

Name : KOVVURU VENKATA MRUNALINI REDDY

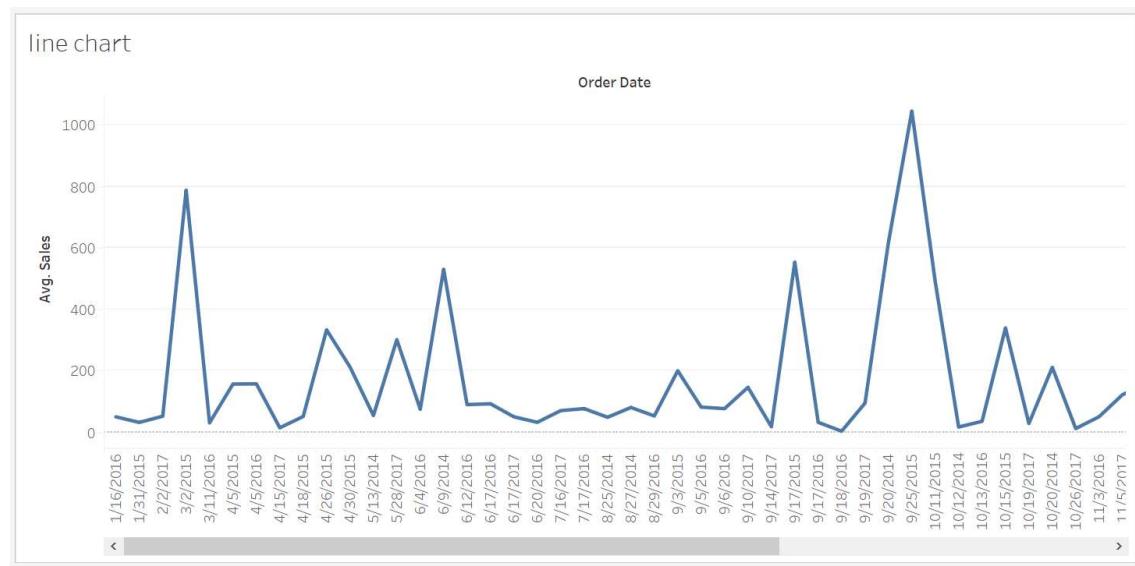
Reg.no : 20MID0116

## Campus : Vellore

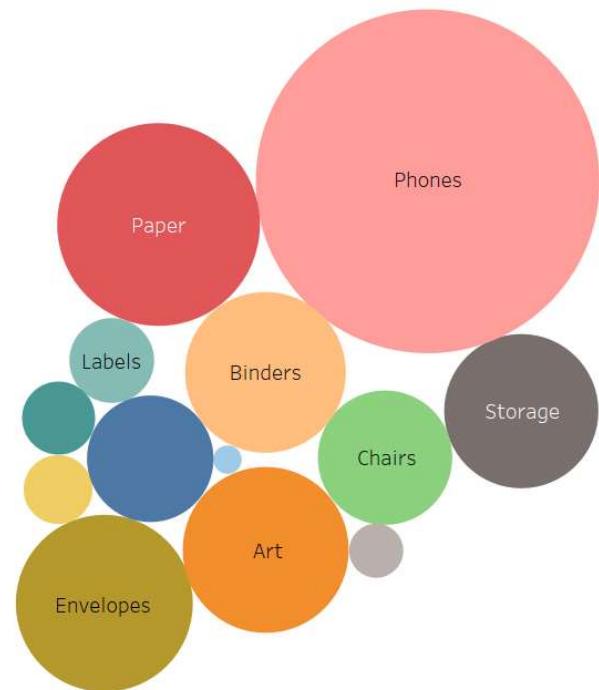
## Course : Data analytics

## Assignment : 02

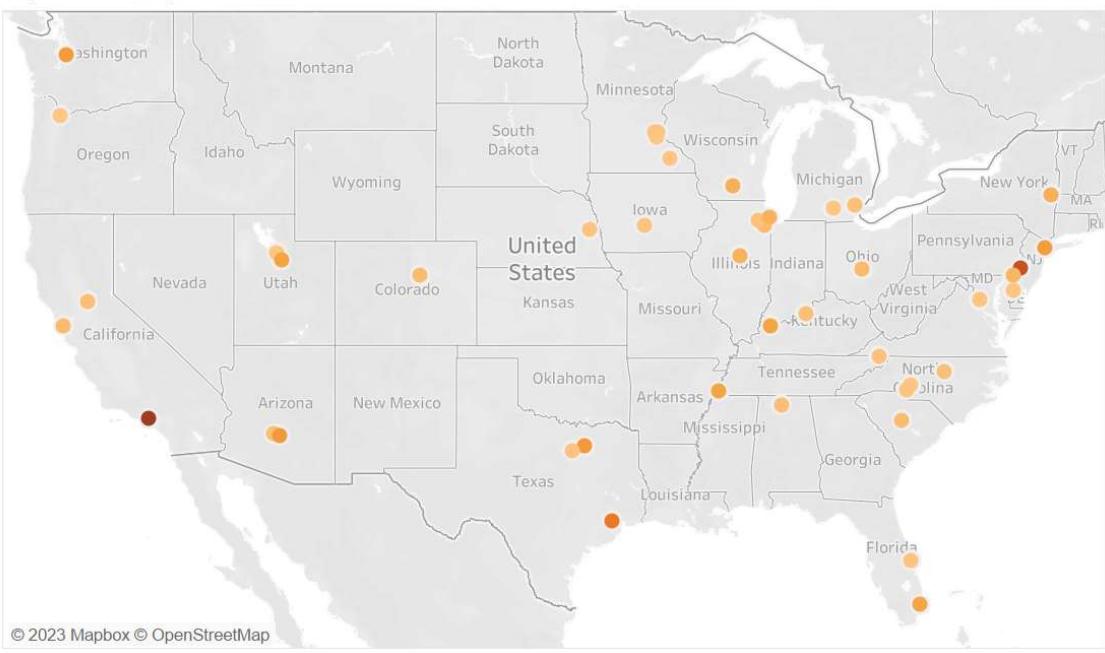
## 1) create any 7 data visualizations



bubble chart



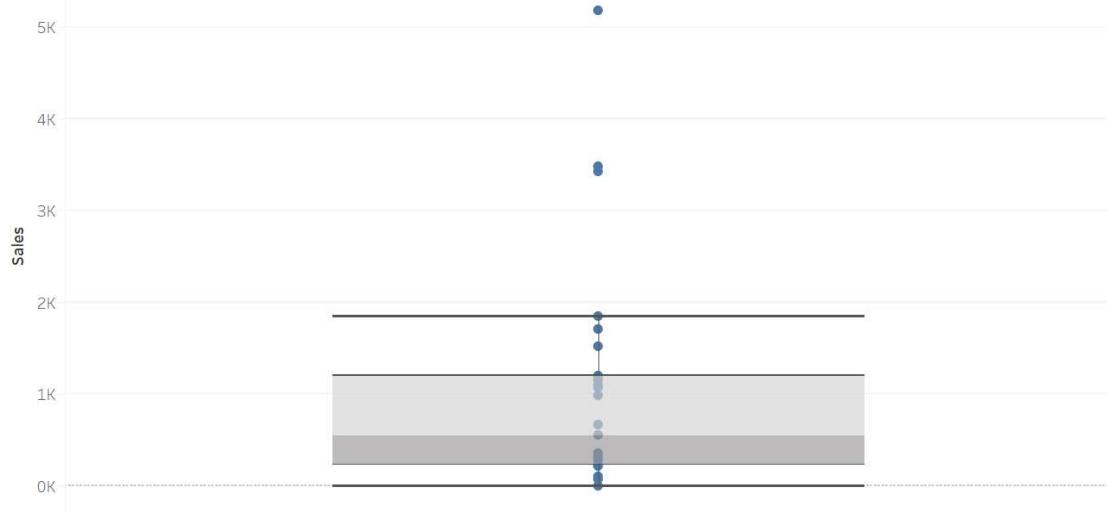
symbol map



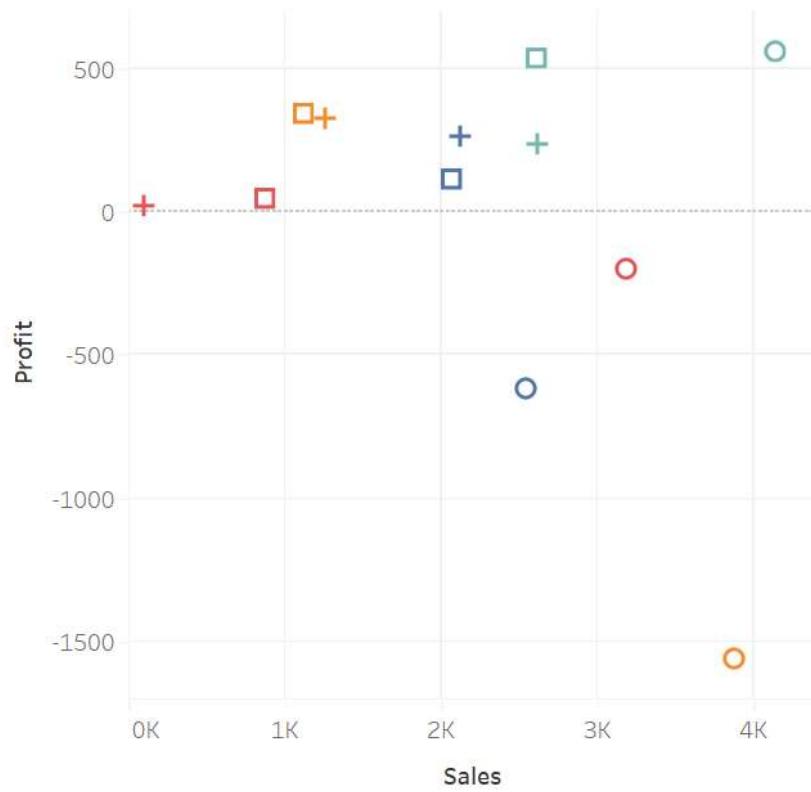
## highlight table

Category	Sub-Catego..	
Furniture	Bookcases	-1,670
	Chairs	113
	Furnishings	34
	Tables	-300
Office Supplies	Appliances	5
	Art	173
	Binders	162
	Envelopes	197
	Fasteners	30
	Labels	45
	Paper	258
	Storage	149
Technology	Supplies	18
	Accessories	101
	Phones	743

