

Assignment-2

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Registration: 20BCT0014`

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

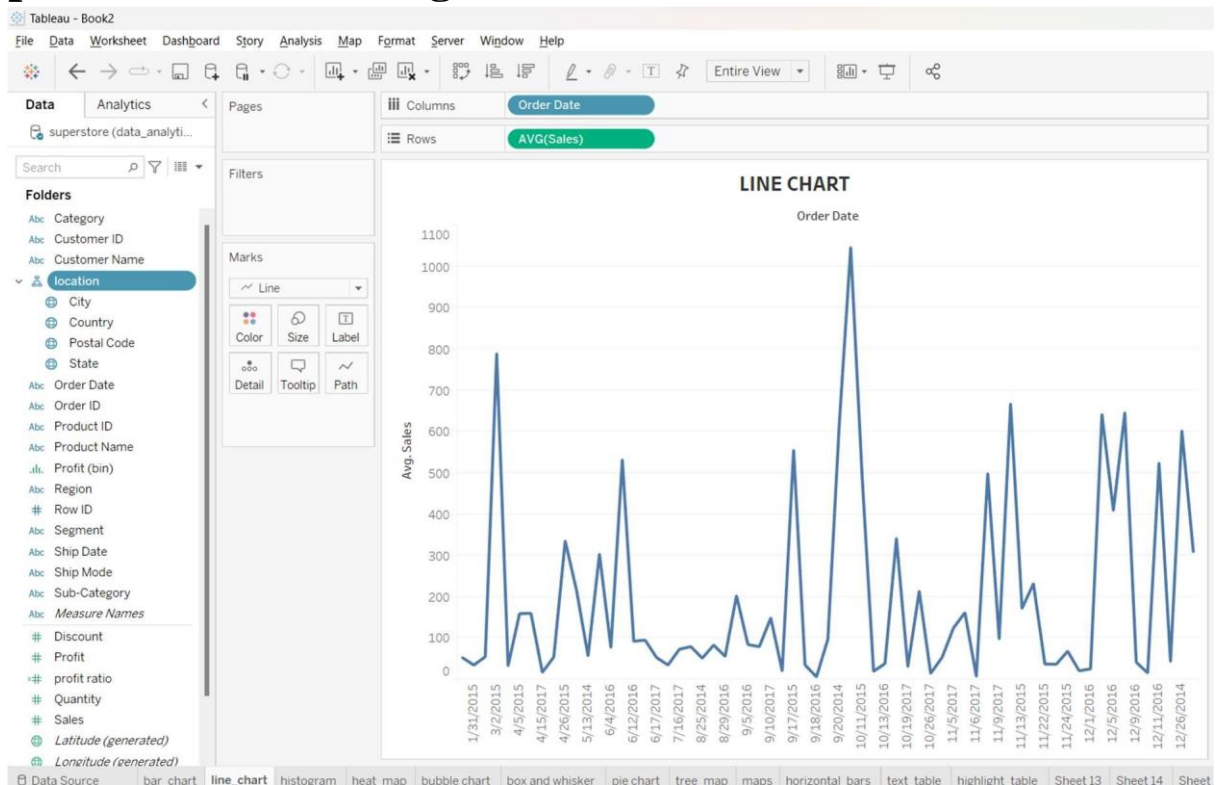


Figure 1 LINE CHART

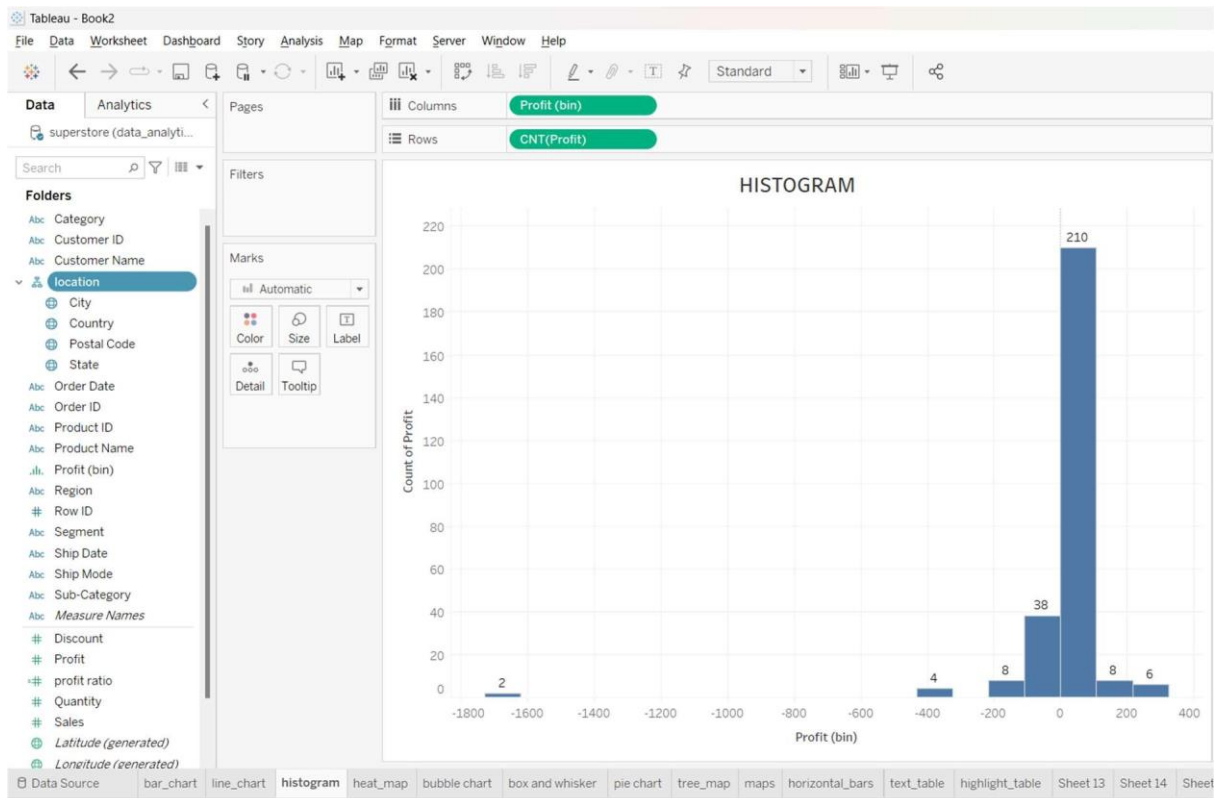


Figure 2 Histogram

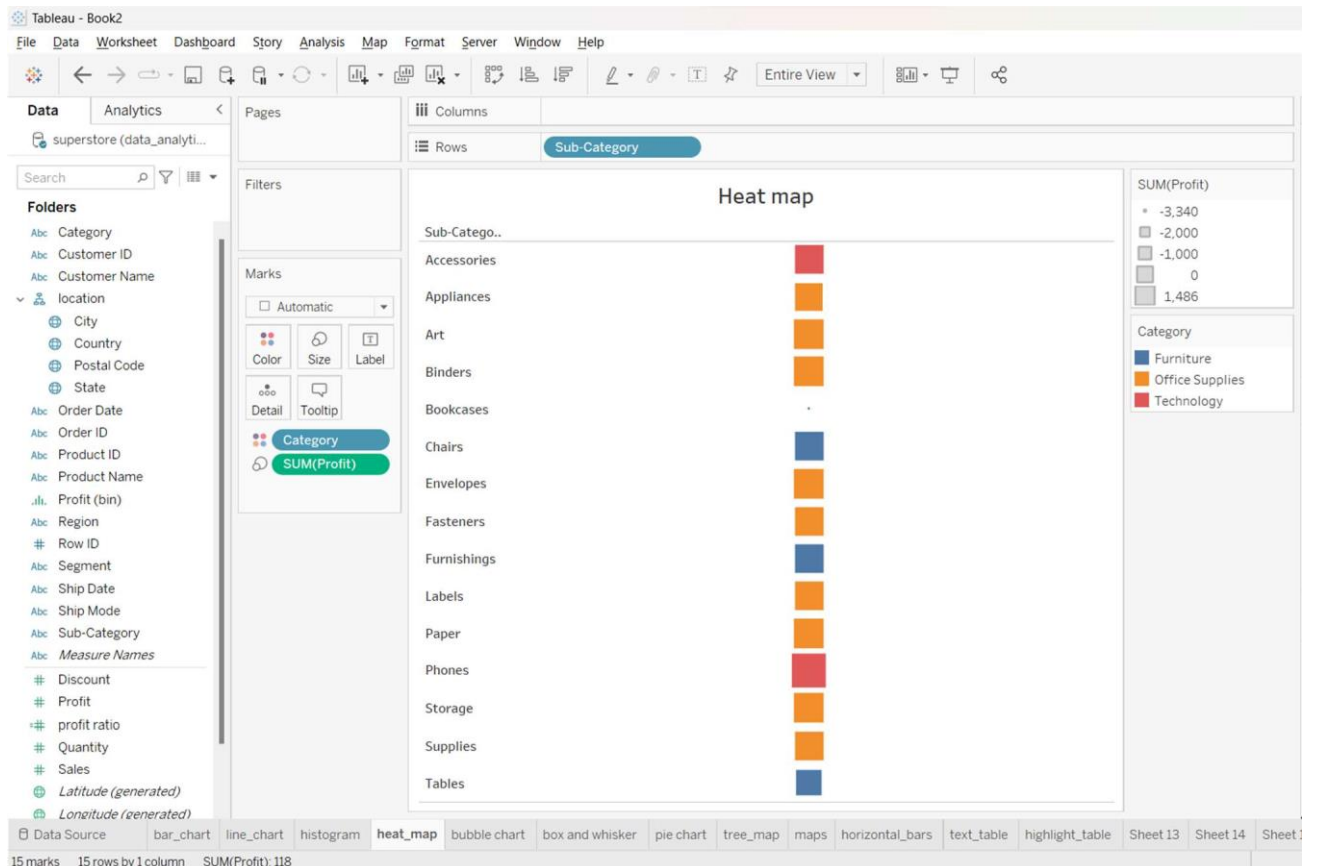


Figure 3 Heat map

