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 Reg.no: 20BIT0216
 Campus: Vellore

Assignment-2

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

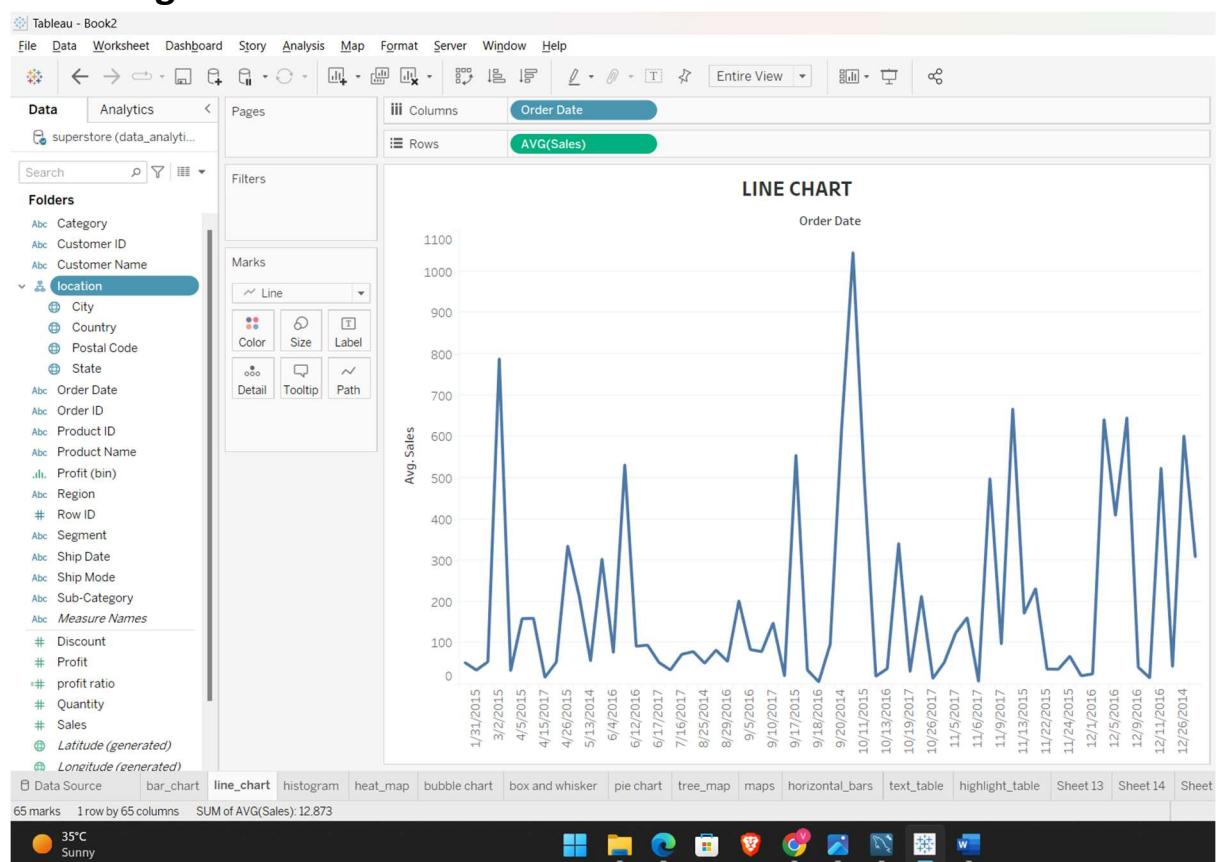


Figure 1 LINE CHART

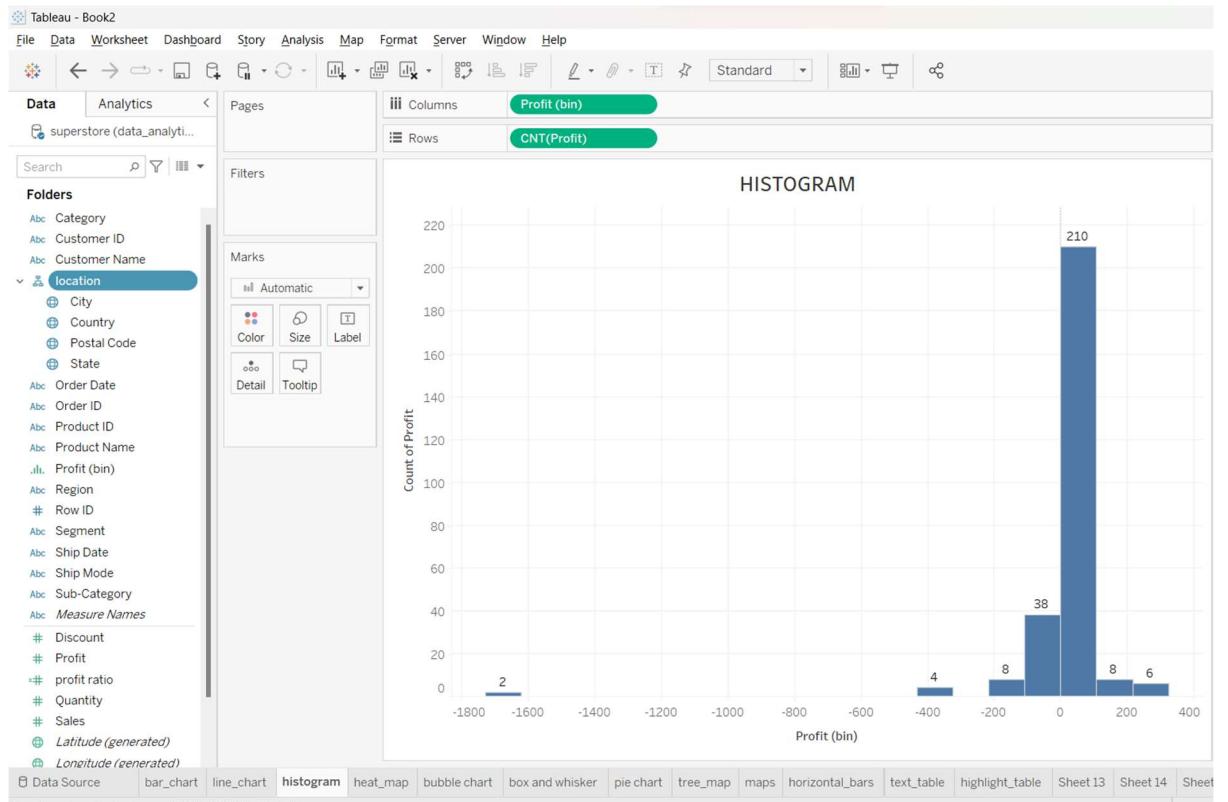


Figure 2 Histogram

