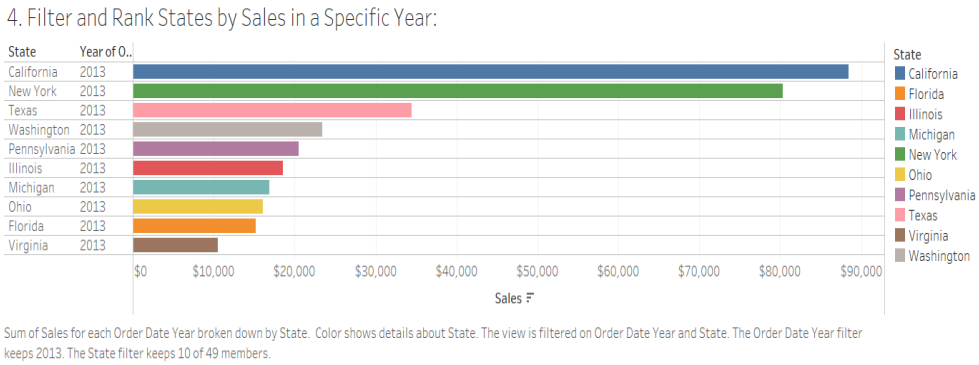
3. Filter Sub-Categories with Negative Profit:

- Create a view that shows the profit for each Sub-Category.
- Apply a filter to display only the Sub-Categories with negative total profit.
- Analyze which Sub-Categories are underperforming.



4. Filter and Rank States by Sales in a Specific Year:

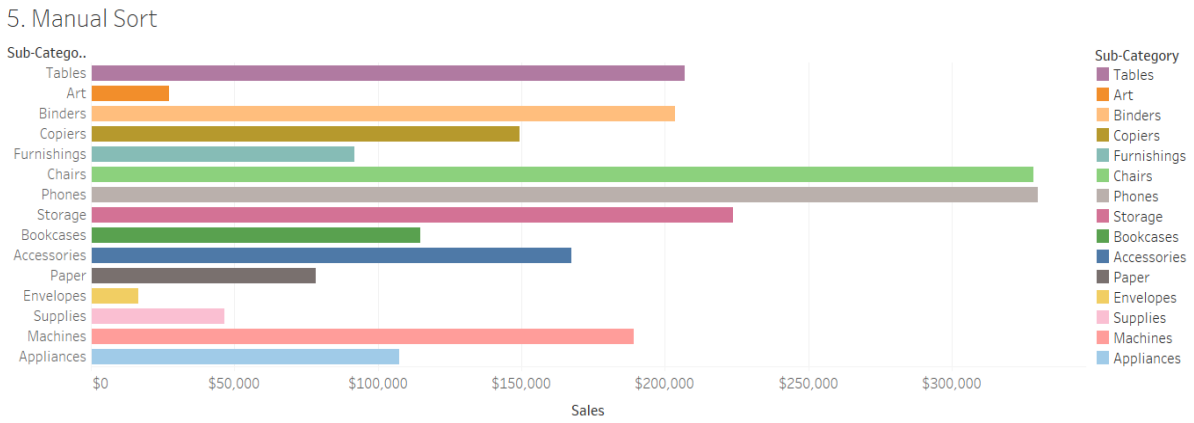
- Create a view showing sales by State.
- Add a filter for Order Date to allow selection of a specific year.
- Rank the States by their total sales for the selected year and display the top 10 States in a bar chart.



5. Manual Sort Your company is focusing on optimizing its sales strategy by prioritizing certain product Sub-Categories based on a mix of seasonal demand, profitability, and market trends. After identifying the top 15 Sub-Categories by sales, the company wants to rearrange these Sub-Categories in a specific order that aligns with its strategic goals, rather than following the natural order by sales figures or alphabetical order.