boxplot



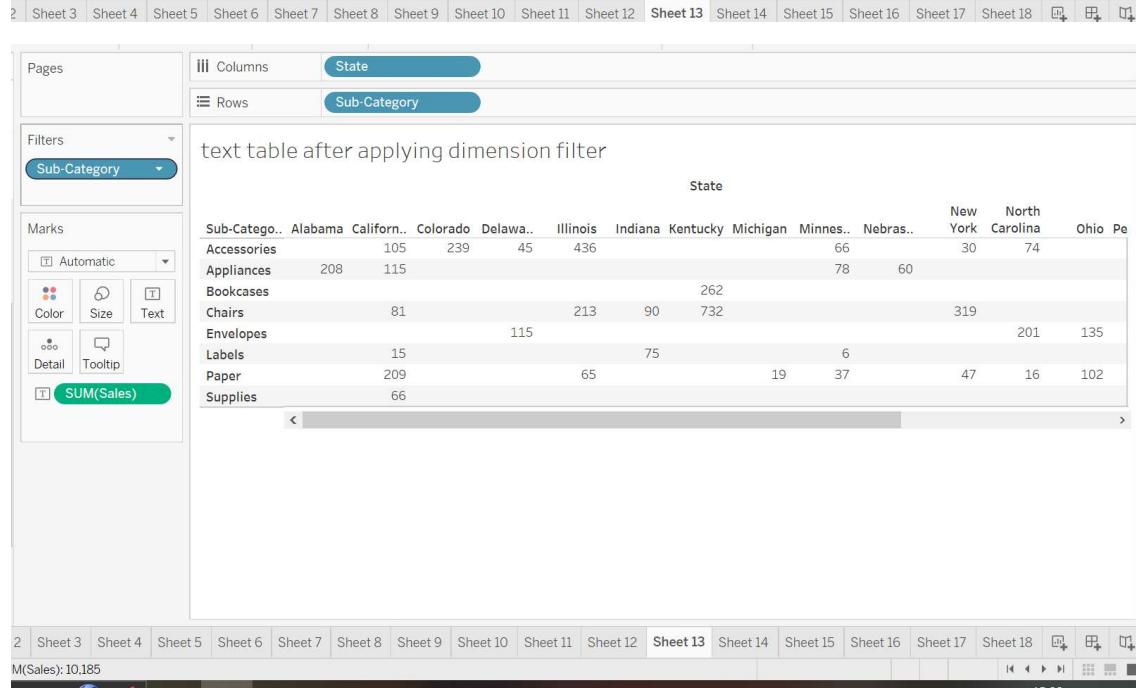
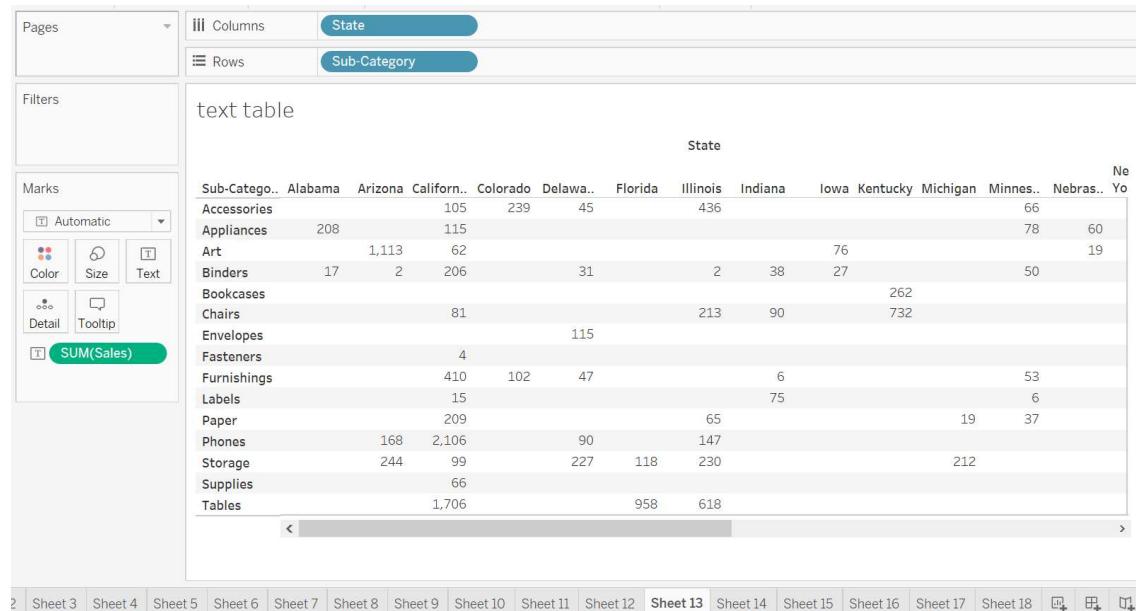
scatter plot



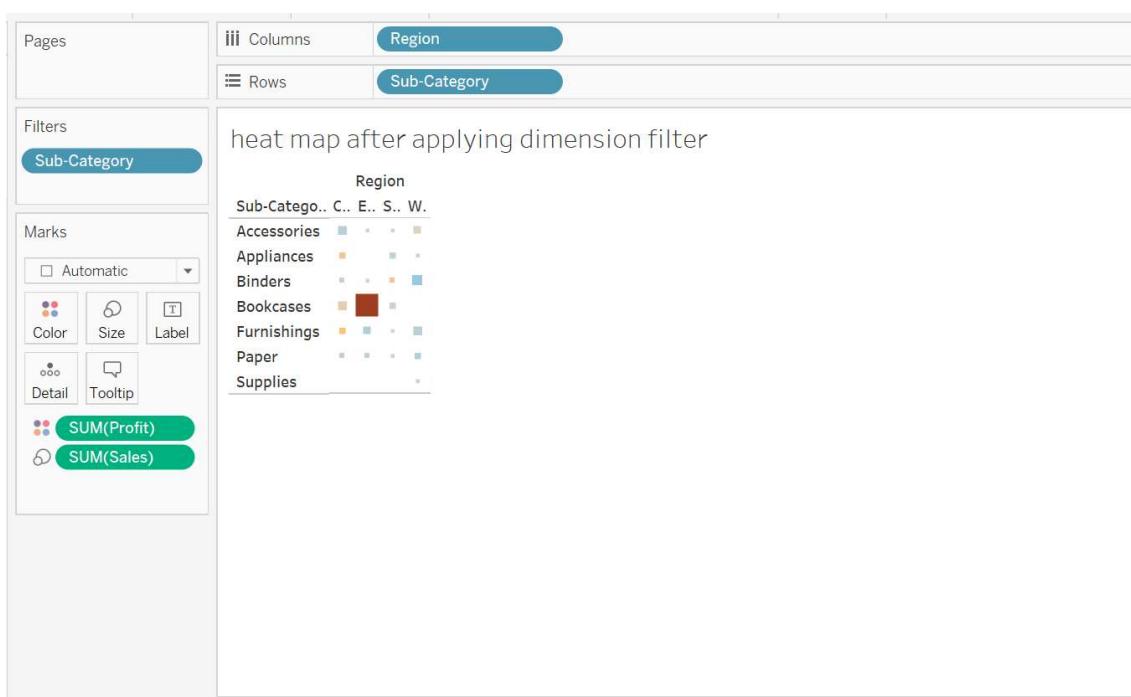
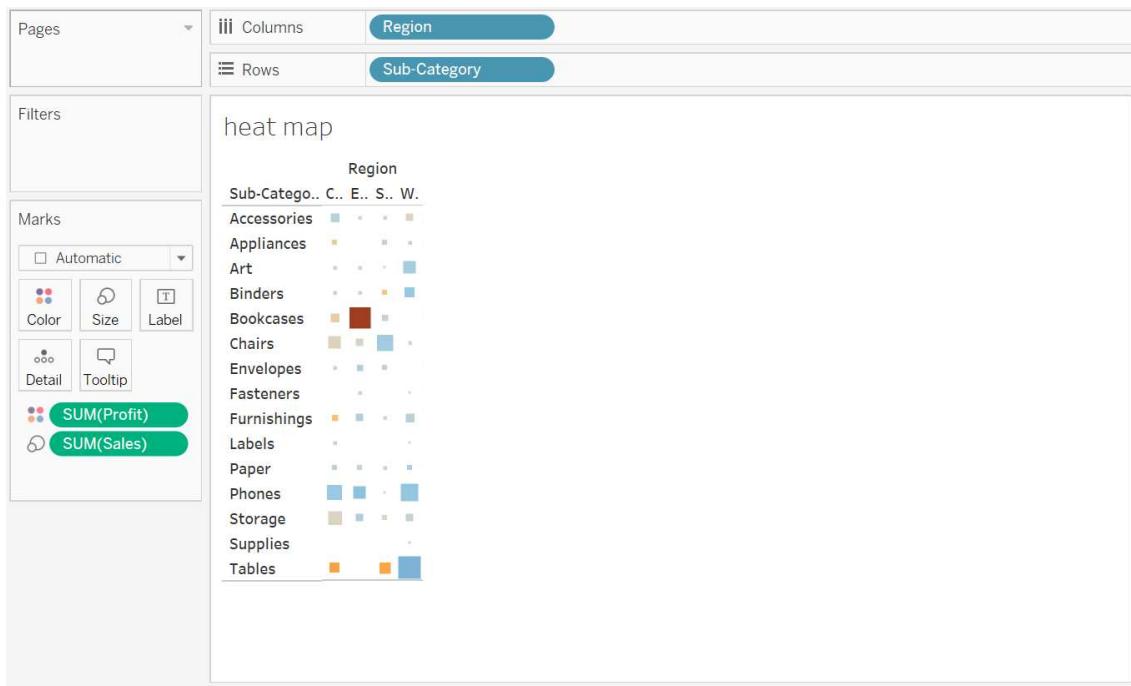
## 2) Apply dimension, context filter and measure filter to any three visualizations

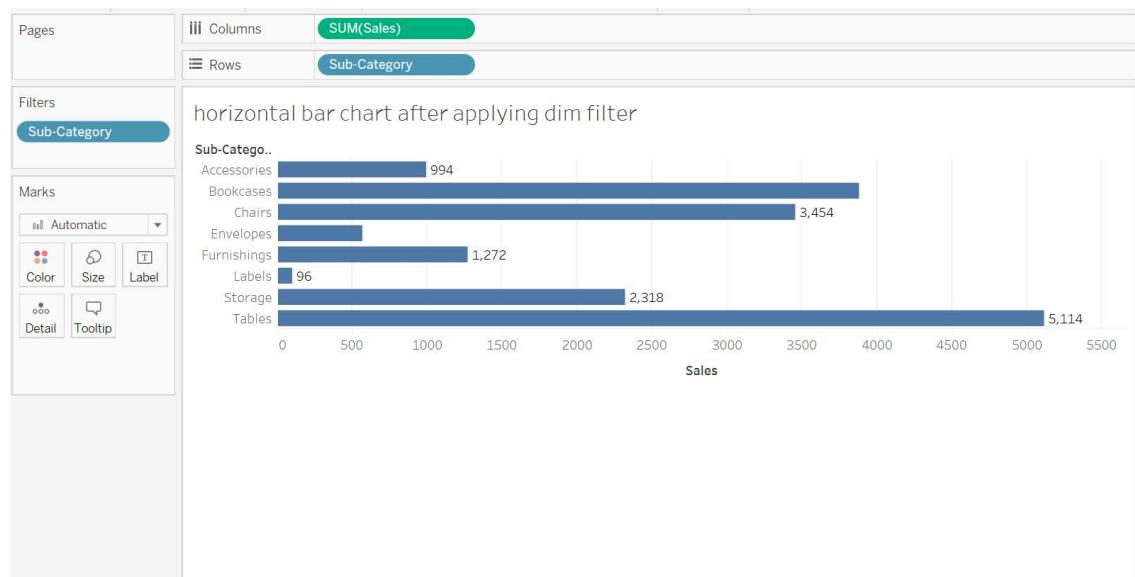
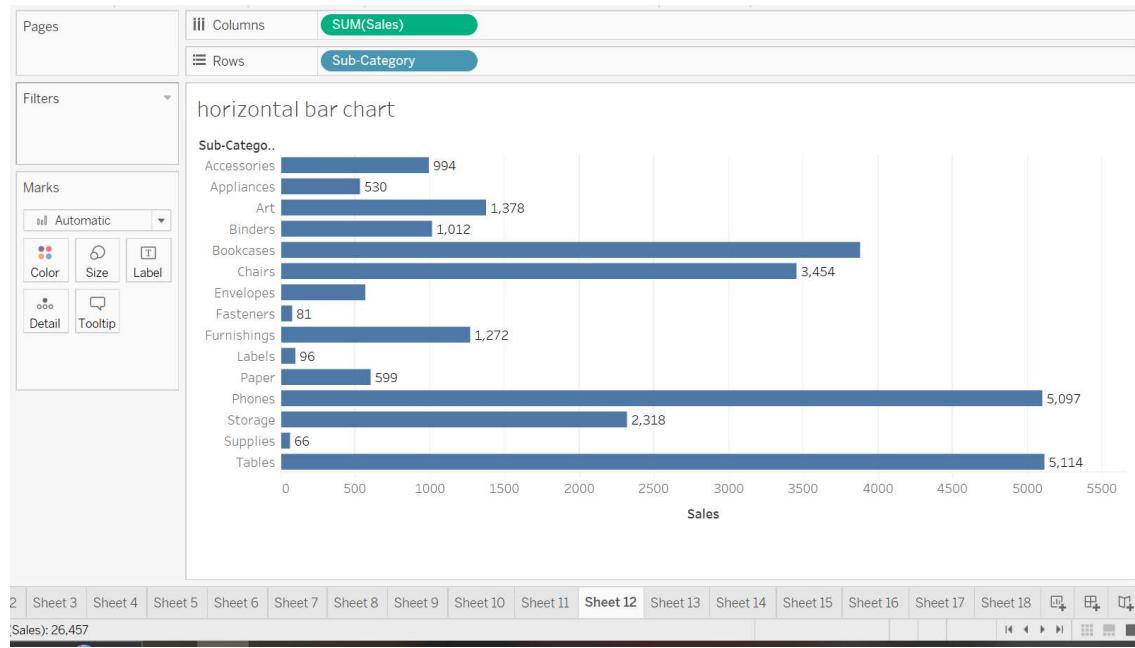
### Filters