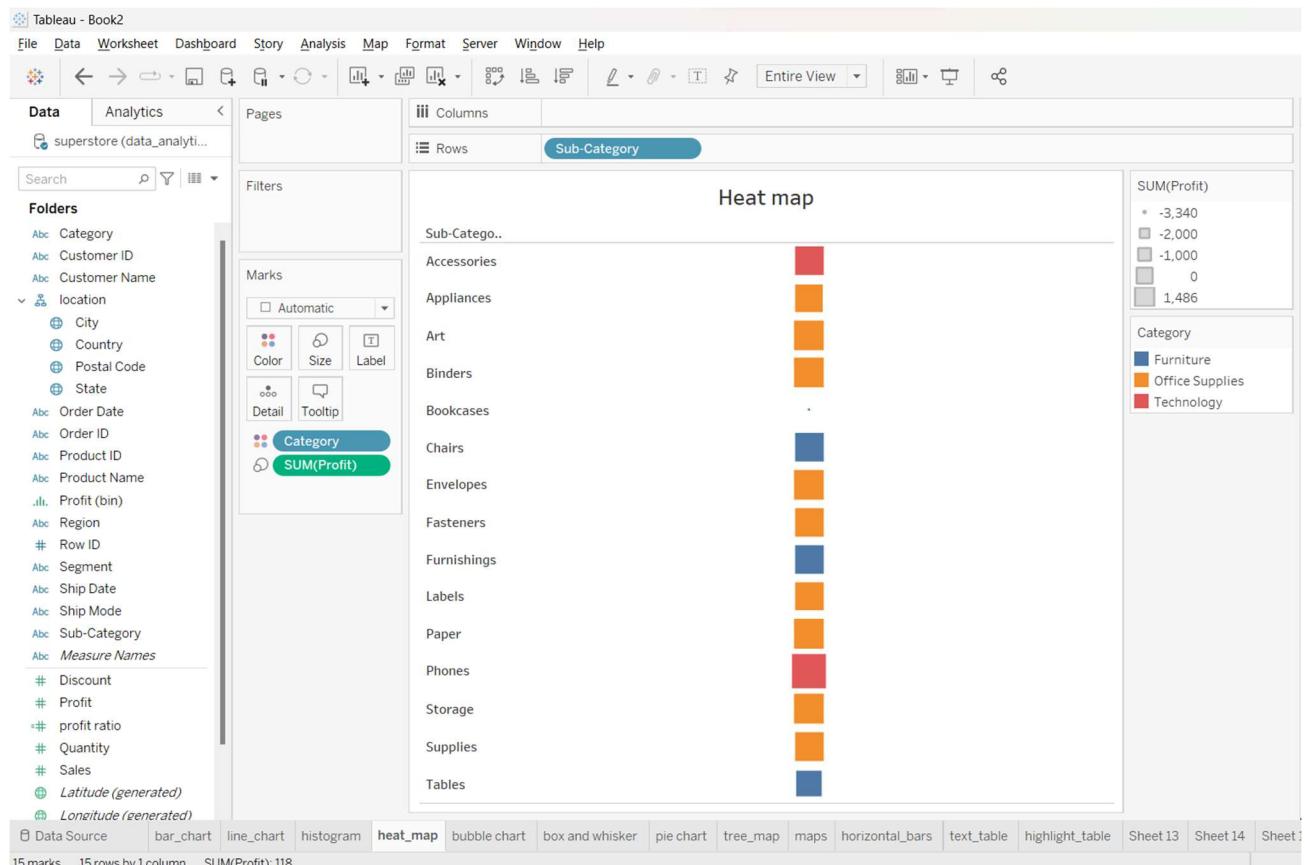


Figure 3 Heat map

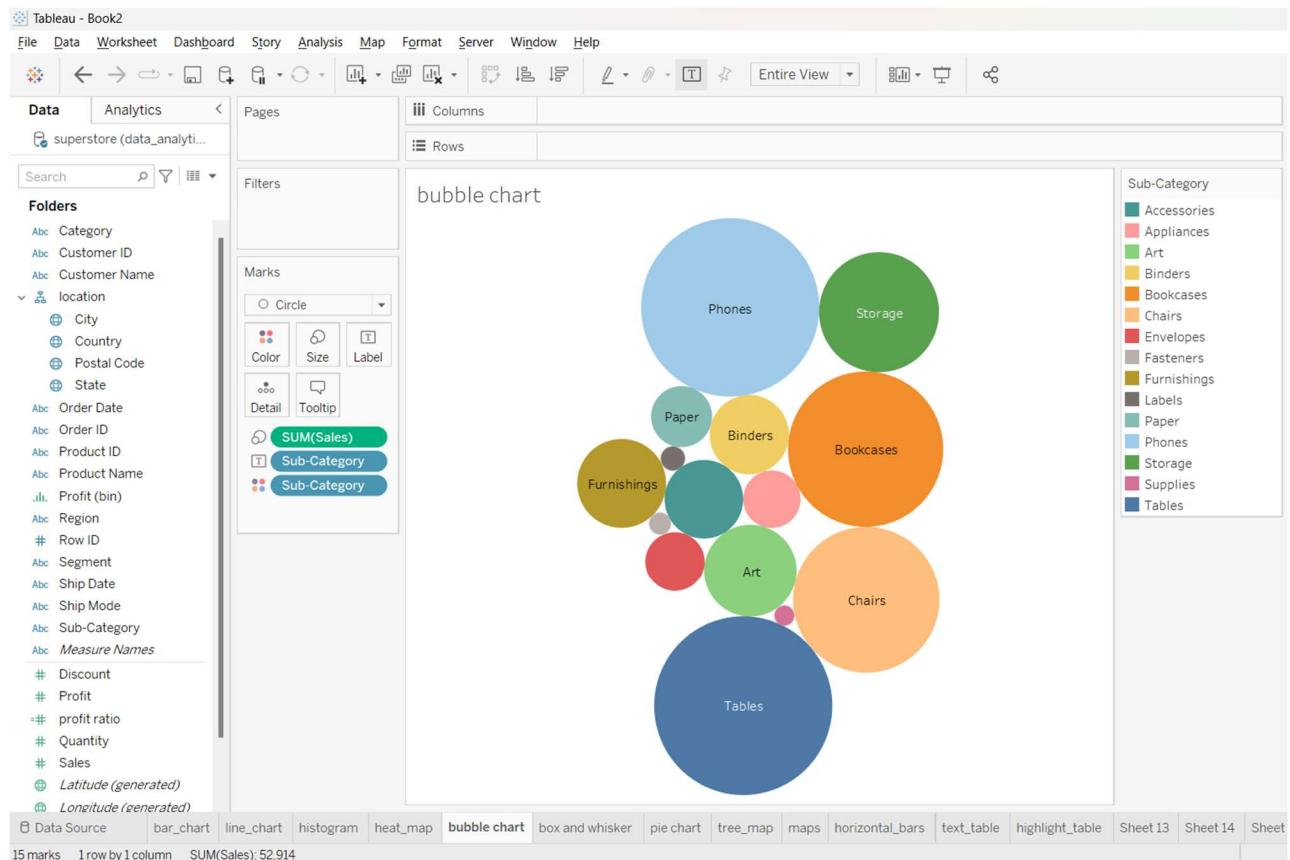


Figure 4 Bubble chart

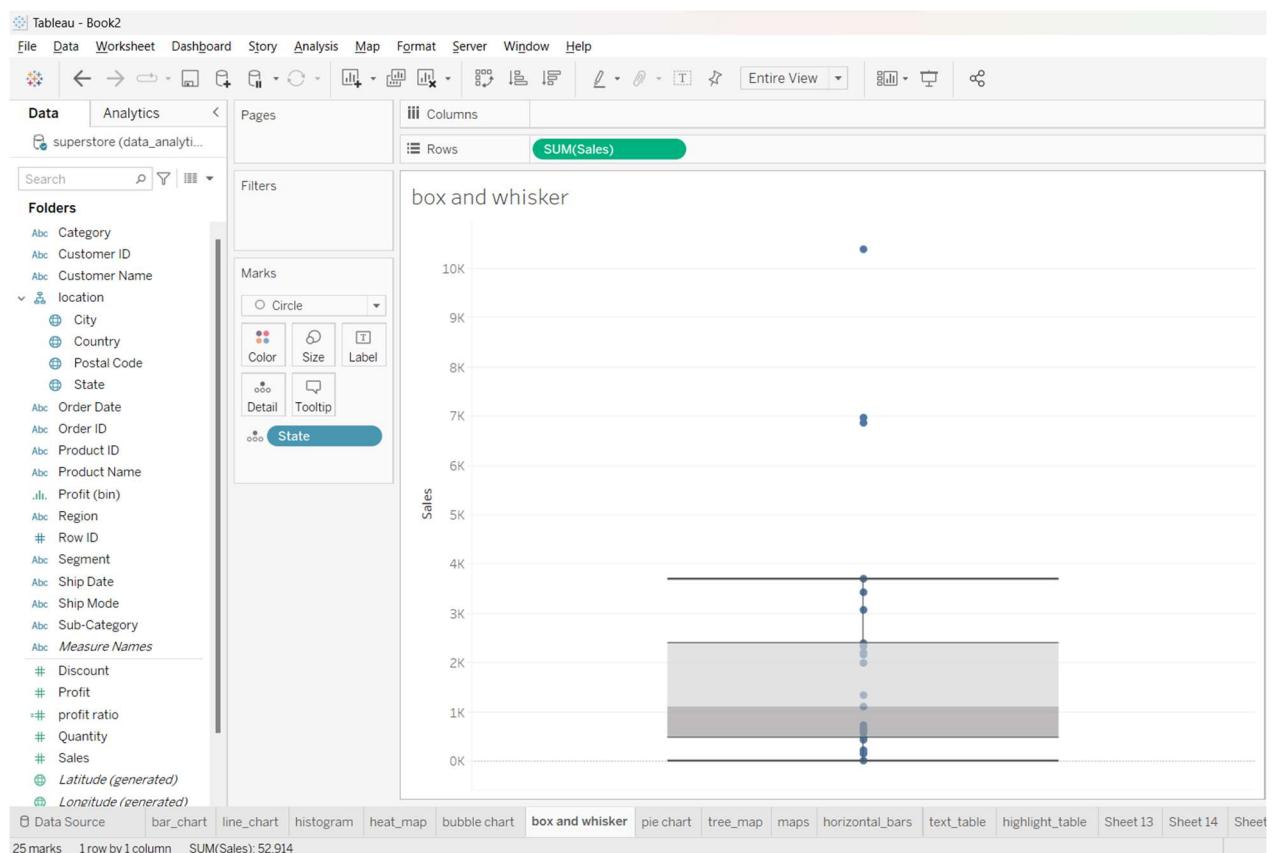


Figure 5 Box and Whisker

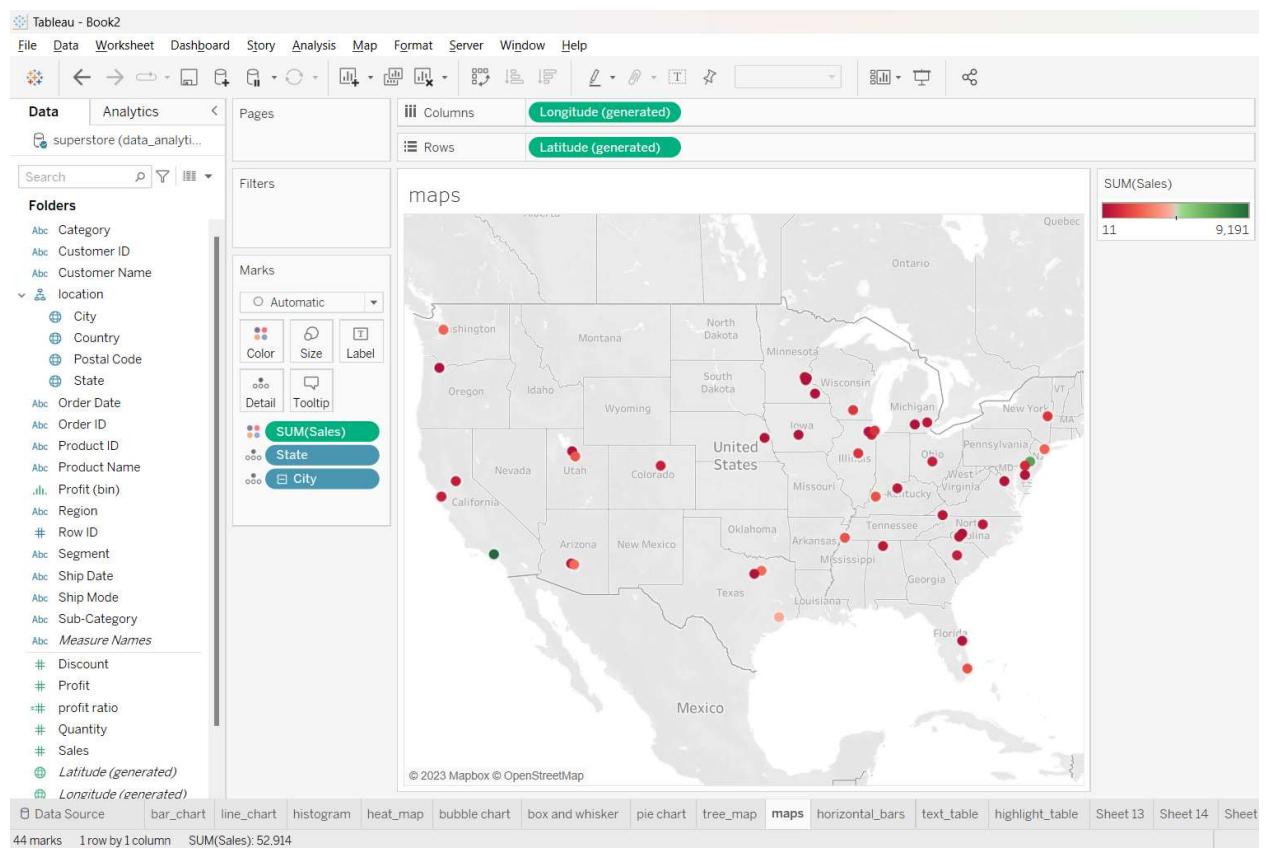


Figure 6 Map format