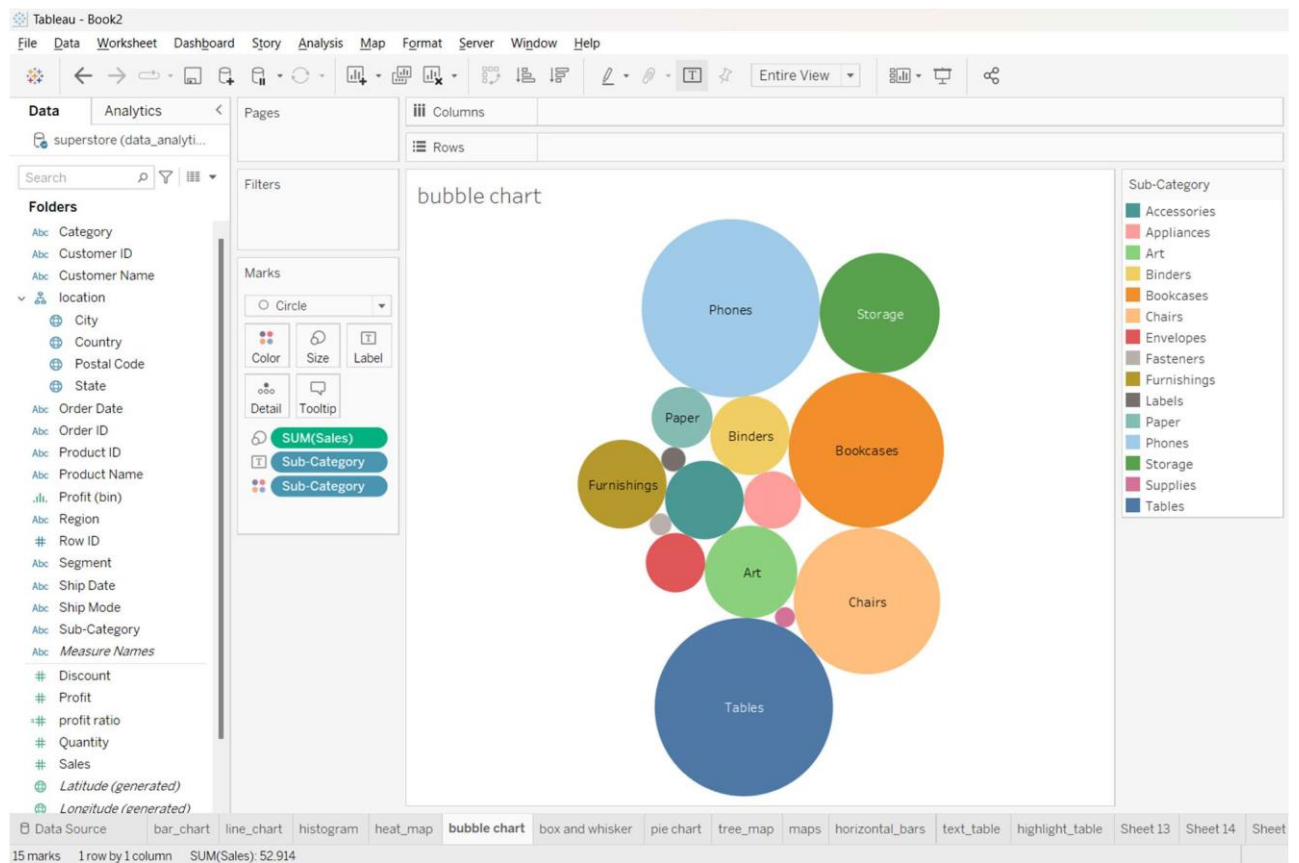


Figure 4 Bubble chart

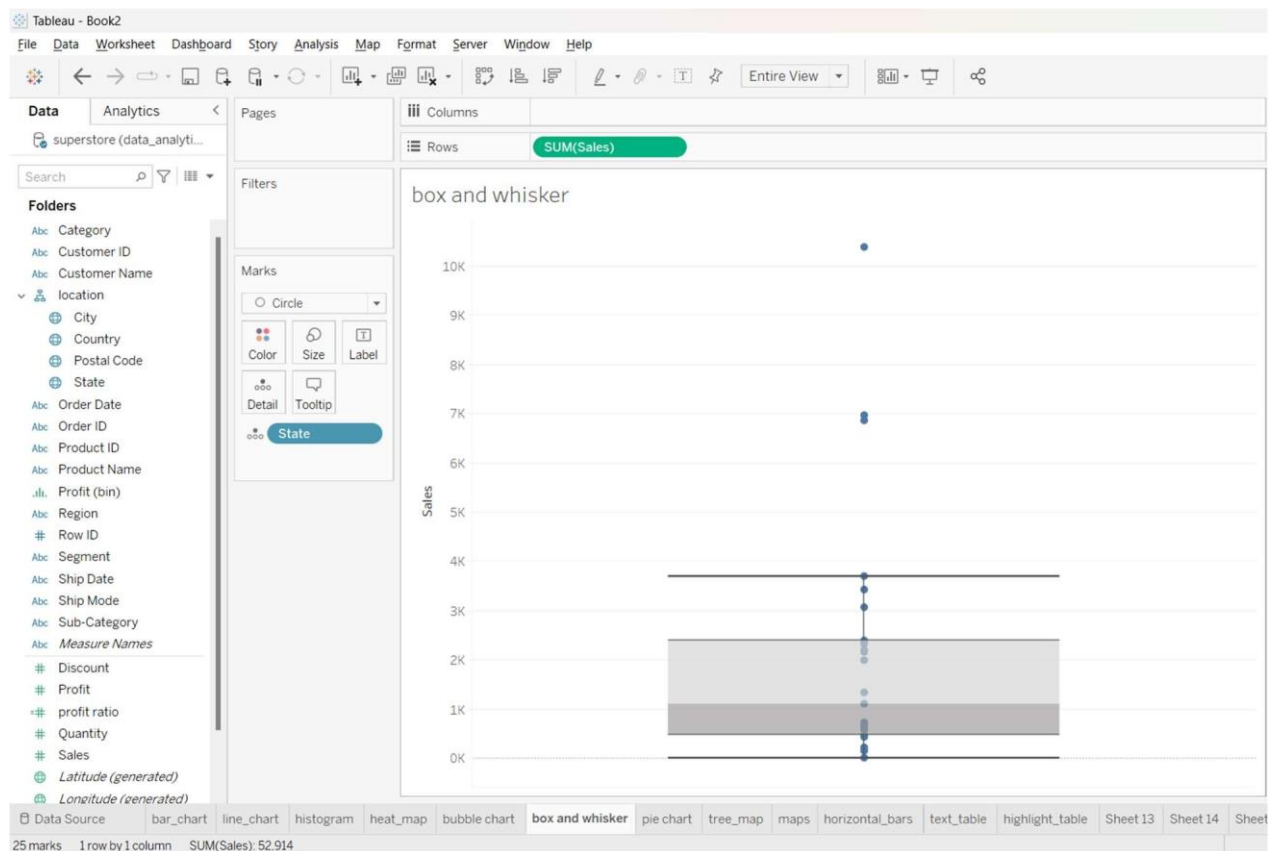


Figure 5 Box and Whisker

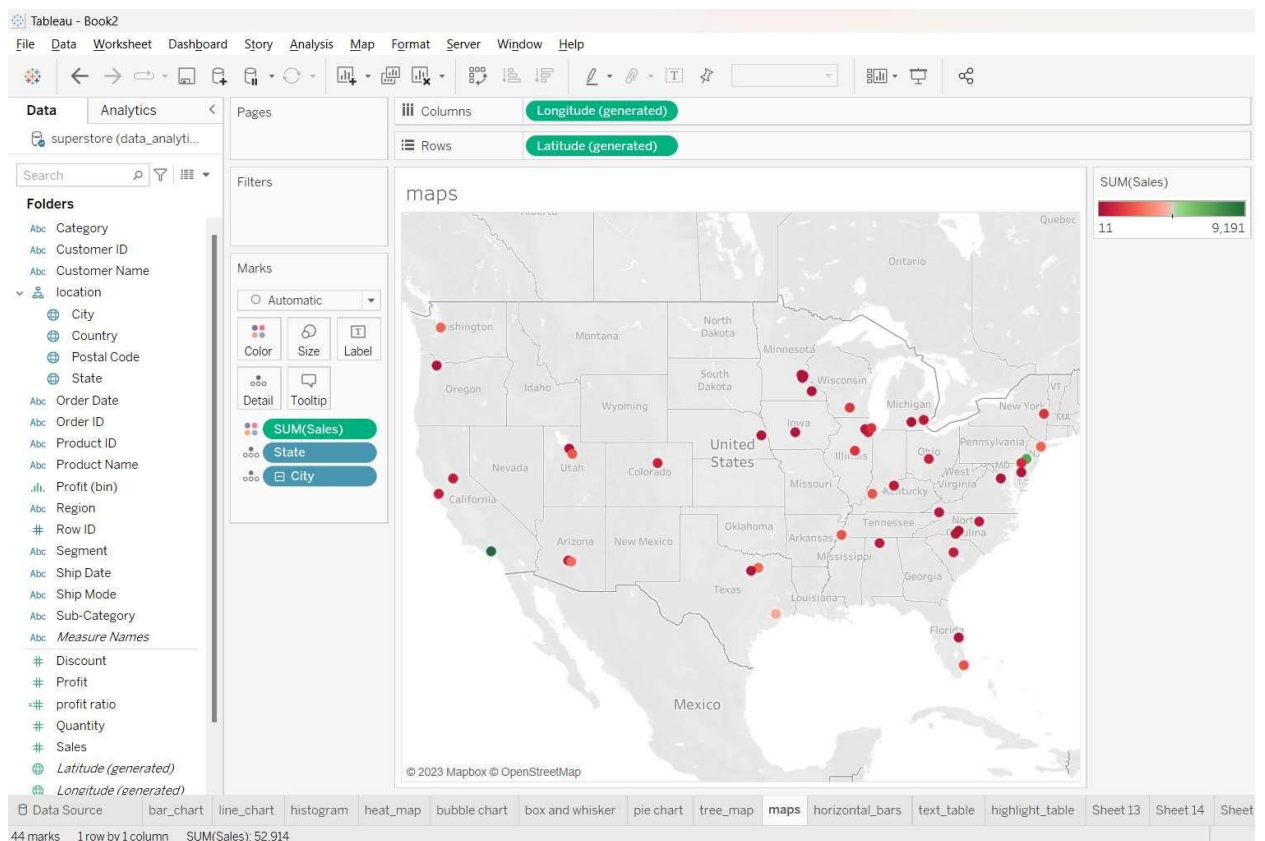


Figure 6 Map format

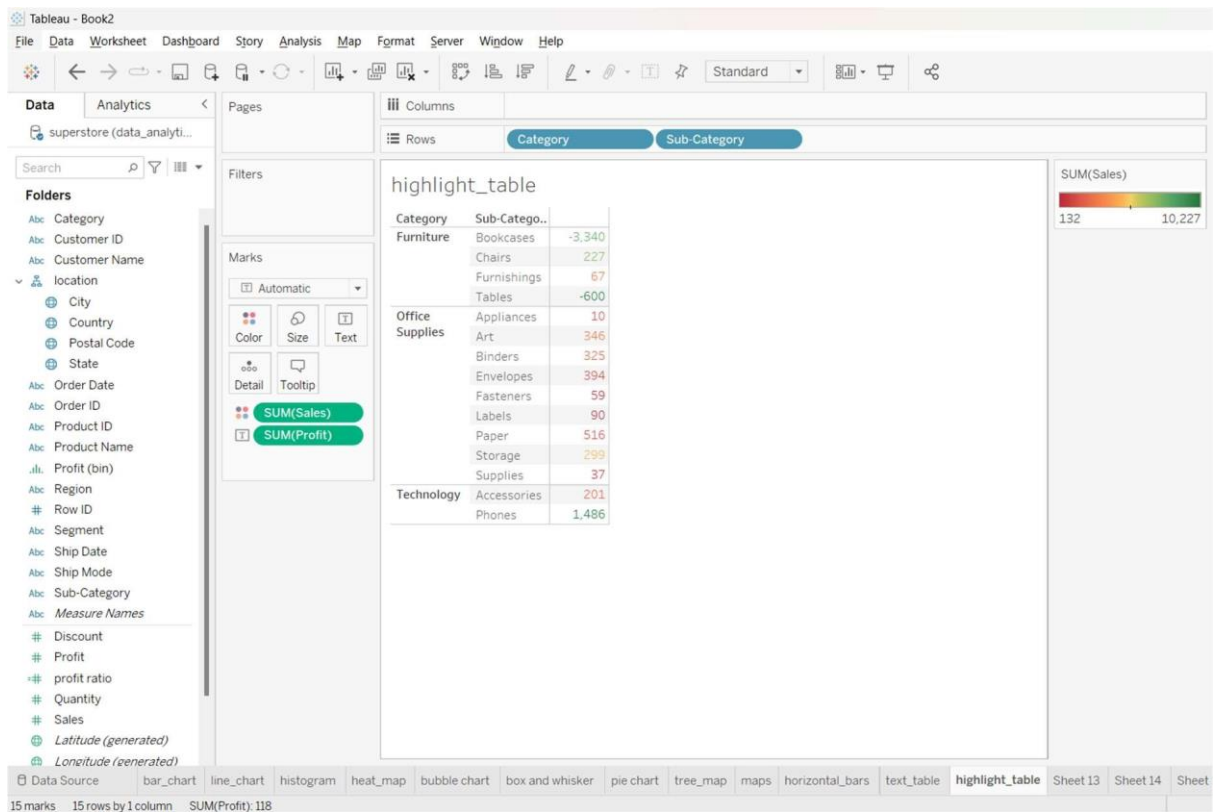
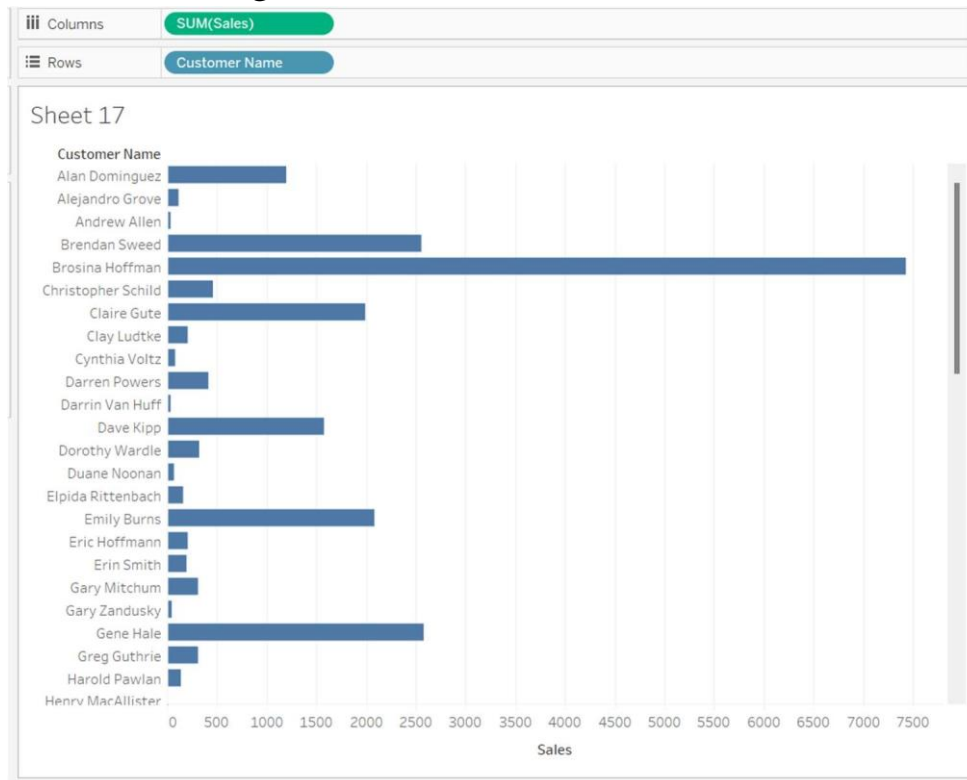


Figure 7 Highlight table

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

Dimension filter: -

Before filtering



Filter [Customer Name]

General Wildcard Condition Top

☒ Select from list ☐ Custom value list ☐ Use all

Enter search text

- ☐ Christopher Schild
- ☐ Claire Gute
- ☒ Clay Ludtke
- ☐ Cynthia Voltz
- ☒ Darren Powers
- ☐ Darrin Van Huff
- ☐ Dave Kipp
- ☐ Dorothy Wardle
- ☐ Duane Noonan
- ☒ Elpida Rittenbach
- ☐ Emily Burns

