

## DAY 3 - TABLEAU

Tuesday, March 19, 2024 9:18 AM

- Extension of file in Tableau -> .twbx (tableau workbook)  
PowerBi -> .pbix

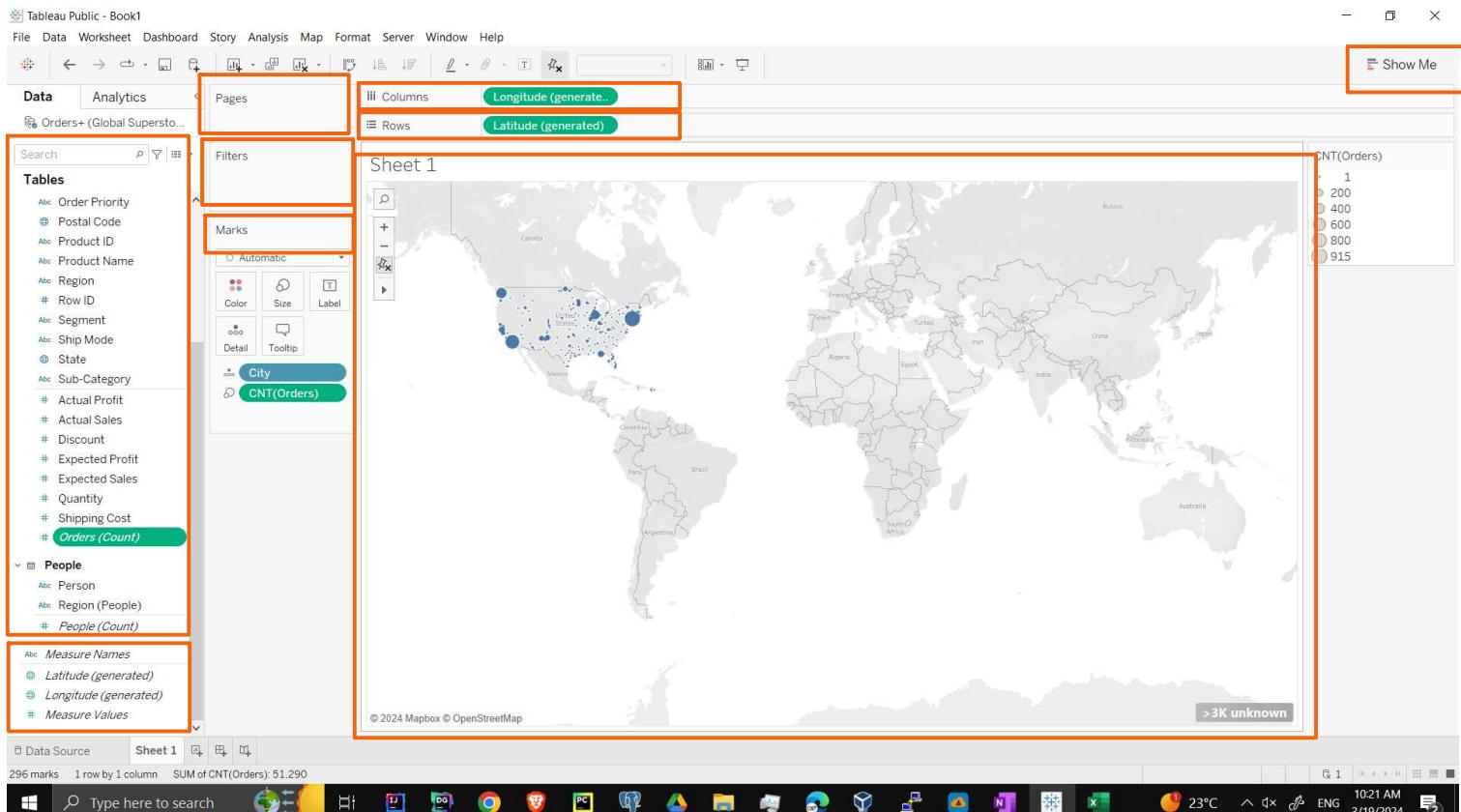
- Measure: An numeric column (with or without decimal) on which mathematics or stats functions can be applied to get meaningful result e.g. sales, profit, tax, cost, etc.
- DIMENSION: Any number/date/character value which is not a measure and can be used to aggregate the measure e.g. City, Country, Department, Measure, etc.
- Measure are always displayed in GREEN color and Dimensions are always displayed in BLUE color
- "#" in column header of Tableau is considered as numerical data with or without decimal
- "abc" in column header of tableau is alpha numeric data
- icon means date field entry
- icon means Geographic
- T/F means Boolean value True or False

- TI - Components of Tableau:

1. Worksheet
2. Dashboard
3. Story

- JOIN VS RELATIONSHIP:

### TABLEAU DASHBOARD:



1. DIMENSION
2. MEASURE
3. PAGES
4. FILTERS
5. MARKS
6. COLUMNS
7. ROWS
8. CANVAS
9. SHOW ME

- LAYOUT:

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics < Pages Columns Standard Standard Fit Width Fit Height Entire View

Orders+ (Global Supersto... Search Filters Sheet 1 Drop field here

Tables Order Priority

#### Q1 ADD A NEWWORK AND BUILD FOLLOWING TEXT TABLES:

- PROFIT BY SUB CATEGORY
- QUANTITY BY SUB CATEGORY
- SALES BY REGION
- PROFIT BY REGION

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics < Pages Columns Standard Standard Fit Height Fit Width Fit Height

Orders+ (Global Supers... Search Filters Region Sheet 1

Tables SUM(Actual Profit)

