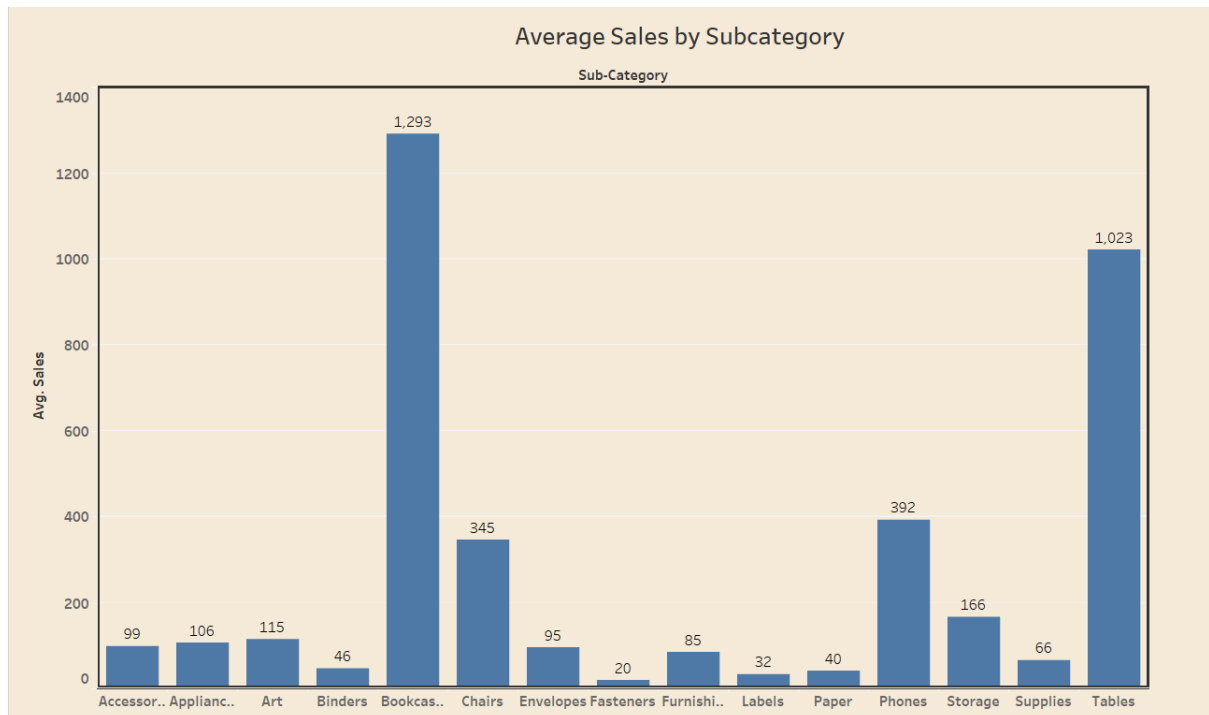# DATA ANALYTICS
ASSIGNMENT 2
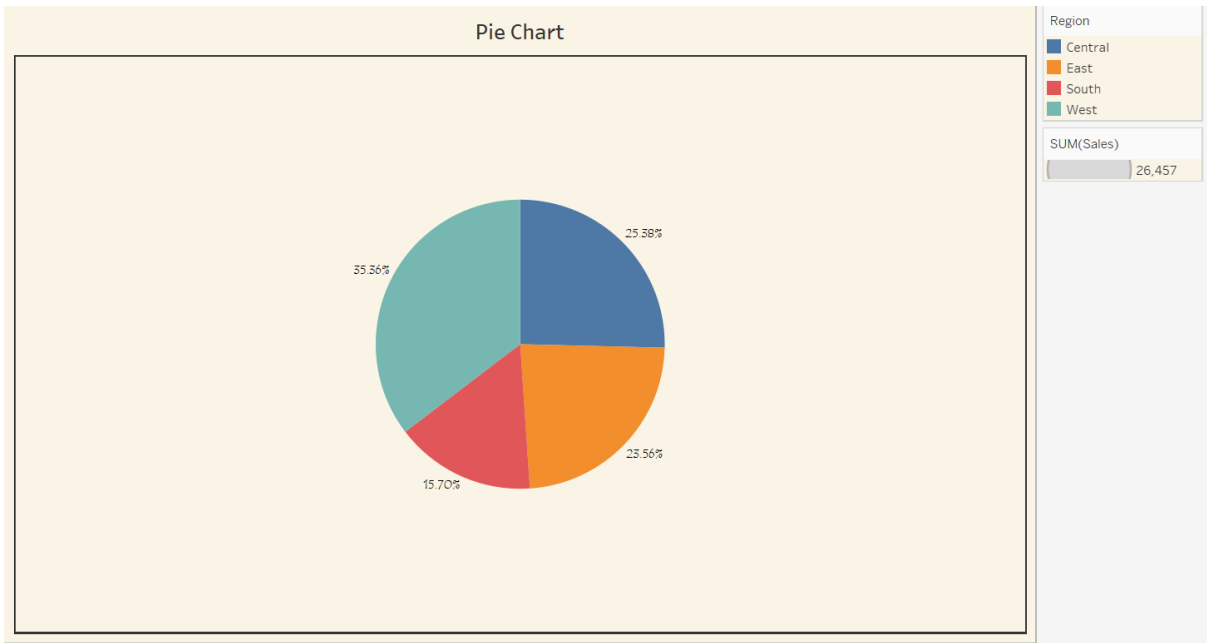
SWATHI BAIJU