#### Dimension filter

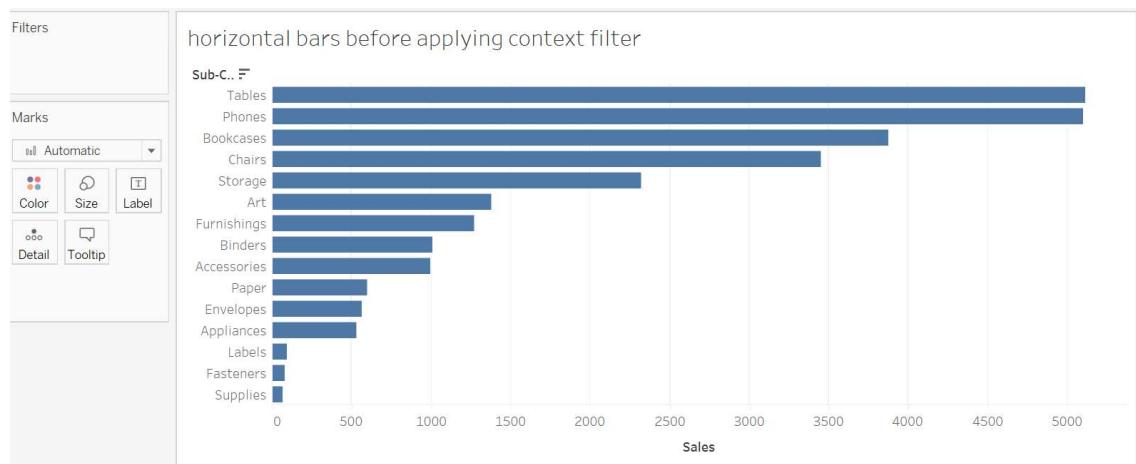


M(Sales): 10,185

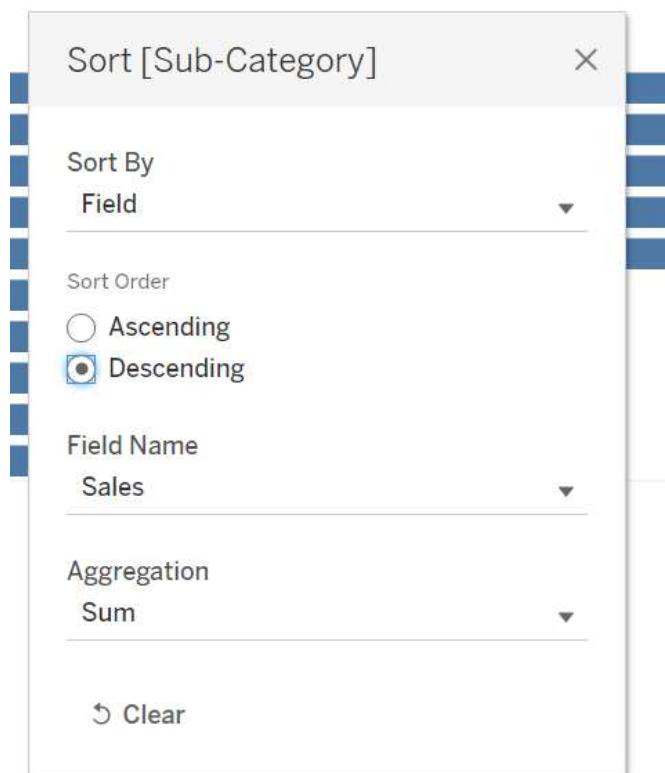
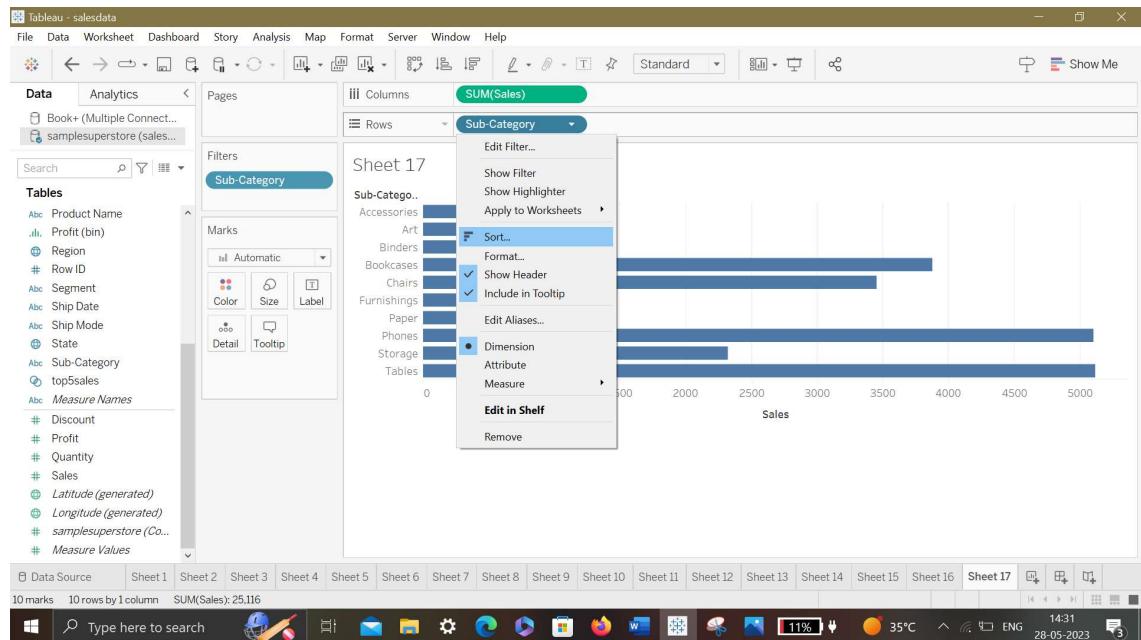


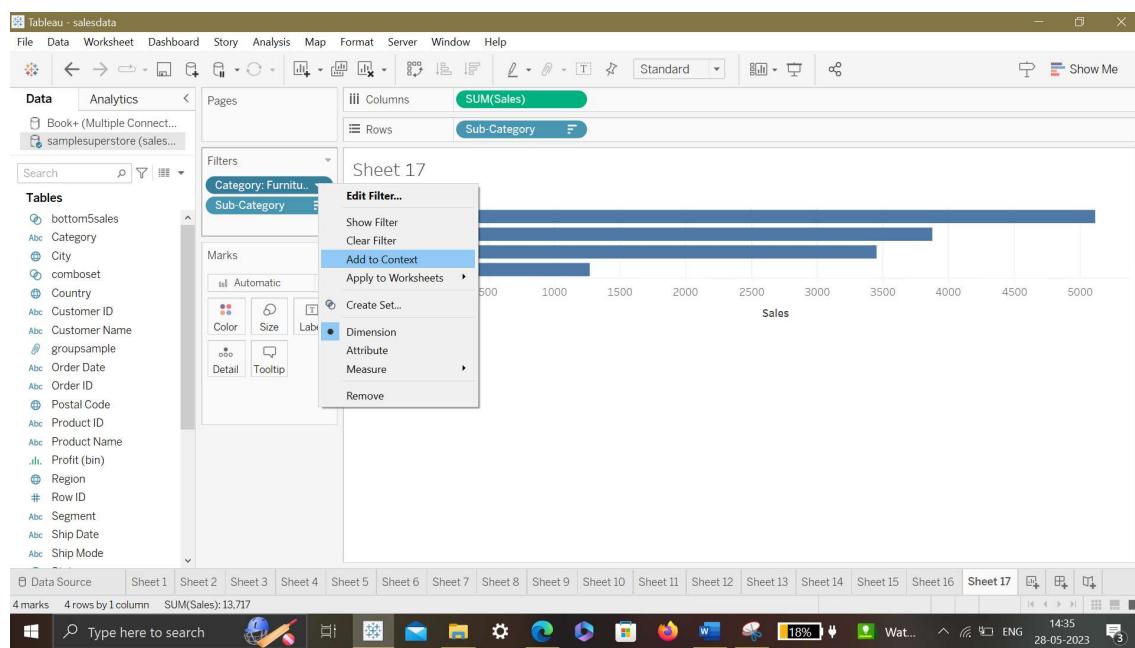
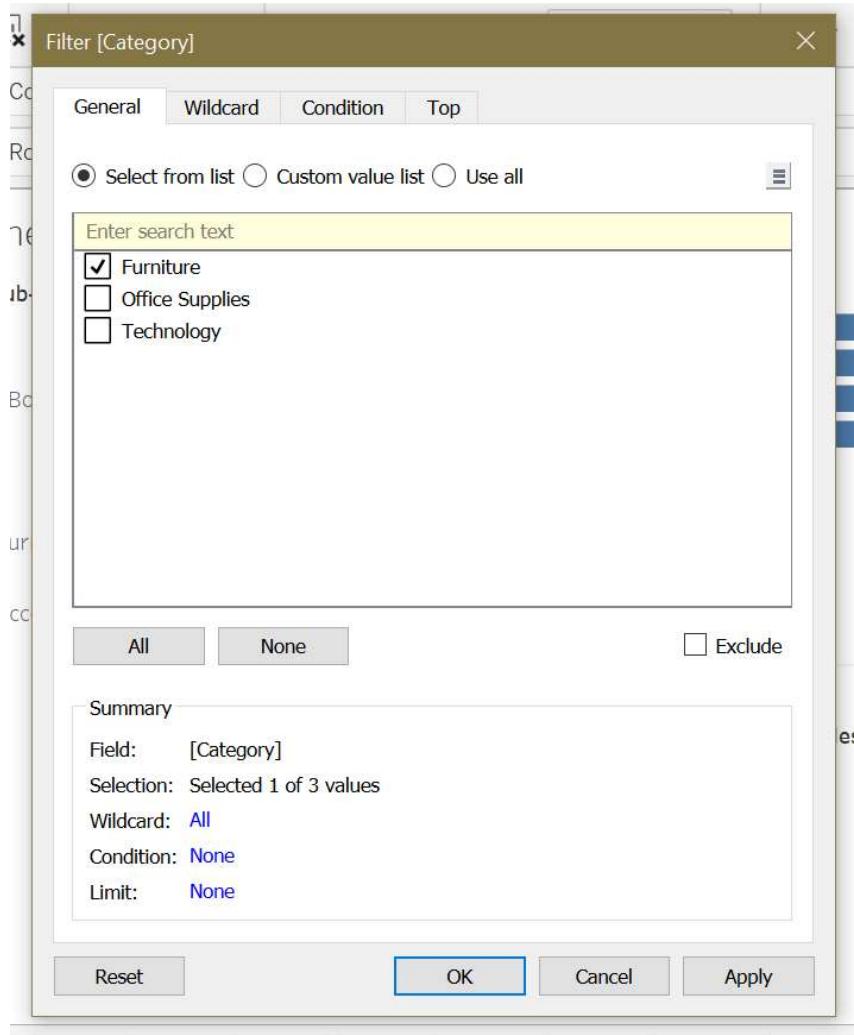