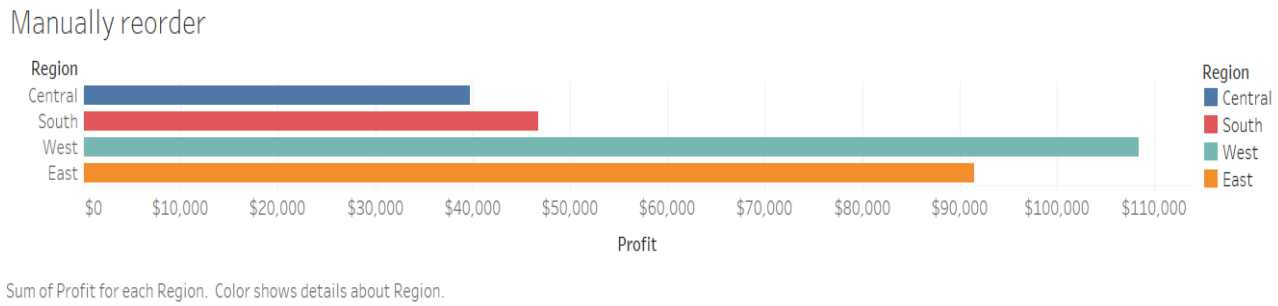
Task: 1. Create a view in Tableau that displays Sales by Sub-Category.
2. Filter the view to display only the top 15 Sub-Categories by Sales.
3. Manually reorder the filtered Sub-Categories according to the company's strategic priority, using the following custom order:
o Tables
o Art
o Binders

o Copiers
o Furnishings
o Chairs
o Phones
o Storage
o Bookcases
o Accessories
o Paper
o Envelopes
o Supplies
o Machines
o Appliances



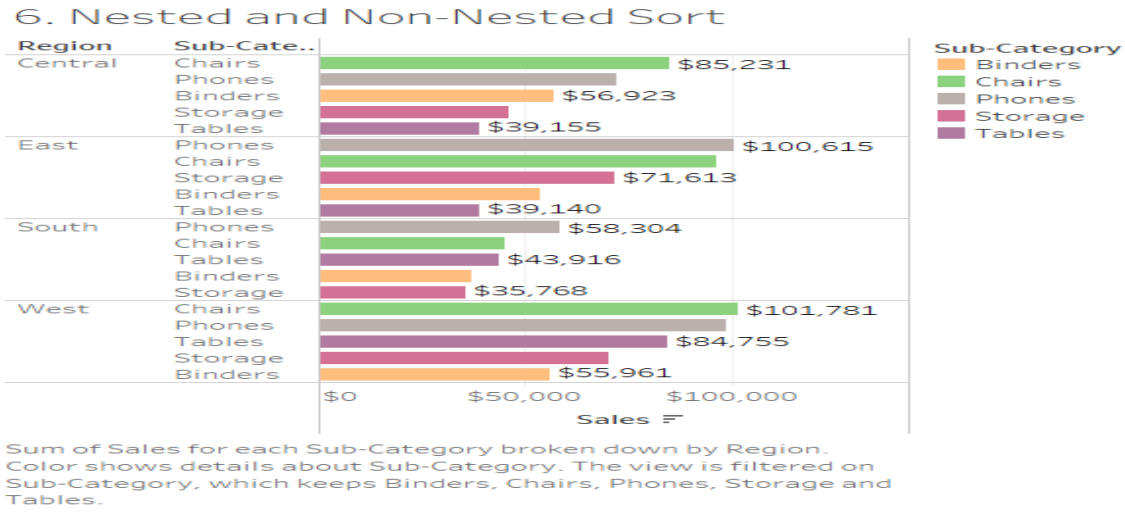
Your company has identified specific regions that should be prioritized based on their strategic importance and operational focus for the upcoming year. The regions need to be displayed in a custom order that reflects this priority, rather than their natural order by profit or alphabetical order.

Task: 1. Create a view in Tableau that displays Profit by Region.
2. Manually reorder the Regions according to the following custom priority order:
o Central
o South
o West
o East



6. Nested and Non-Nested Sort Create a view in Tableau that shows Sales broken down by Region and Sub Category.

1. Sort the Regions by total Sales in descending order so that the Region with the highest Sales appears first.
2. Sort within each Region to sort Sub-Categories by their Sales, ensuring that the top 5 performing Sub-Categories show in the chart.
3. Create a comparative chart that shows aggregate top sales over top in all regions.
4. Analyze the results to understand the key trends in how different Sub Categories perform across Regions.



key trends :-

In the Central chairs is highest, In East phones is highest ,South phones is highest,In West chairs is highest in each subcategory.And overall trends is chairs highest.