20BCE0749

1) Create any 7 data visualisations/charts and perform the following
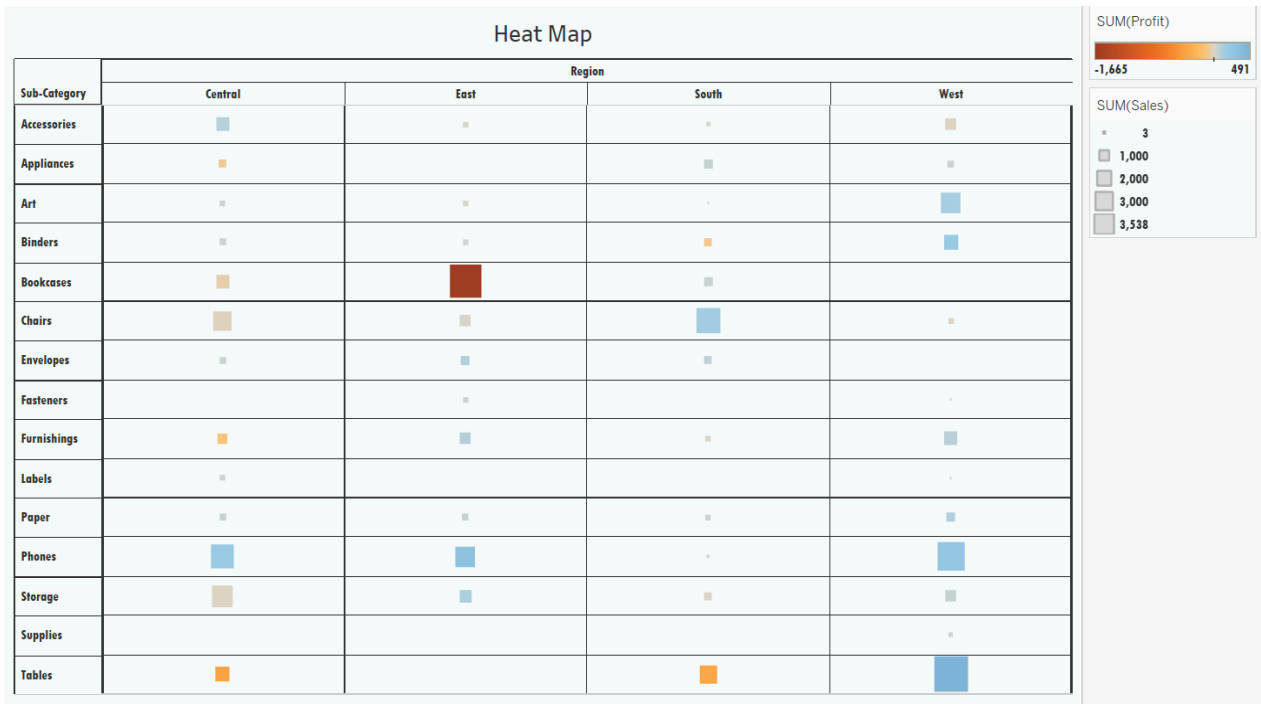
BAR CHART :
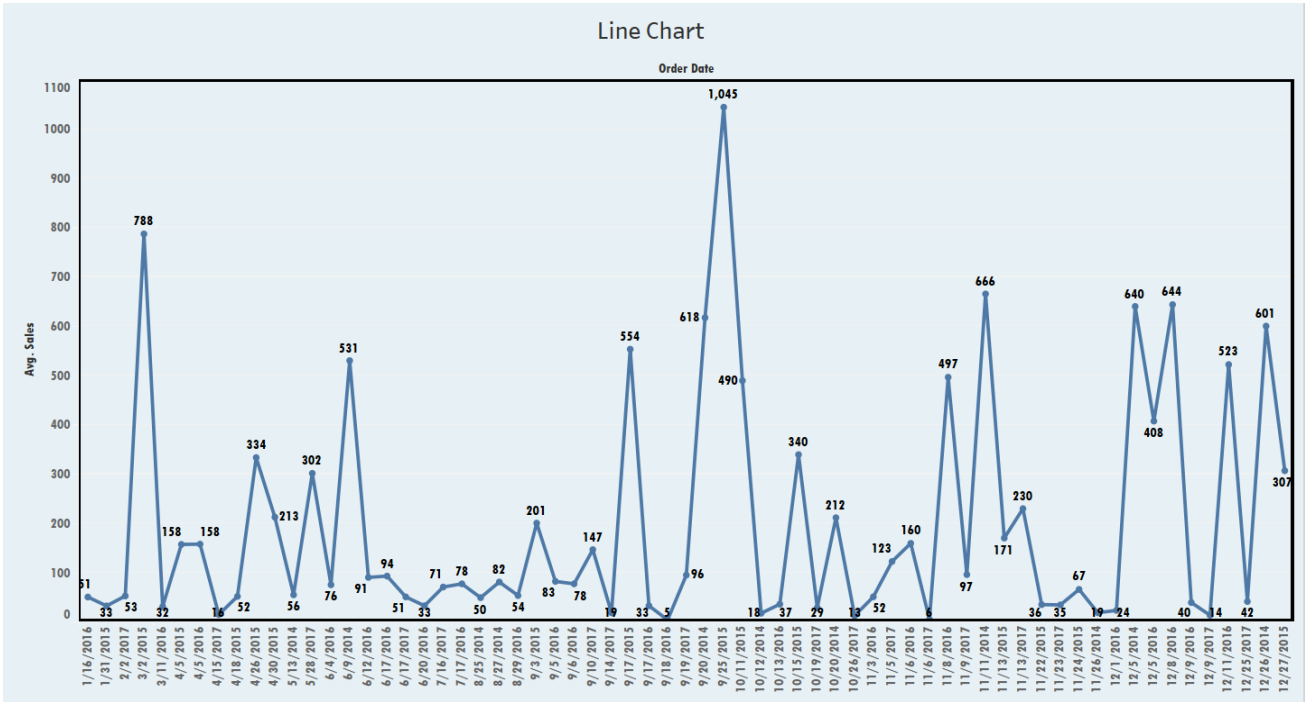