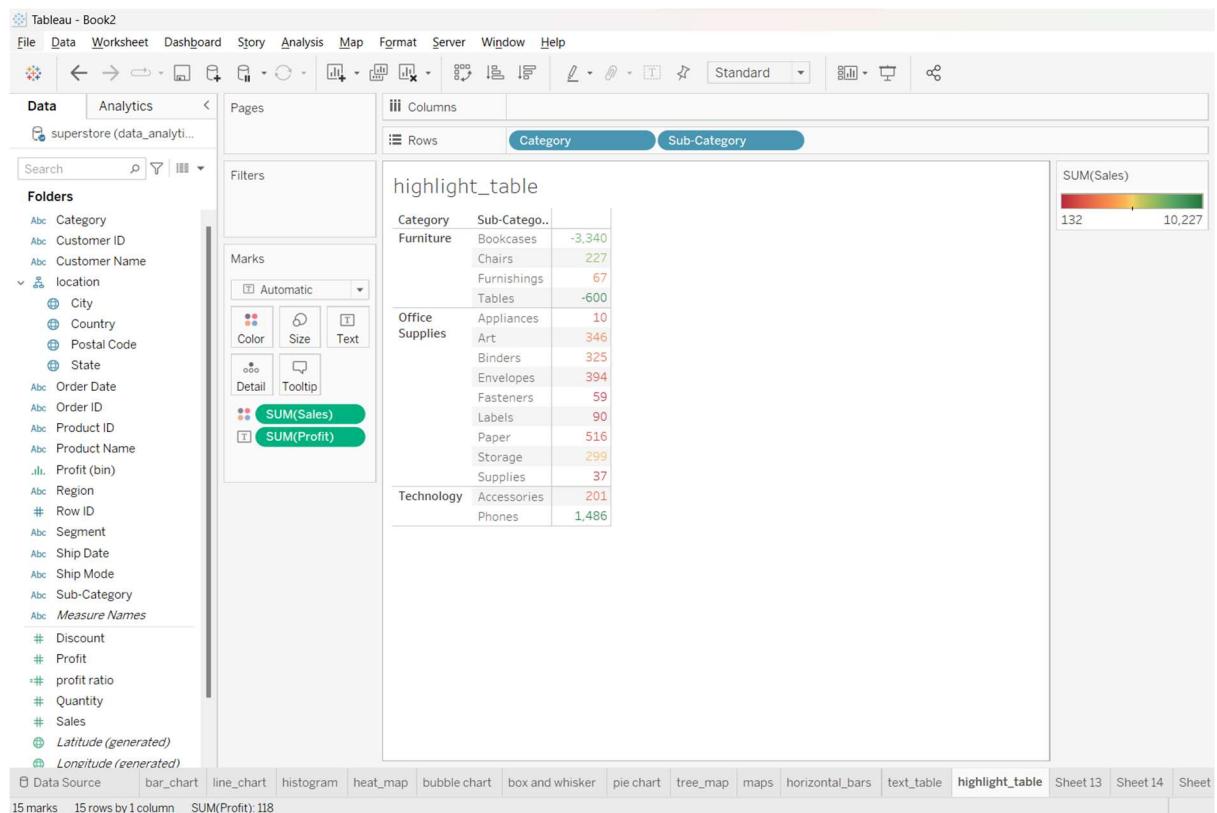
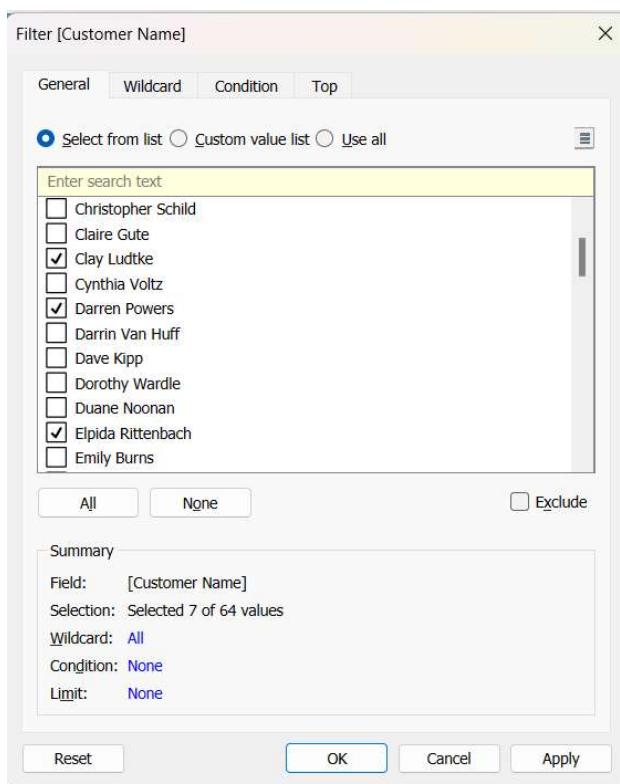
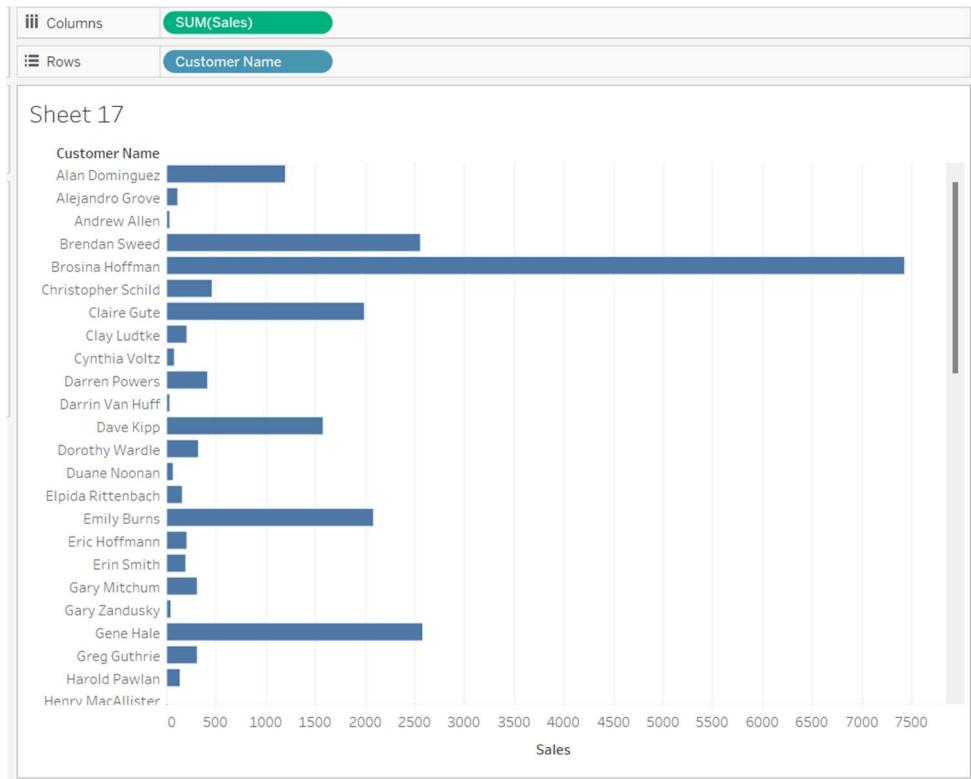


Figure 7 Highlight table

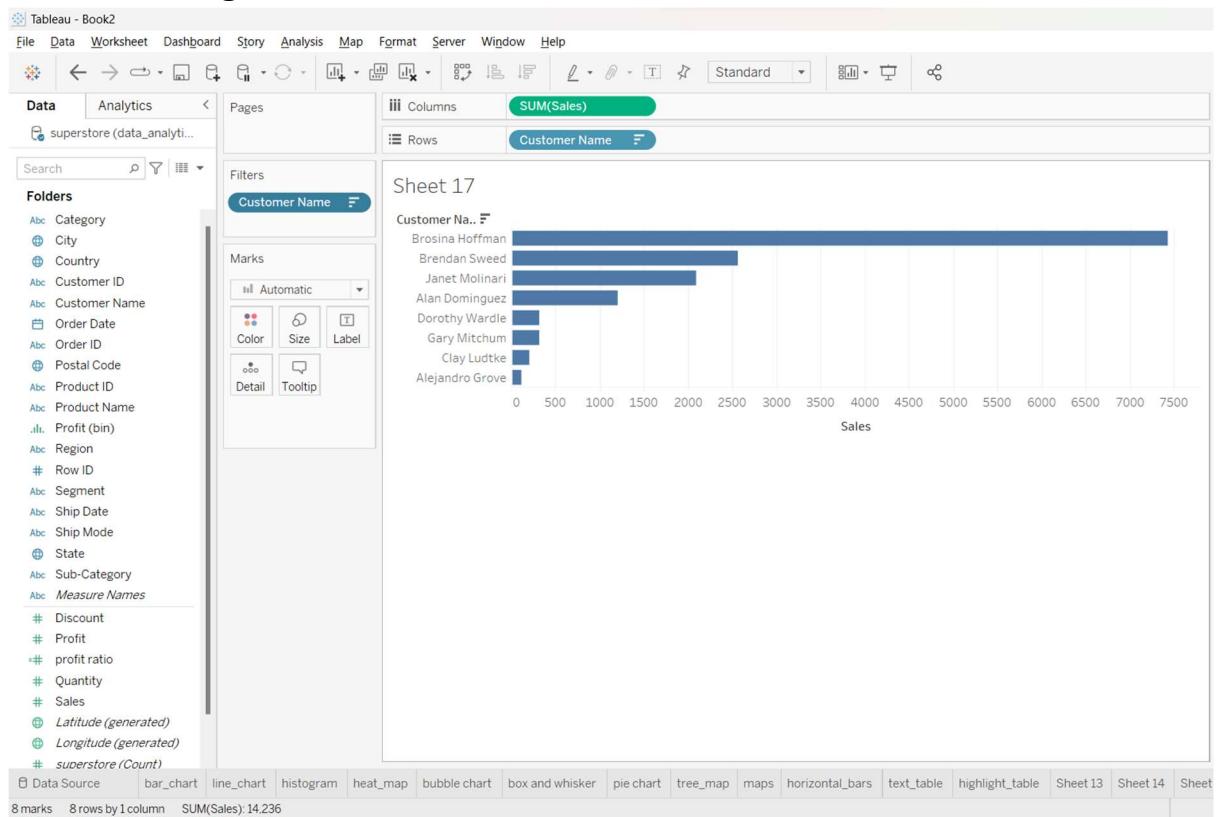
2) Apply dimension filter, context, and measure filter on any of the three visualizations.