Marks Automatic Color Size Text Detail Tooltip

**PROFIT BY REGION(TEXT TABLE)**

Region	Profit
Africa	\$88.9K
Canada	\$17.8K
Caribbean	\$34.6K
Central	\$311.4K
Central Asia	\$132.5K
East	\$91.5K
EMEA	\$43.9K
North	\$194.6K
North Asia	\$165.6K
Oceania	\$120.1K
South	\$140.4K
Southeast Asia	\$17.9K
West	\$108.4K

SUM(Actual Profit) \$17.8K \$311.4K

Data Source SALES BY SUBCATEGORY (TEXT TABLE) SHIPPING COST BY SUBCATEG... PROFIT BY SUBCATEGORY (TEXT TABLE) QUANTITY BY SUB CATEGORY (TEXT TABLE) SALES BY REGION (TEXT TABLE) PROFIT BY REGION (TEXT TAB...) PROFIT BY SUBCAT A

13 marks 13 rows by 1 column SUM(Actual Profit): \$1,467.5K

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Show Me

**Data** Analytics

Orders+ (Global Supers...)

Search

**Tables**

- Actual Ship Date
- Category
- City
- Country
- Customer ID
- Customer Name
- Expected Ship Date
- Market
- Order Date
- Order ID
- Order Priority
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Mode
- State
- Sub-Category
- Actual Profit
- Actual Sales
- Discount
- Expected Profit
- Expected Sales
- Quantity
- Shipping Cost
- Orders (Count)

**Pages**

Columns

Rows Region

### SALES BY REGION(TEXT TABLE)

Region

Region	Sales
Africa	783,773
Canada	66,928
Caribbean	324,281
Central	2,822,303
Central Asia	752,827
East	678,781
EMEA	806,161
North	1,248,166
North Asia	848,310
Oceania	1,100,185
South	1,600,907
Southeast Asia	884,423
West	725,458

13 marks 13 rows by 1 column SUM(Actual Sales): 12,642,502

Type here to search

23°C ENG 11:32 AM 3/19/2024

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

**Data** Analytics

Orders+ (Global Supers...)

Search

**Tables**

- Actual Ship Date
- Category
- City
- Country
- Customer ID
- Customer Name
- Expected Ship Date
- Market
- Order Date
- Order ID
- Order Priority
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Mode
- State
- Sub-Category
- Actual Profit
- Actual Sales
- Discount
- Expected Profit
- Expected Sales
- Quantity
- Shipping Cost
- Orders (Count)

**Pages**

Columns

Rows Sub-Category

### QUANTITY BY SUB CATEGORY(TEXT TABLE)

Sub-Cat...

Sub-Category	Quantity
Accessories	10,946
Appliances	6,078
Art	16,301
Binders	21,429
Bookcases	8,310
Chairs	12,336
Copiers	7,454
Envelopes	8,380
Fasteners	8,390
Furnishings	11,225
Labels	9,322
Machines	4,906
Paper	12,822
Phones	11,870
Storage	16,917
Supplies	8,543
Tables	3,083

17 marks 17 rows by 1 column SUM(Quantity): 178,312

Type here to search

23°C ENG 11:32 AM 3/19/2024

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

**Data Analytics**

Pages

Sub-Categories

PROFIT BY SUBCATEGORY(TEXT TABLE)

Sub-Categories	Profit
Accessories	\$129.6K
Appliances	\$141.7K
Art	\$58.0K
Binders	\$72.4K
Bookcases	\$161.9K
Chairs	\$140.4K
Copiers	\$258.6K
Envelopes	\$29.6K
Fasteners	\$11.5K
Furnishings	\$47.0K
Labels	\$15.0K
Machines	\$58.9K
Paper	\$59.2K
Phones	\$216.7K
Storage	\$108.5K
Supplies	\$22.6K
Tables	(\$64.1K)

17 marks 17 rows by 1 column SUM(Actual Profit): \$1,467.5K

Type here to search

Q5 PROFIT BY SUBCAT AND SEGMENT (TEXT TABLE)

Q6 PROFIT BY REGION AND CATEGORY (TEXT TABLE)

Q7 QUANTITY BY REGION AND ORDER PRIORITY (TEXT TABLE)

- HIGHLIGHT TABLE

Q1 QUANTITY BY SUBCAT (HIGHLIGHT TABLE)

Q2 SHIPPING COST BY SUBCAT (HIGHLIGHT TABLE)

Q3 SALES BY REGION(HIGHLIGHT TABLE)

Tableau Public - global\_superstore\_1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