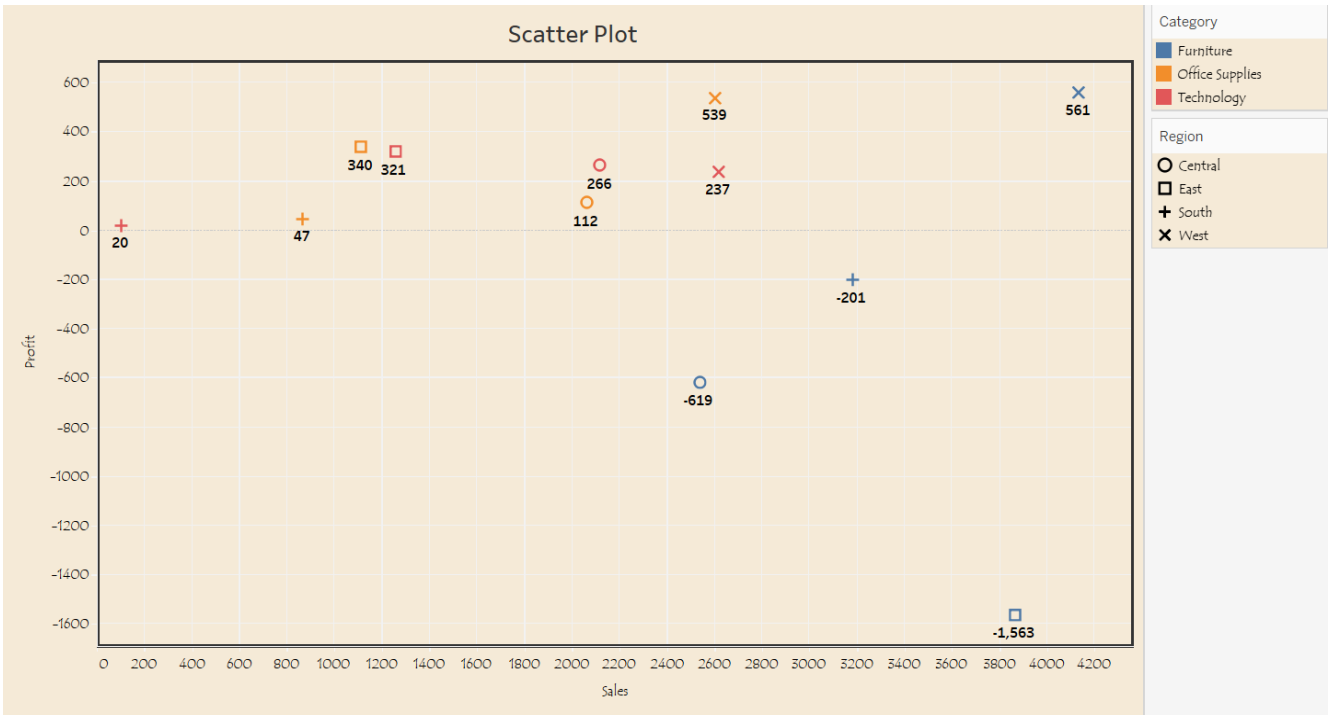Average Sales by Subcategory

PIE CHART :

