SMART BRIDGE DATA ANALYTICS

ASSINGMENT-2

NAME:ANUDEEP

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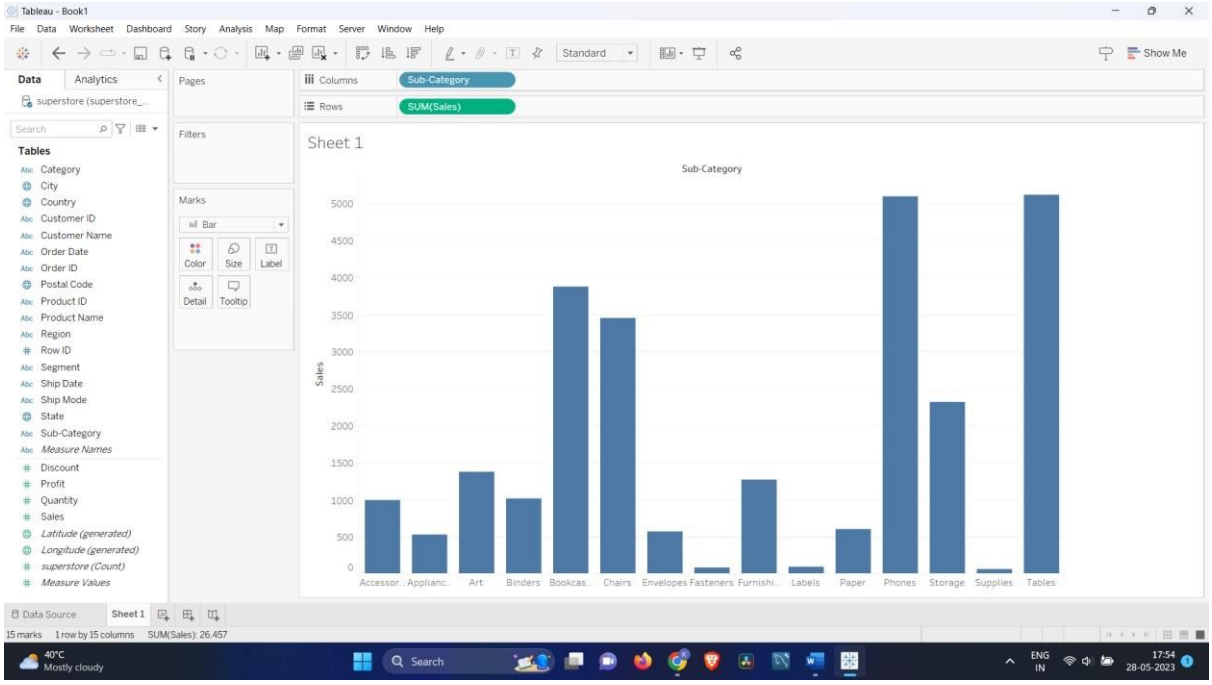
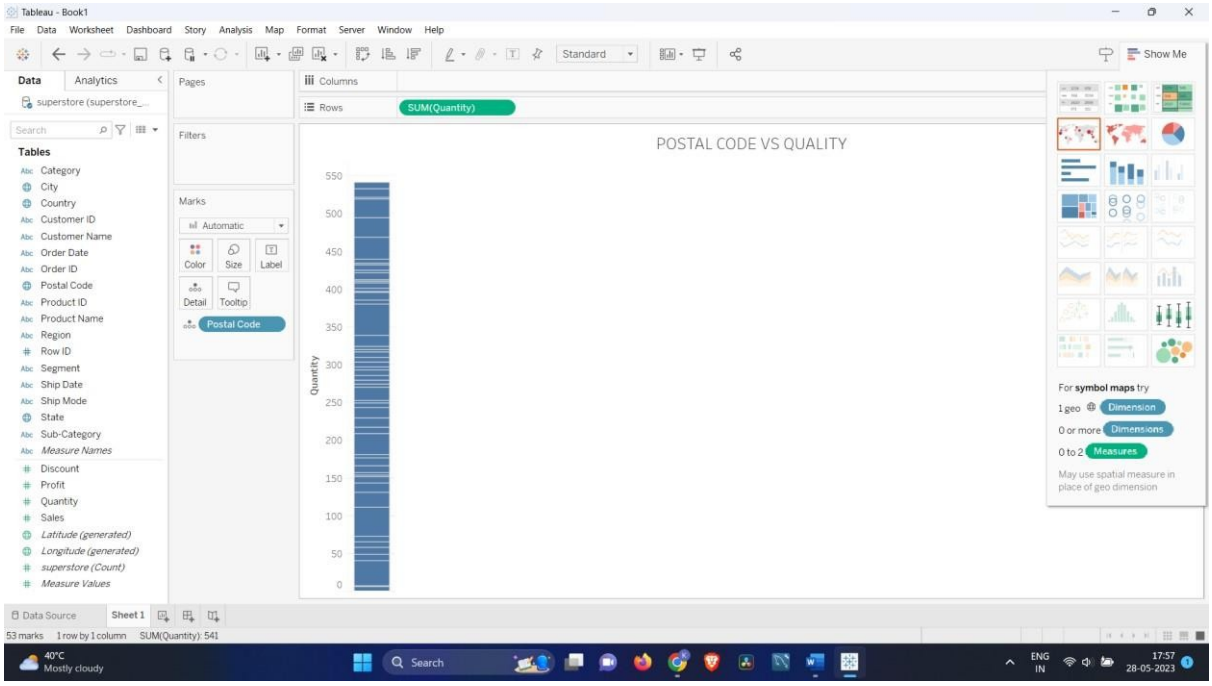
REG NO: 20BCE2495

CAMPUS: VIT VELLORE

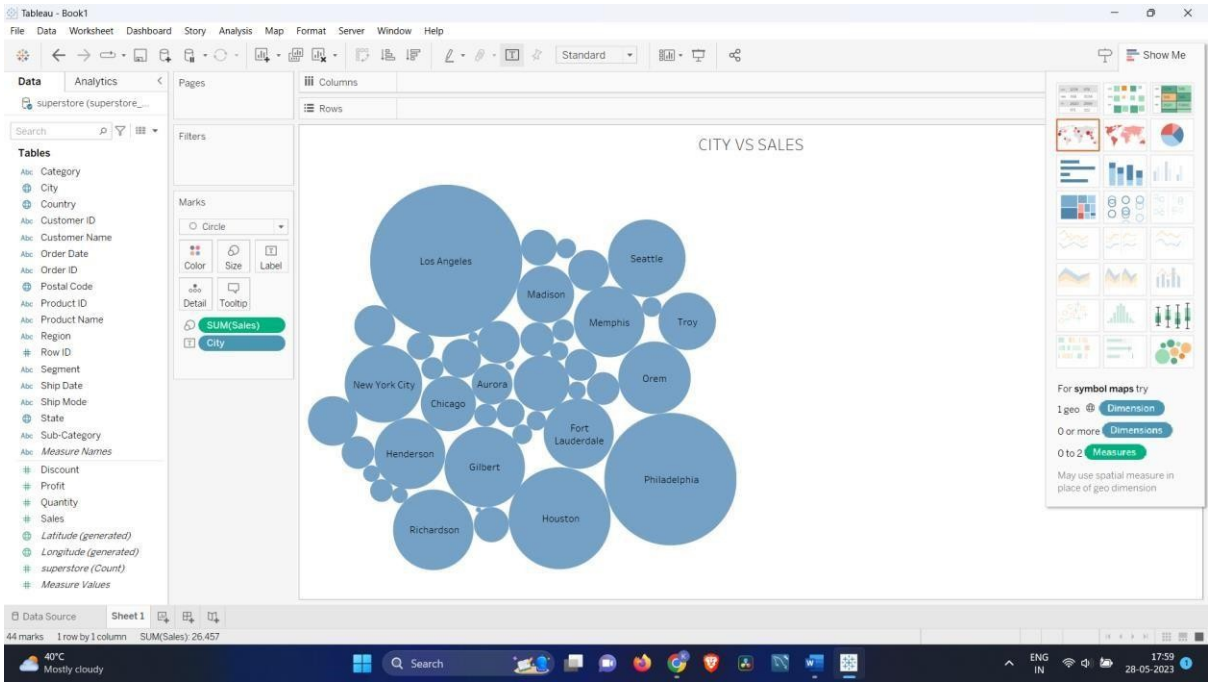
1)Create any 7 data visualizations/charts and perform the following. **Bar graph**



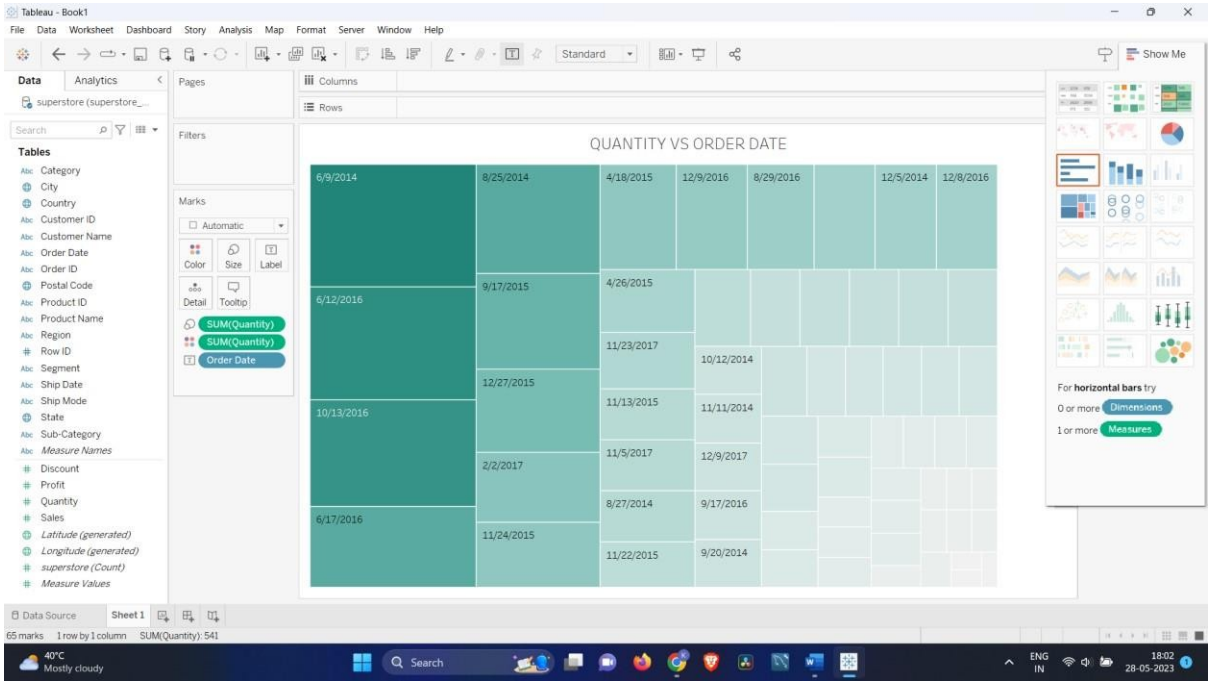
Stacked bar:



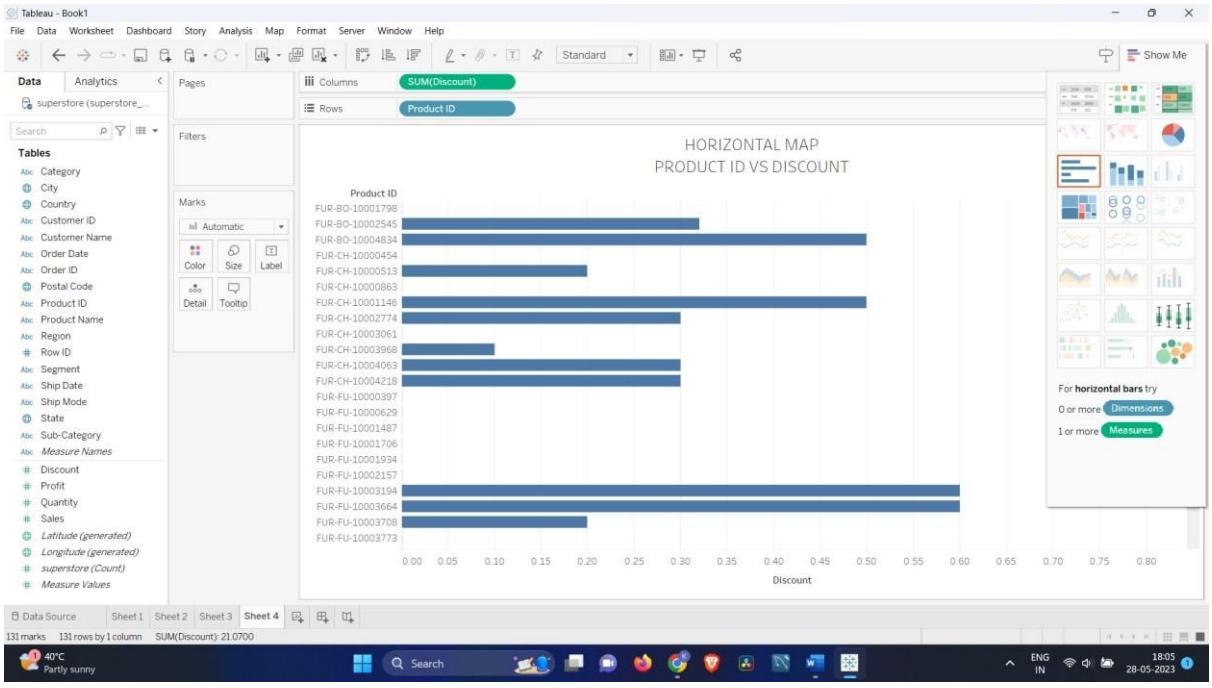
Packed bubble:



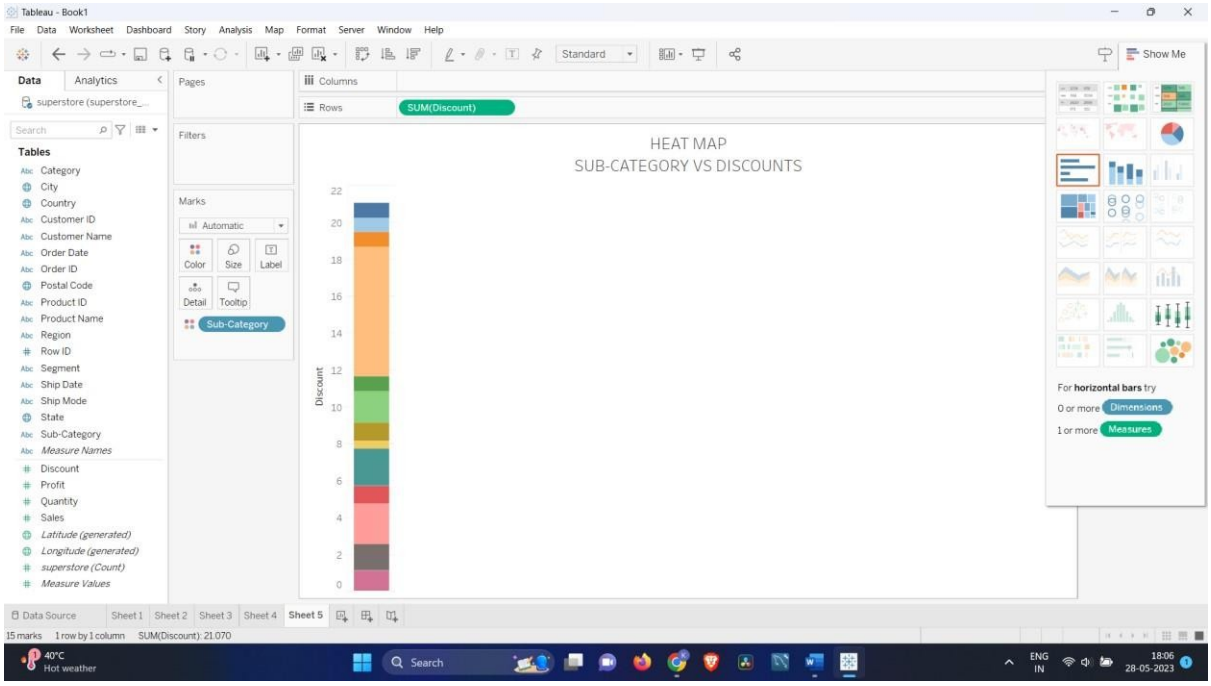
TREE MAP:



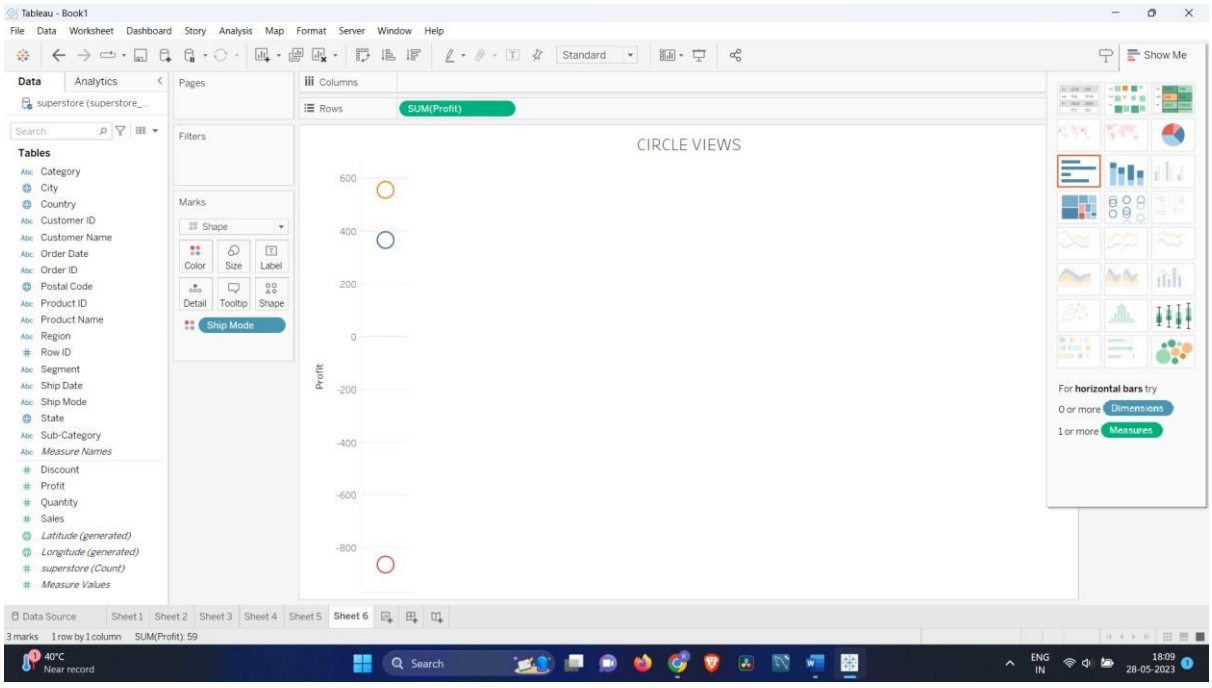
HORIZONTAL MAPS:



HEAT MAPS:

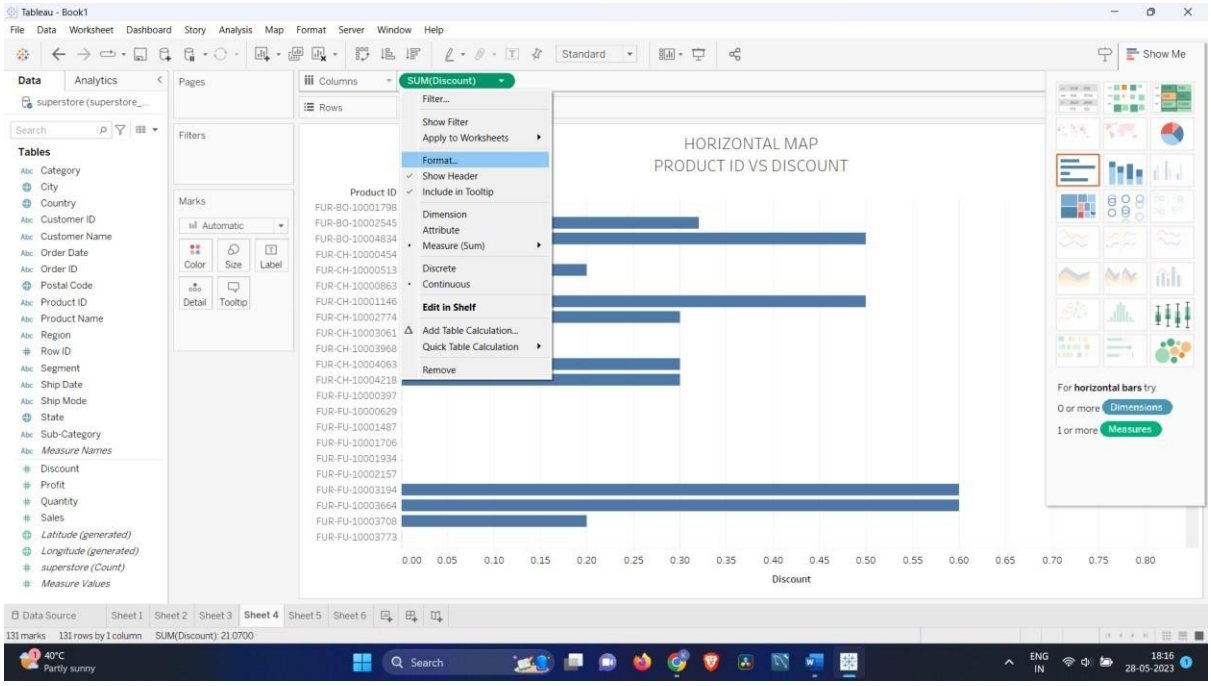


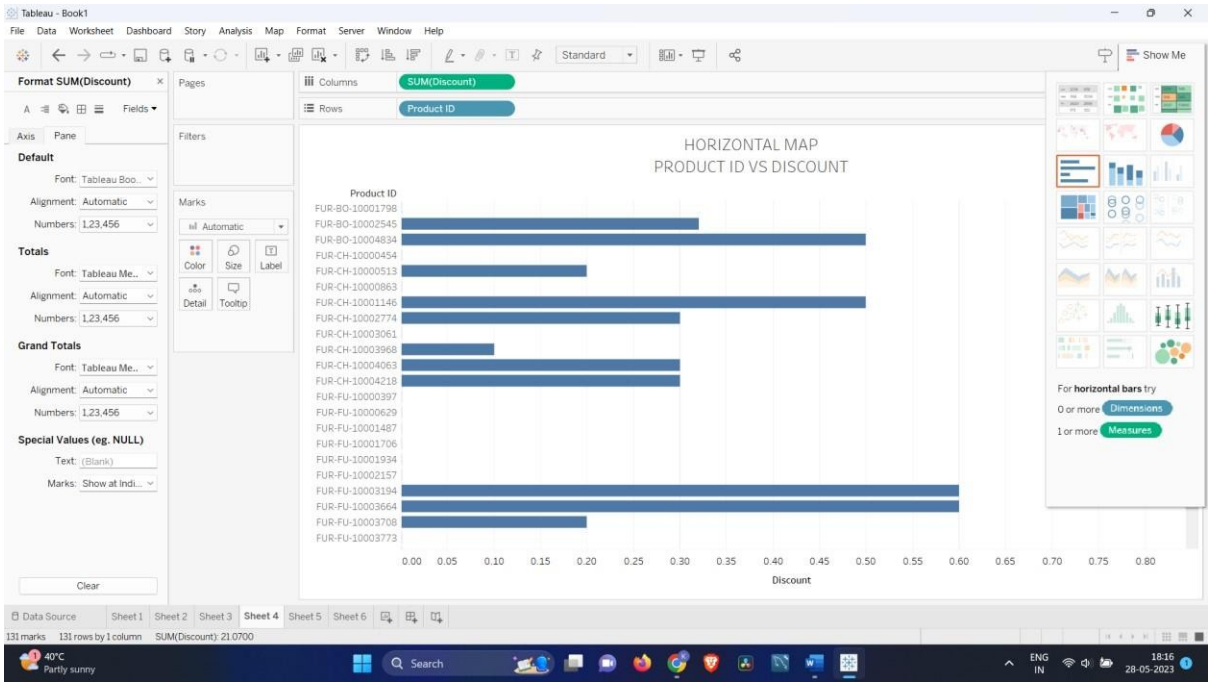
CIRCLE VIEWS:

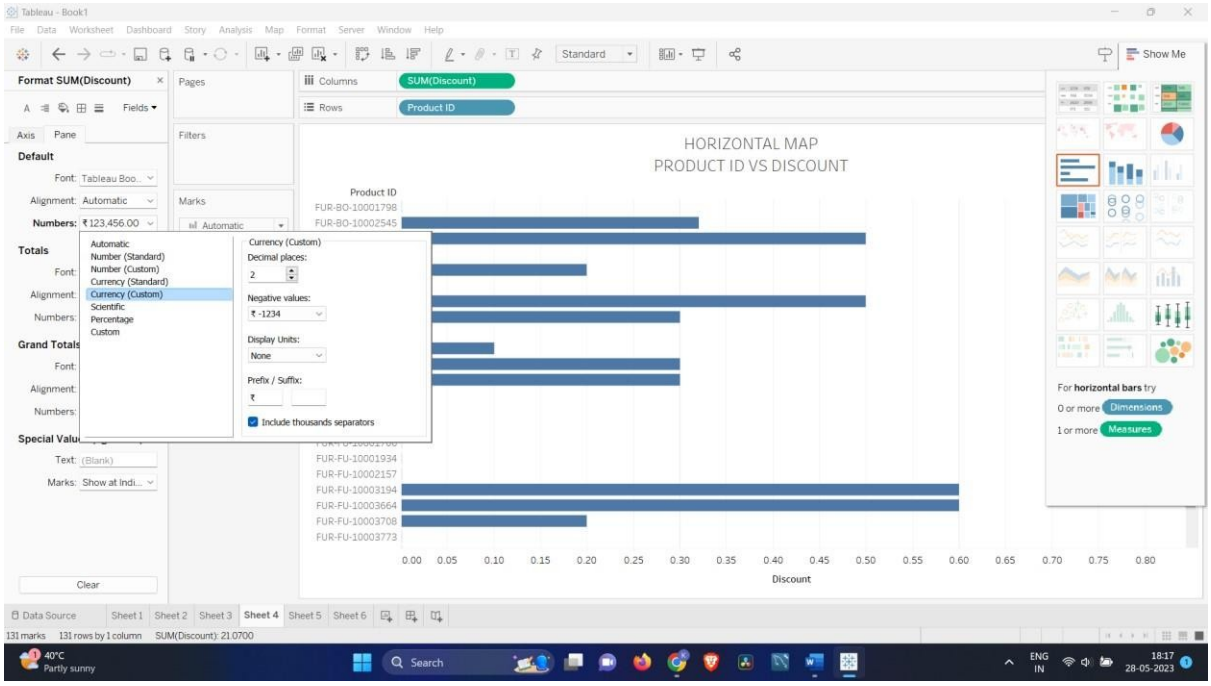


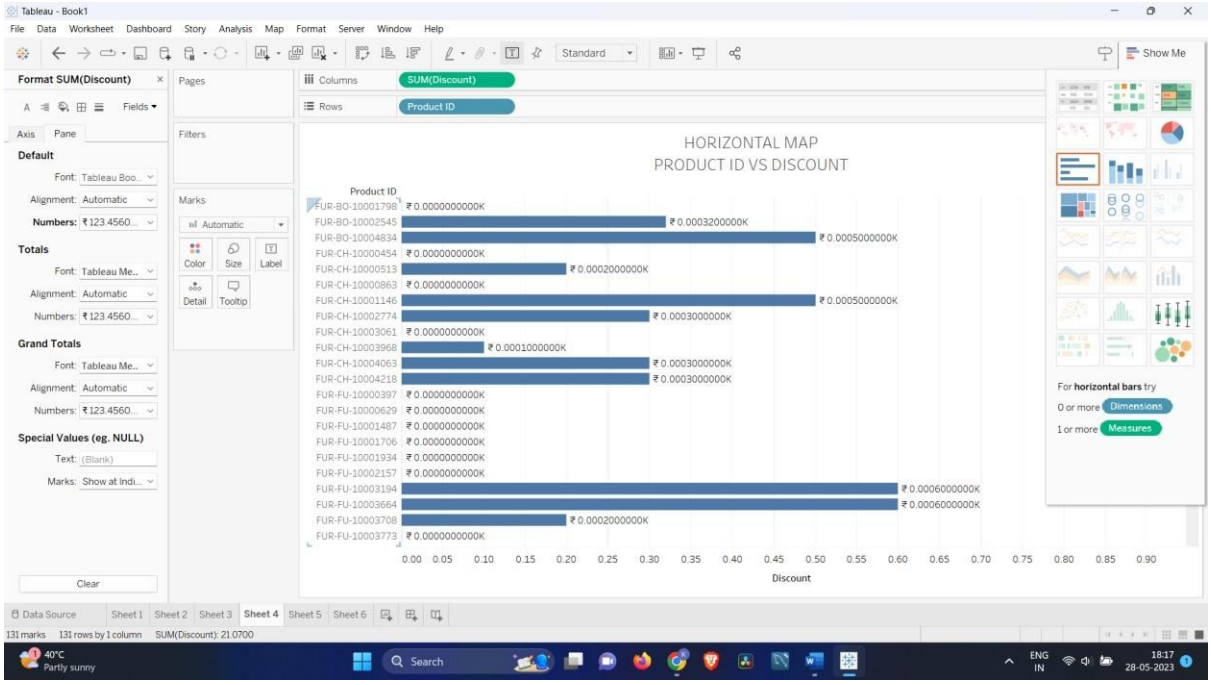
2) Apply dimension filter, context and measure filter on any of the three Visualizations.