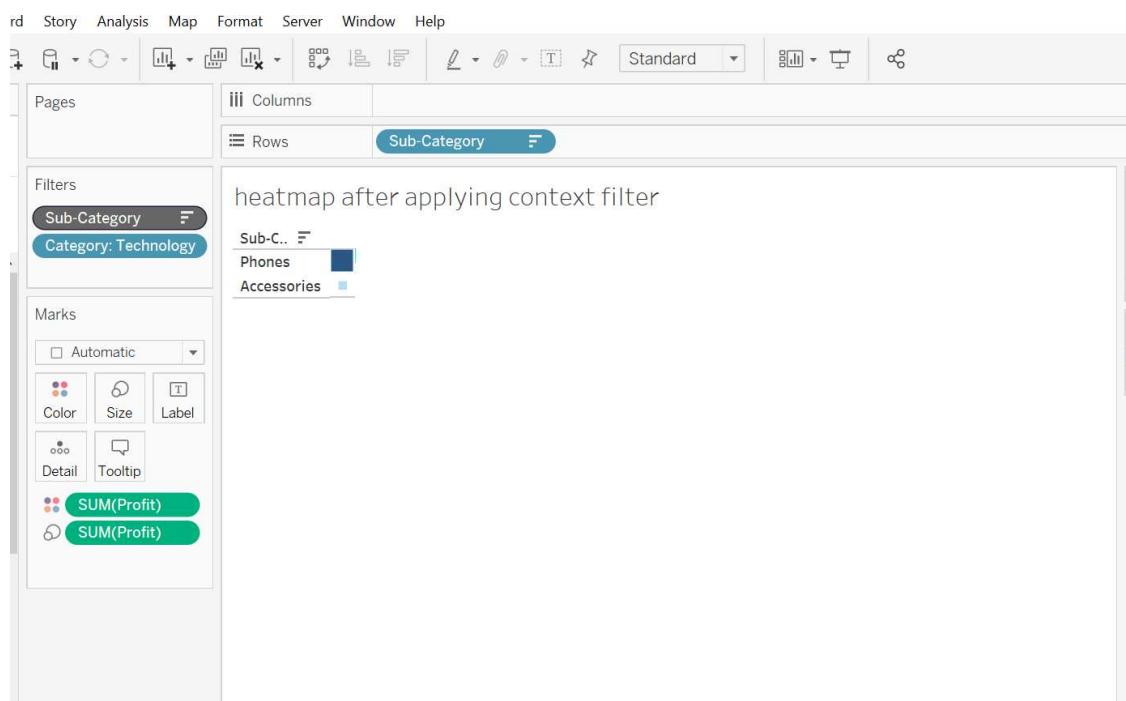
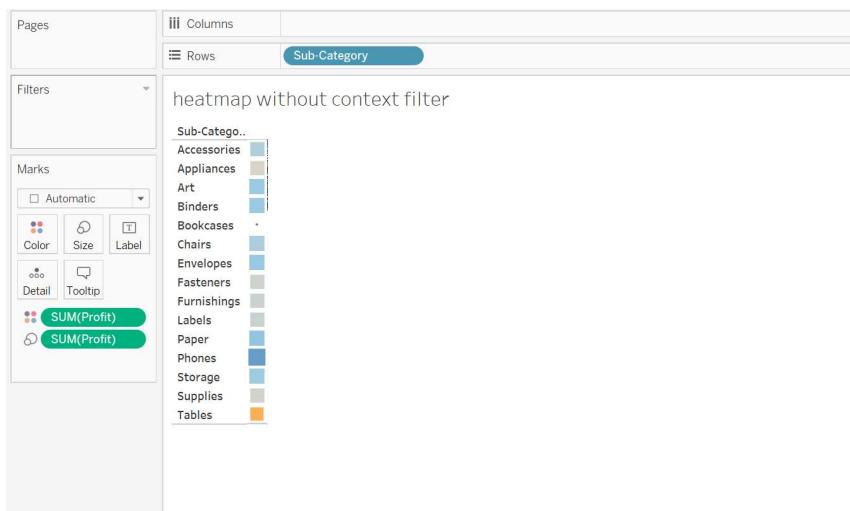
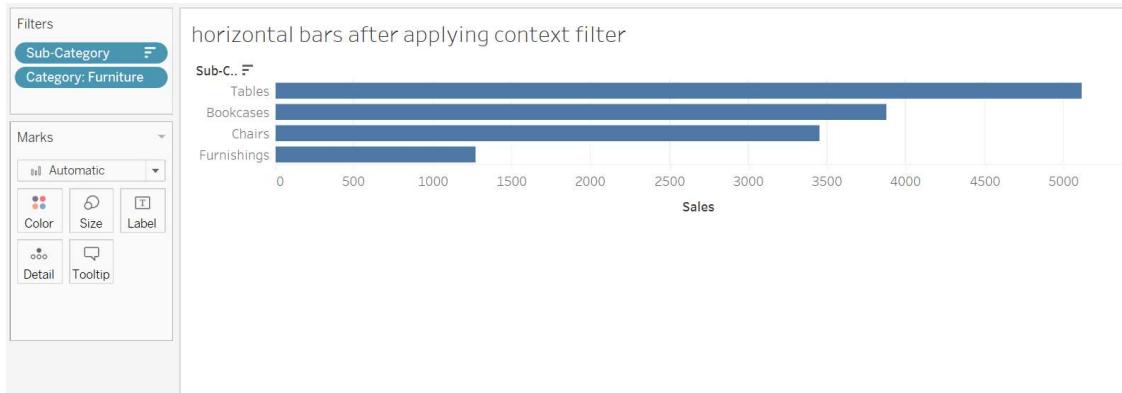
## Context filter



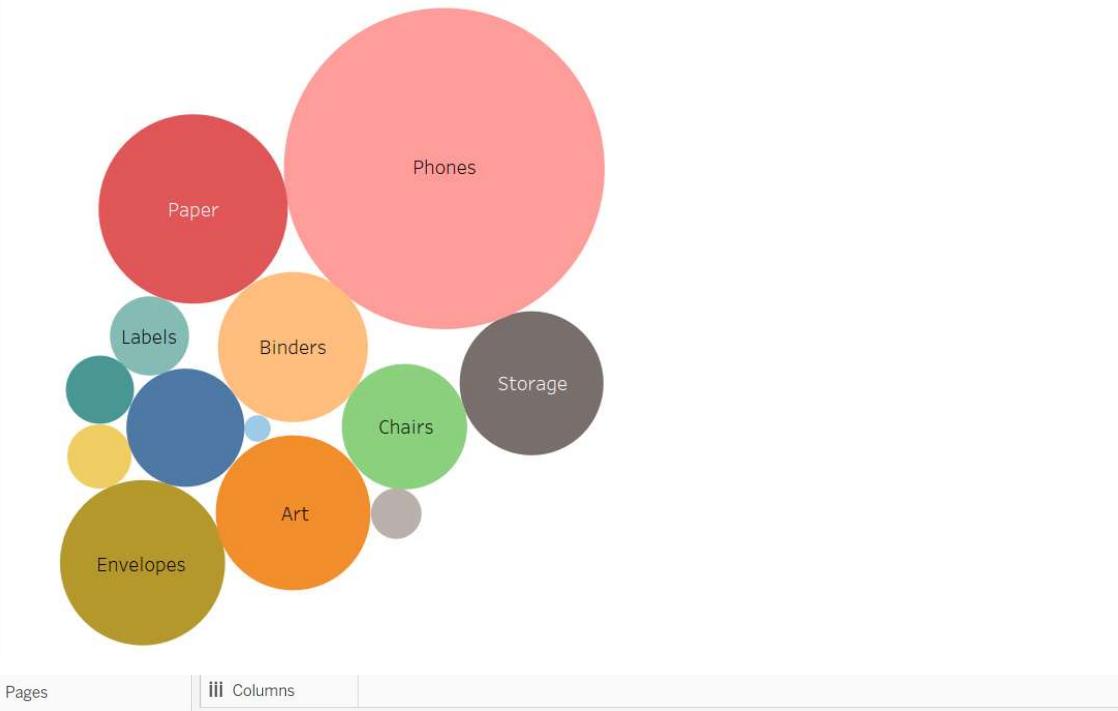
The screenshot shows the Tableau interface for connecting to the 'samplesuperstore' schema. On the left, the 'Connections' pane shows 'localhost MySQL' selected. The 'Database' pane shows 'salesdata\_schema' selected. The 'Table' pane lists 'samplesuperstore', 'New Custom SQL', 'New Union', and 'New Table Extension'. The main workspace displays the 'samplesuperstore' schema with a central box labeled 'samplesuperstore' and two smaller boxes representing tables. A callout text 'Need more data?' with the sub-instruction 'Drag tables here to relate them.' and a link 'Learn more' is present. Below this, a preview of the 'samplesuperstore' table structure is shown with columns: #, Name, Row ID, Order ID, Order Date, Ship Date, and Ship Mode. The bottom navigation bar includes tabs for 'Data Source' and 'Sheet 1' through 'Sheet 16', along with various toolbar icons.