HEAT MAP :

LINE CHART :

SCATTER PLOT :

BOX-AND-WHISKER PLOT :

SYMBOL MAP :
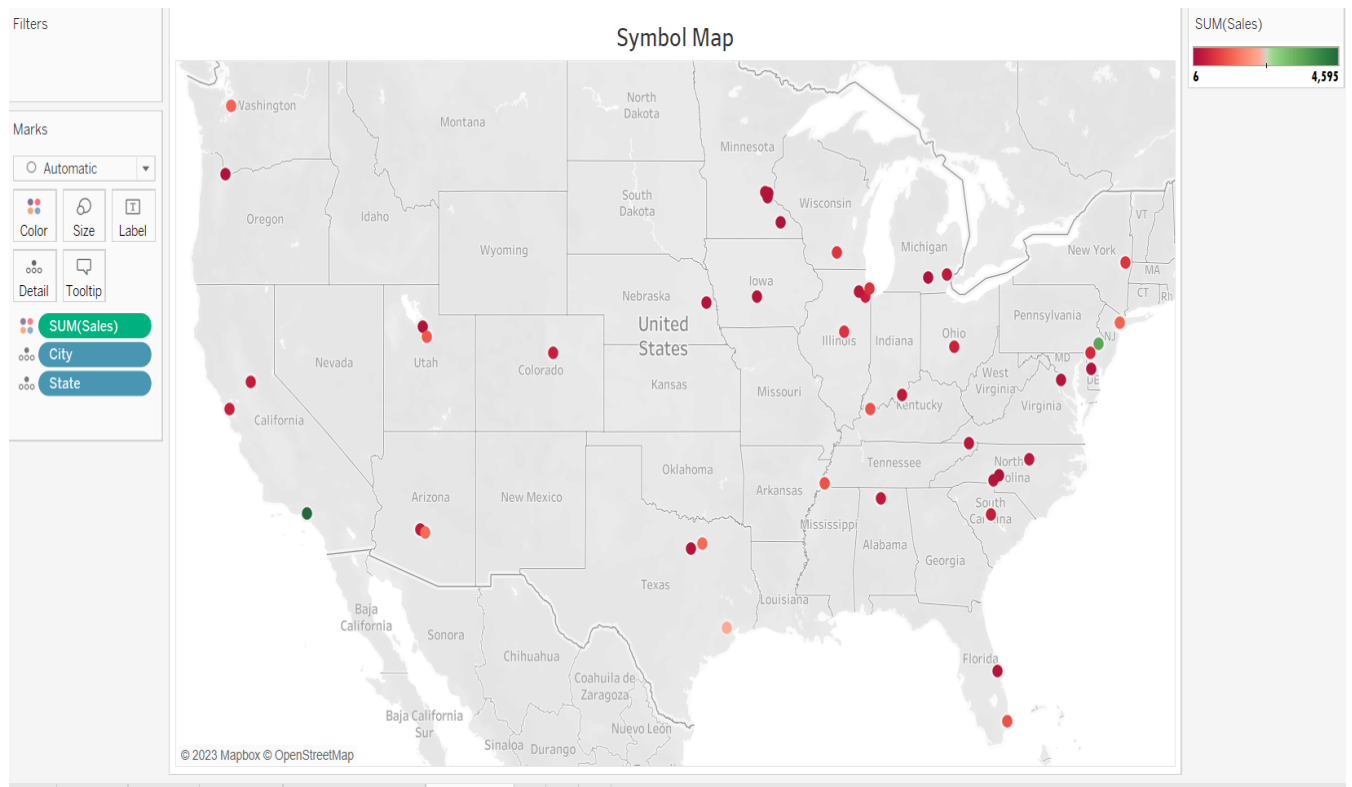
2) Apply dimension filter, context and measure filter on any of the three Visualisations

Dimension Filter :

Here the dimension Sub-Category is used for creating dimension filter .