All None ☐ Exclude

Summary

Field: [Customer Name]

Selection: Selected 7 of 64 values

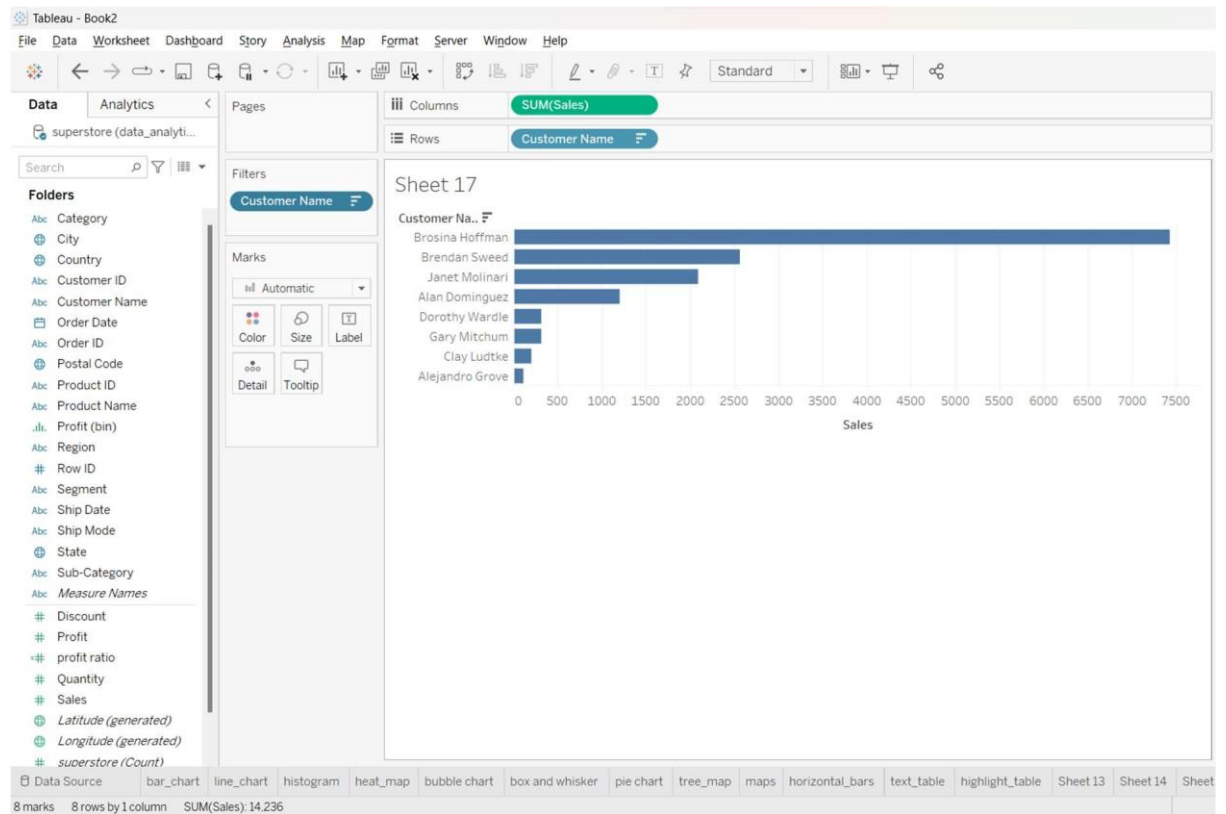
Wildcard: All

Condition: None

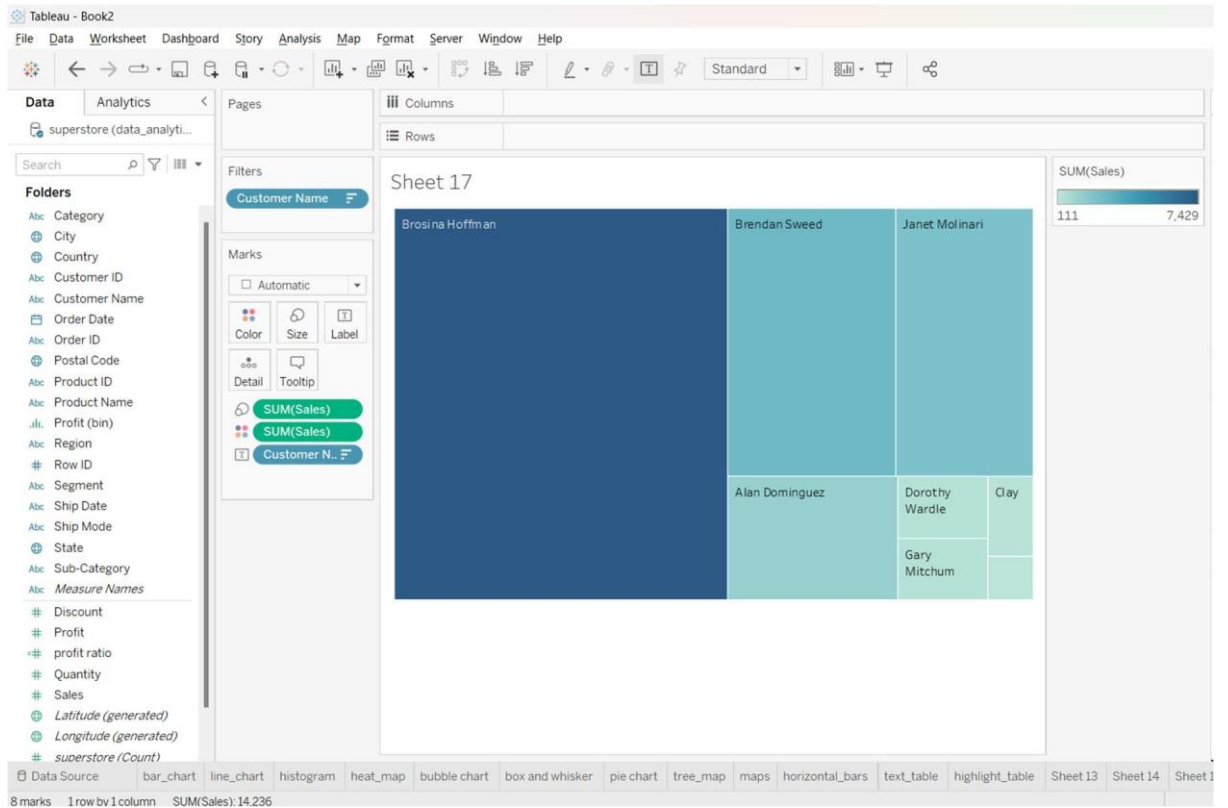
Limit: None

Reset OK Cancel Apply

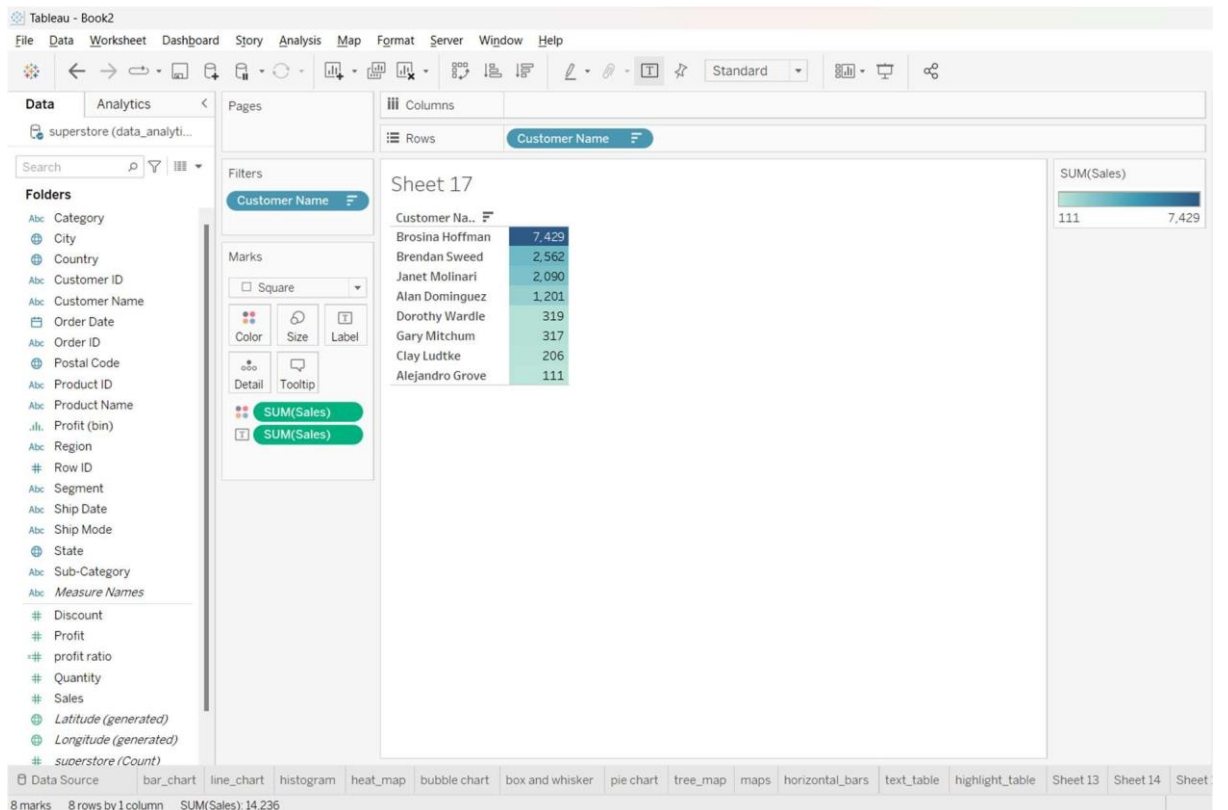
After filtering



Horizontal Bars



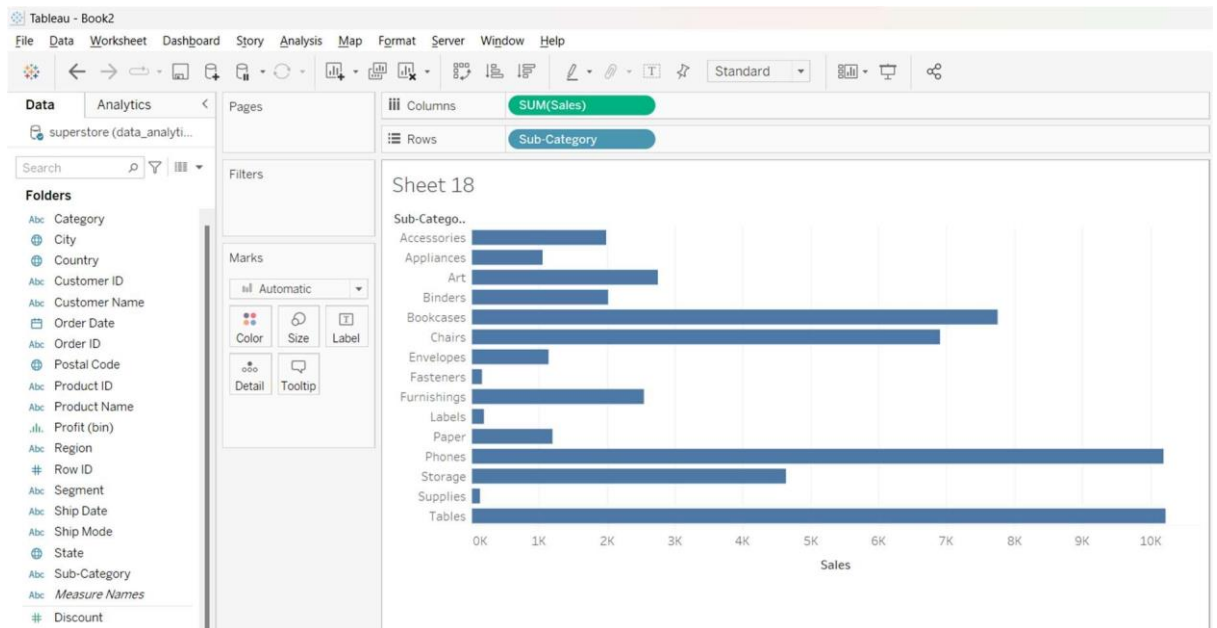
Tree map



Highlight table

Context filtering: -

Before context filtering



Filter [Sub-Category]

General Wildcard Condition Top

☐ None

☒ By field:

Top 10 by

Sales Sum

☐ By formula:

Top 10 by

Reset OK Cancel Apply

Filter [Category] X

General Wildcard Condition Top

☒ Select from list ☐ Custom value list ☐ Use all

Enter search text

☐ Furniture
☒ Office Supplies
☐ Technology

All None ☐ Exclude

Summary

Field: [Category]
Selection: Selected 1 of 3 values
Wildcard: All
Condition: None
Limit: None

Reset OK Cancel Apply

Filters

Sub-Category

Category: Office ..

Edit Filter...

Show Filter

Clear Filter

Add to Context

Apply to Worksheets

Create Set...

Sheet

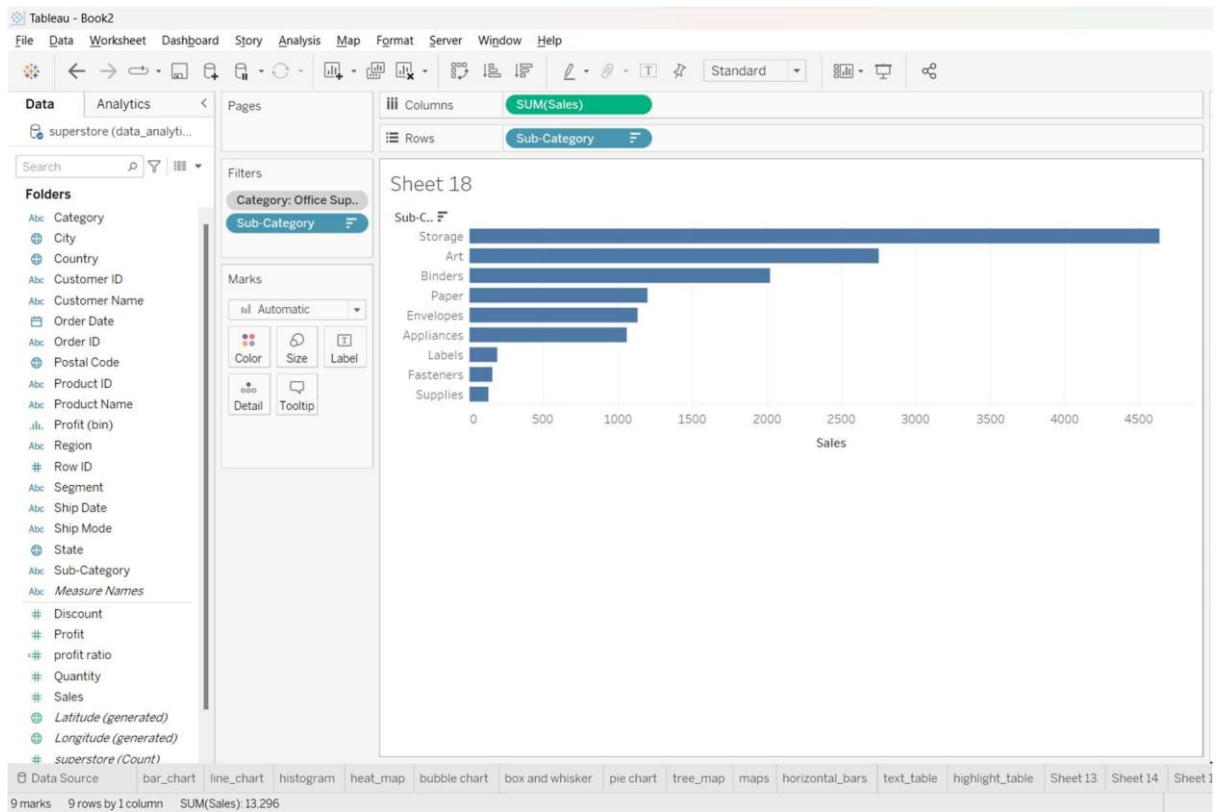
Sub-C..