Dimension filter: -

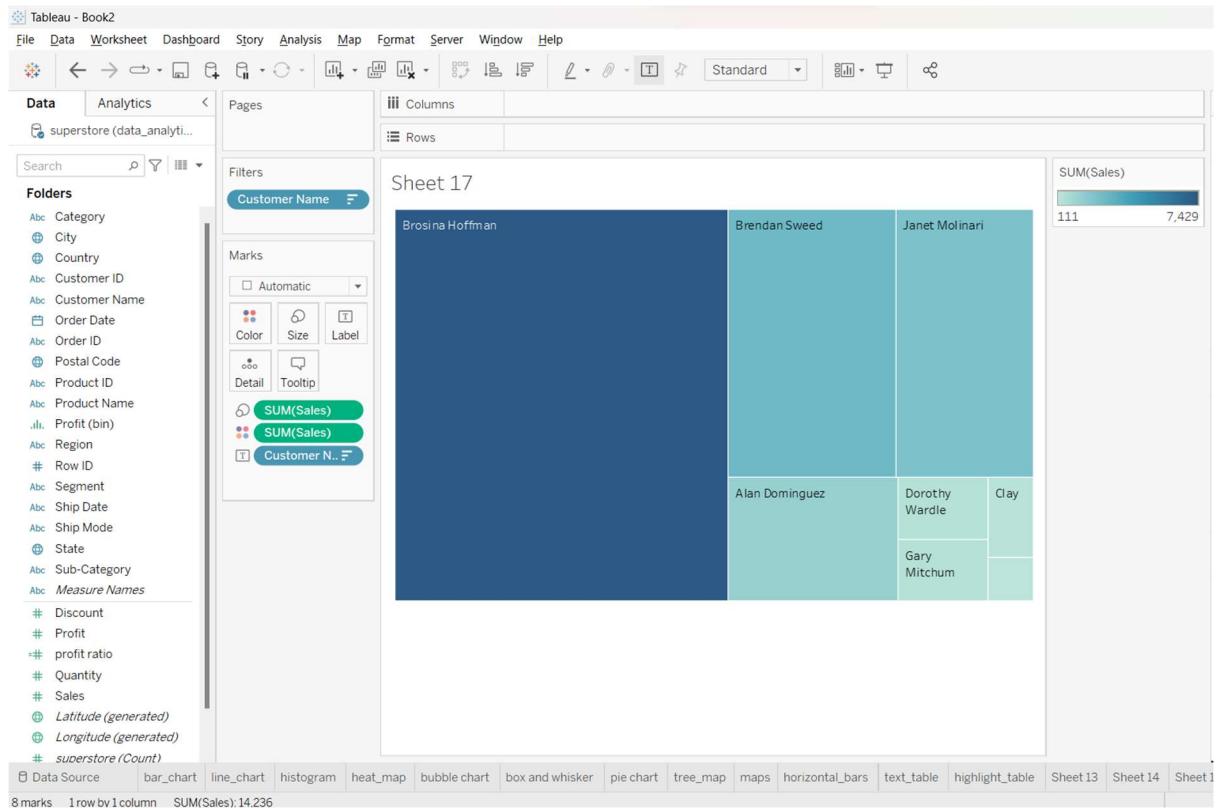
Before filtering



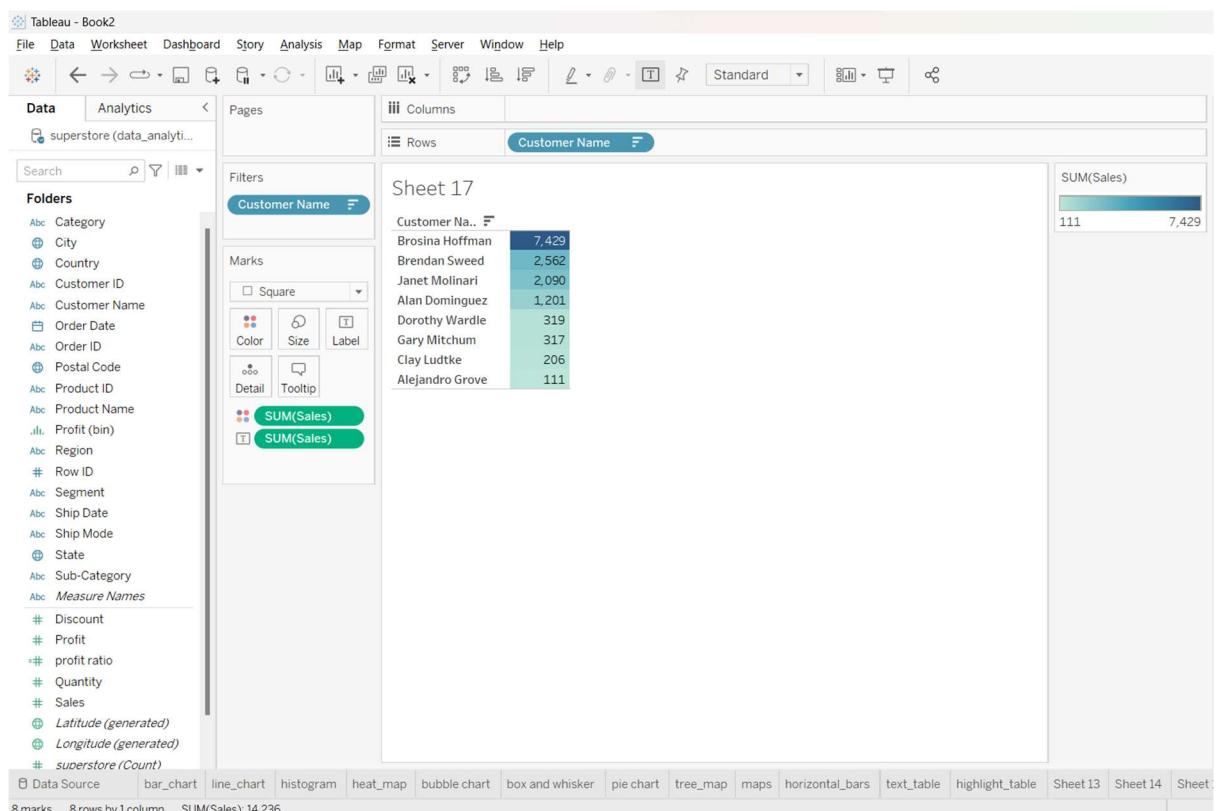
After filtering



Horizontal Bars



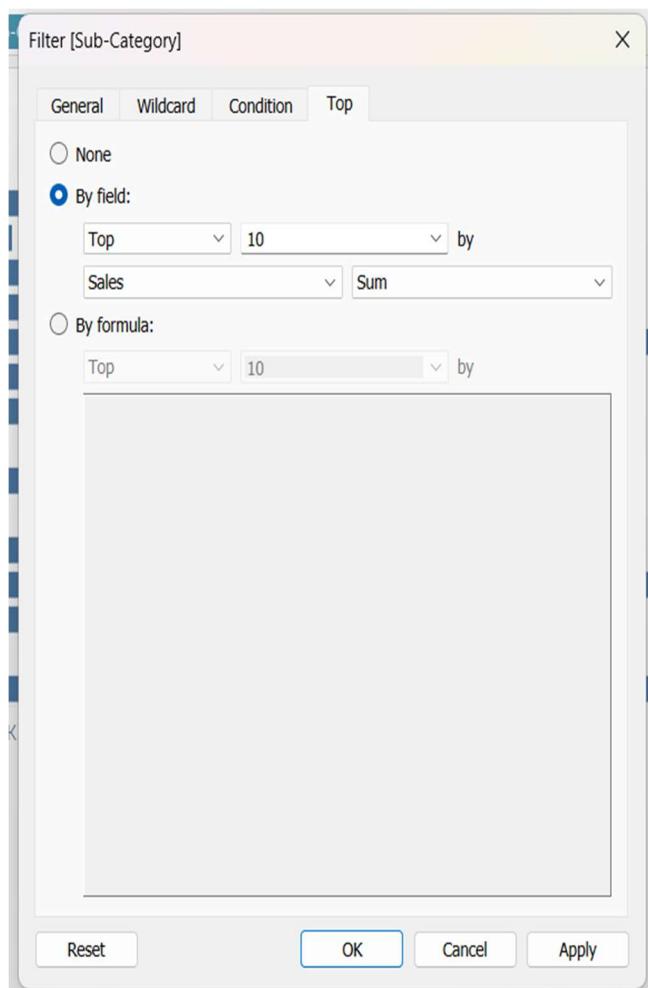
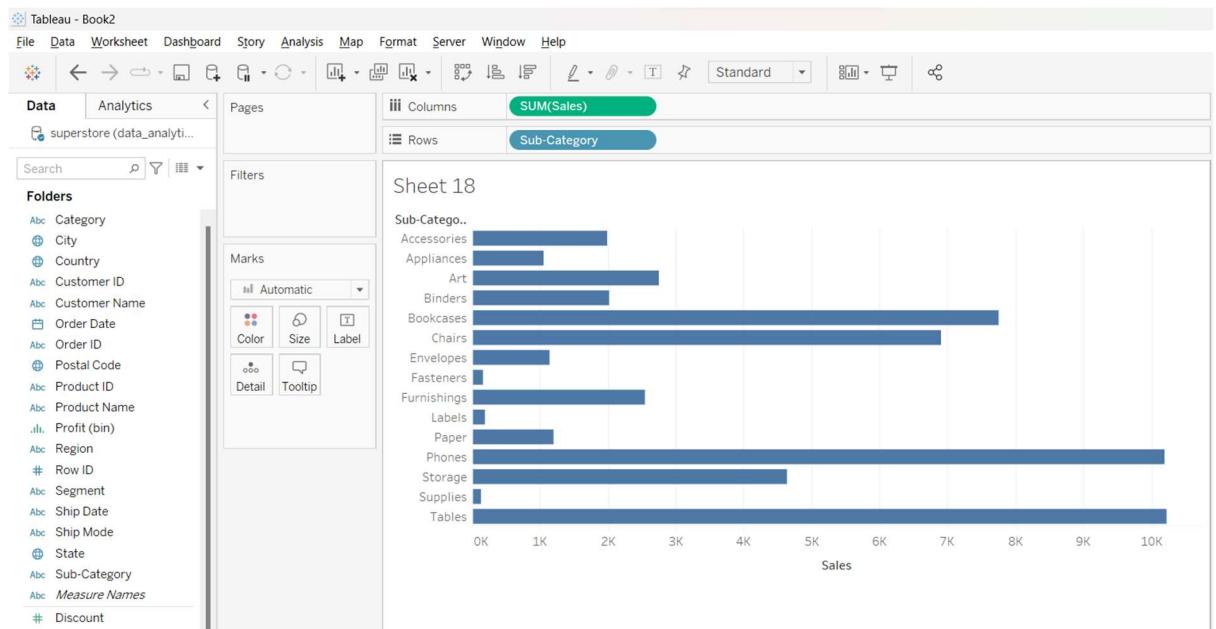
Tree map