Filter [Sub-Category]   ✕

| General | Wildcard | Condition | Top |

○ None

◉ By field:

| Sales | ∨ | Average | ∨ |

| > | ∨ | 250 |

Range of Values

Min: [   ]   [Load]

Max: [   ]

○ By formula:

[   ]

| Reset | | OK | Cancel | Apply |

After applying filter :
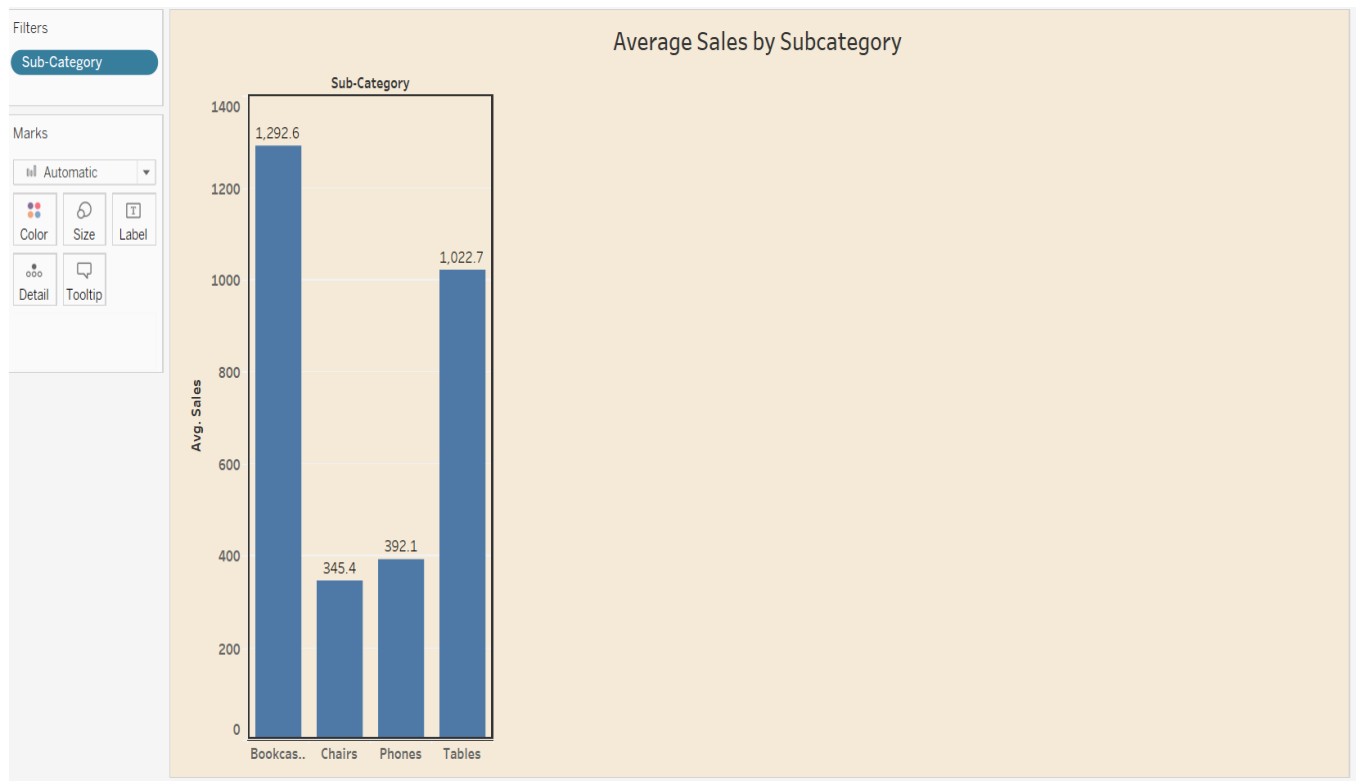
MEASURE FILTER :

Here the measure Sales is used to create measure filter .