**Data Analytics**

Pages

Sub-Categories

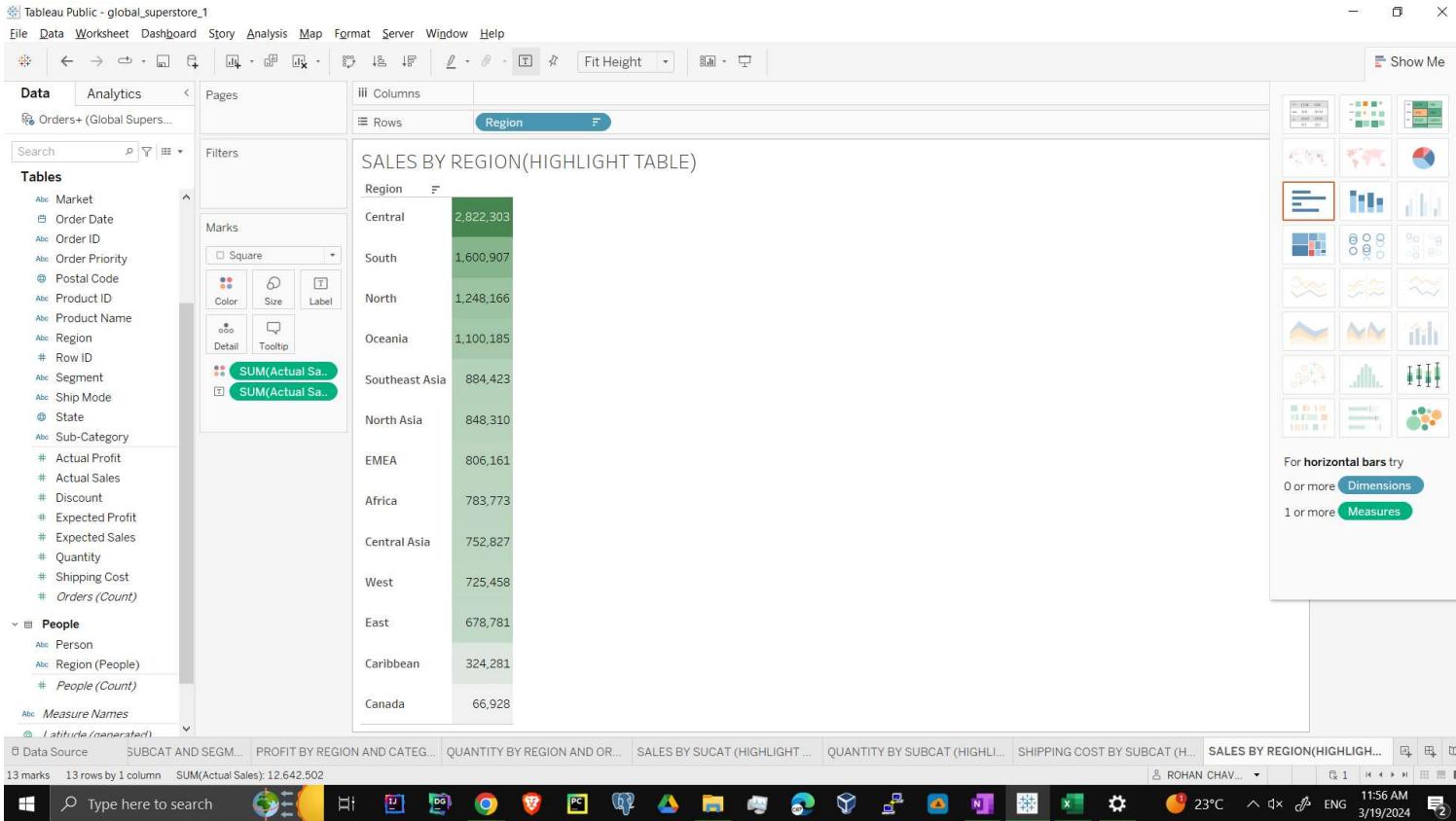
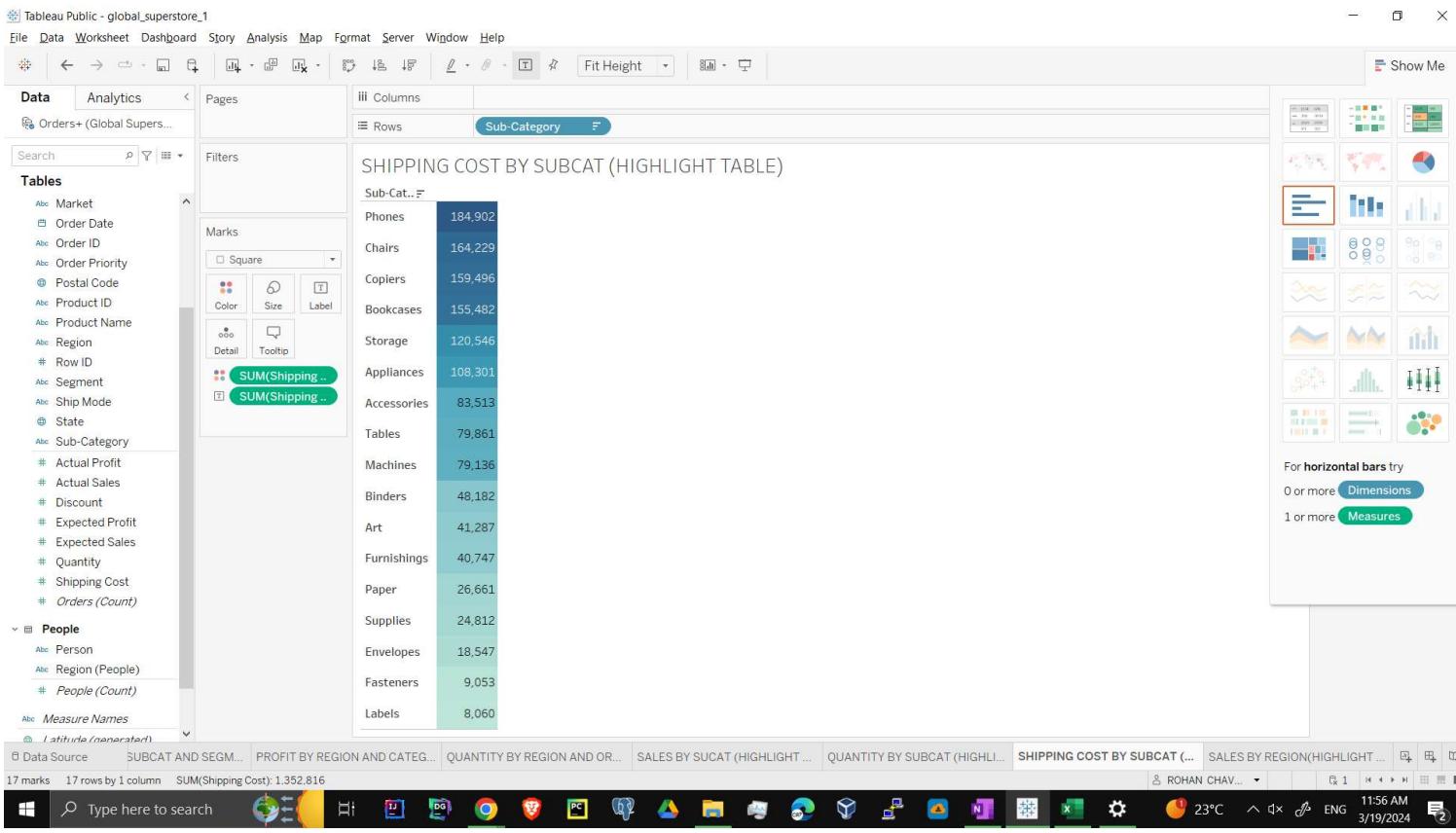
QUANTITY BY SUBCAT (HIGHLIGHT TABLE)