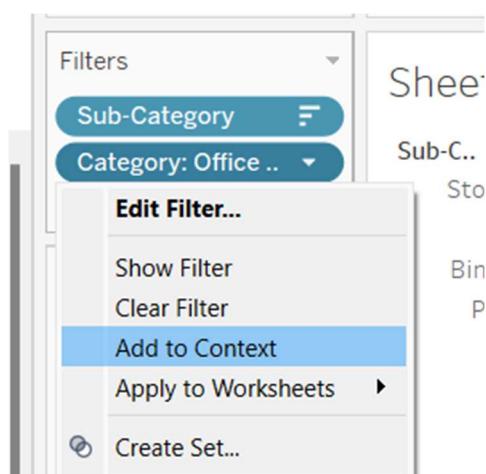
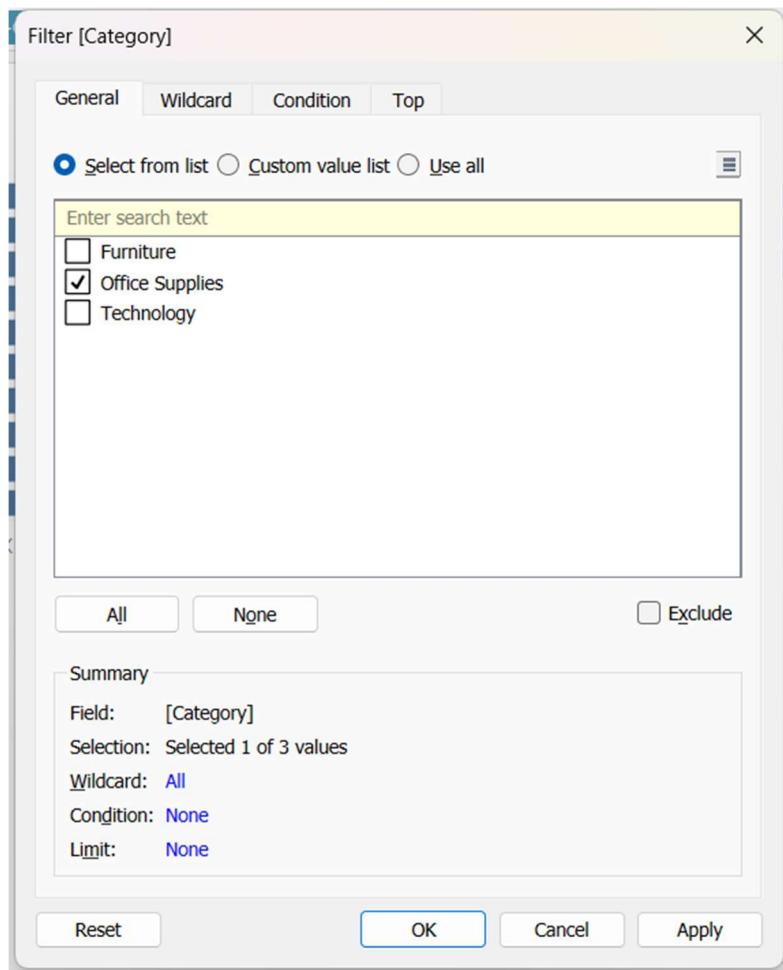