Filter [Sales]   ✕

| Range of values | At least | At most | Special |

Range of values

| 500 | | 1,000 |

1.248   3083.43

Show: Only Relevant Values ⌄   ☐ Include Null Values

| Reset | | OK | Cancel | Apply |

After applying the filter :
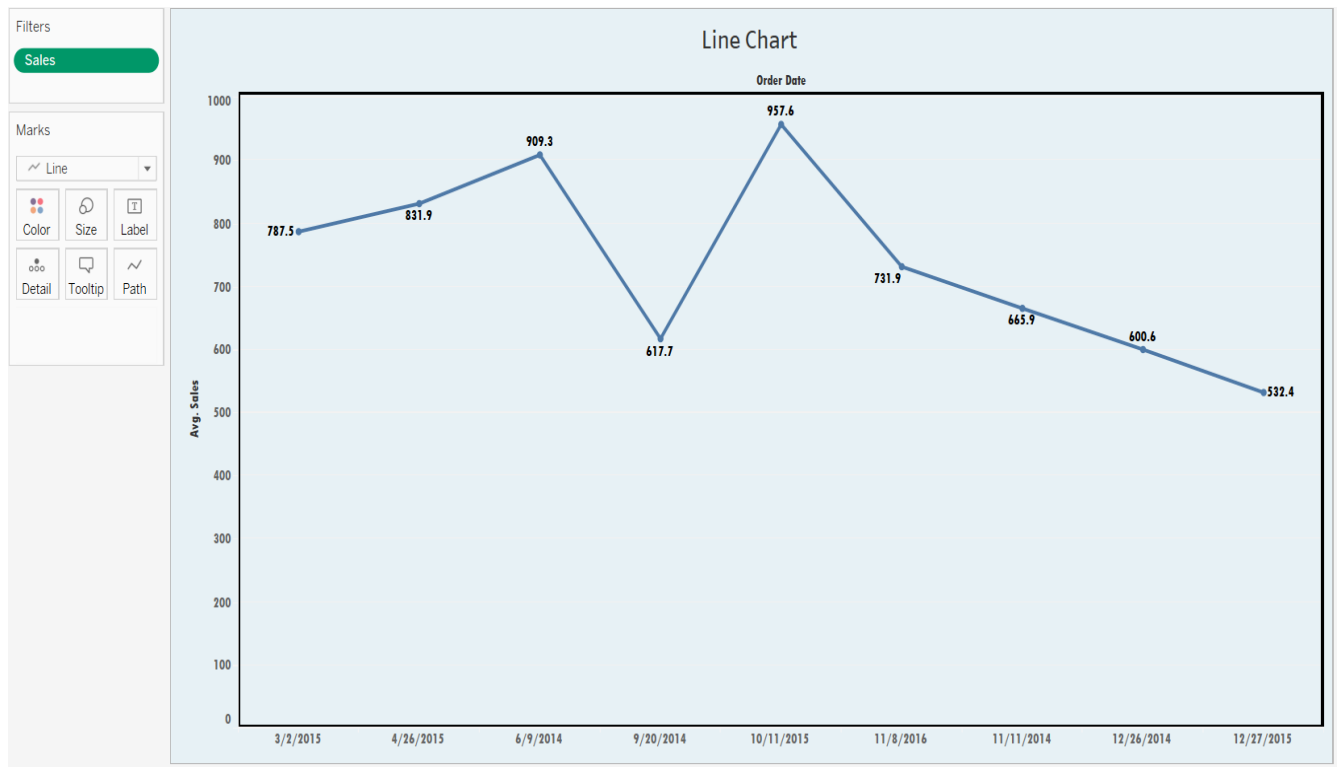
CONTEXT FILTER :

Here Sub-Category and Category are used to create context filter and category filter is added to context .

Filter [Sub-Category]   ✕

| General | Wildcard | Condition | Top |

○ None

⦿ By field:

| Top   ∨ | 10   ∨ | by |

| Sales   ∨ | Average   ∨ |

○ By formula:

| Top   ∨ | 10   ∨ | by |

| Reset | | OK | Cancel | Apply |

Filter [Category]   ✕

| 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

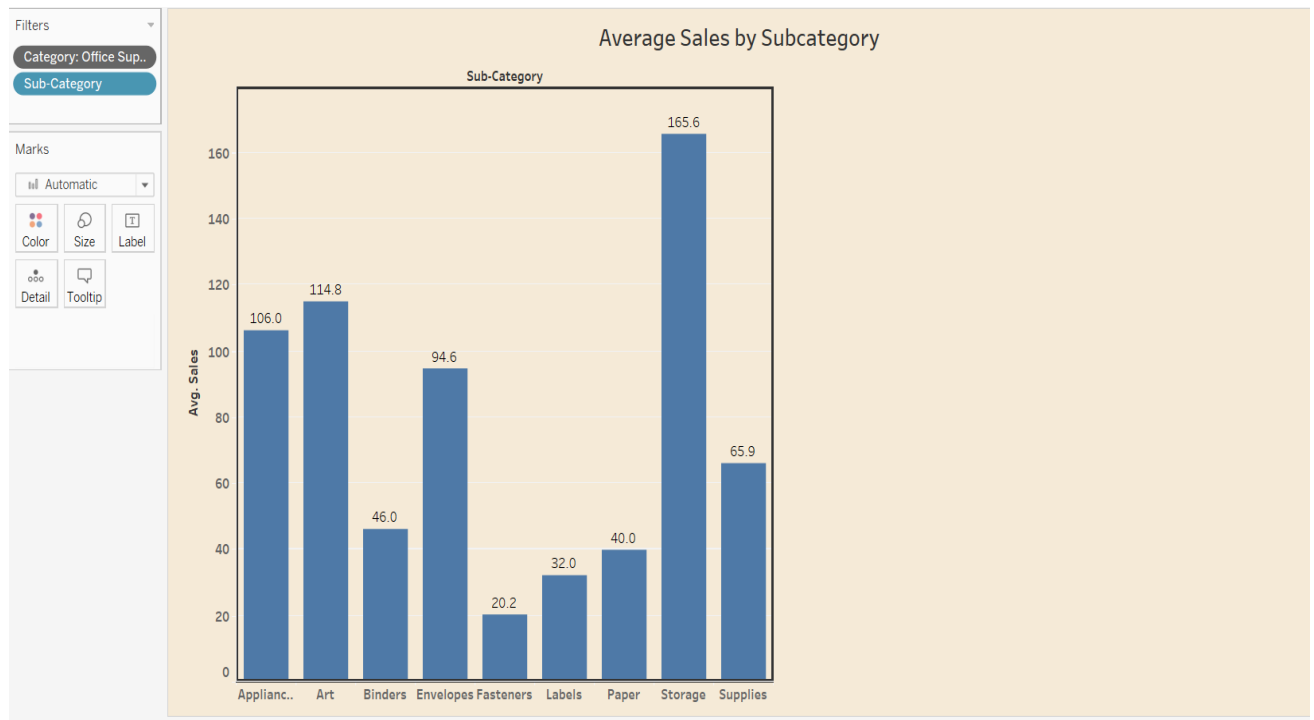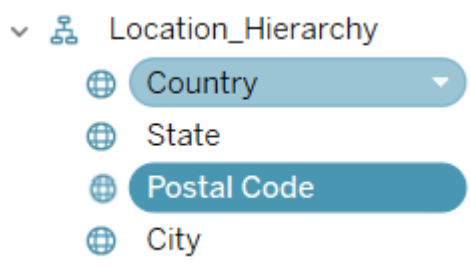| Reset | | OK | Cancel | Apply |