Sub-Categories	Quantity
Binders	21,429
Storage	16,917
Art	16,301
Paper	12,822
Chairs	12,336
Phones	11,870
Furnishings	11,225
Accessories	10,946
Labels	9,322
Supplies	8,543
Fasteners	8,390
Envelopes	8,380
Bookcases	8,310
Copiers	7,454
Appliances	6,078
Machines	4,906
Tables	3,083

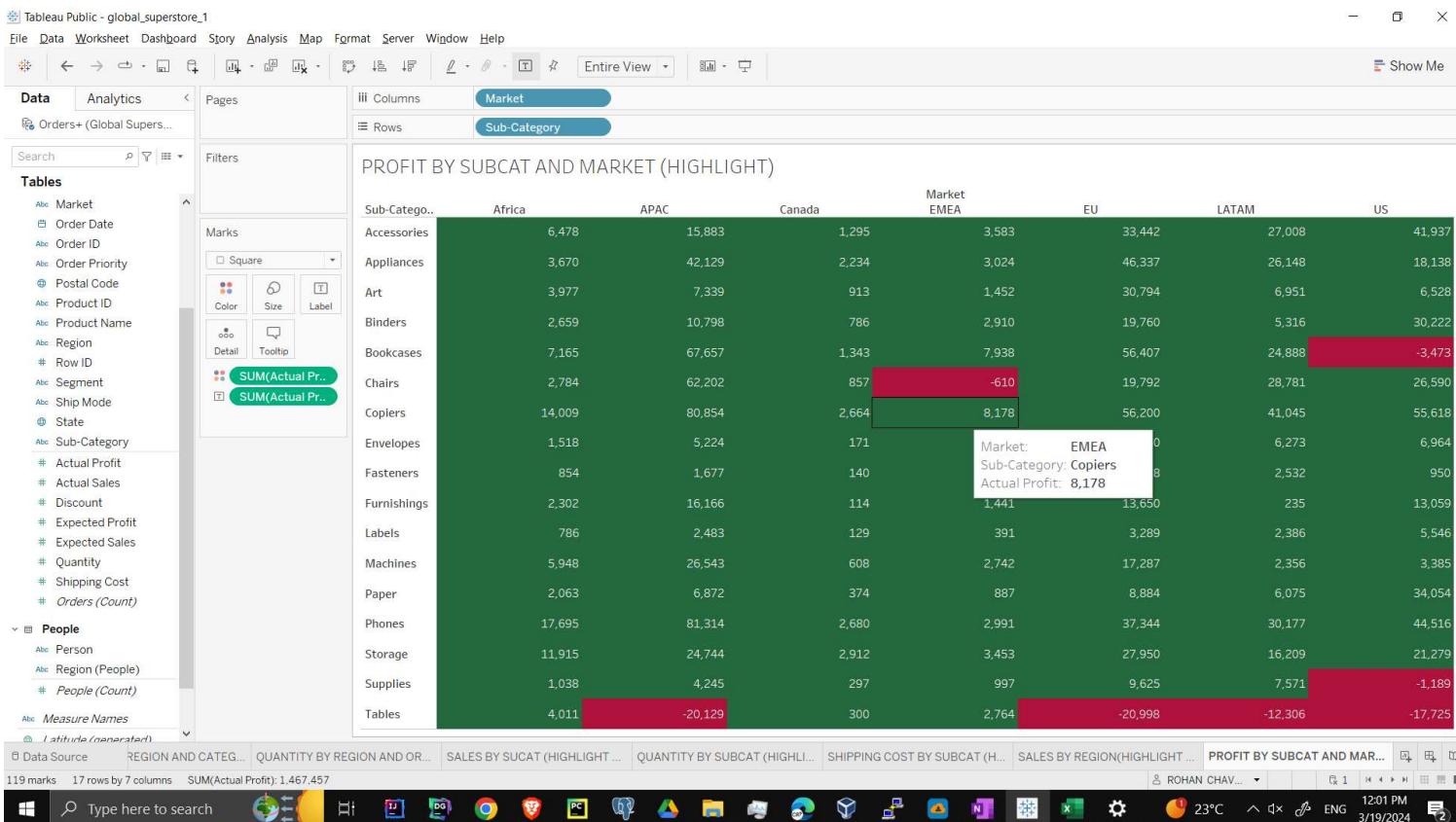
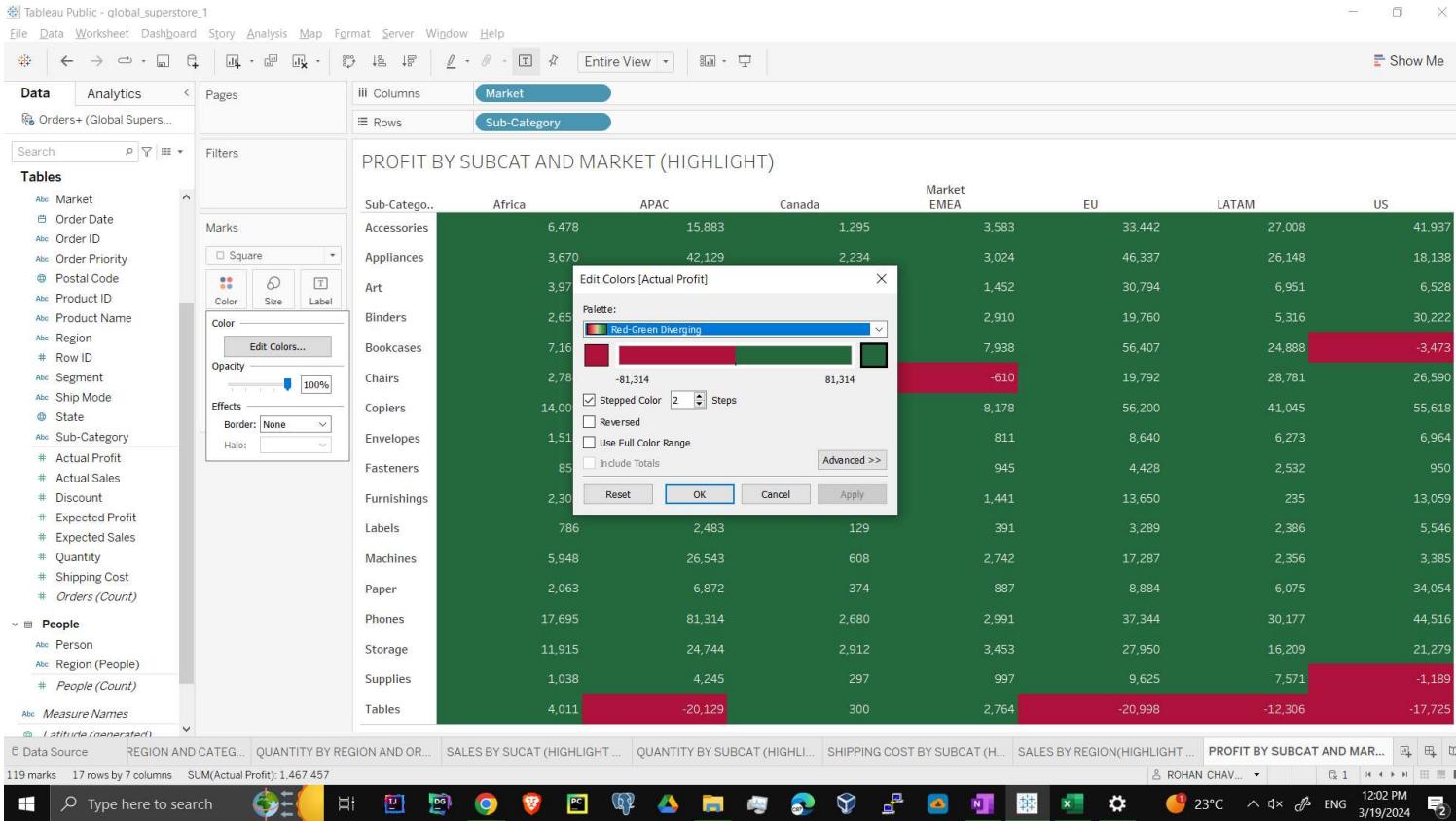
17 marks 17 rows by 1 column SUM(Quantity): 178,312