Highlight table

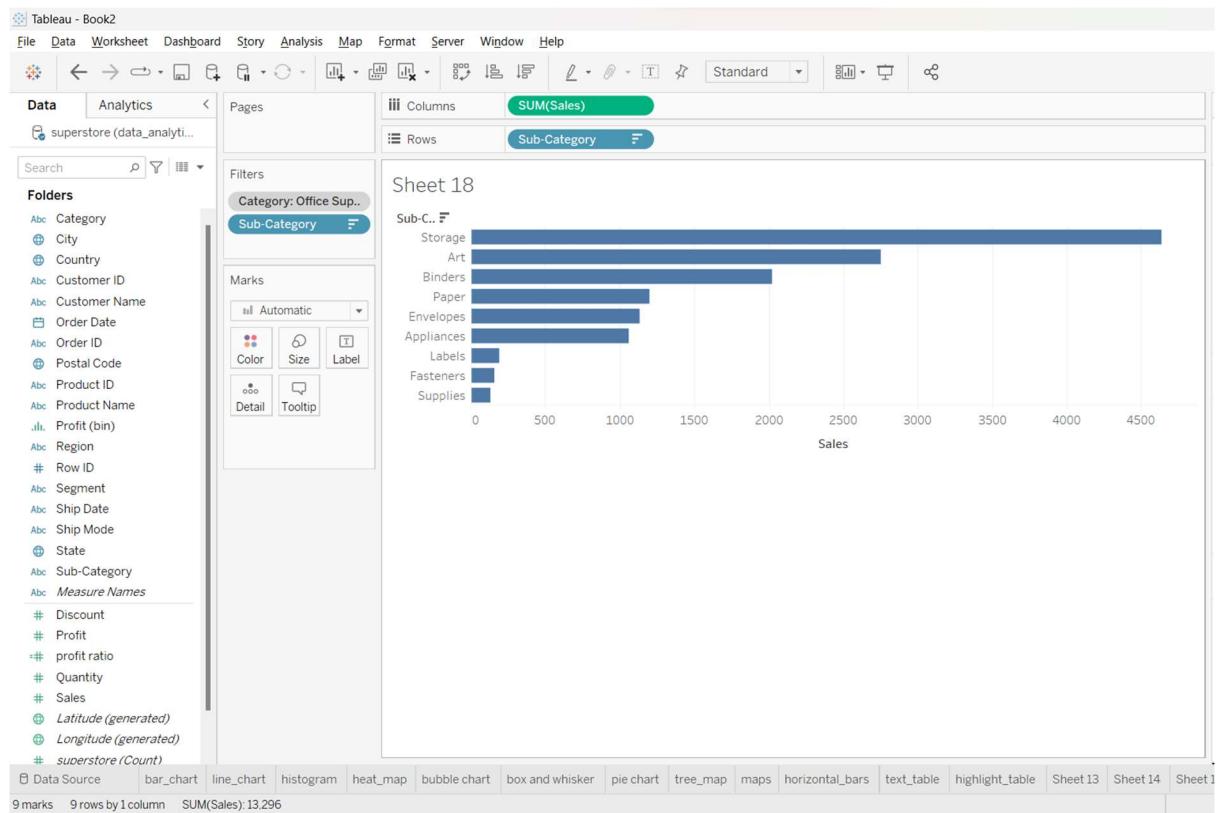
Context filtering: -

Before context filtering

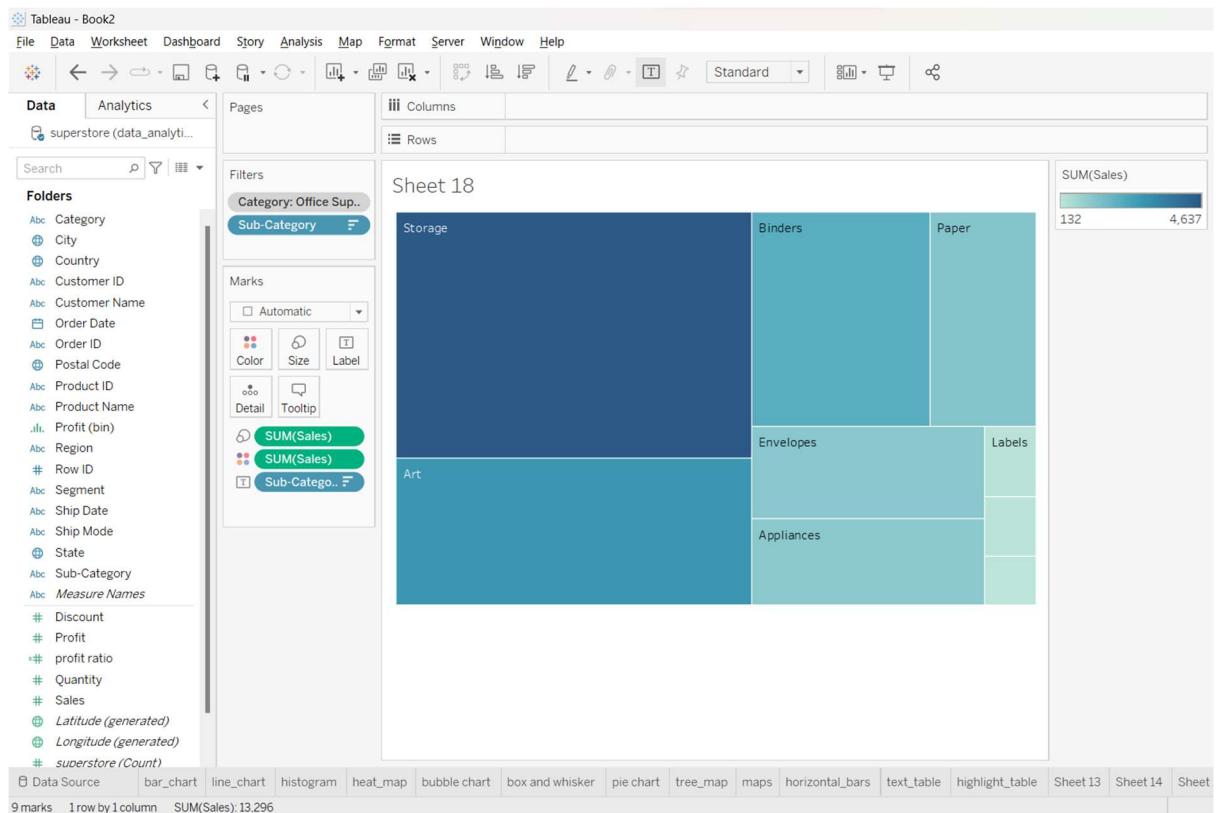




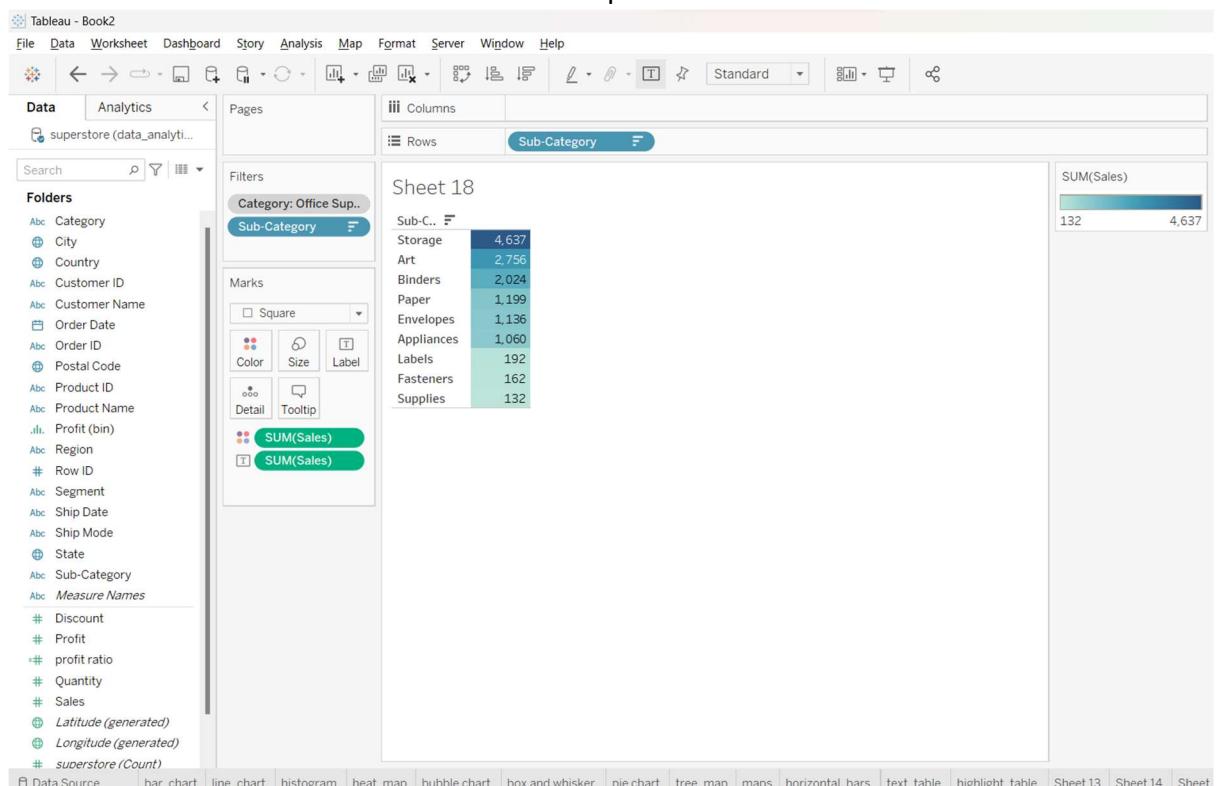
After context filter:



Horizontal Bars



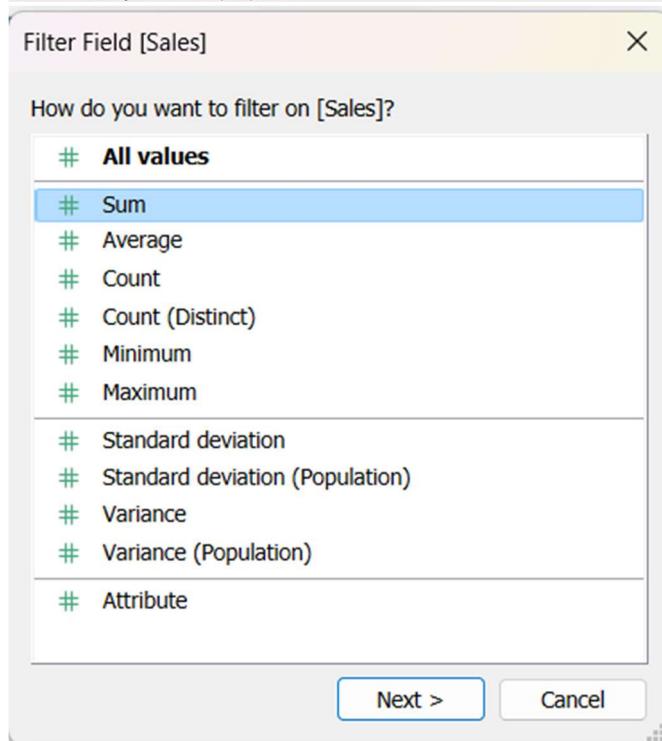
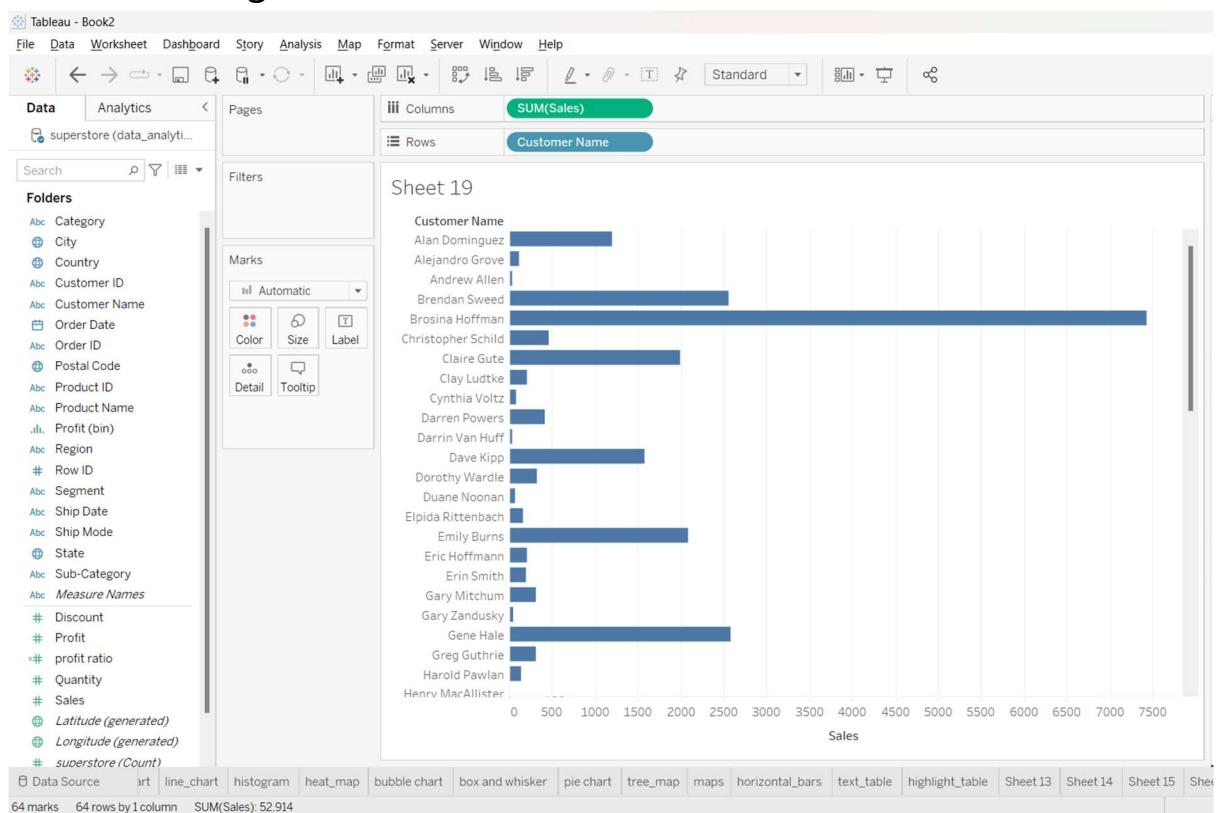
Tree map