bubble chart



Pages

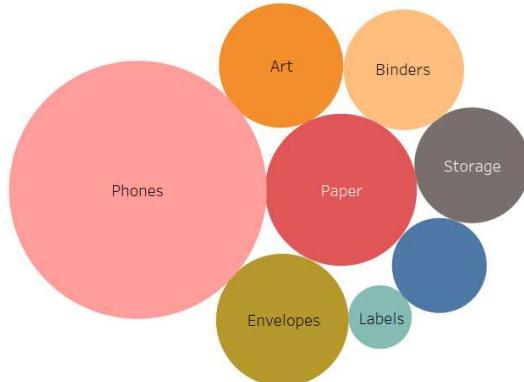
Columns

Rows

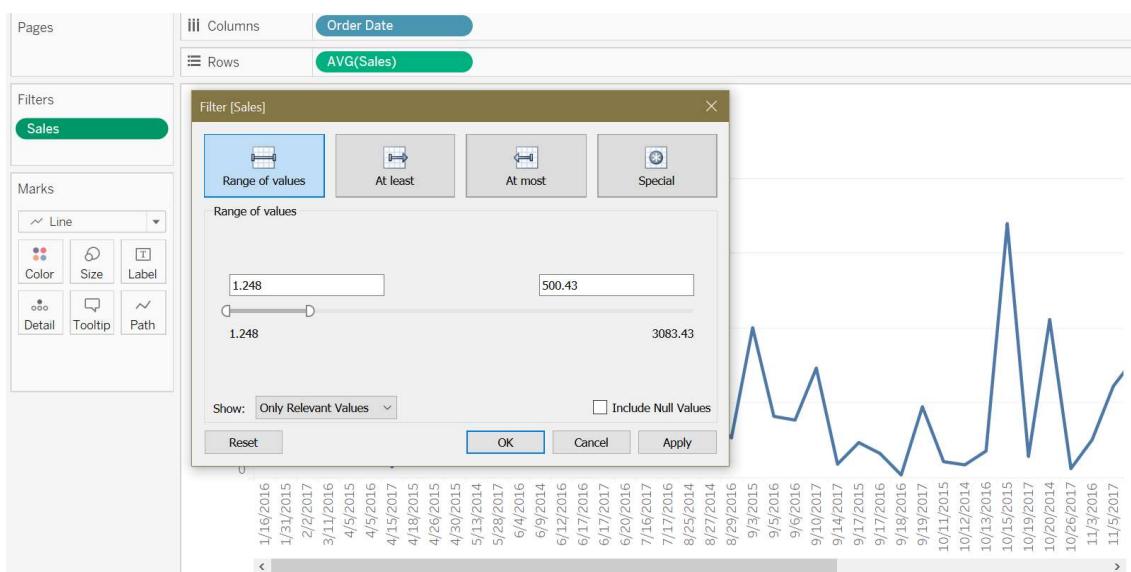
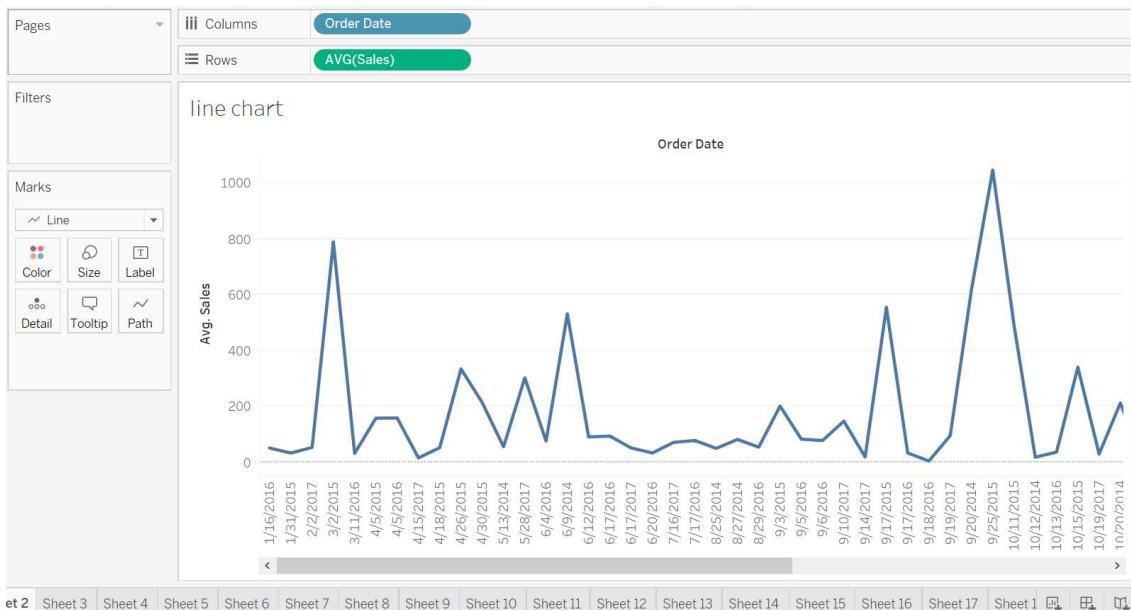
Filters
<span style="background-color: green; color: white; padding: 2px 5px;">SUM(Profit)</span>
<span style="background-color: blue; color: white; padding: 2px 5px;">Sub-Category</span>

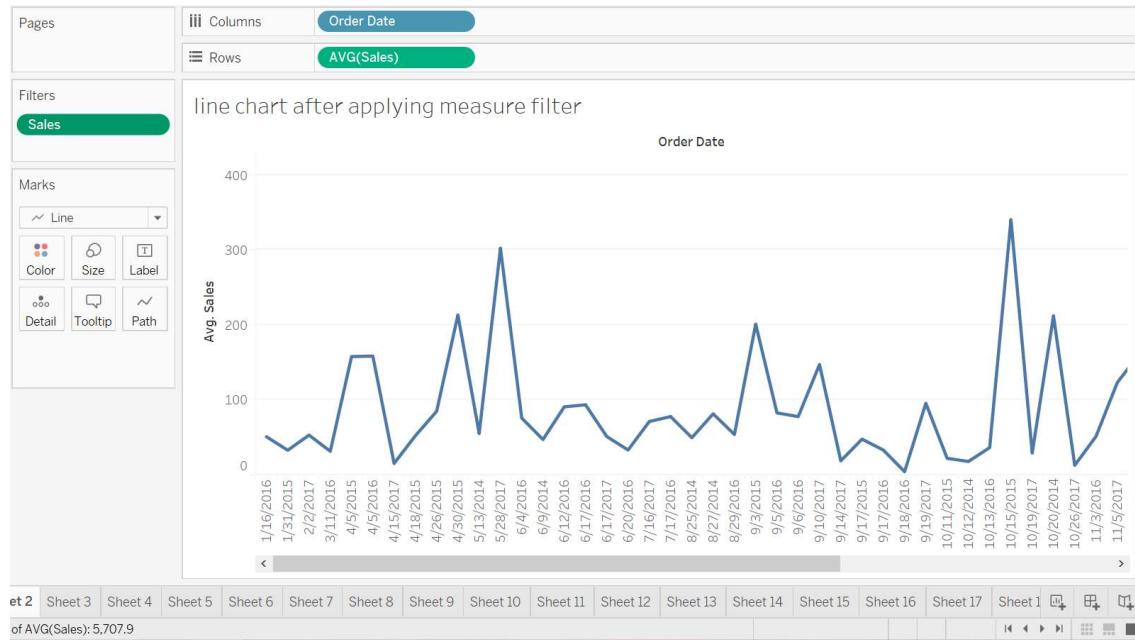
bubble chart after applying context filtering

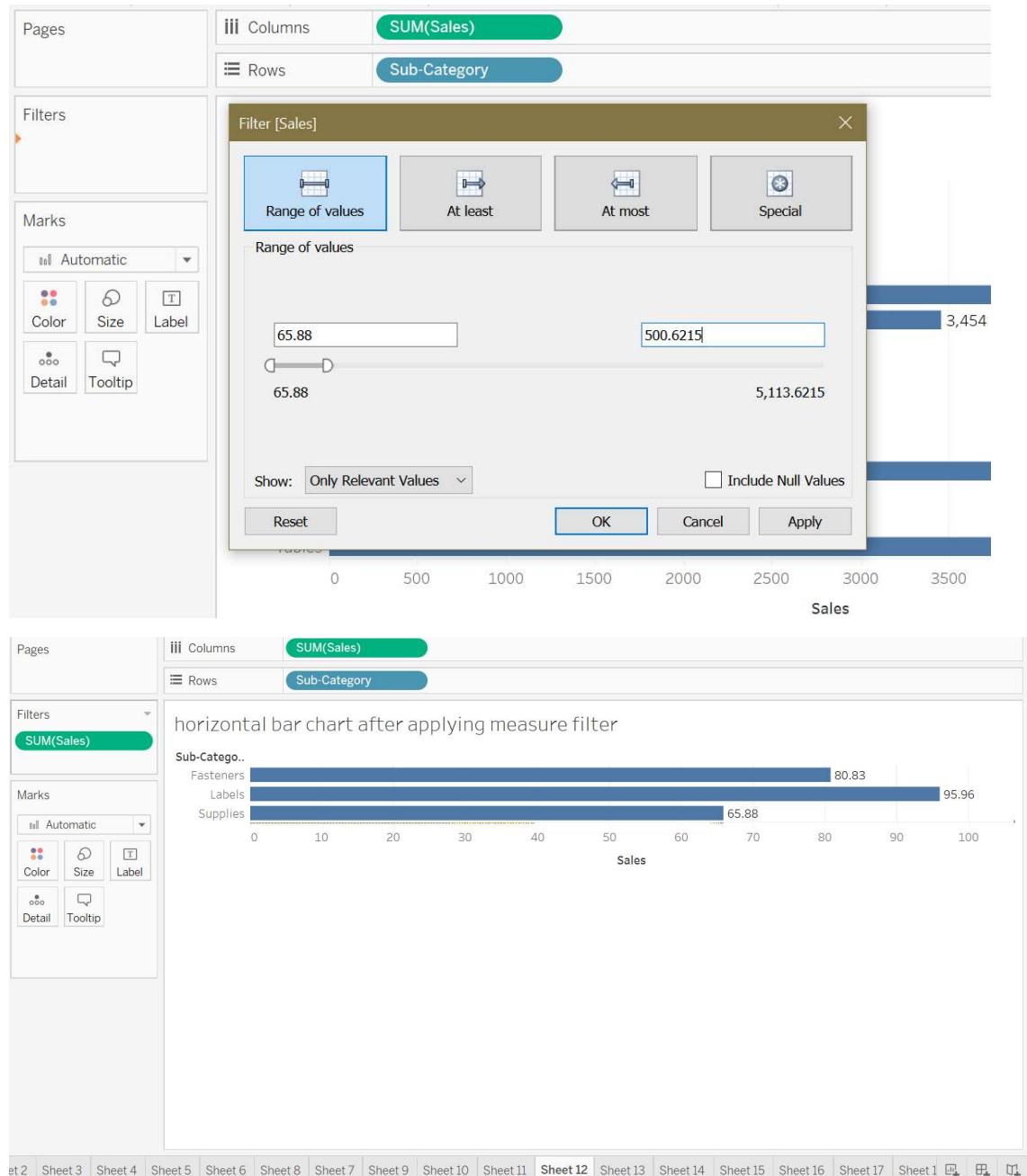
Marks
<input type="radio"/> Circle
<span style="color: green;">Color</span>
<span style="color: orange;">Size</span>
<span style="color: teal;">Label</span>
<span style="color: grey;">Detail</span>
<span style="color: grey;">Tooltip</span>
<span style="color: green;">@ SUM(Profit)</span>
<span style="color: blue;">@ Sub-Catego..</span>
<span style="color: blue;">@ Sub-Catego..</span>