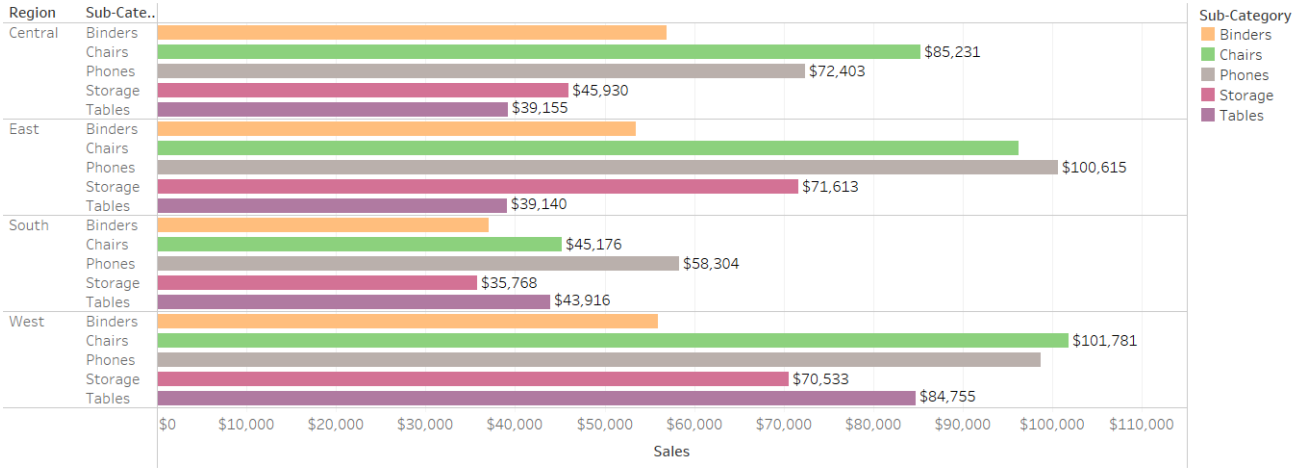
After applying both nested and non-nested sorting to the Sales data by Region, Category and Sub-Category:

2. In what scenarios do you think each sorting method would be most helpful?
Explain why you would choose one method over the other depending on the context.

Ans:-

Nested sorting is most useful to data visualization and they are depending to each other because variable are present in the table then we apply the nested .