Sto

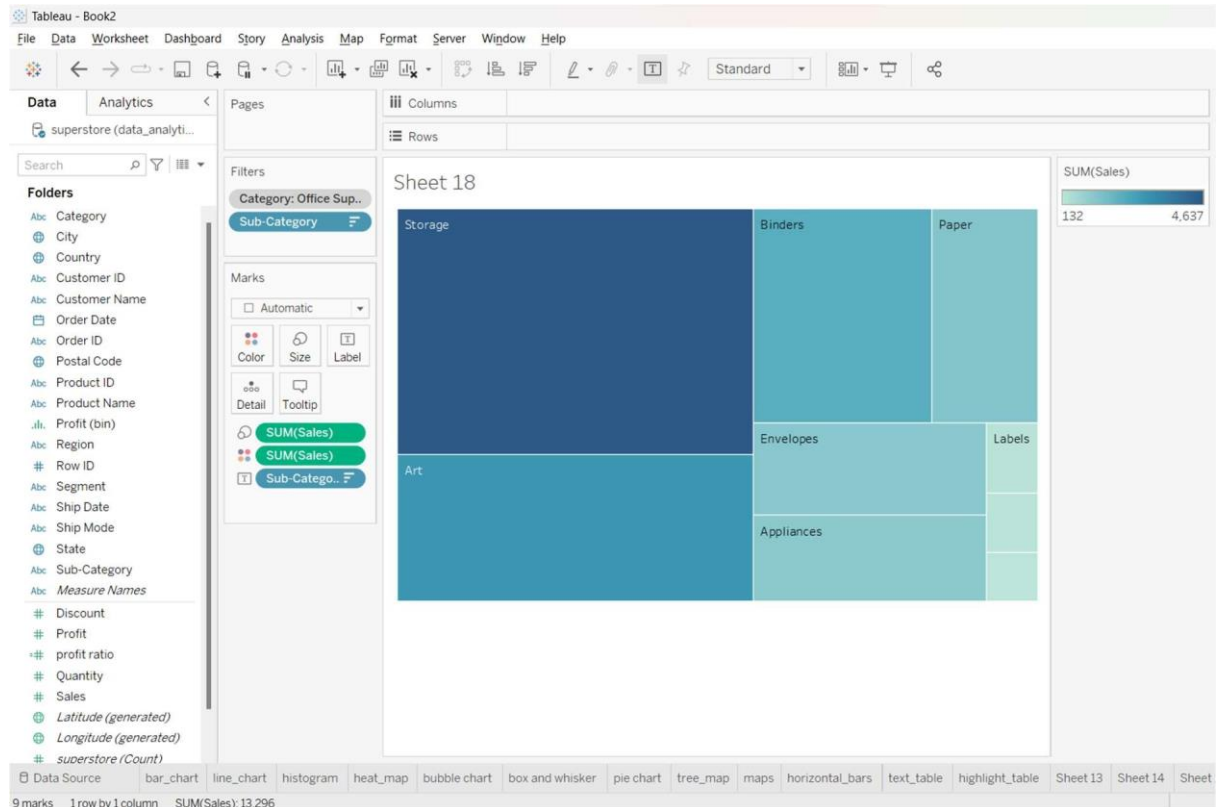
Bin

P

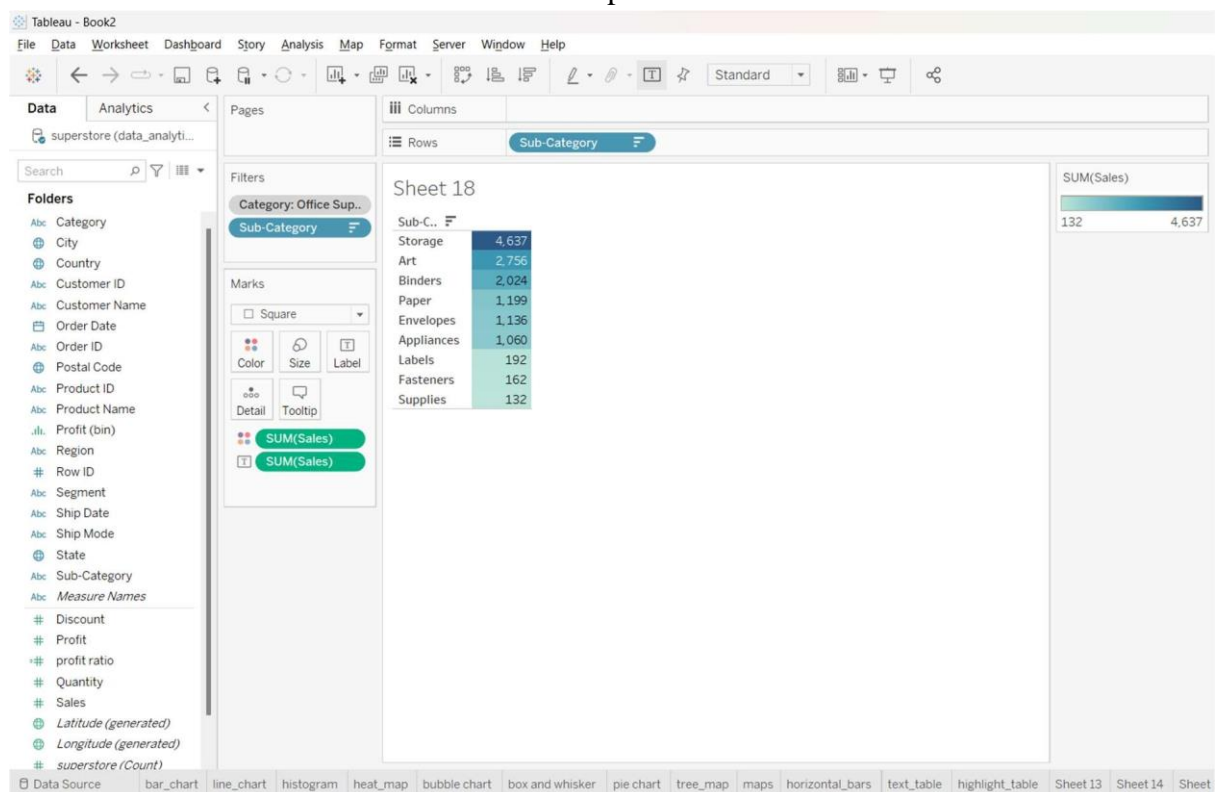
After context filter:



Horizontal Bars



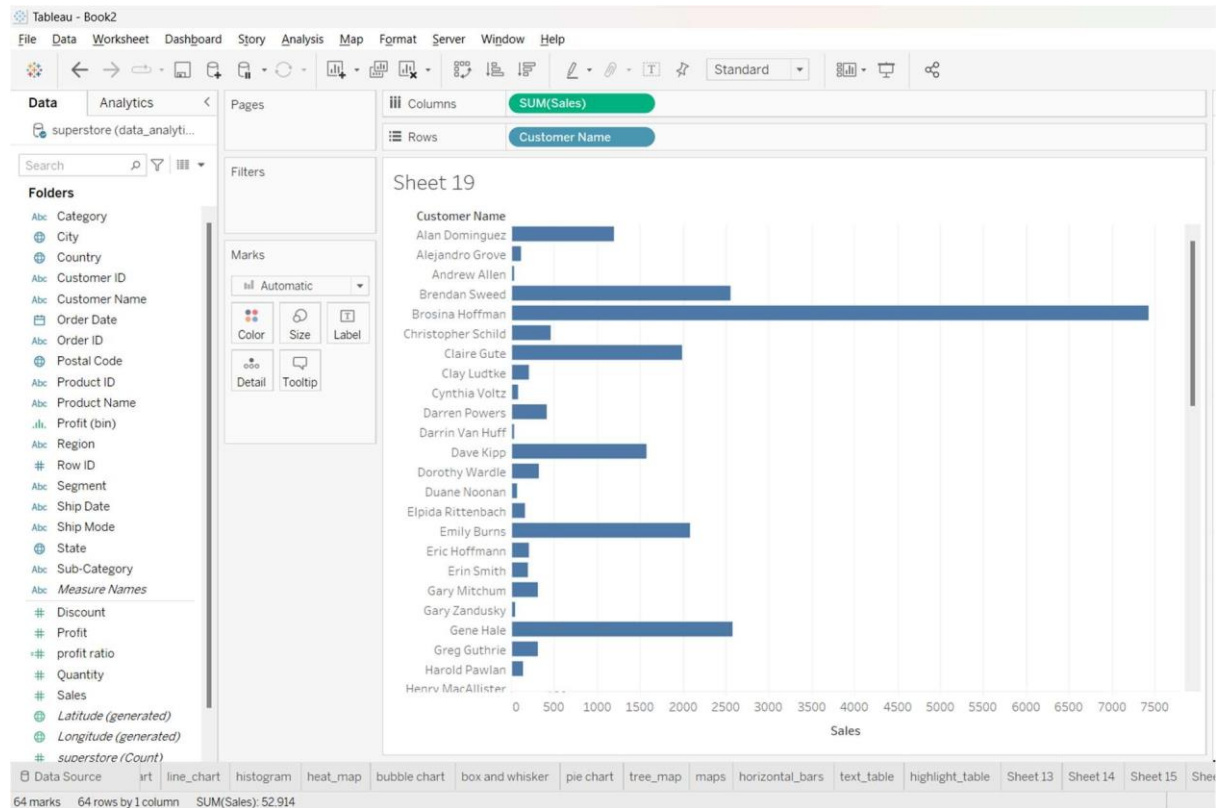
Tree map



Highlight table

Measure filter: -

Before filtering

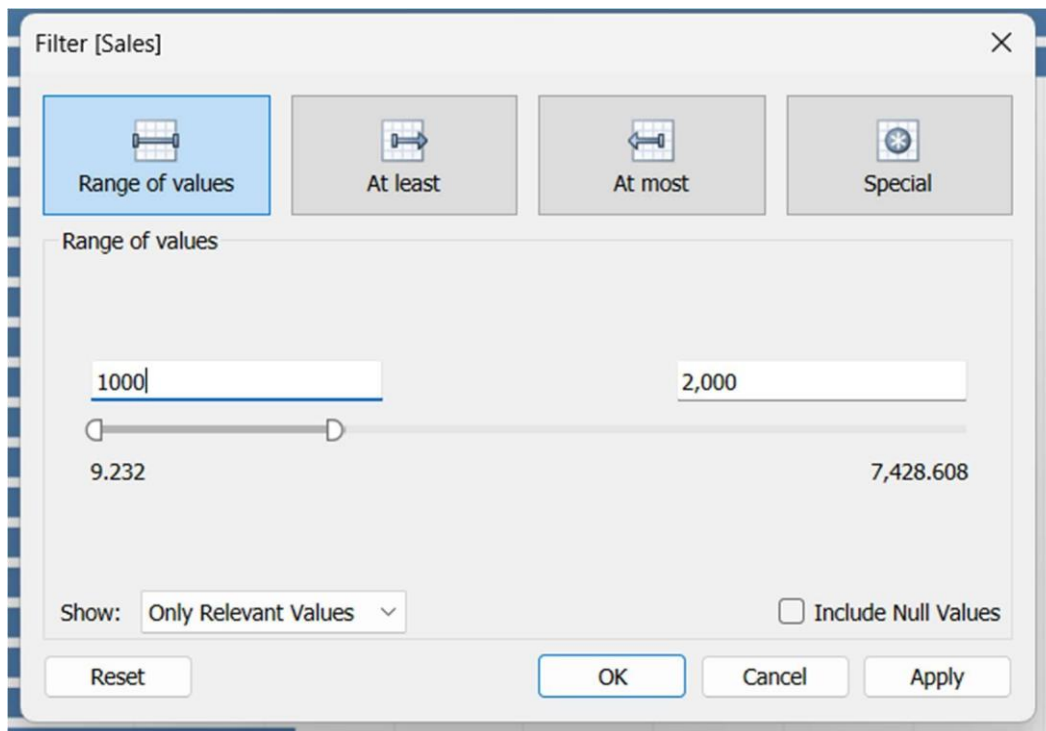


Filter Field [Sales]

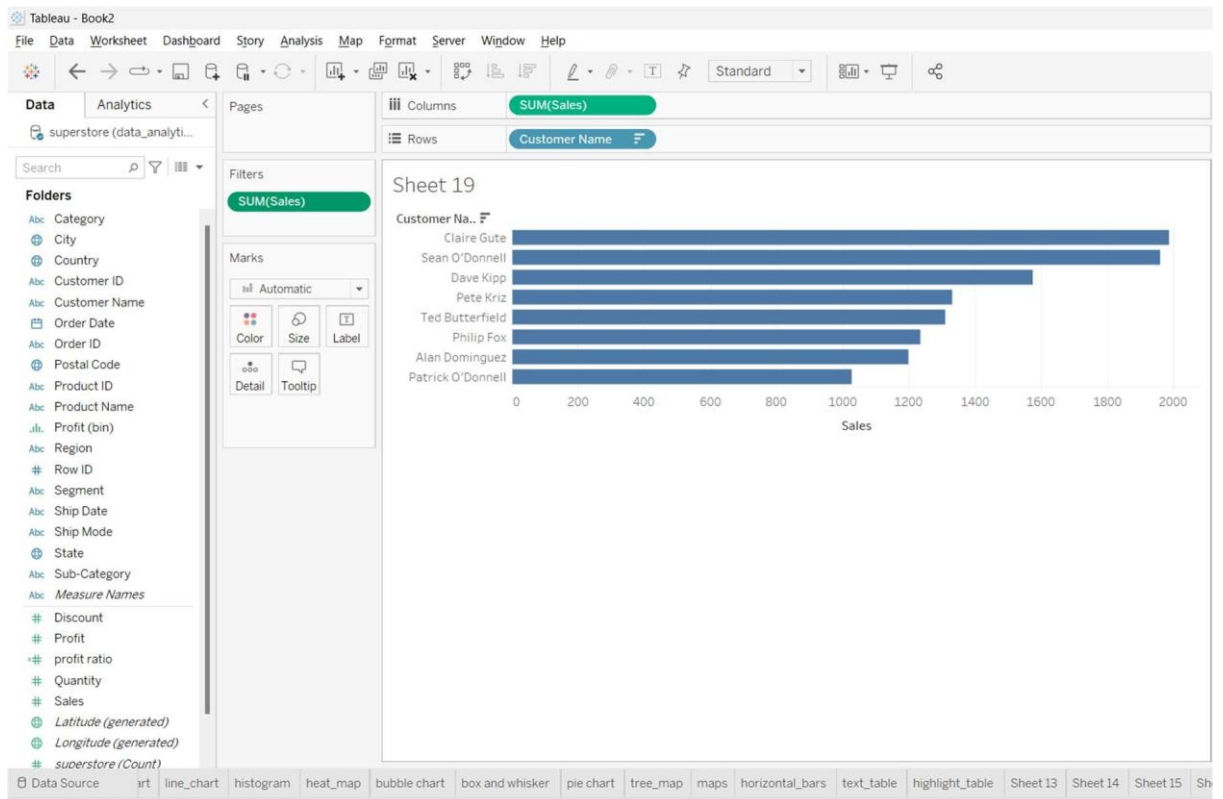
How do you want to filter on [Sales]?

- # All values
- # Sum
- # Average
- # Count
- # Count (Distinct)
- # Minimum
- # Maximum
- # Standard deviation
- # Standard deviation (Population)
- # Variance
- # Variance (Population)
- # Attribute