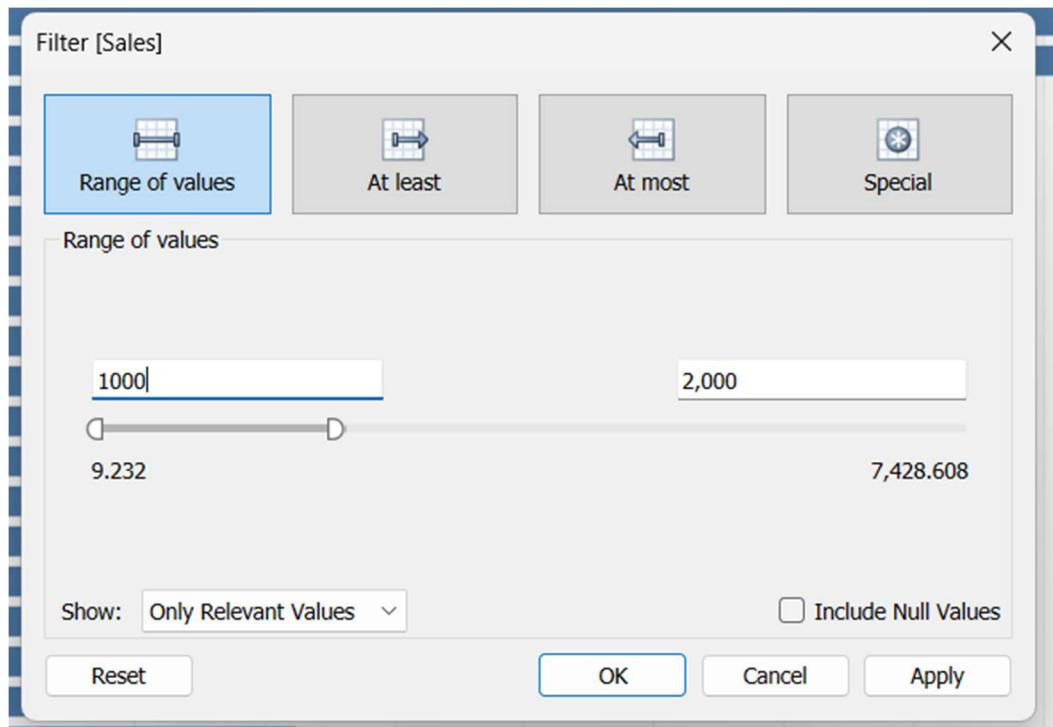


Highlight table

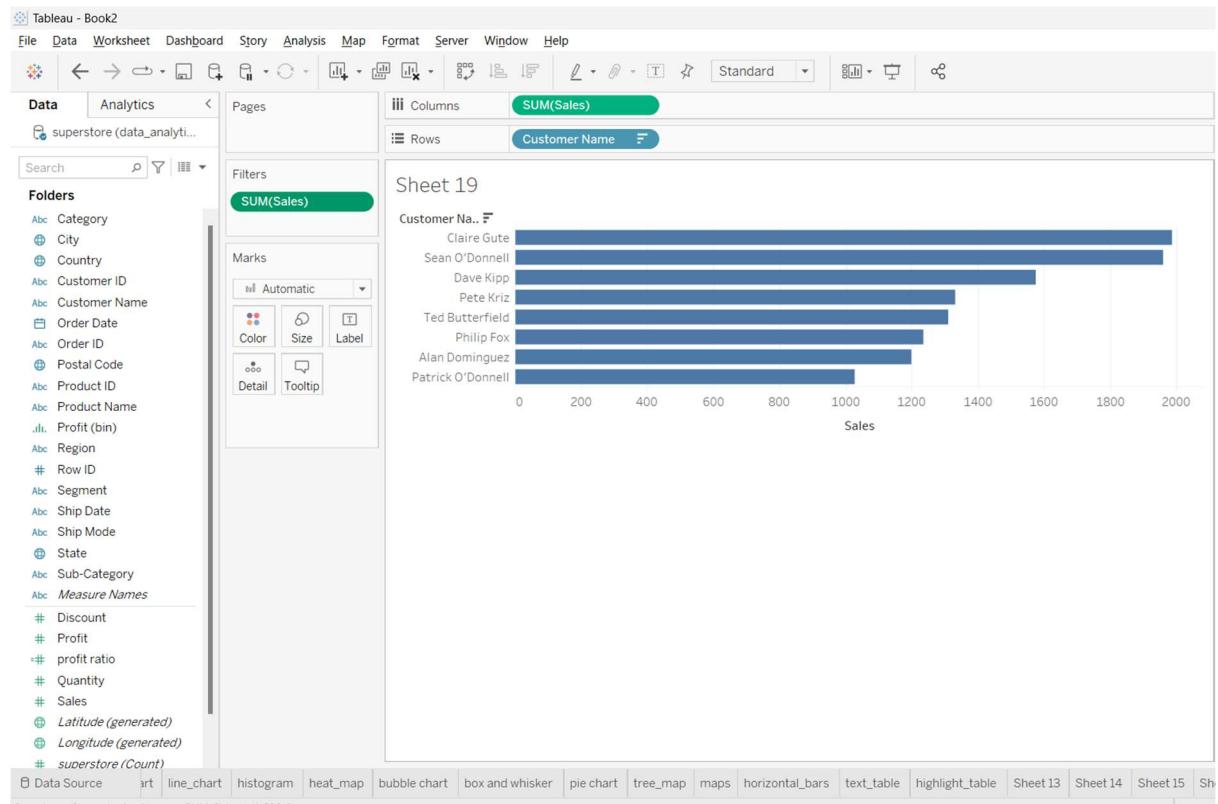
Measure filter: -

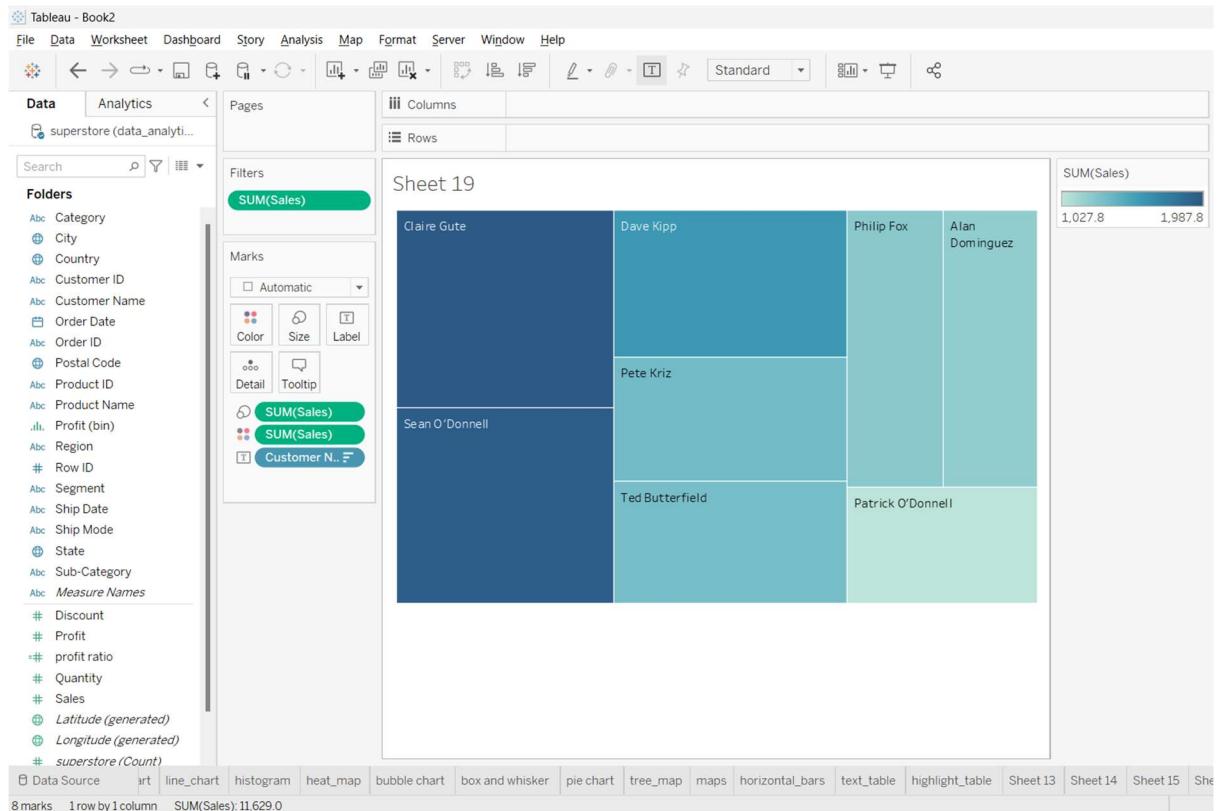
Before filtering



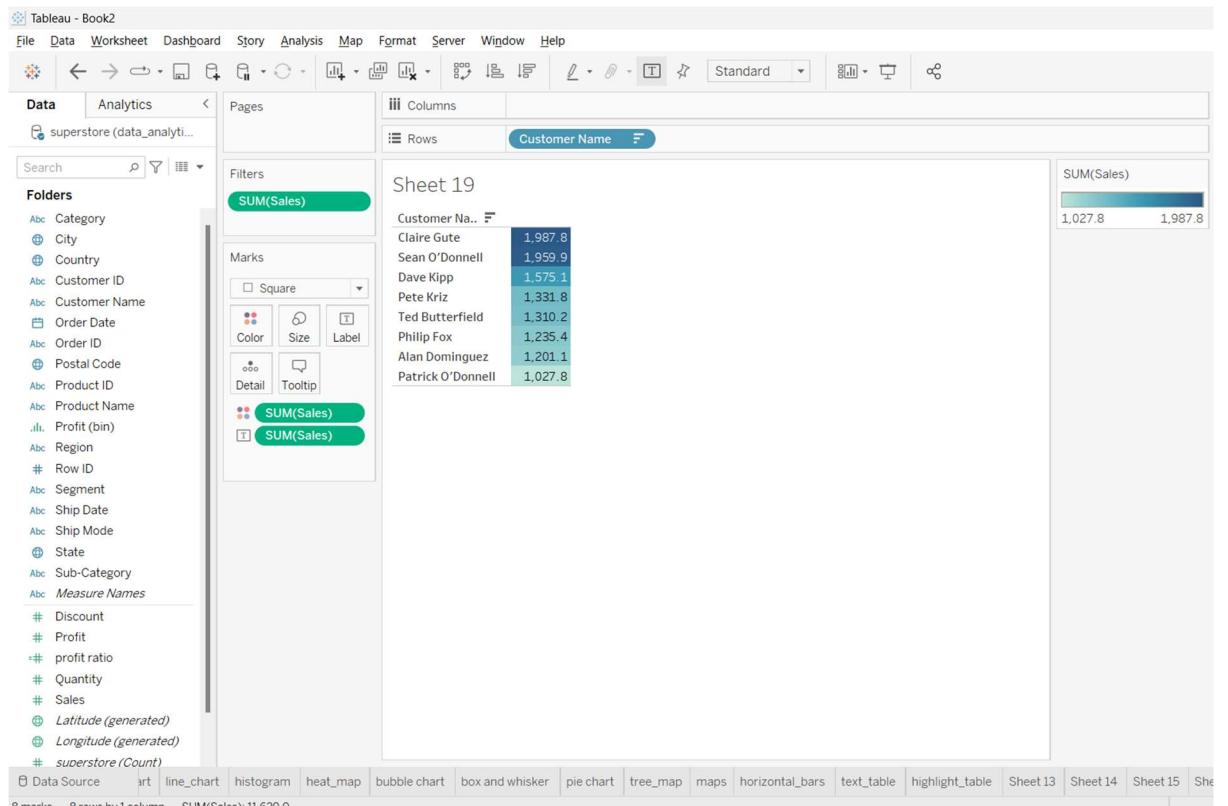


After filtering





Tree map



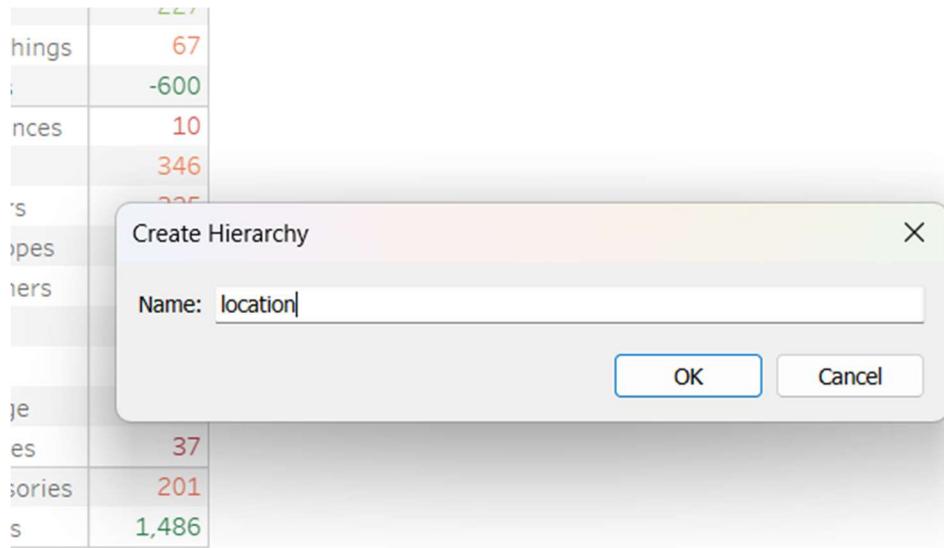
Highlight table

3) Perform the following data manipulations on your dataset.

● create a Hierarchy

The screenshot shows the Tableau interface with the 'superstore (data_analytic...)' data source selected. In the 'Data' pane, 'Postal Code' is highlighted. A context menu is open over 'Postal Code', with the 'Hierarchy' option selected, which has further options like 'Create Hierarchy...', 'Text', and 'Image Role'. The main workspace displays a table named 'highlight_table' with data from the Superstore dataset. The table has two columns: 'Category' and 'Sub-Categories'. The data includes categories like Furniture, Office Supplies, and Accessories, each with their respective sub-categories and values.

Category	Sub-Categories	Values
Furniture	Bookcases, Chairs, Furnishings, Tables	-3,340, 227, 67, -600
Office Supplies	Appliances, Art, Binders, Envelopes, Fasteners, Labels, Paper, Storage, Supplies	10, 346, 325, 394, 59, 90, 516, 299, 37
Accessories	Accessories, Phones	201, 1,486



Data Analytics < Pa

superstore (data_analyti...)

Search Fil

Folders

- Abc Category
- Abc Customer ID
- Abc Customer Name
- Abc **location** (highlighted with a black oval)
 - Abc City
 - Abc Country
 - Abc Postal Code
 - Abc State
- Abc Order Date
- Abc Order ID
- Abc Product ID
- Abc Product Name
- Abc Profit (bin)
- Abc Region
- # Row ID
- Abc Segment

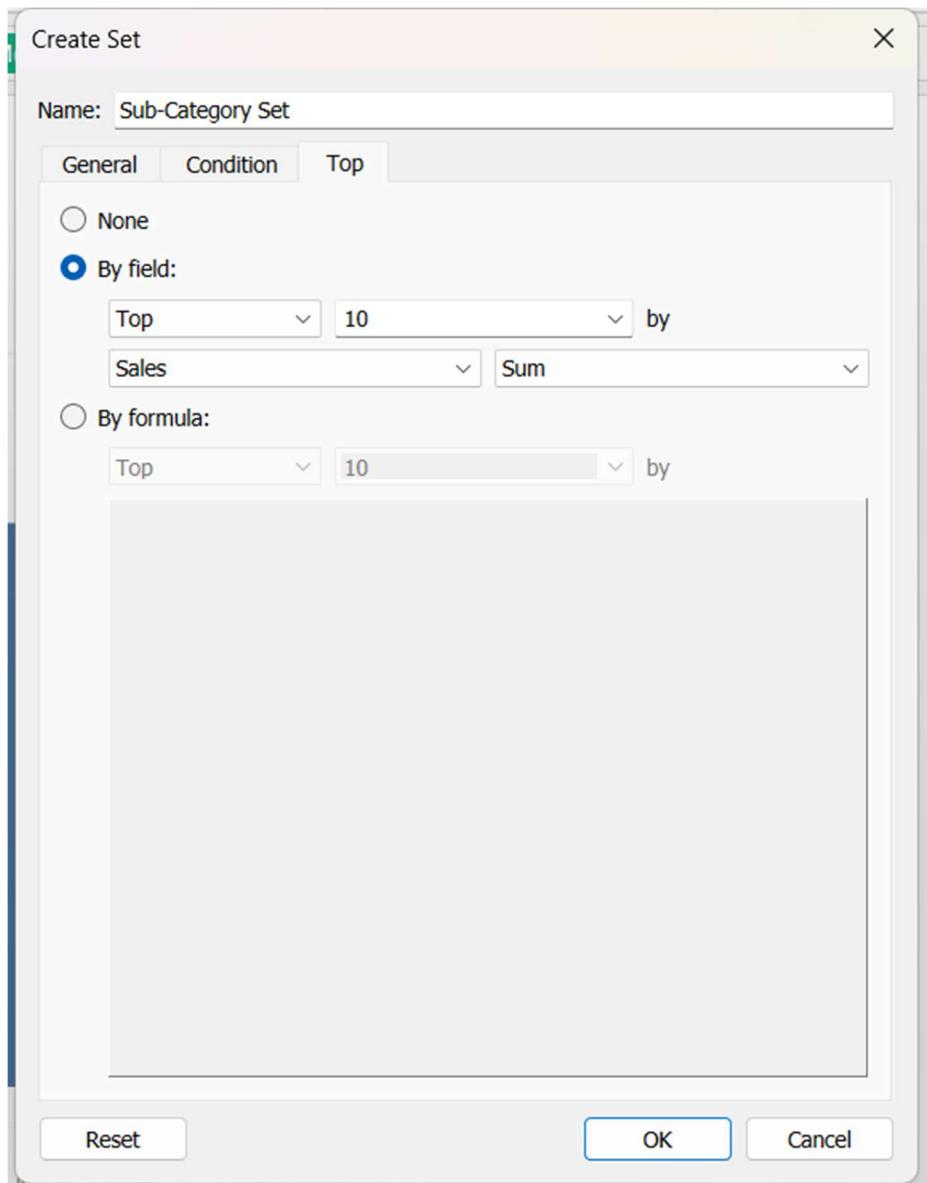
- create a set