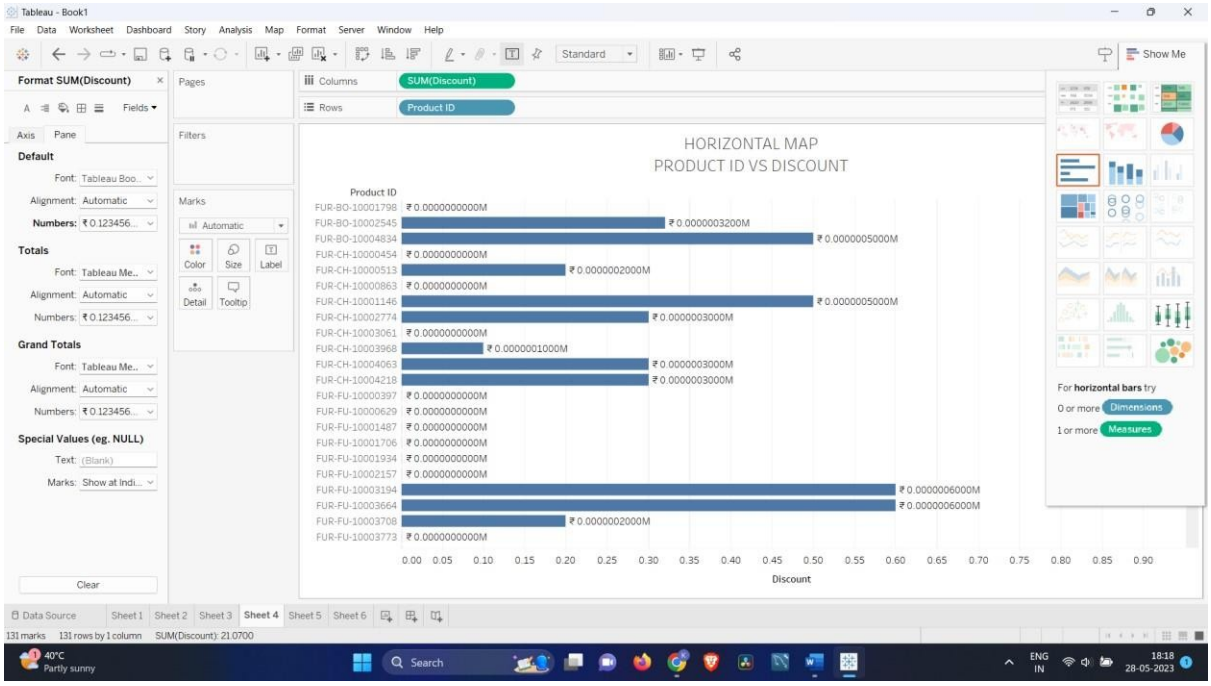
Dimension filter



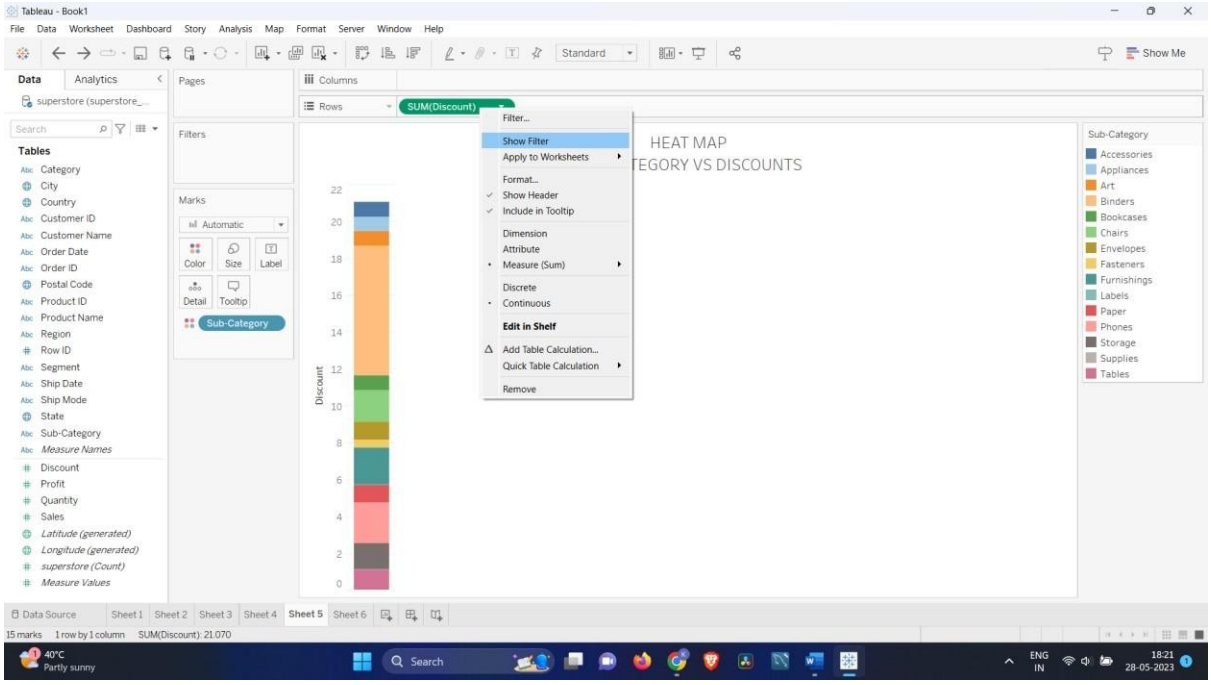



HORIZONTAL MAP
PRODUCT ID VS DISCOUNT
Product ID
Discount
Format SUM(Discount)
Columns
SUM(Discount)
Rows
Product ID
Show Me


HORIZONTAL MAP
PRODUCT ID VS DISCOUNT
Product ID
Discount
Format SUM(Discount)
Columns
SUM(Discount)
Rows
Product ID
Show Me



context filter



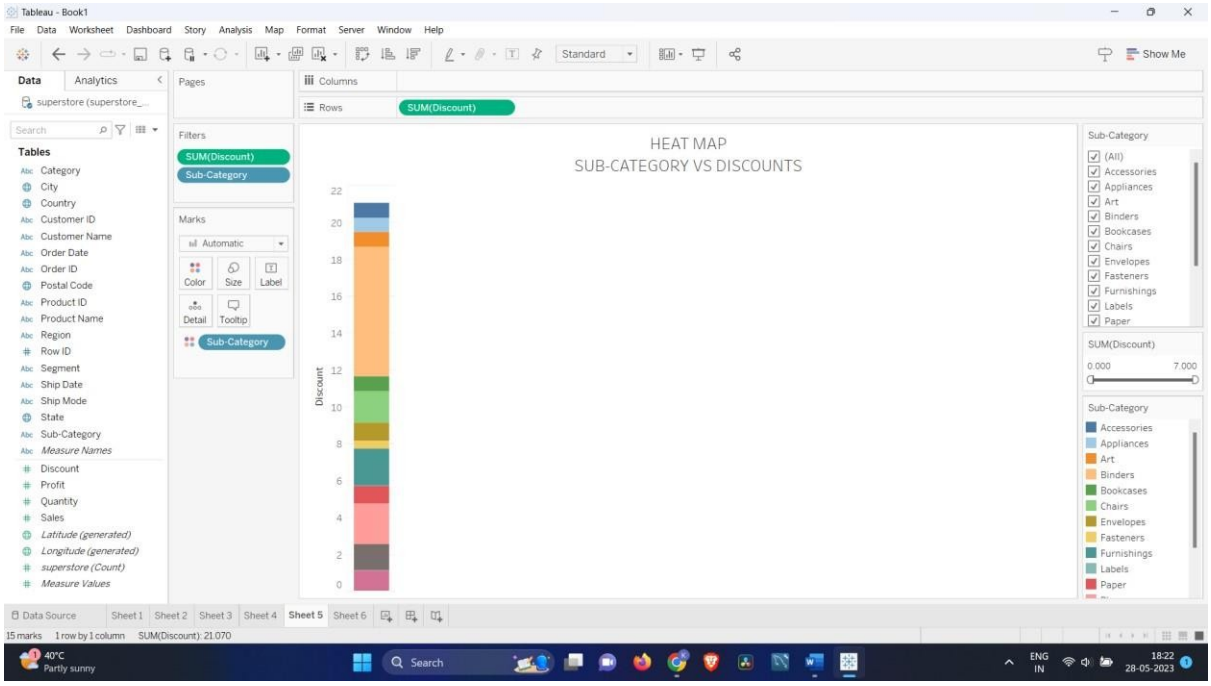


Tableau - Book1
HEAT MAP
SUB-CATEGORY VS DISCOUNTS
Discount
Sub-Category
Accessories
Appliances
Art
Binders
Bookcases
Chairs
Envelopes
Fasteners
Furnishings
Labels
Paper

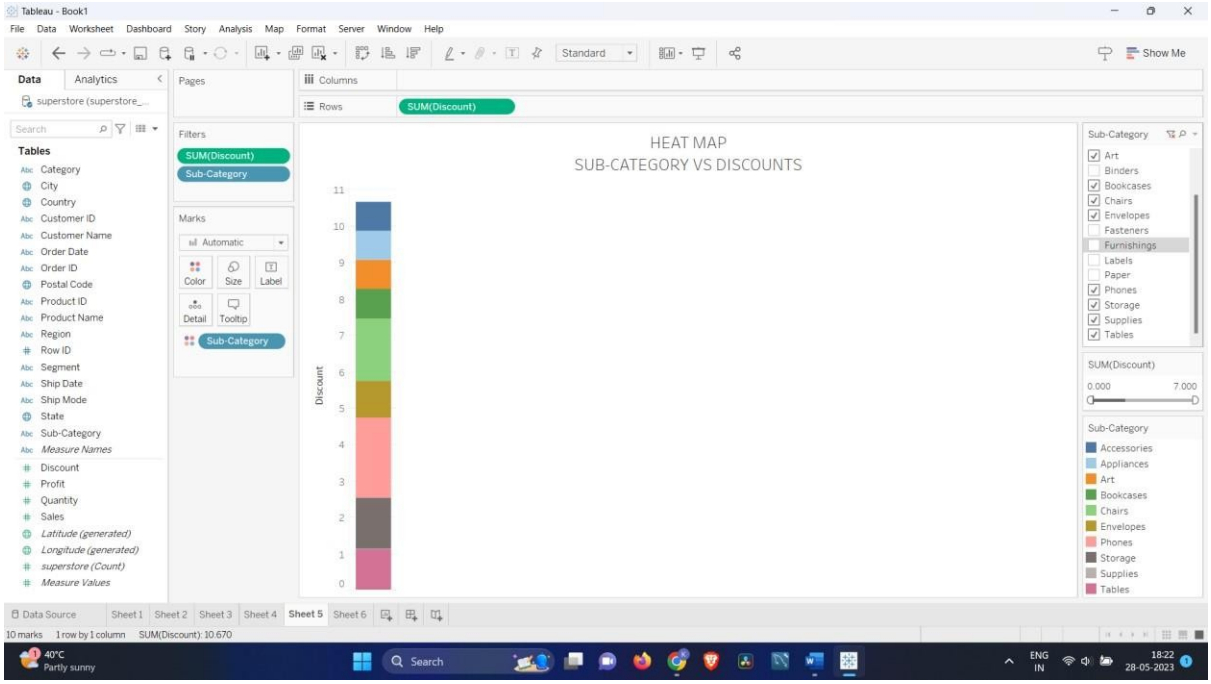
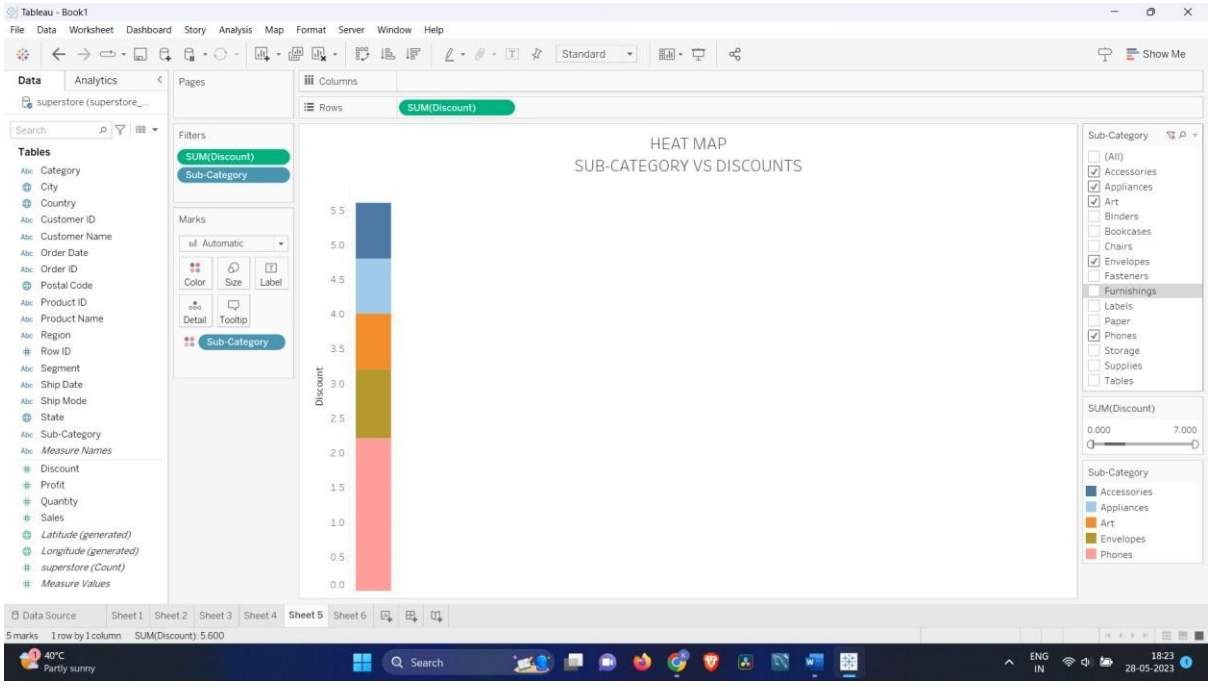
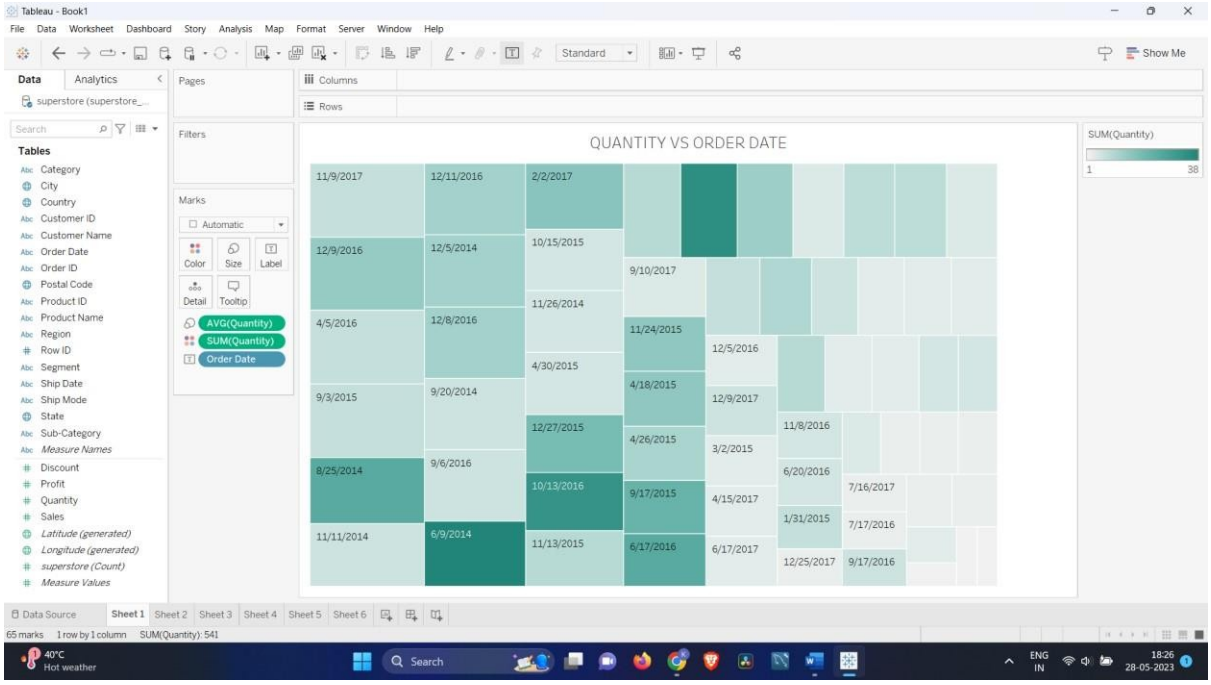