Type here to search

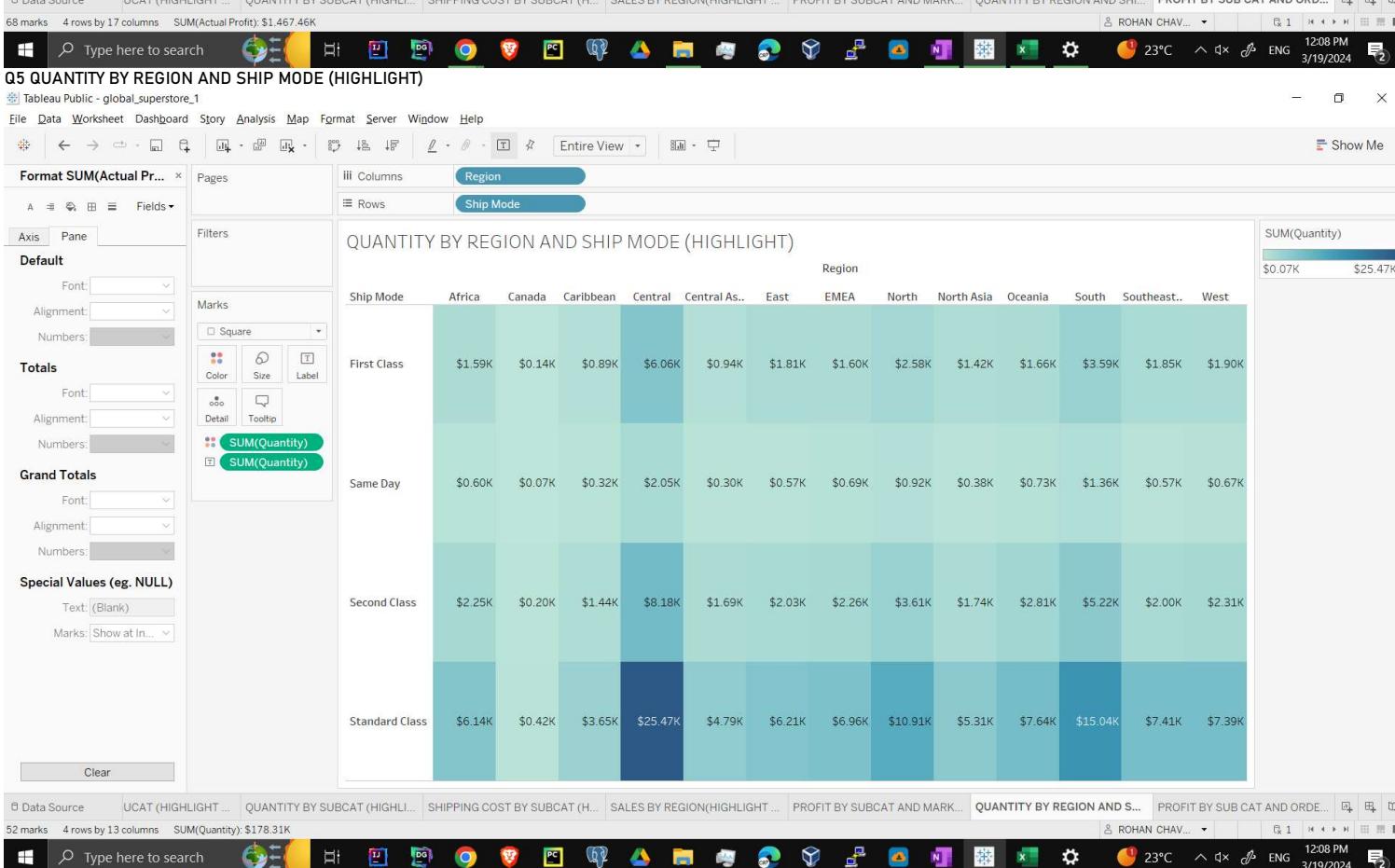
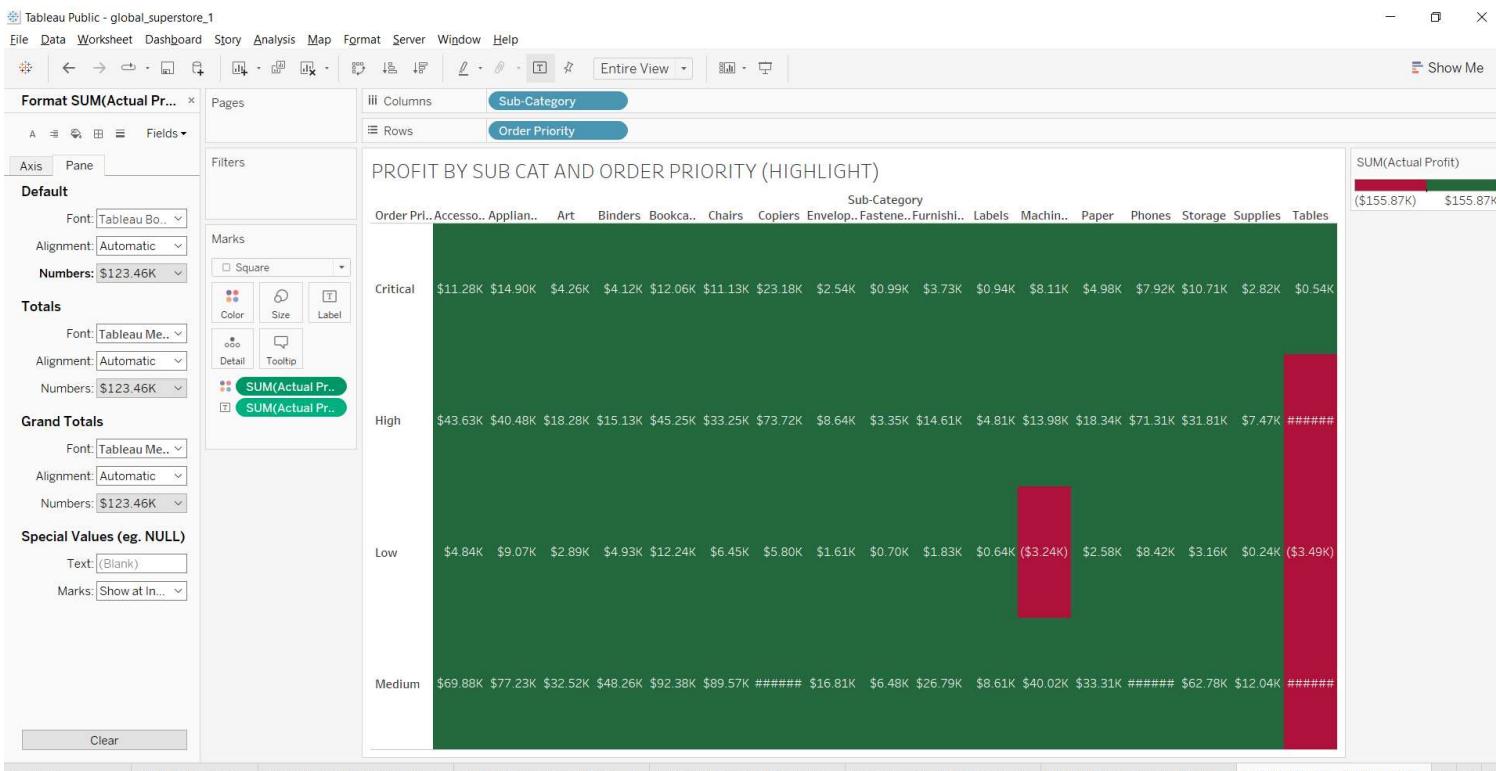
For horizontal bars try  
0 or more Dimensions  
1 or more Measures