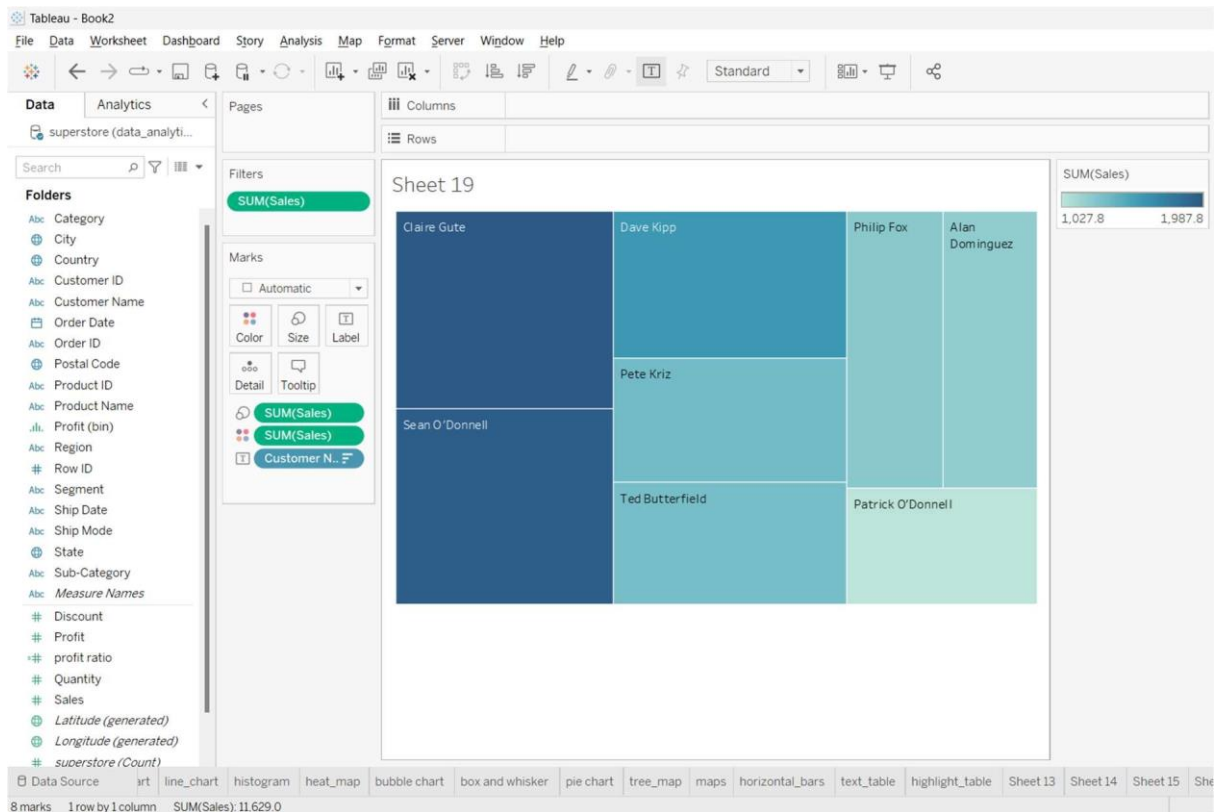
Next > Cancel



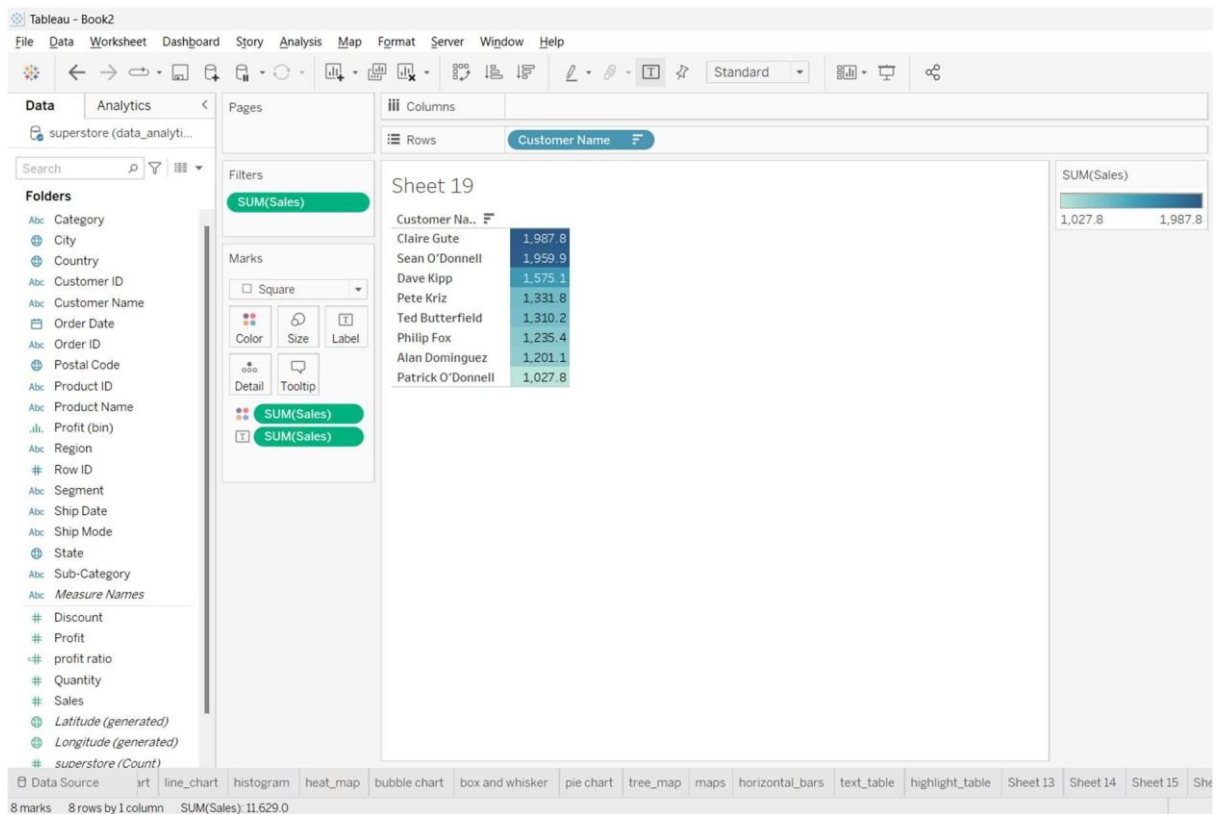
After filtering



Horizontal Bars



Tree map



Highlight table

3) Perform the following data manipulations on your dataset.

- create a Hierarchy

The screenshot shows the Tableau Desktop interface. In the 'Data' pane on the left, the 'City' field is selected, and a right-click context menu is open. The 'Hierarchy' option is highlighted, and a 'Create Hierarchy...' dialog box is visible. The 'Columns' shelf contains 'Category' and 'Sub-Category'. The 'Rows' shelf is empty. The 'highlight_table' view shows a table with columns 'Category', 'Sub-Category', and a numerical value.

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

hings	67
	-600
nces	10
	346
s	335
ypes	
ers	
je	
es	37
ories	201
s	1,486

Create Hierarchy

×

Name:

location

OK

Cancel

Data

Analytics

superstore (data_analyti...

Search

Folders

Category

Customer ID

Customer Name

location

City

Country

Postal Code

State

Order Date

Order ID

Product ID

Product Name

Profit (bin)

Region

Row ID

Segment

- create a set

The screenshot shows the Tableau Desktop interface with the 'Data' pane on the left and a view of 'Sheet 18'. The 'Sub-Category' field is selected in the Data pane, and the 'Add to Sheet' context menu is open. The 'Set...' option is highlighted in the submenu.

Tableau - Book2

File Data Worksheet Dashboard Story Analysis Map Format Server

superstore (data_analyti...)

Search

Folders

- Abc Category
- Abc Customer ID
- Abc Customer Name
- location
 - City
 - Country
 - Postal Code
 - State
- Order Date
- Abc Order ID
- Abc Product ID
- Abc Product Name
- Profit (bin)
- Abc Region
- # Row ID
- Abc Segment
- Abc Ship Date
- Abc Ship Mode
- Abc **Sub-Category**
- Abc Measure Names
- # Discount
- # Profit
- # profit ratio
- # Quantity
- # Sales
- Latitude (generated)
- Longitude (generated)

Add to Sheet

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

Sheet 18

Profit

Accessories

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

Create Set ✕

Name: Sub-Category Set

General Condition Top

☐ None

☒ By field:

Top by

Sales

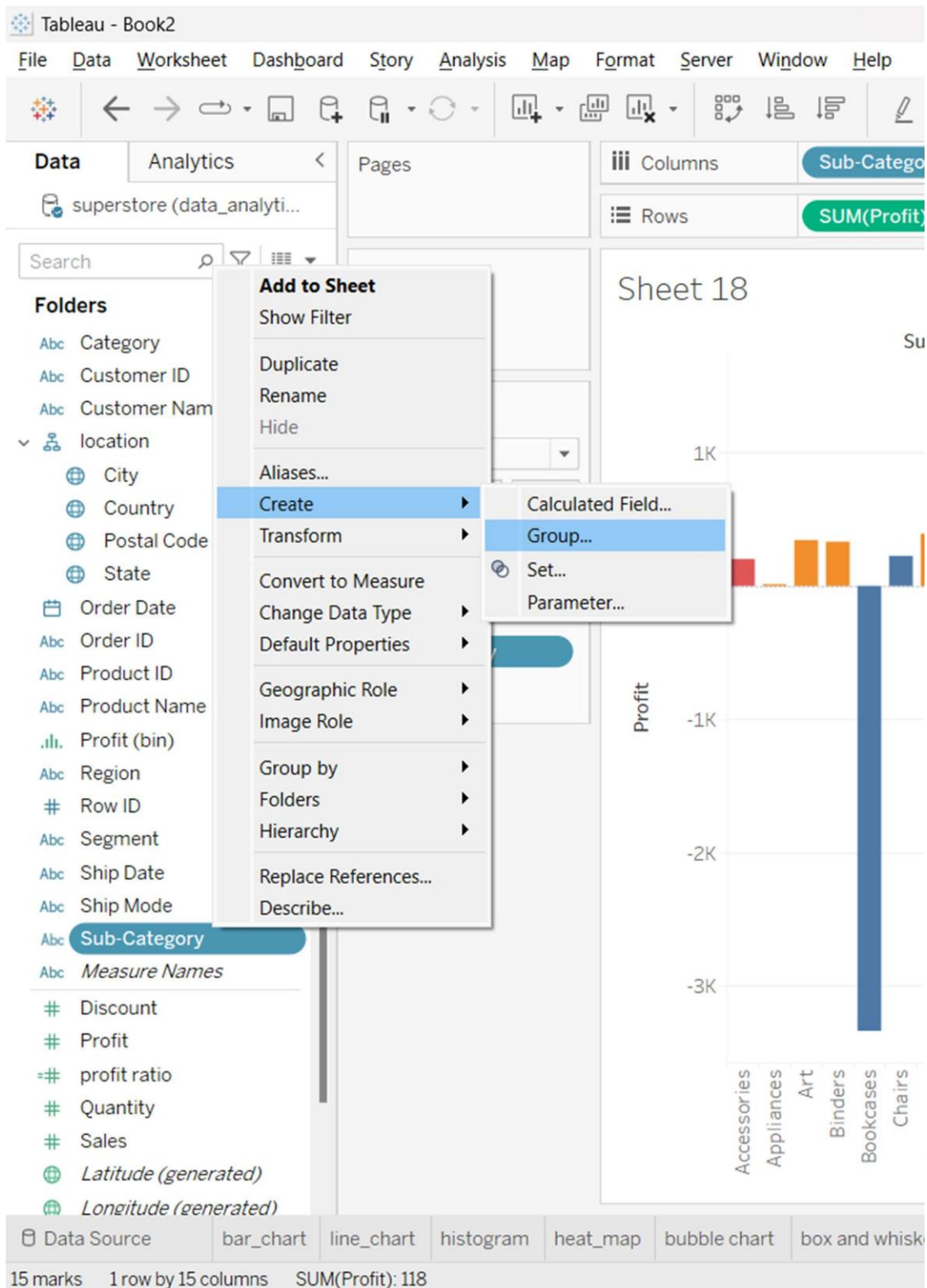
☐ By formula:

Top by

Reset OK Cancel

- Abc Product Name
- .lli 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



Create Group [Sub-Category] X

Field Name:

Groups: Add to:

- Appliances
- Art
- Binders
- Bookcases
- Chairs
- Envelopes
- Fasteners
- Furnishings
- Labels
- Paper
- Phones
- Storage
- Supplies
- Tables

☒ Show Add Location

☐ Include 'Other'

Create Group [Sub-Category] X

Field Name:

Groups: Add to:

- Accessories
- Appliances
- Art
- Binders
- ✓ ☒ Bookcases, Chairs, Furnishings and 1 more
- Bookcases
- Chairs
- Furnishings
- Tables
- Envelopes
- Fasteners
- Labels
- Paper
- Phones

☒ Show Add Location

☐ Include 'Other'