After applying the filter :

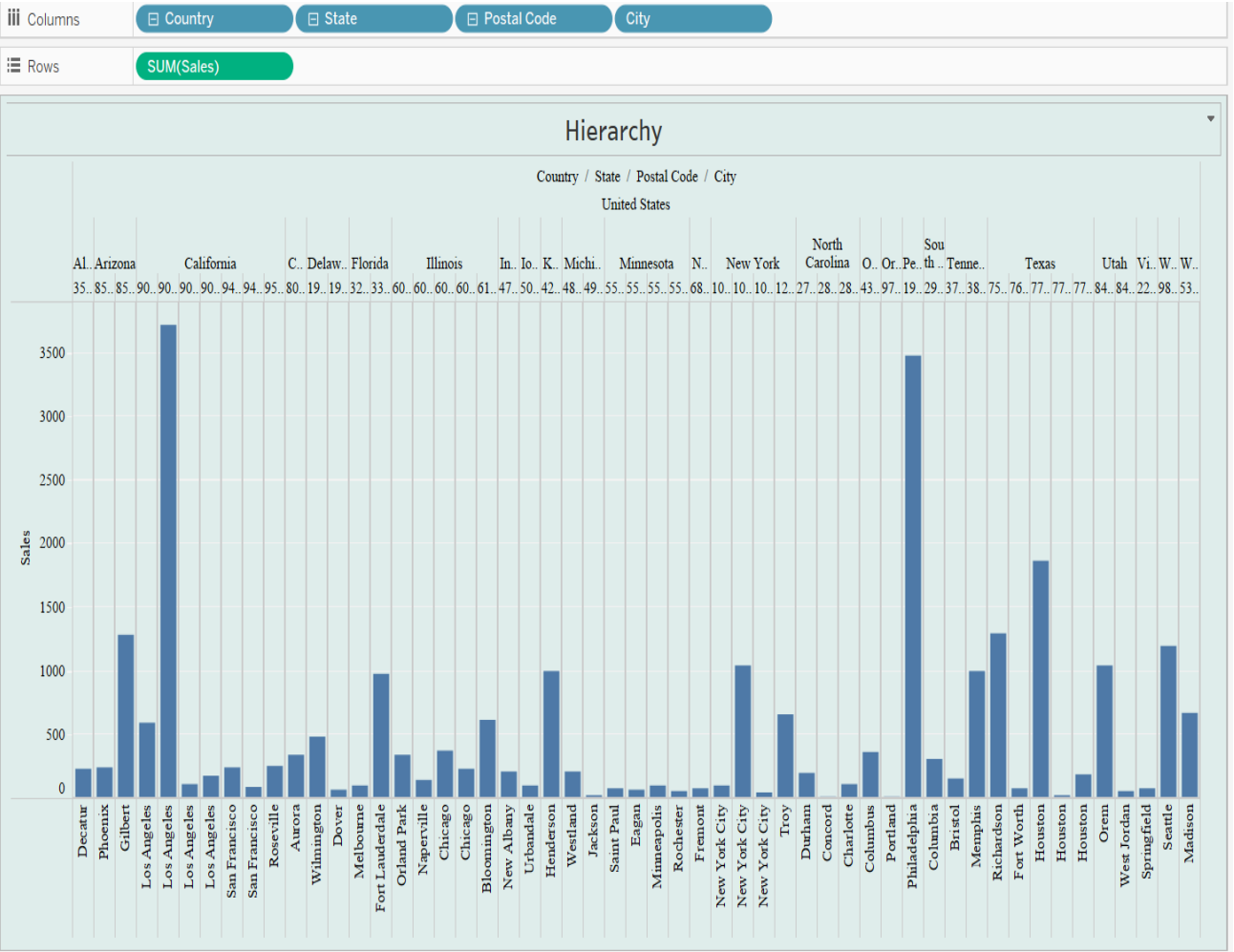3) Perform the following data manipulations on your dataset
● create a Hierarchy
● create a set
● create a group