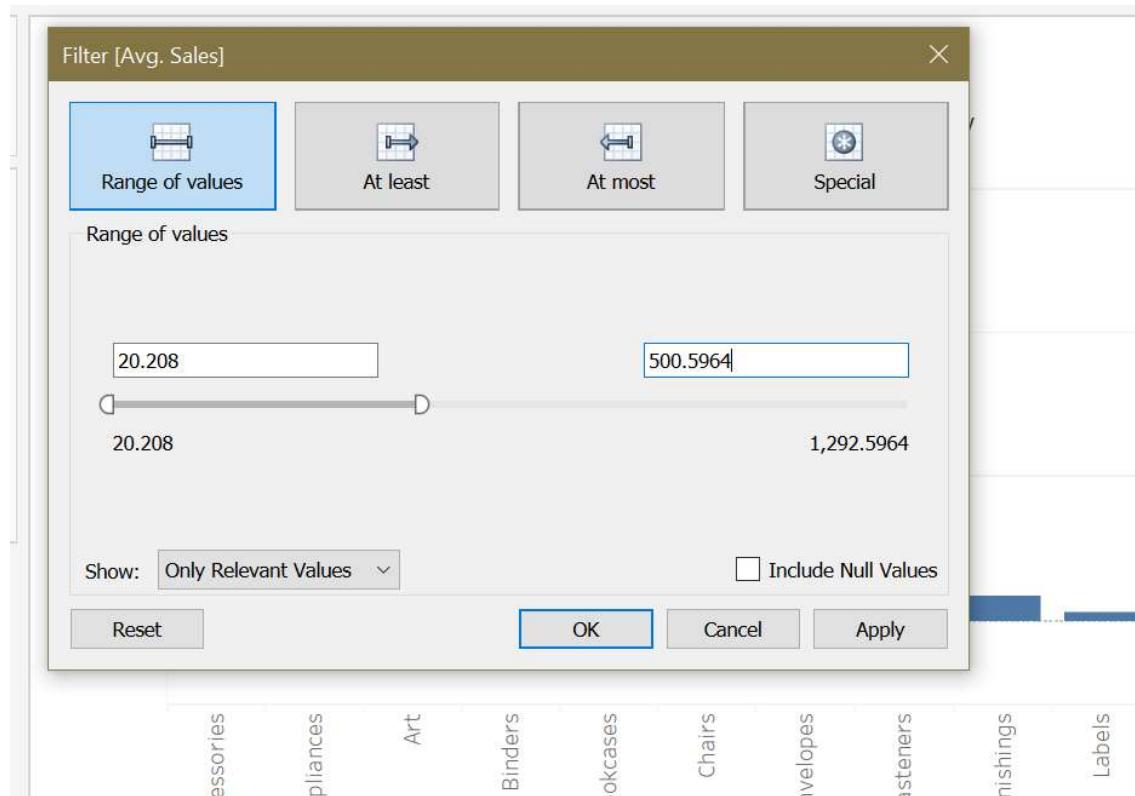
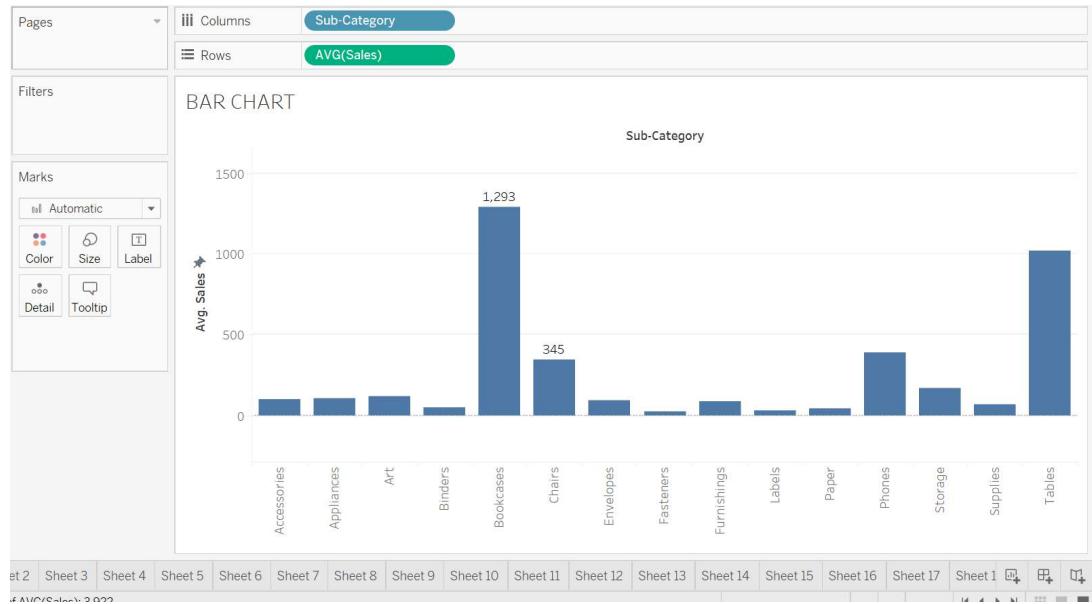


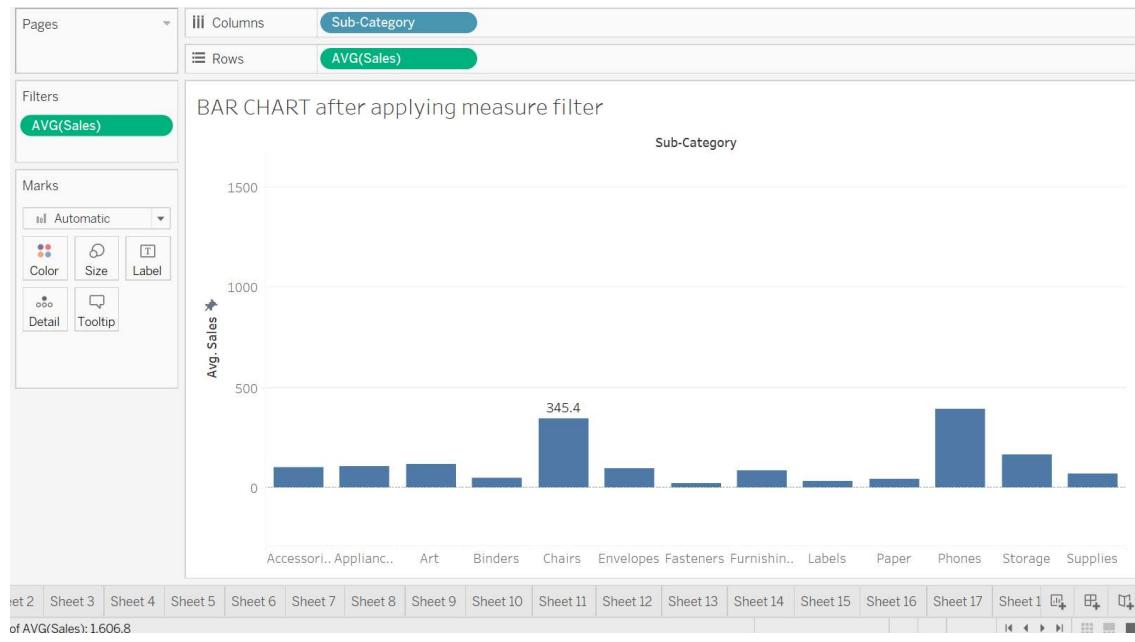
## Measure filter









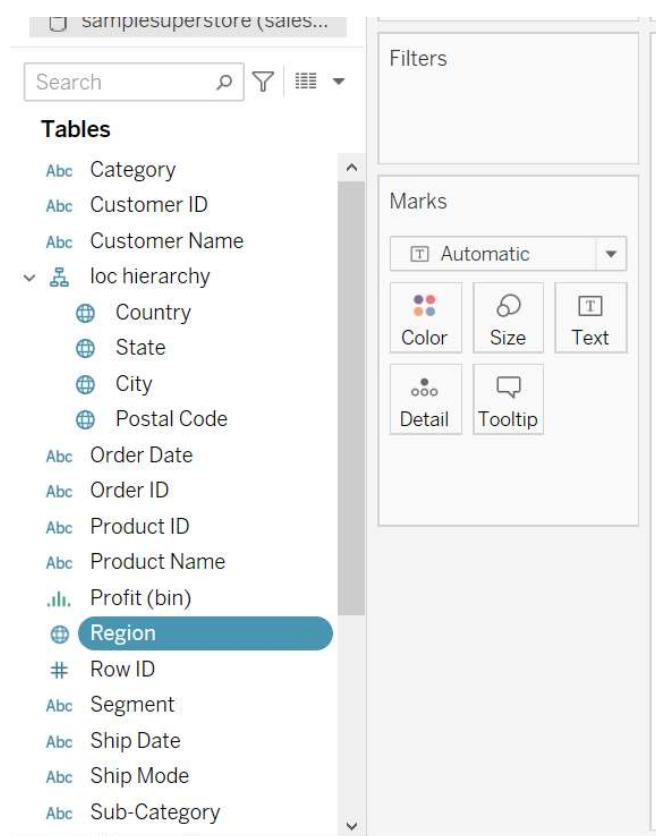
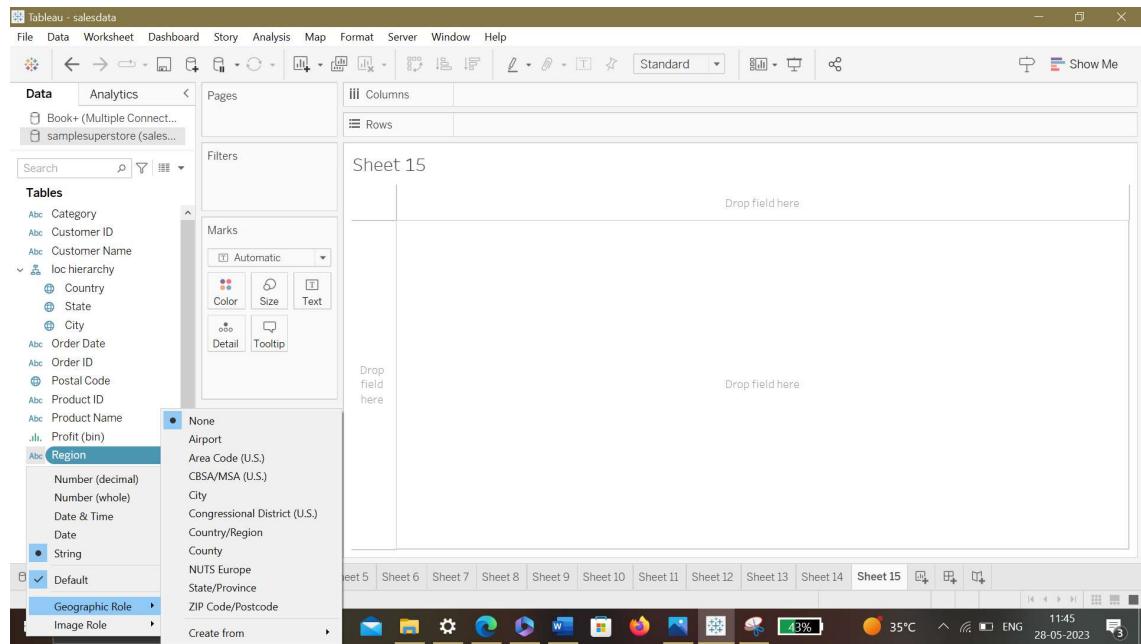