Tableau - Book1
HEAT MAP
SUB-CATEGORY VS DISCOUNTS
Discount
Sub-Category
Accessories
Appliances
Art
Bookcases
Chairs
Envelopes
Phones
Storage
Supplies
Tables



measure filter



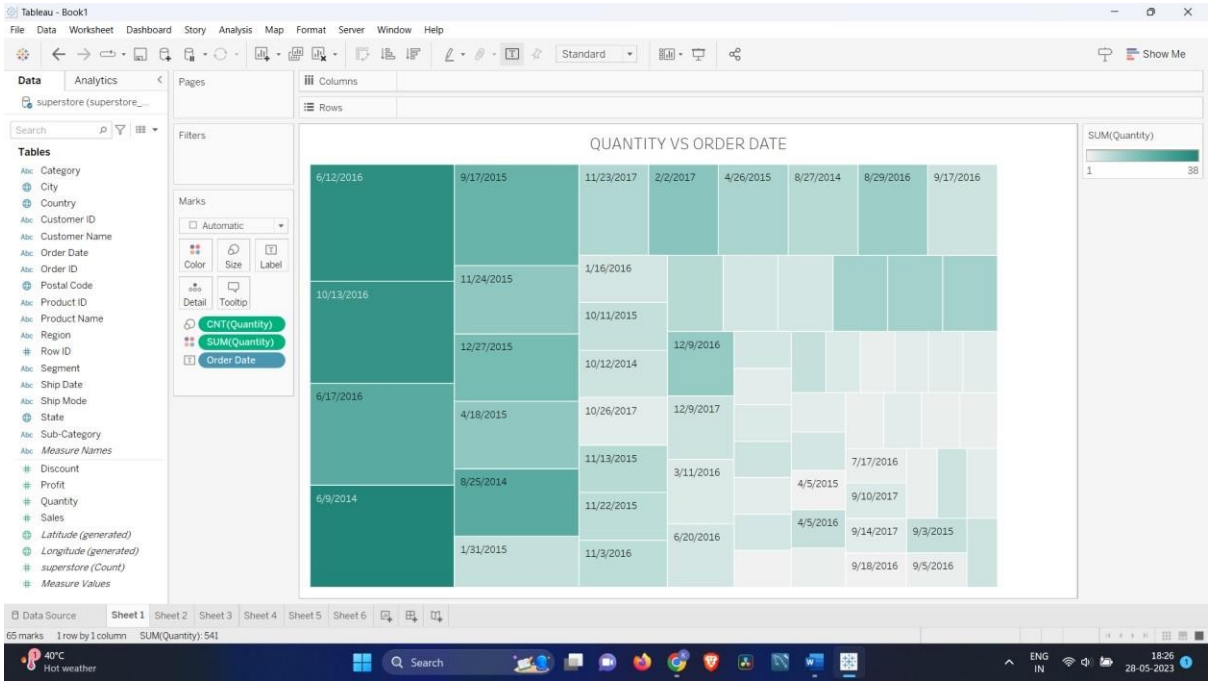


Tableau - Book1
QUANTITY VS ORDER DATE
6/12/2016
9/17/2015
11/23/2017
2/2/2017
4/26/2015
8/27/2014
8/29/2016
9/17/2016
10/13/2016
11/24/2015
1/16/2016
12/27/2015
10/11/2015
12/9/2016
6/17/2016
4/18/2015
10/12/2014
10/26/2017
12/9/2017
11/13/2015
3/11/2016
7/17/2016
8/25/2014
4/5/2015
9/10/2017
6/9/2014
11/22/2015
4/5/2016
9/14/2017
9/3/2015
1/31/2015
11/3/2016
6/20/2016
9/18/2016
9/5/2016
SUM(Quantity)
1
38

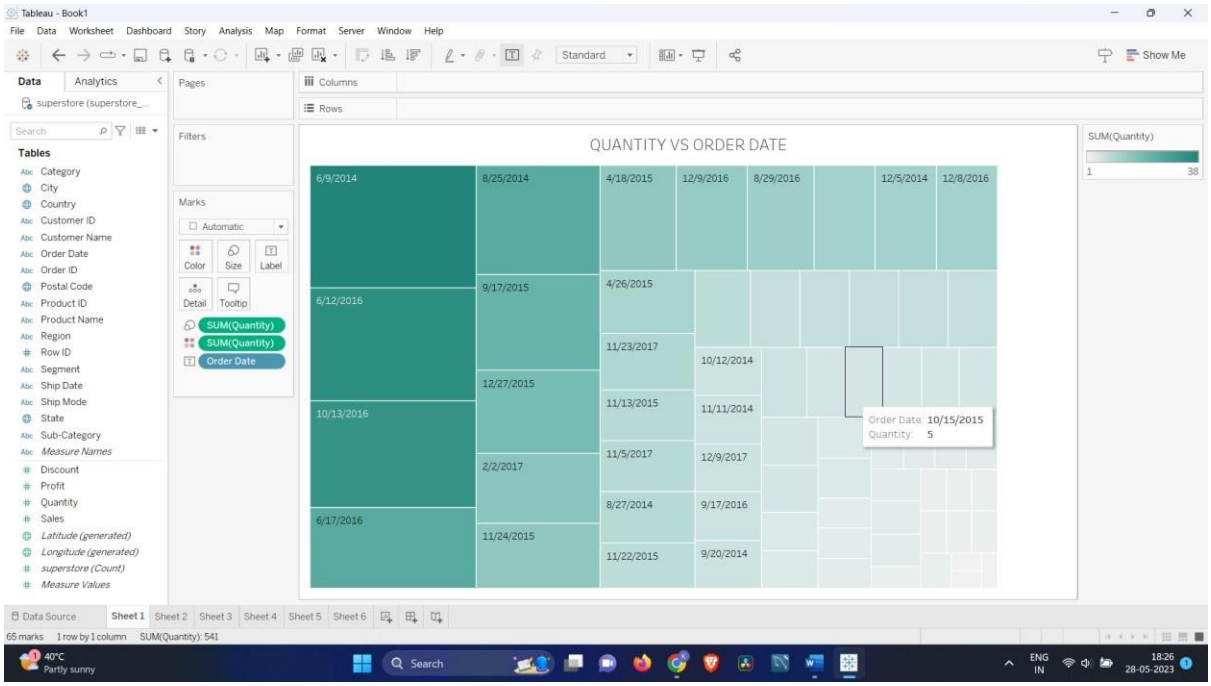
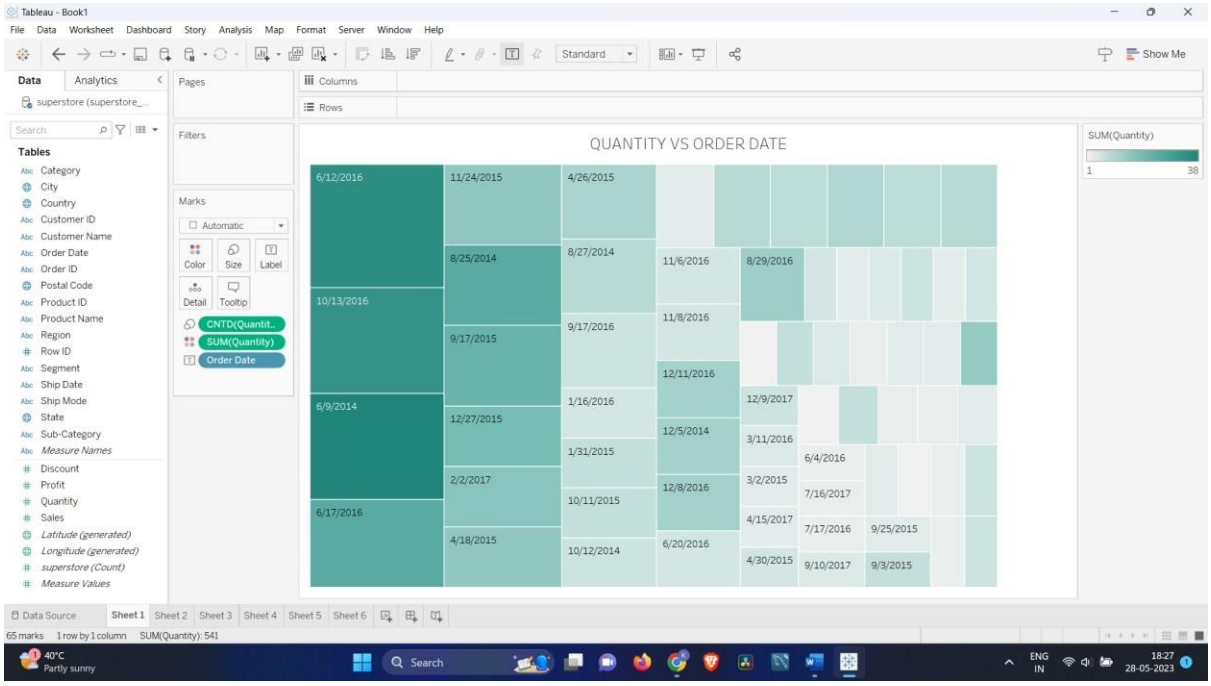