The screenshot shows the Tableau Data pane with the 'Data' tab selected. A context menu is open over the 'Sub-Category' field in the 'Folders' section. The menu path 'Create > Set...' is highlighted with a blue selection bar.

Add to Sheet

- Show Filter
- Duplicate
- Rename
- Hide
- Aliases...
- Create** ▾
- Set...**
- Transform ▾
- Convert to Measure
- Change Data Type
- Default Properties ▾
- Geographic Role ▾
- Image Role ▾
- Group by
- Folders ▾
- Hierarchy ▾
- Replace References...
- Describe...

15 marks 1 row by 15 columns SUM(Profit): 118



Abc Product Name

.All Profit (bin)

Abc Region

Row ID

Abc Segment

Abc Ship Date

Abc Ship Mode

Abc Sub-Category

Sub-Category Set

Abc Measure Names

Discount

Profit

=# profit ratio

- create a group

Tableau - Book2

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics < Pages Columns Sub-Catego

superstore (data_analyti... Rows SUM(Profit)

Search

Add to Sheet

- Show Filter
- Duplicate
- Rename
- Hide
- Aliases...
- Create ▾
- 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...

Sheet 18

1K

Profit

-1K

-2K

-3K

Accessories Appliances Art Binders Bookcases Chairs

15 marks 1 row by 15 columns SUM(Profit): 118

The screenshot shows the Tableau interface with a bar chart visualization. The data pane on the left lists various dimensions and measures, including 'Sub-Category' which is currently selected. A context menu is open over 'Sub-Category', with 'Group...' highlighted. Other options in the menu include 'Calculated Field...', 'Set...', and 'Parameter...'. The visualization on the right is a bar chart of Profit by Sub-Category, showing values for Accessories, Appliances, Art, Binders, Bookcases, and Chairs.