● Hierarchy :

A hierarchy called Location_Hierarchy is created

- Set

Create Set

Name: Customer_Name_Set

General	Condition	Top

○ None

◉ By field:

| Top ˅ | 10 ˅ | by |

| Sales ˅ | Sum ˅ |

○ By formula:

| Top ˅ | 10 ˅ | by |

Reset   OK   Cancel

Customer_Name_Set

Set

Filters

Marks

Automatic

Color | Size | Label

Detail | Tooltip

IN/OUT(Cu..

In / Out of Customer_..

IN/OUT(Customer_Na...

- In
- Out

Sales

16K

14K

12K

10K

8K

6K

4K

2K

0K
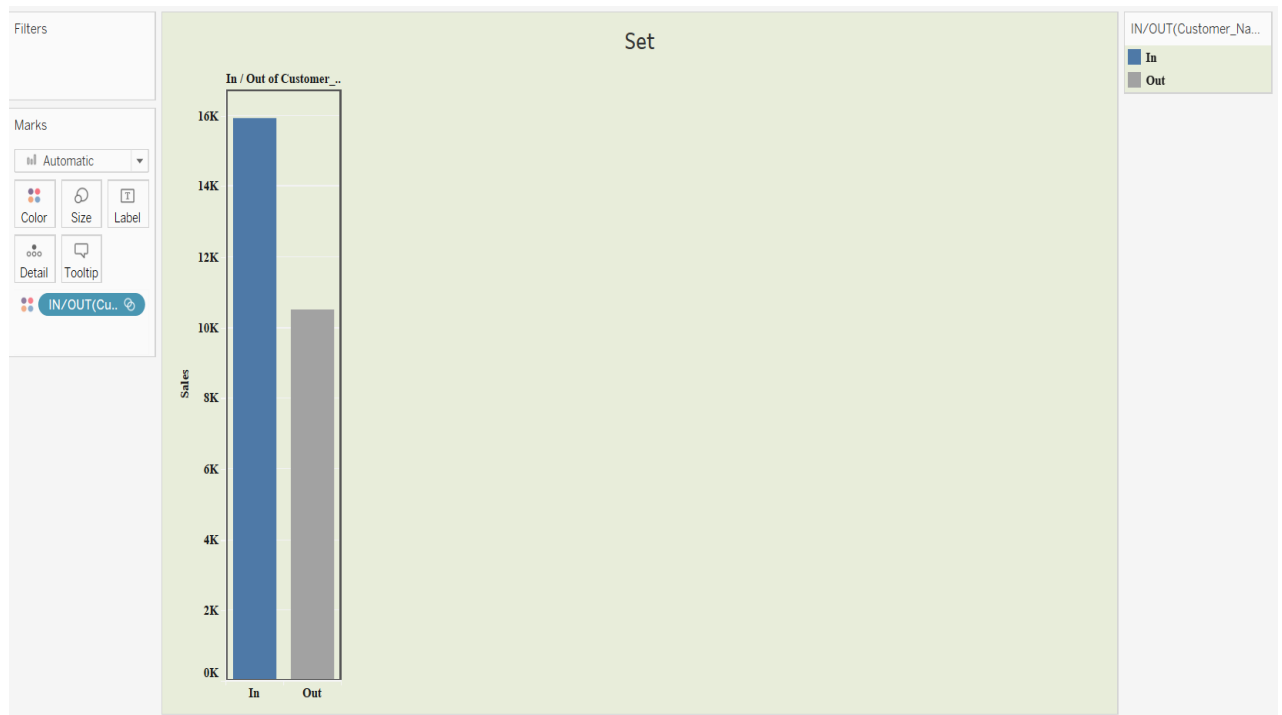
In   Out

- Group

Edit Group [Product_Name_Group]   ✕

Field Name: Product_Name_Group

Groups: Add to: xerox_group   ⌄

Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 3/Pack   ⌃
Wilson Jones Active Use Binders
Wilson Jones Hanging View Binder, White, 1""
Wilson Jones Leather-Like Binders with DublLock Round Rings
⌄ 📎 xerox_group
        Xerox 1880
        Xerox 1916
        Xerox 1921
        Xerox 1943
        Xerox 195
        Xerox 1967
        Xerox 1995
        Xerox 1999
        Xerox 232   ⌄

    Group   Rename   Ungroup   ☑ Show Add Location

☐ Include 'Other'   Find >>

    Reset   OK   Cancel   Apply

Here the all the members in the xerox_group are in same colour.