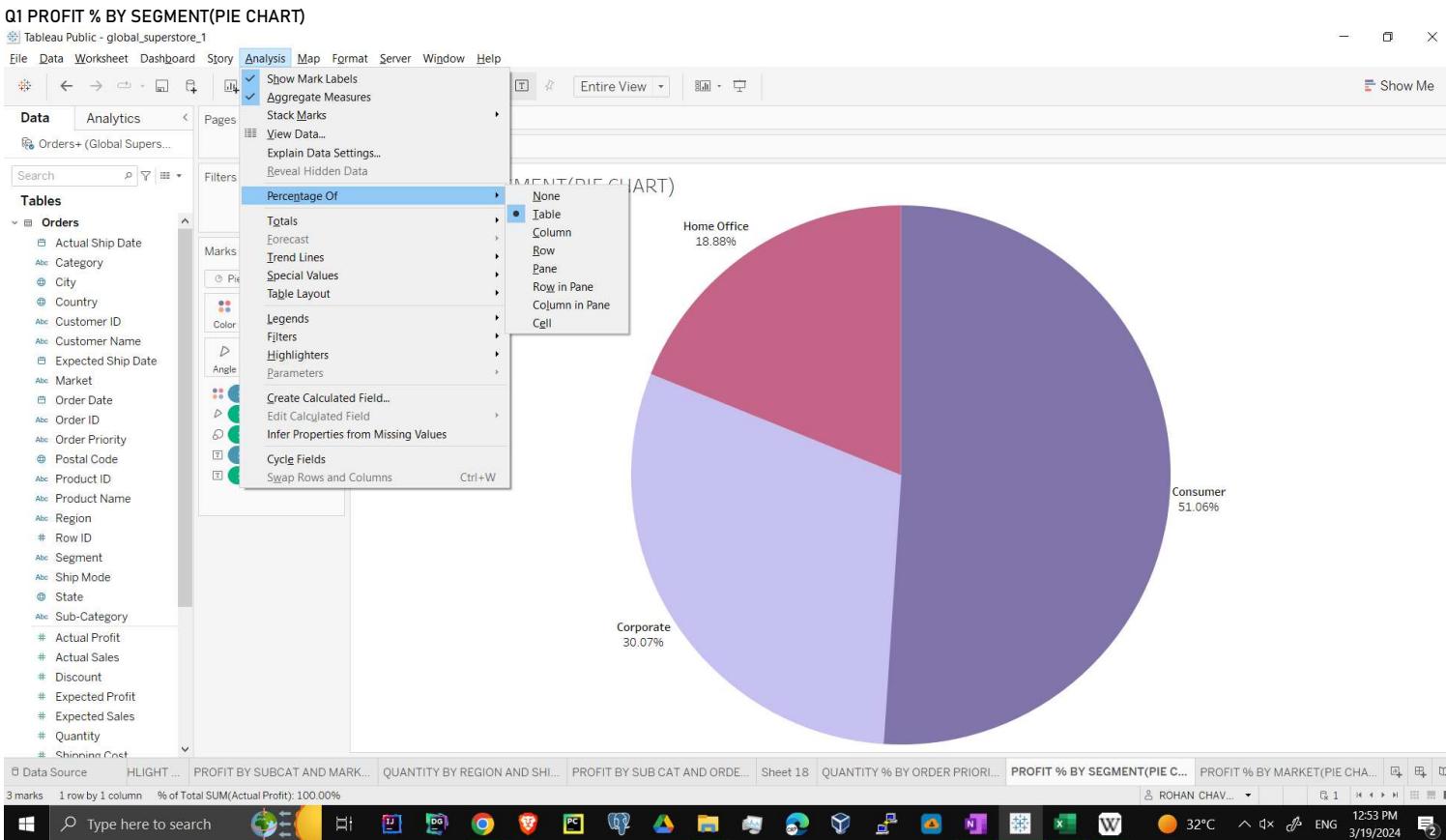
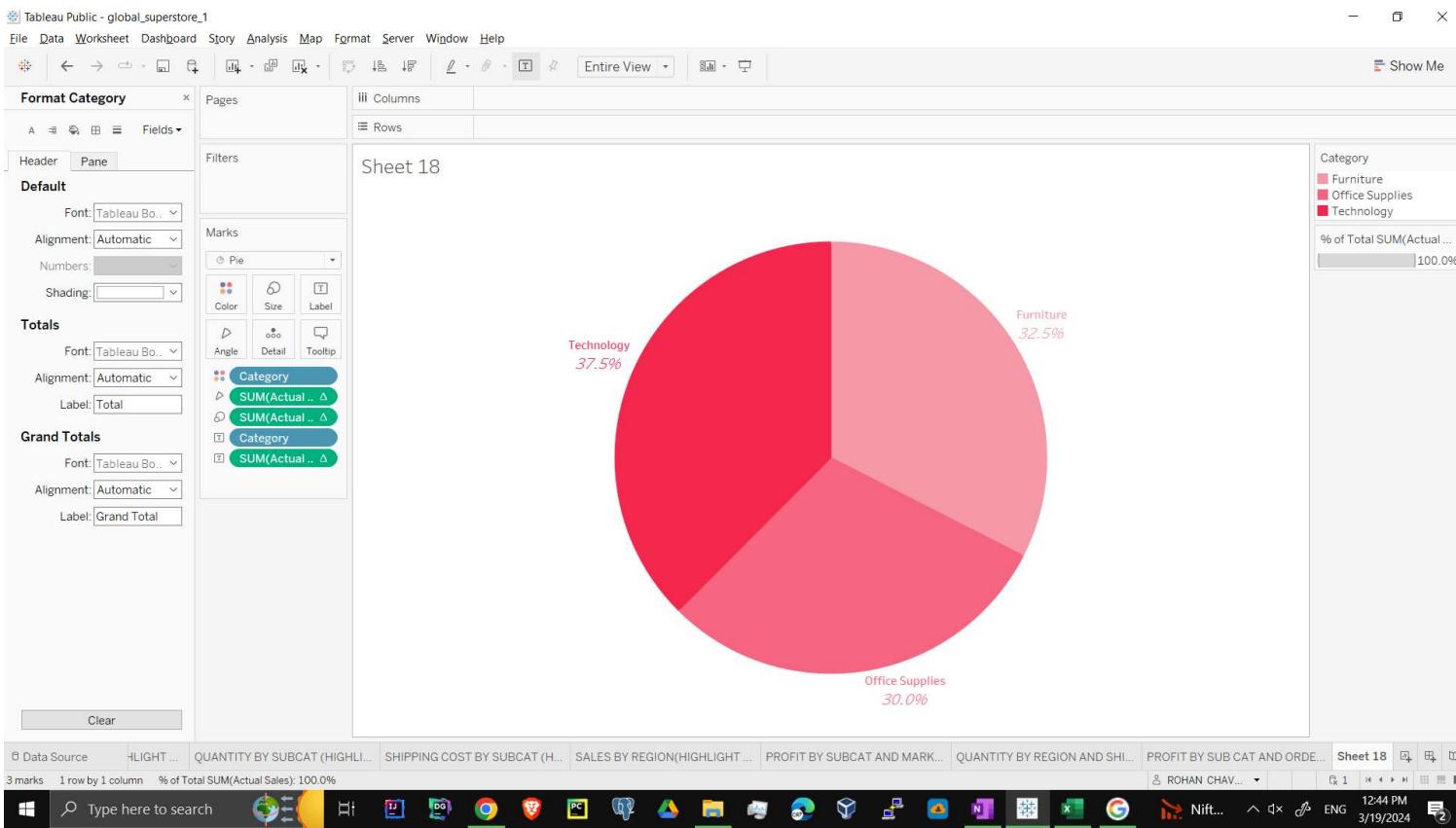
PROFIT BY SUBCAT AND MARKET (HIGHLIGHT)