Tableau - Book1
QUANTITY VS ORDER DATE
6/9/2014
8/25/2014
4/18/2015
12/9/2016
8/29/2016
12/5/2014
12/8/2016
6/12/2016
9/17/2015
4/26/2015
11/23/2017
10/12/2014
10/13/2016
12/27/2015
11/13/2015
11/11/2014
Order Date: 10/15/2015
Quantity: 5
2/2/2017
11/5/2017
12/9/2017
6/17/2016
8/27/2014
9/17/2016
11/24/2015
11/22/2015
9/20/2014
SUM(Quantity)
1
38



3) Perform the following data manipulations on your dataset

- **create a Hierarchy**
- **create a set**
- **create a group**

<u>Create hierarchy:</u>

I have created a location hierarchy and it consists of country, state, city and postal code as shown below and displayed the bar graph of quantity based on location hierarchy:

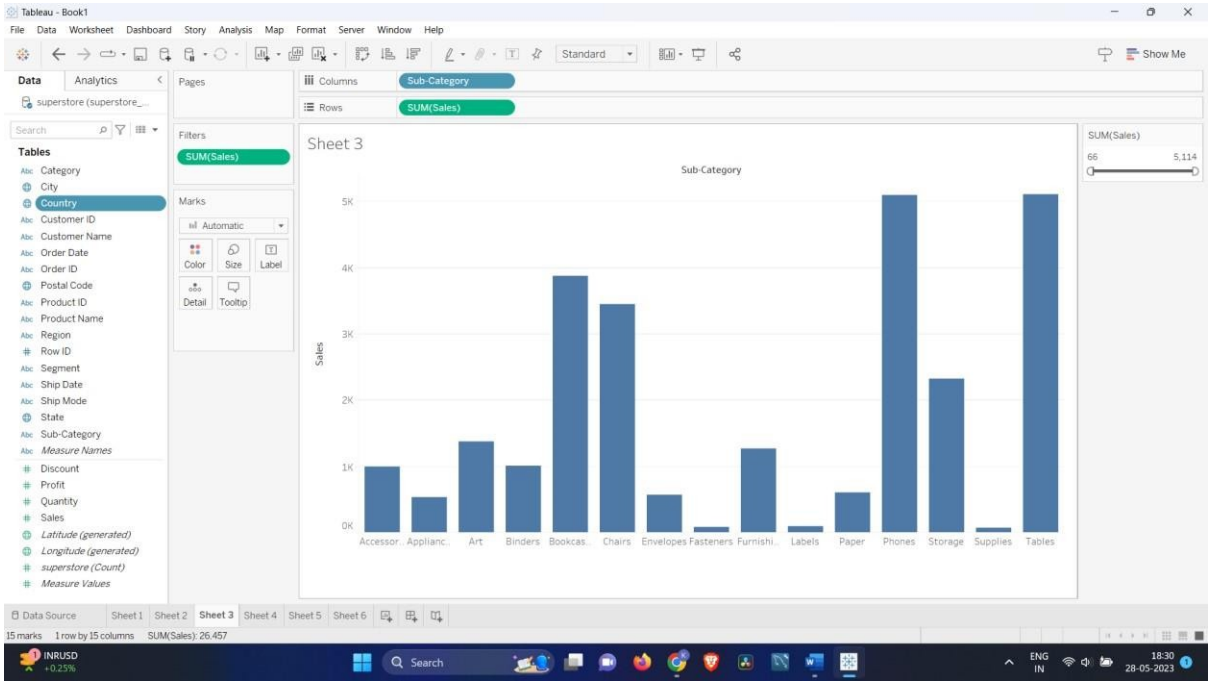


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Pages
Columns
Sub-Category
Rows
SUM(Sales)
Filters
SUM(Sales)
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Tables
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
superstore (Count)
Measure Values
Sheet 3
Sub-Category
Sales
0K
1K
2K
3K
4K
5K
Accessor..
Applianc..
Art
Binders
Bookcas..
Chairs
Envelopes
Fasteners
Furnishi..
Labels
Paper
Phones
Storage
Supplies
Tables
SUM(Sales)
66
5,114
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
15 marks
1 row by 15 columns
SUM(Sales): 26,457
INRUSD
+0.25%
Search
ENG
IN
18:30
28-05-2023

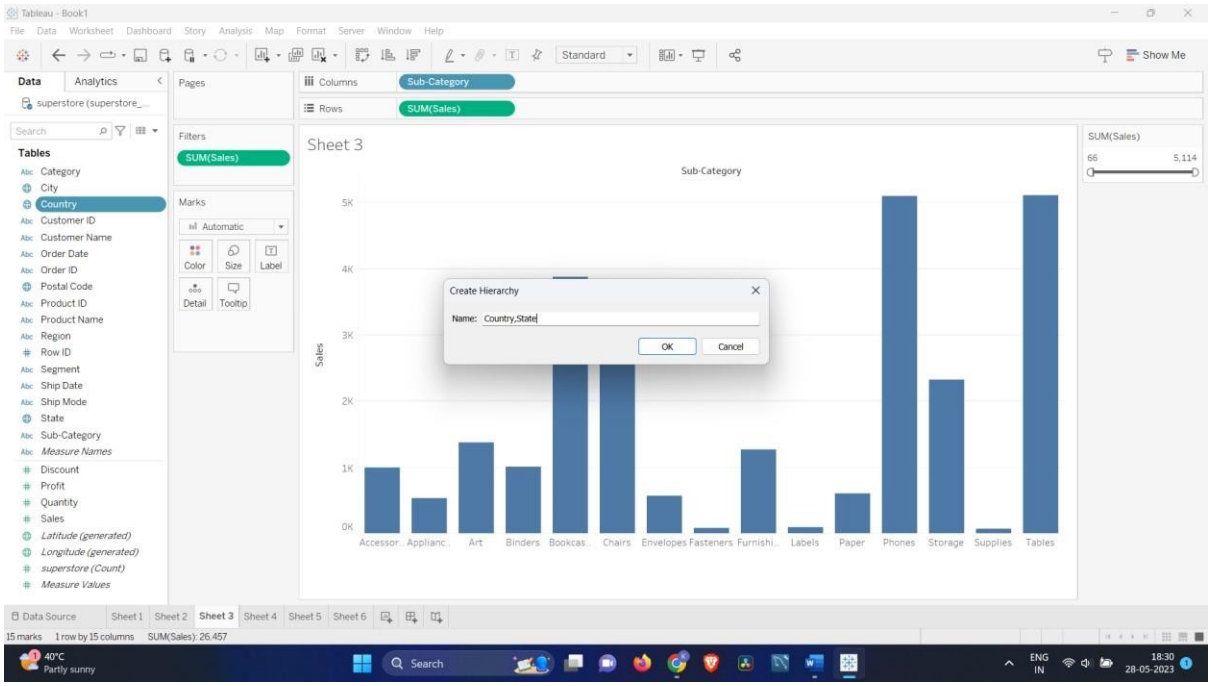


Tableau - Book1
Create Hierarchy
Name: Country,State
OK
Cancel
Sheet 3
Sub-Category
Sales
40°C
Partly sunny
Search
ENG
IN
18:30
28-05-2023

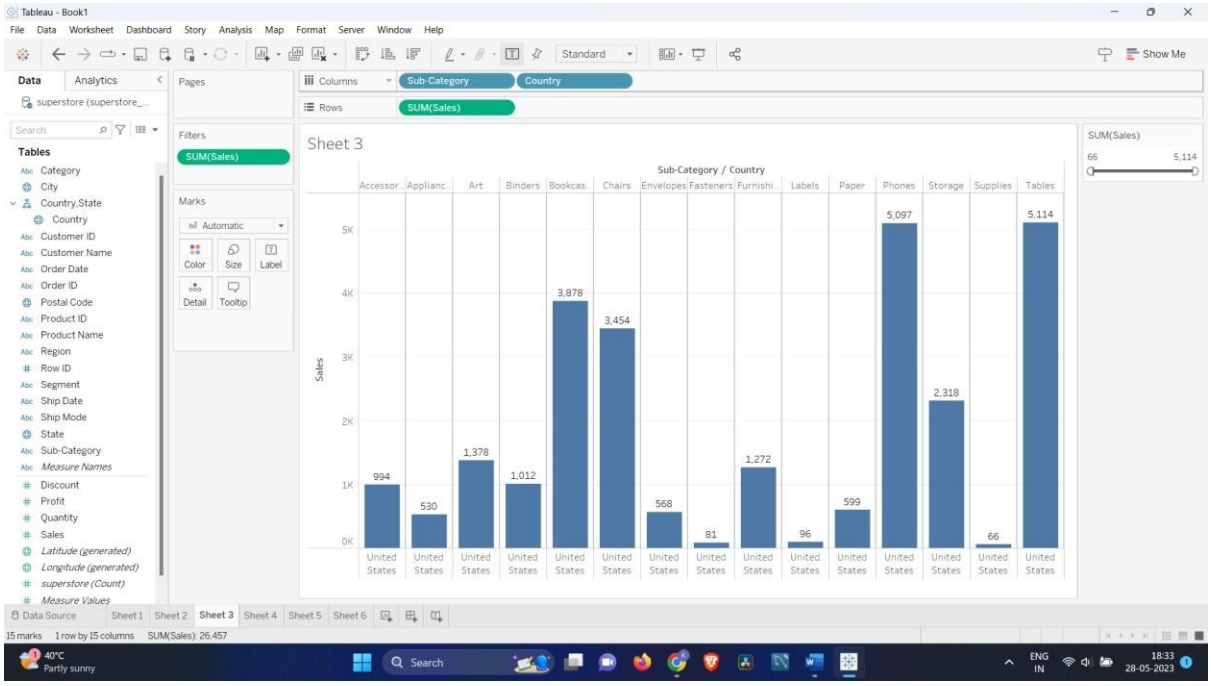


Tableau - Book1
Sheet 3
Sub-Category / Country
Sales
994
530
1,378
1,012
3,878
3,454
568
81
1,272
96
599
5,097
2,318
66
5,114