### 3) Perform the following data manipulations on your dataset

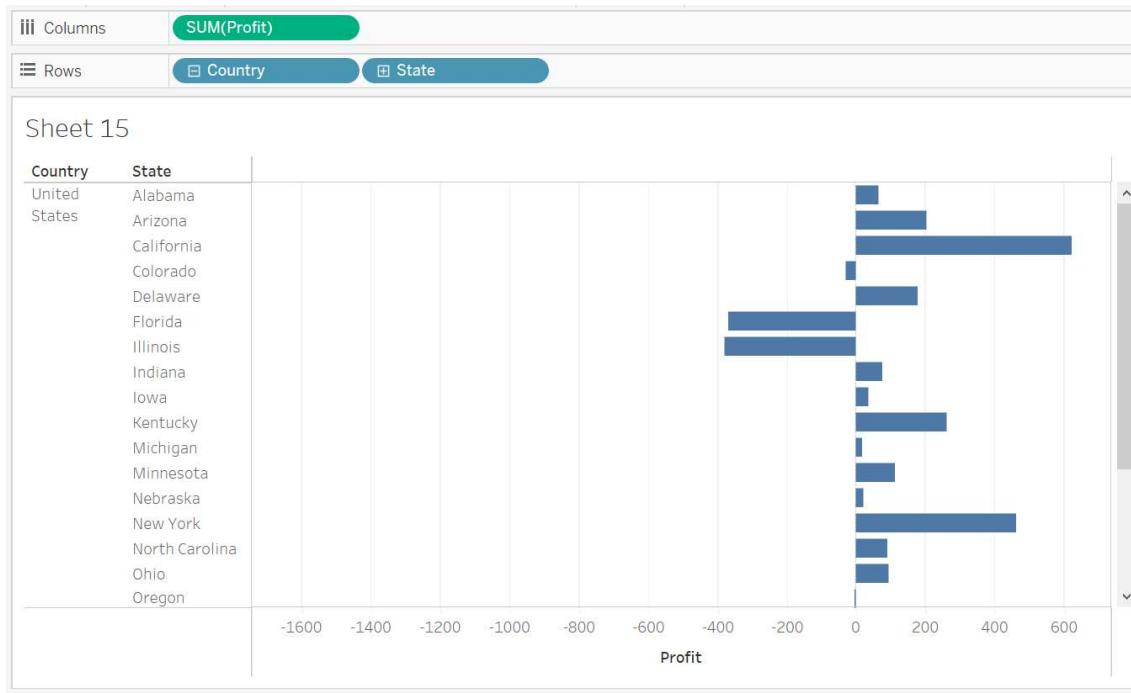
- Create a hierarchy
- Create a set
- Create a group

The screenshot shows the Tableau data source pane with the following components:

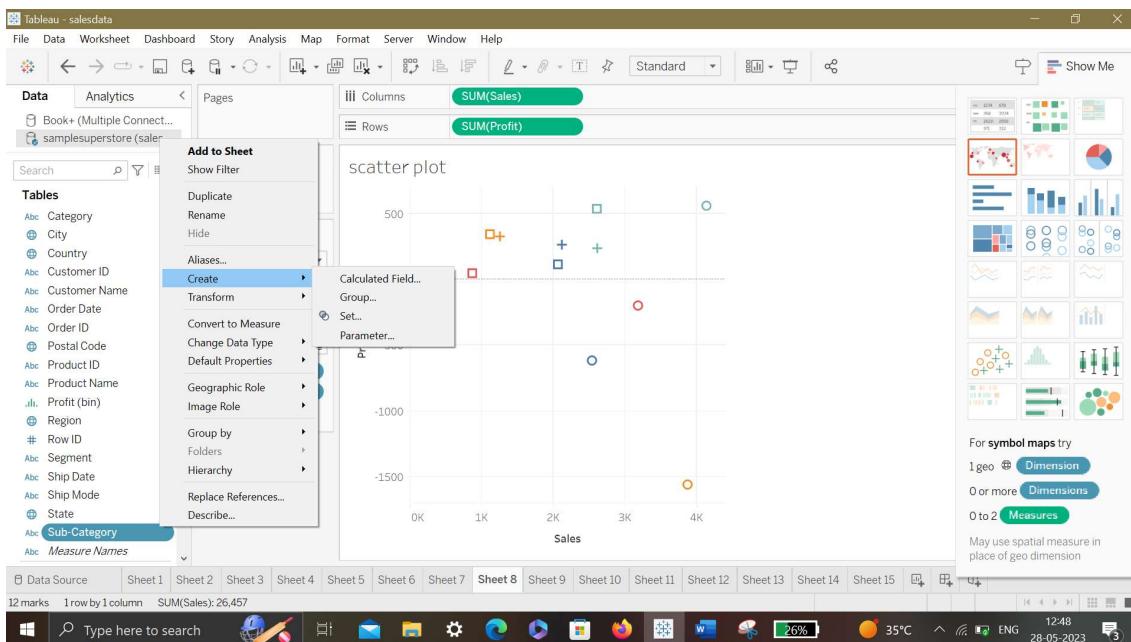
- Search:** Search bar and filter icon.
- Tables:** A list of dimensions and measures, including:
  - Category
  - Customer ID
  - Customer Name
  - loc hierarchy
    - Country
    - State
    - City
  - Order Date
  - Order ID
  - Postal Code
  - Product ID
  - Product Name
  - Profit (bin)
  - Region
  - Row ID
  - Segment
  - Ship Date
  - Ship Mode
  - Sub-Category
- Filters:** A panel containing a search bar and a list of selected filters: Country and State.
- Marks:** A panel containing settings for Marks: Automatic, Color, Size, Text, Detail, and Tooltip.
- Sheet Navigation:** Sheets 1 through 6.

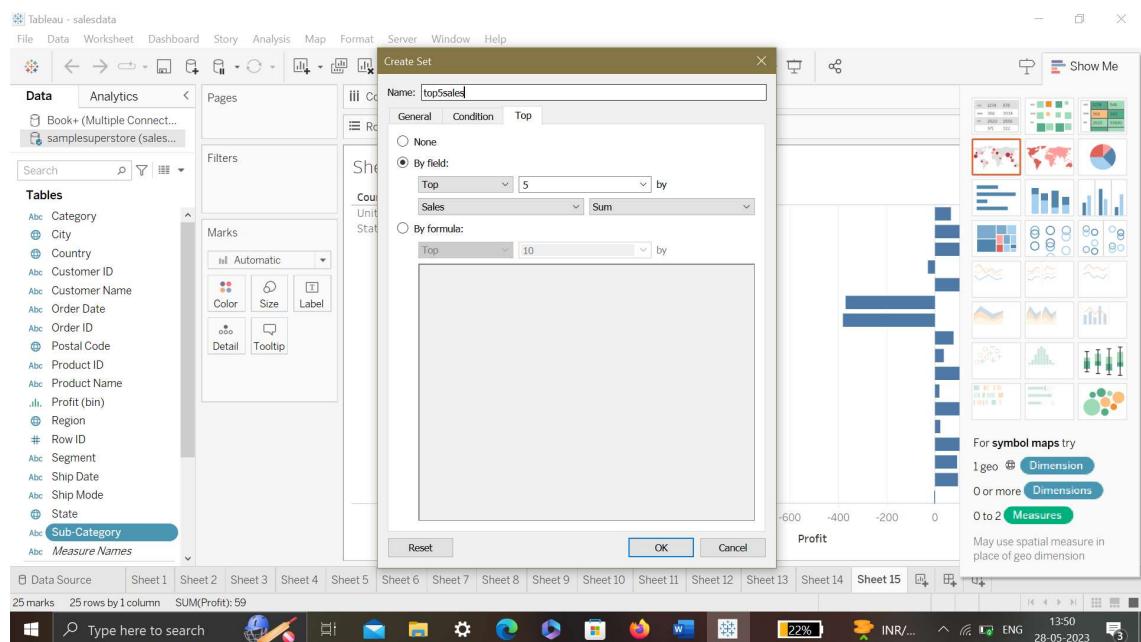
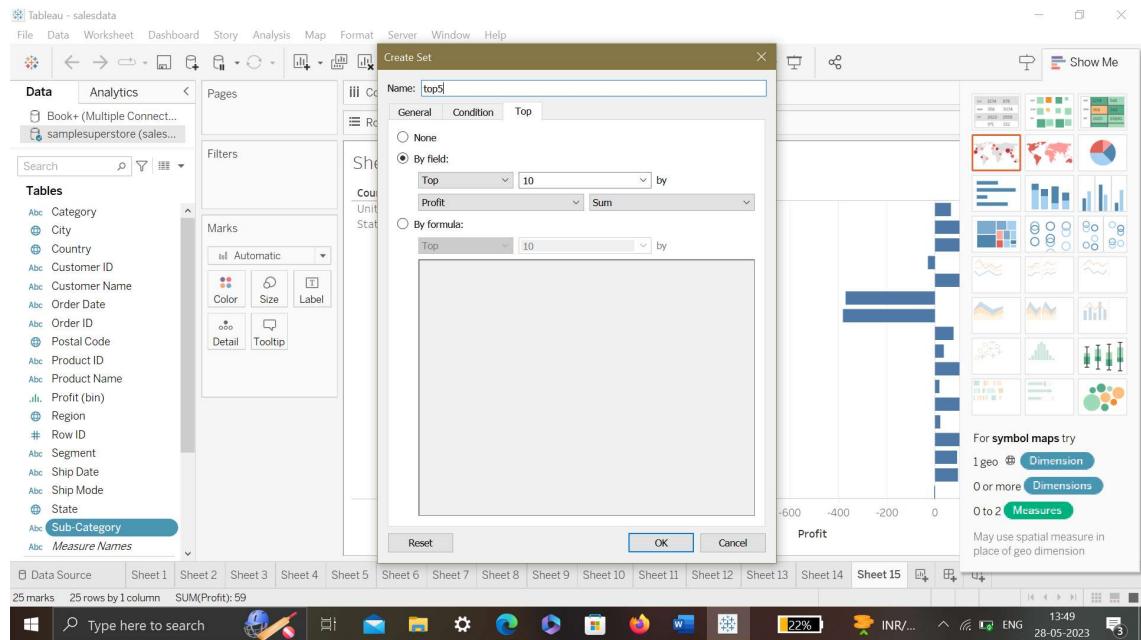


## Visualization with hierarchies



## Sets





Data      Analytics <

Book+ (Multiple Connect...) samplesuperstore (sales...)