6. Nested and Non-Nested Sort

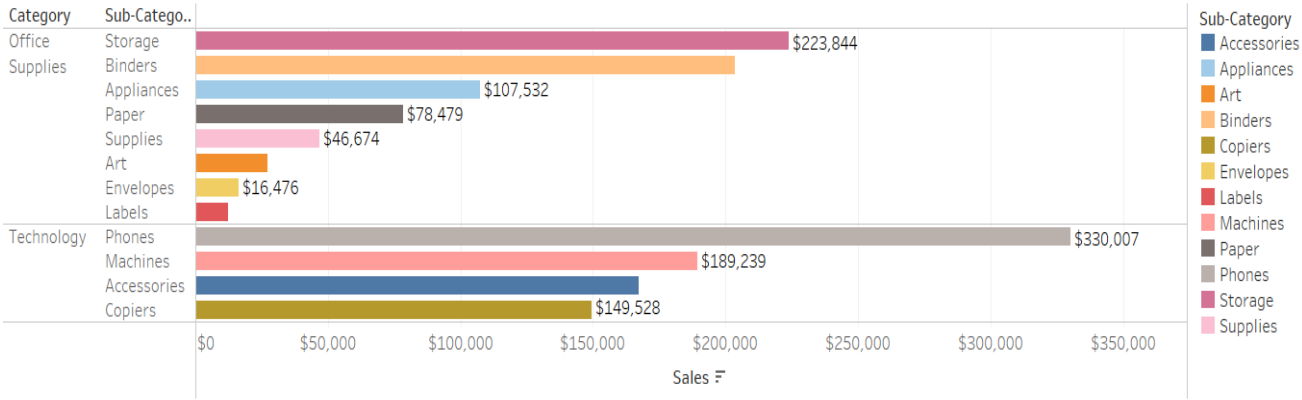


Sum of Sales for each Sub-Category broken down by Region. Color shows details about Sub-Category. The view is filtered on Sub-Category, which keeps Binders, Chairs, Phones, Storage and Tables.

1. What differences do you observe between the two sorting methods?
Ans:- In this method shorting by there alphbetical order and also non-nested form .

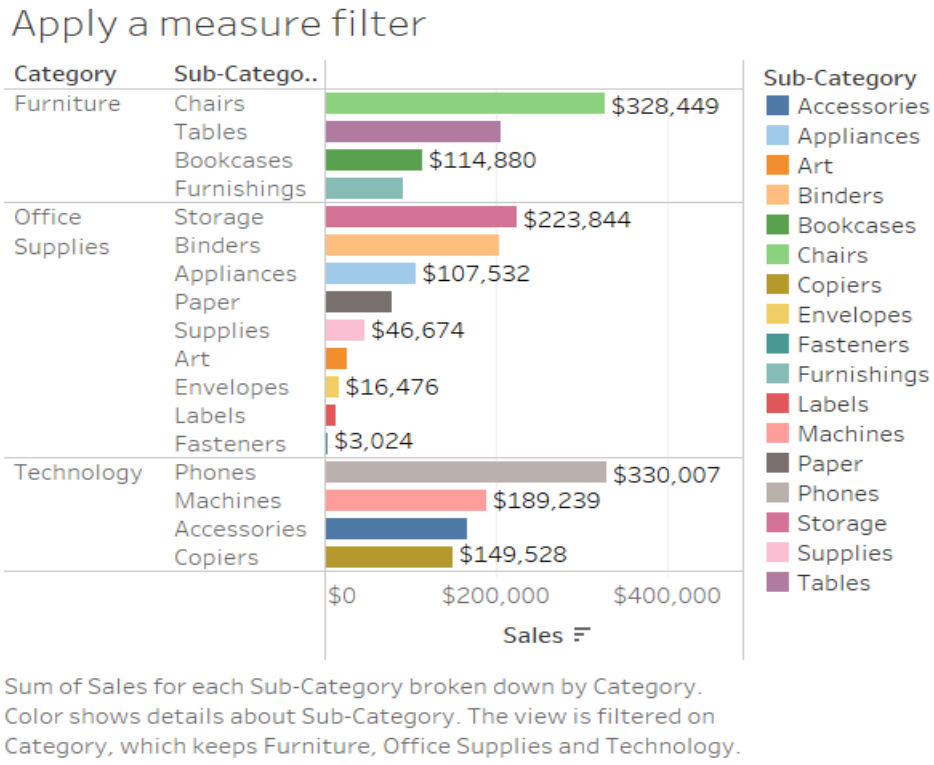
Question: 1. Create a view in Tableau showing Sales by Category and Sub-Category.
2. Apply a measure filter to display only Sub-Categories with Sales greater than $10,000.
3. Apply a dimension filter to show only specific Categories (e.g., "Office Supplies" and "Technology").

Apply a measure filter



Sum of Sales for each Sub-Category broken down by Category. Color shows details about Sub-Category. The view is filtered on Sub-Category and Category. The Sub-Category filter excludes Fasteners. The Category filter keeps Office Supplies and Technology.

Explain: ⌄ How does applying the measure filter first impact the data shown when the dimension filter is applied afterward?
Ans:-we choose sales sub-category to applly condition then category filter which visual for information.
⌄ What happens if you switch the order and apply the dimension filter first before the measure filter? How does the final view differ in each case?



Ans:- when dimension filter first before the measure filter then measure filter automatic switch and sales less than 10,000 also show in view.