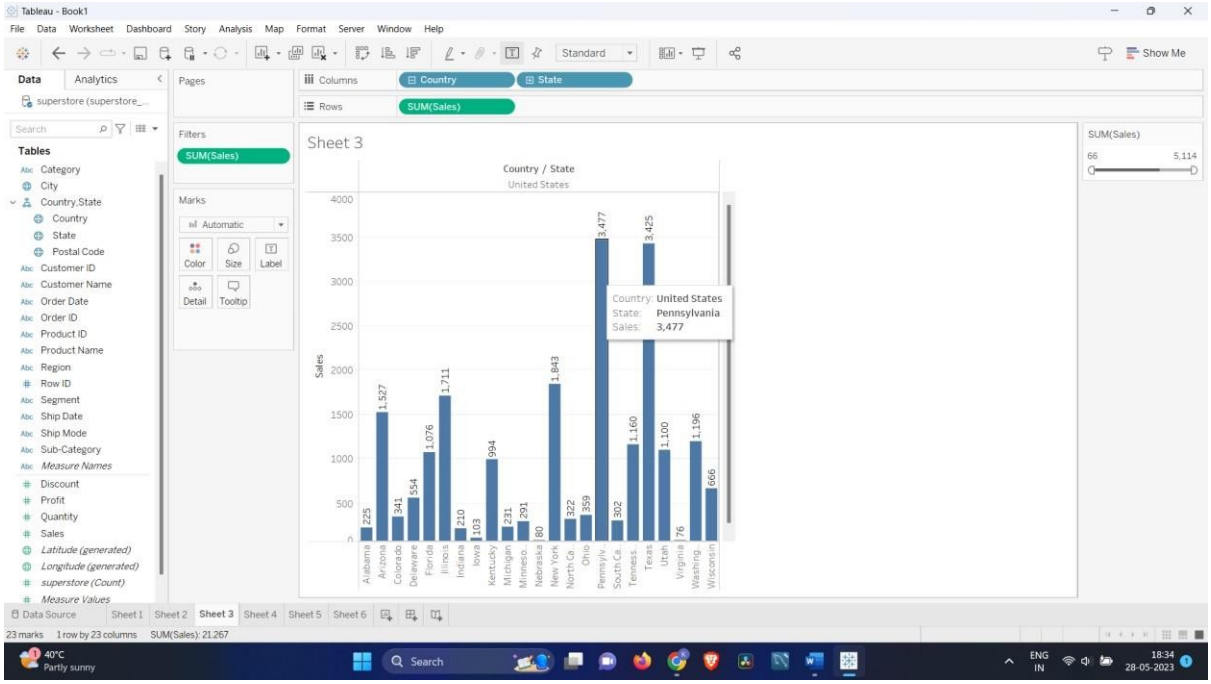
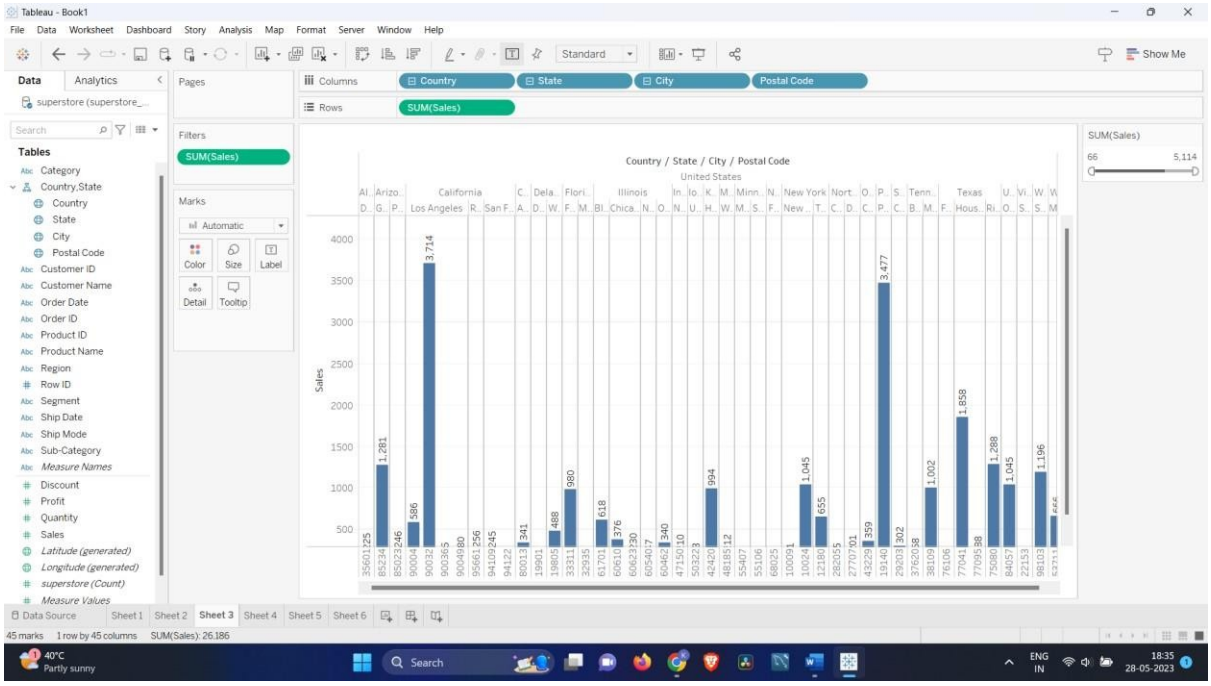
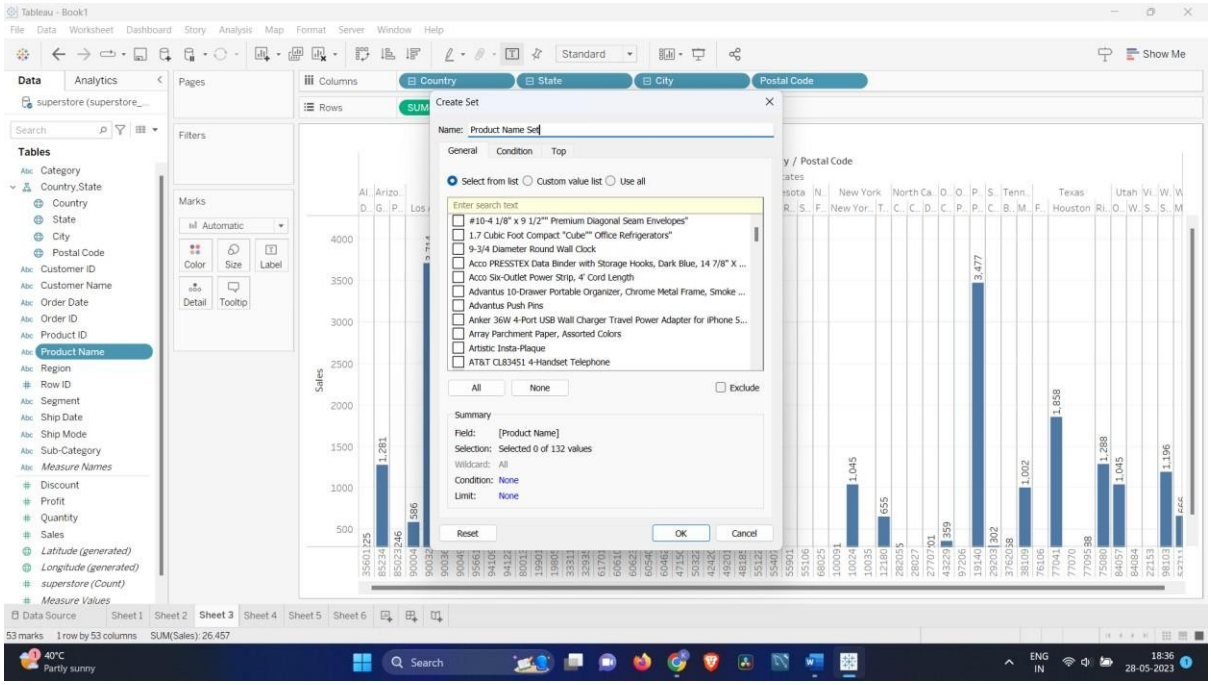


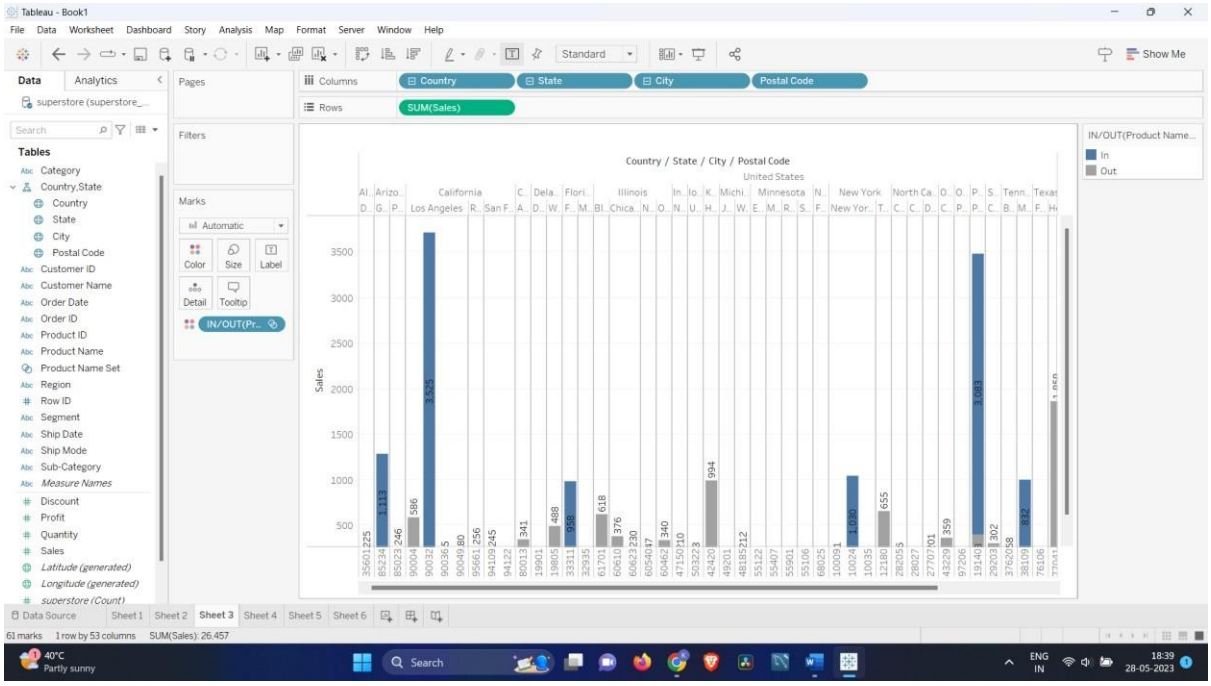
Tableau - Book1
Sheet 3
Country / State
United States
Country: United States
State: Pennsylvania
Sales: 3,477
Sales



Create a set:

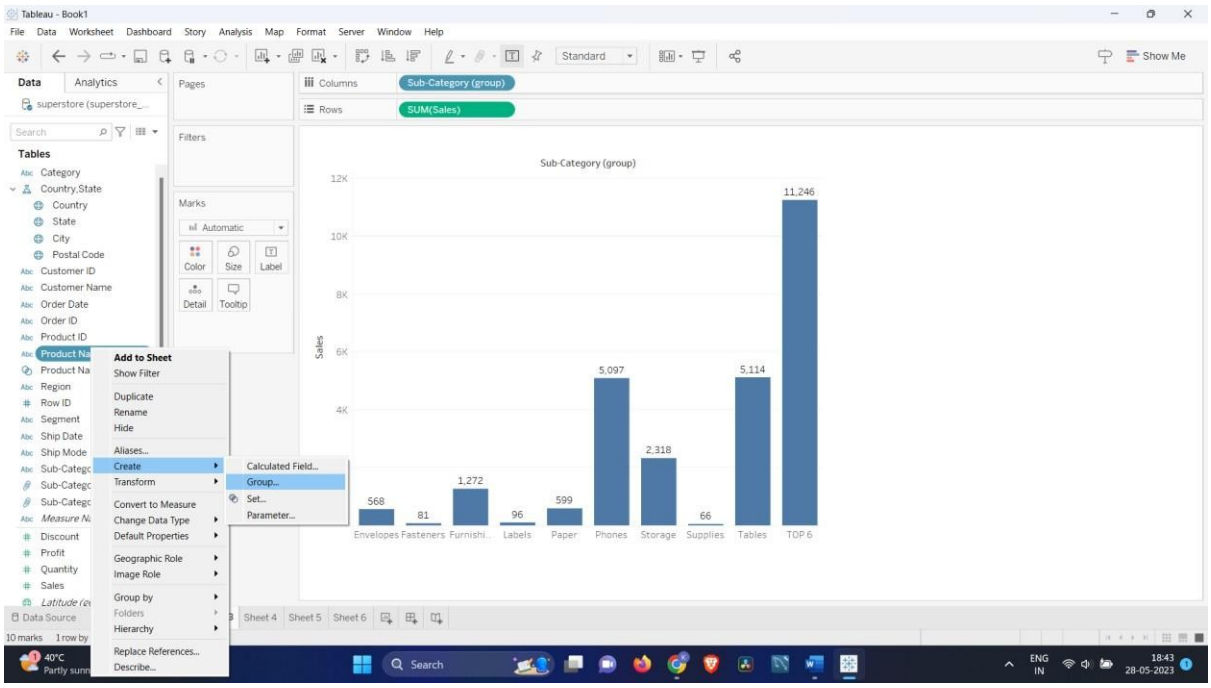
I have created a set of IN/OUT of product_name_set as shown below:





Create a group:

I have created a group of 6 sub categories as shown below



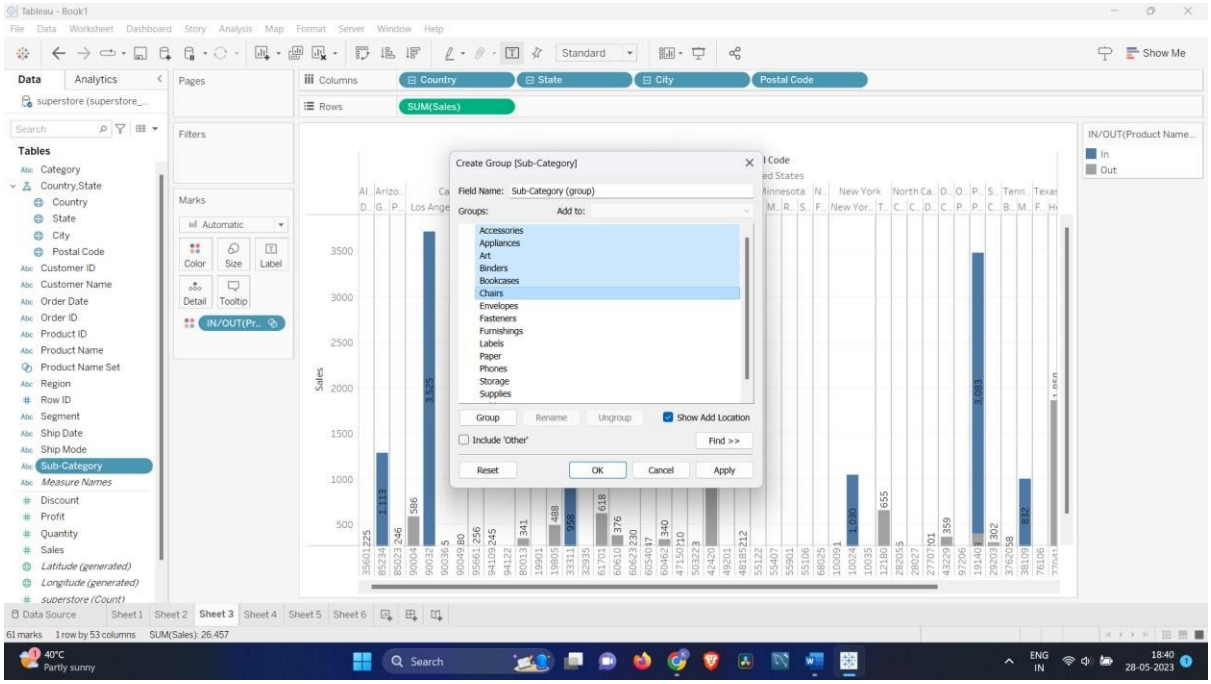


Tableau - Book1
Create Group [Sub-Category]
Field Name: Sub-Category (group)
Groups:
Add to:
Accessories
Appliances
Art
Binders
Bookcases
Chairs
Envelopes
Fasteners
Furnishings
Labels
Paper
Phones
Storage
Supplies
Group
Rename
Ungroup
Show Add Location
Include 'Other'
Find >>
Reset
OK
Cancel
Apply
Columns
Country
State
City
Postal Code
Rows
SUM(Sales)
Sheet 3
61 marks
1 row by 53 columns
SUM(Sales): 26,457

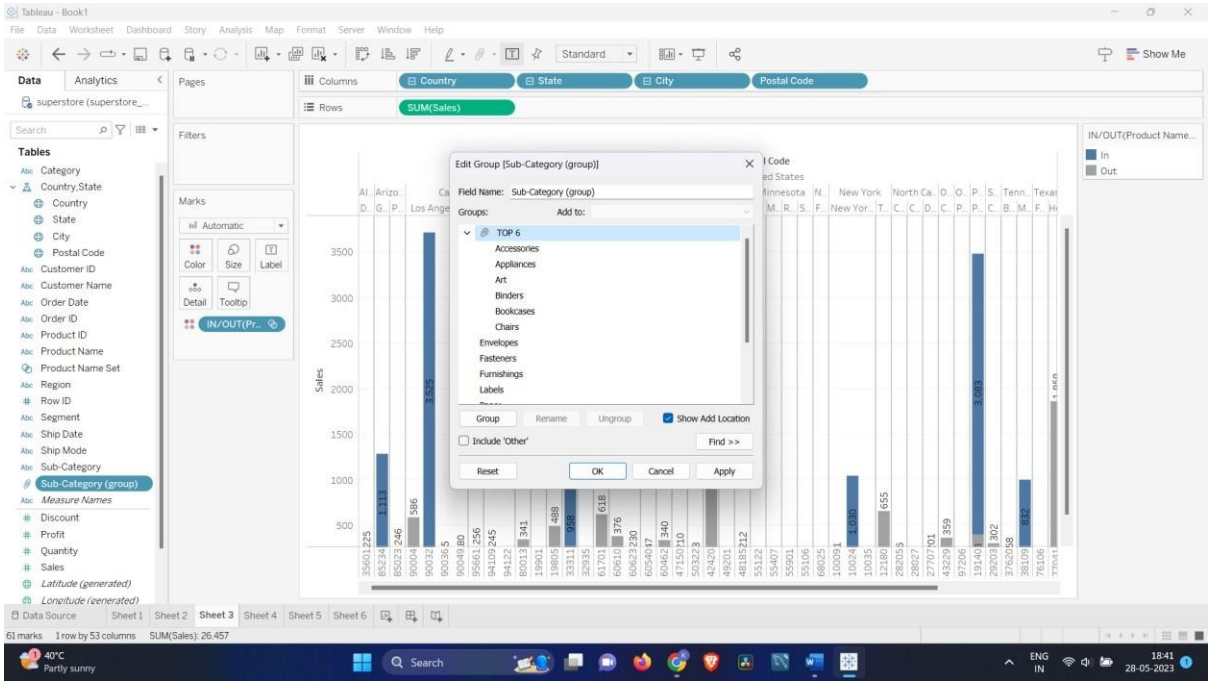


Tableau - Book1
Edit Group [Sub-Category (group)]
Field Name: Sub-Category (group)
Groups:
Add to:
TOP 6
Accessories
Appliances
Art
Binders
Bookcases
Chairs
Envelopes
Fasteners
Furnishings
Labels
Group
Rename
Ungroup
Show Add Location
Include 'Other'
Find >>
Reset
OK
Cancel
Apply
Columns
Country
State
City
Postal Code
Rows
SUM(Sales)
Sheet 3
61 marks
1 row by 53 columns
SUM(Sales): 26,457

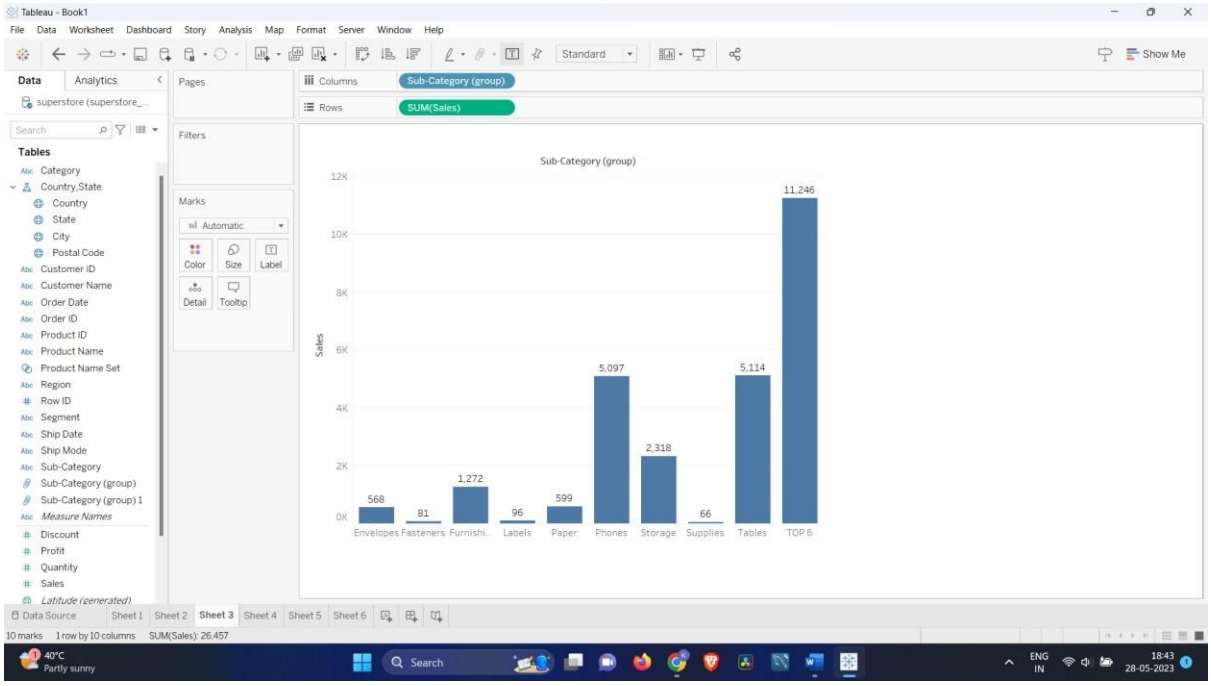


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
superstore (superstore_...
Search
Tables
Category
Country,State
Country
State
City
Postal Code
Customer ID
Customer Name
Order Date
Order ID
Product ID
Product Name
Product Name Set
Region
Row ID
Segment
Ship Date
Ship Mode
Sub-Category
Sub-Category (group)
Sub-Category (group) 1
Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Columns
Sub-Category (group)
Rows
SUM(Sales)
Sub-Category (group)
Sales
12K
10K
8K
6K
4K
2K
0K
568
81
1,272
96
599
5,097
2,318
66
5,114
11,246
Envelopes
Fasteners
Furnishi...
Labels
Paper
Phones
Storage
Supplies
Tables
TOP 6
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
10 marks
1 row by 10 columns
SUM(Sales): 26,457
40°C
Partly sunny
Search
ENG
IN
18:43
28-05-2023