Search

**Tables**

- 🌐 Country
- Abc **Customer ID**
- Abc Customer Name
- Abc Order Date
- Abc Order ID
- 🌐 Postal Code
- Abc Product ID
- Abc Product Name
- .ini Profit (bin)
- 🌐 Region
- # Row ID
- Abc Segment
- Abc Ship Date
- Abc Ship Mode
- 🌐 State
- Abc Sub-Category
- ⌚ **top5sales**
- Abc Measure Names
- # Discount

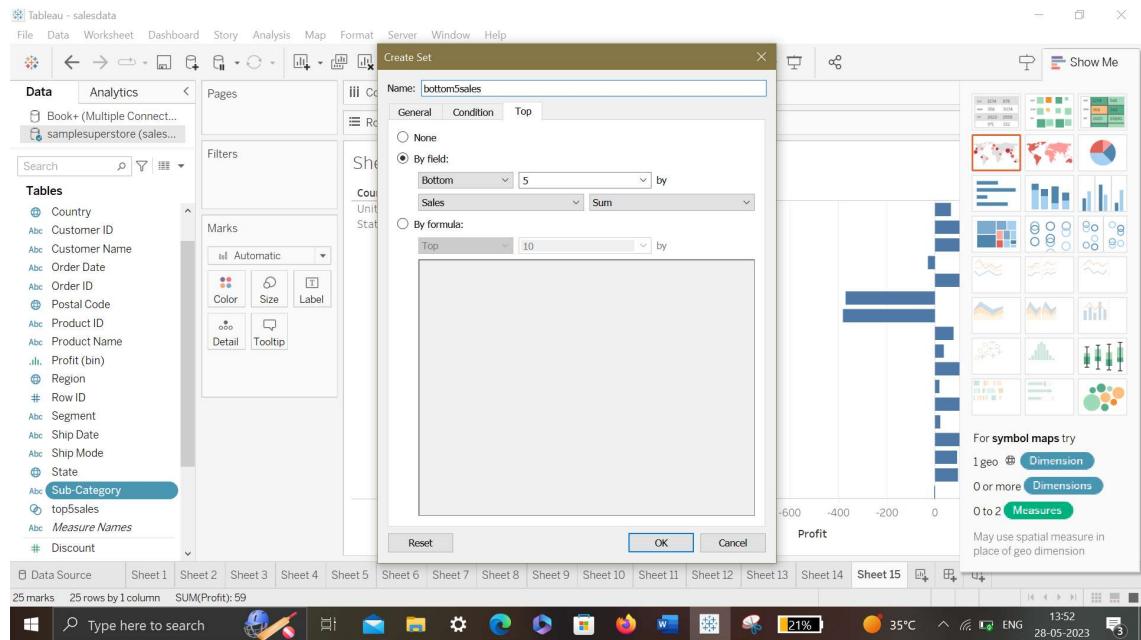
Pages

Filters

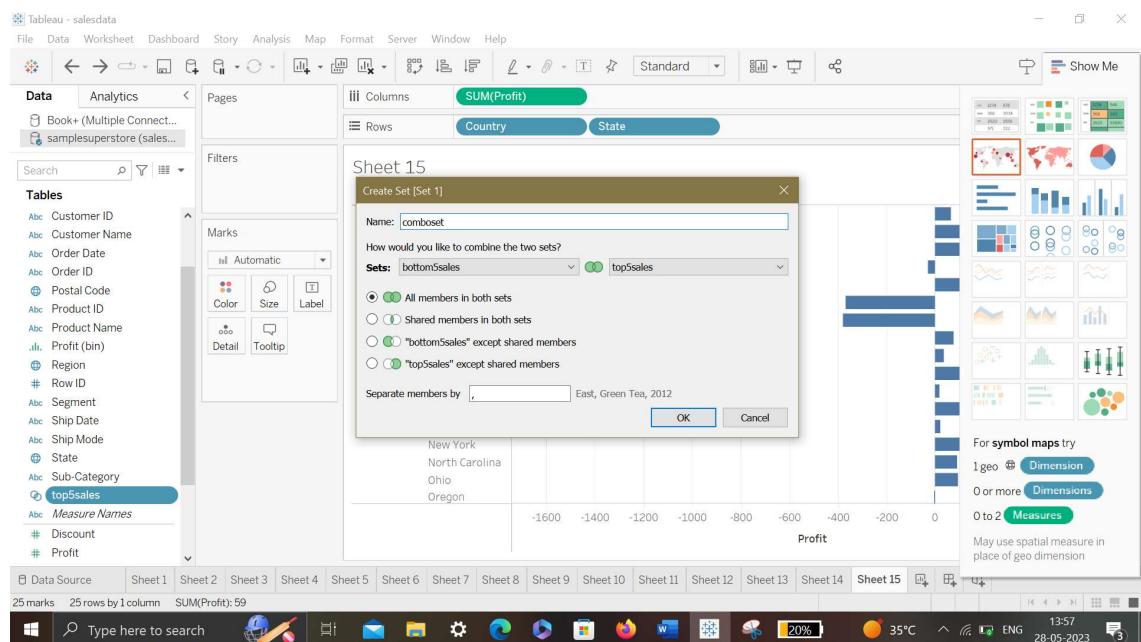
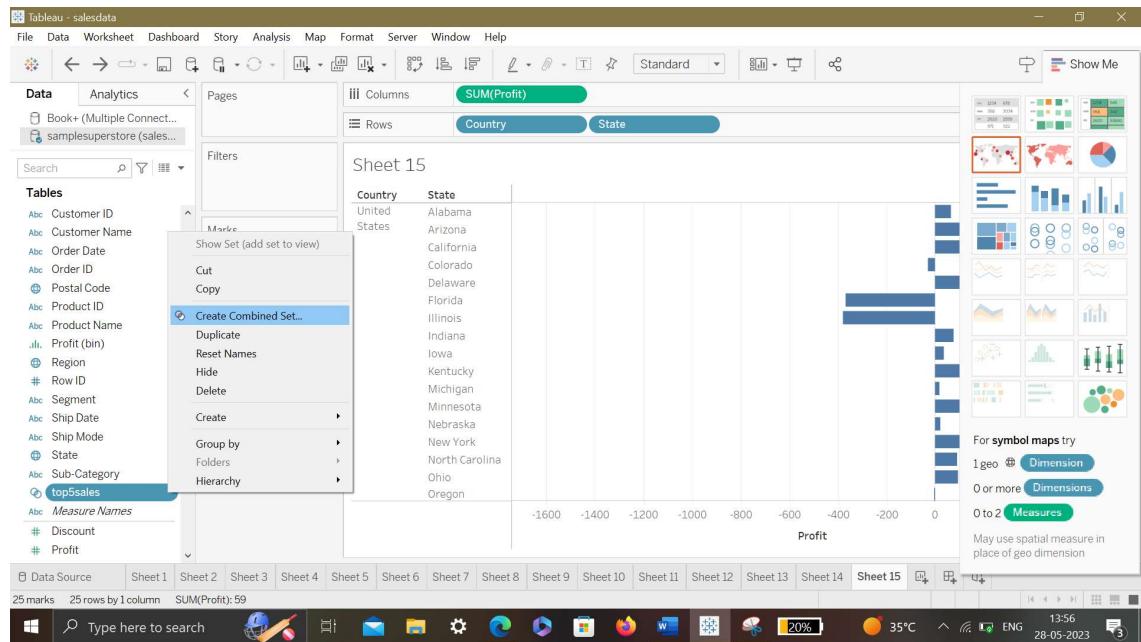
Marks

- Automatic
- Color
- Size
- Label
- Detail
- Tooltip

Data Source   Sheet 1   Sheet 2   Sheet 3   Sheet 4



This screenshot shows the Tableau interface with the 'Analytics' tab selected. In the top navigation bar, 'Book+ (Multiple Connect...)' and 'samplesuperstore (sales...)' are listed. Below the navigation bar is a search bar and a filter icon. The main area is divided into sections: 'Tables', 'Pages', 'Filters', and 'Marks'. The 'Tables' section lists various dimensions and measures, with 'bottom5sales' highlighted. Other listed items include Category, City, Country, Customer ID, Customer Name, Order Date, Order ID, Postal Code, Product ID, Product Name, Profit (bin), Region, Row ID, Segment, Ship Date, Ship Mode, State, and Sub-Category.



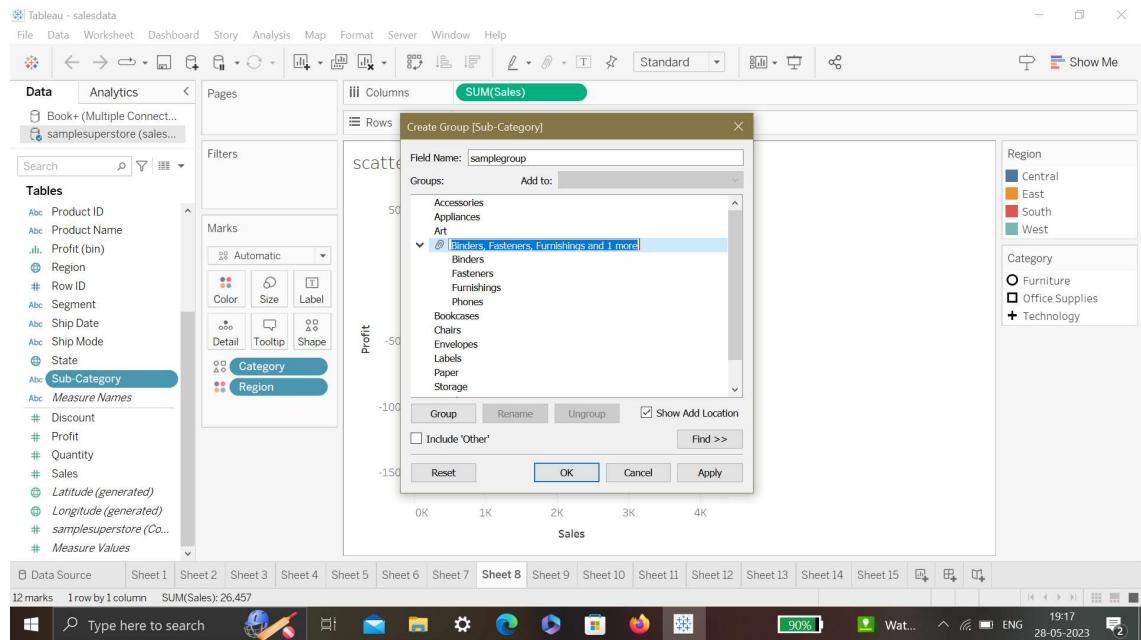


## Group

This screenshot illustrates the creation of a new group in Tableau. A context menu is open over the "Sub-Category" field in the Data pane. The "Create" option is highlighted, with a submenu showing "Group..." selected. The main workspace shows the same bar chart as the previous screenshot, with the "IN/OUT(top5sales)" shelf visible.

**Create Submenu Options:**

- Duplicate
- Rename
- Hide
- Aliases...
- Create** (selected)
  - Transform
  - Convert to Measure
  - Change Data Type
  - Default Properties
  - Geographic Role
  - Image Role
  - Group by
  - Folders
  - Hierarchy
  - Replace References...
  - Describe...
- Calculated Field...
- Group...
- Set...
- Parameter...



This screenshot shows the Tableau web application interface. The top navigation bar includes 'Data' and 'Analytics' tabs, and a search bar. The 'Tables' pane on the left lists the same set of dimensions and measures as the desktop version, with 'samplegroup' highlighted. The visualization area shows a scatter plot with 'Sales' on the x-axis and 'Profit' on the y-axis, mirroring the desktop view. The 'Marks' shelf and other interface elements are consistent with the desktop version.