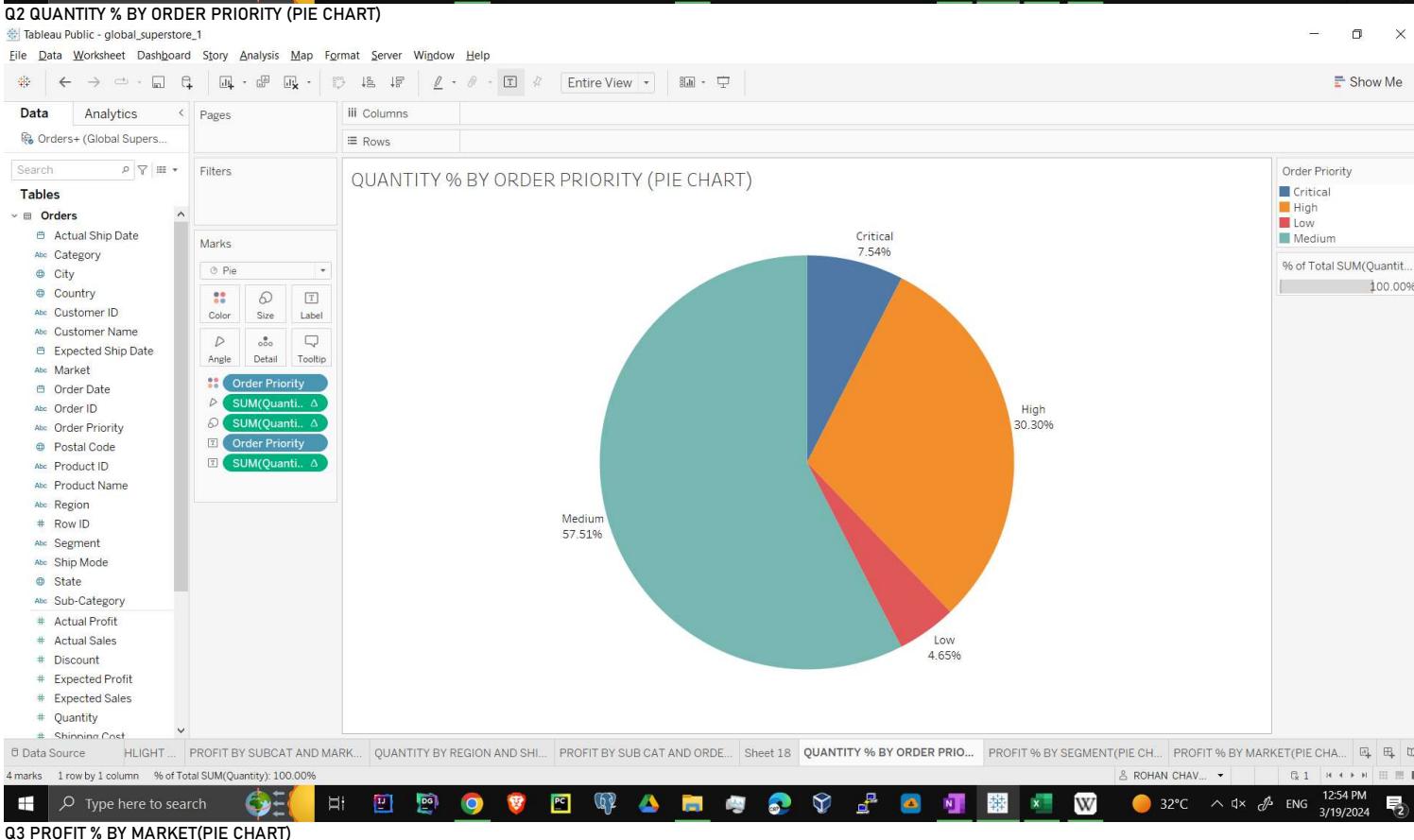
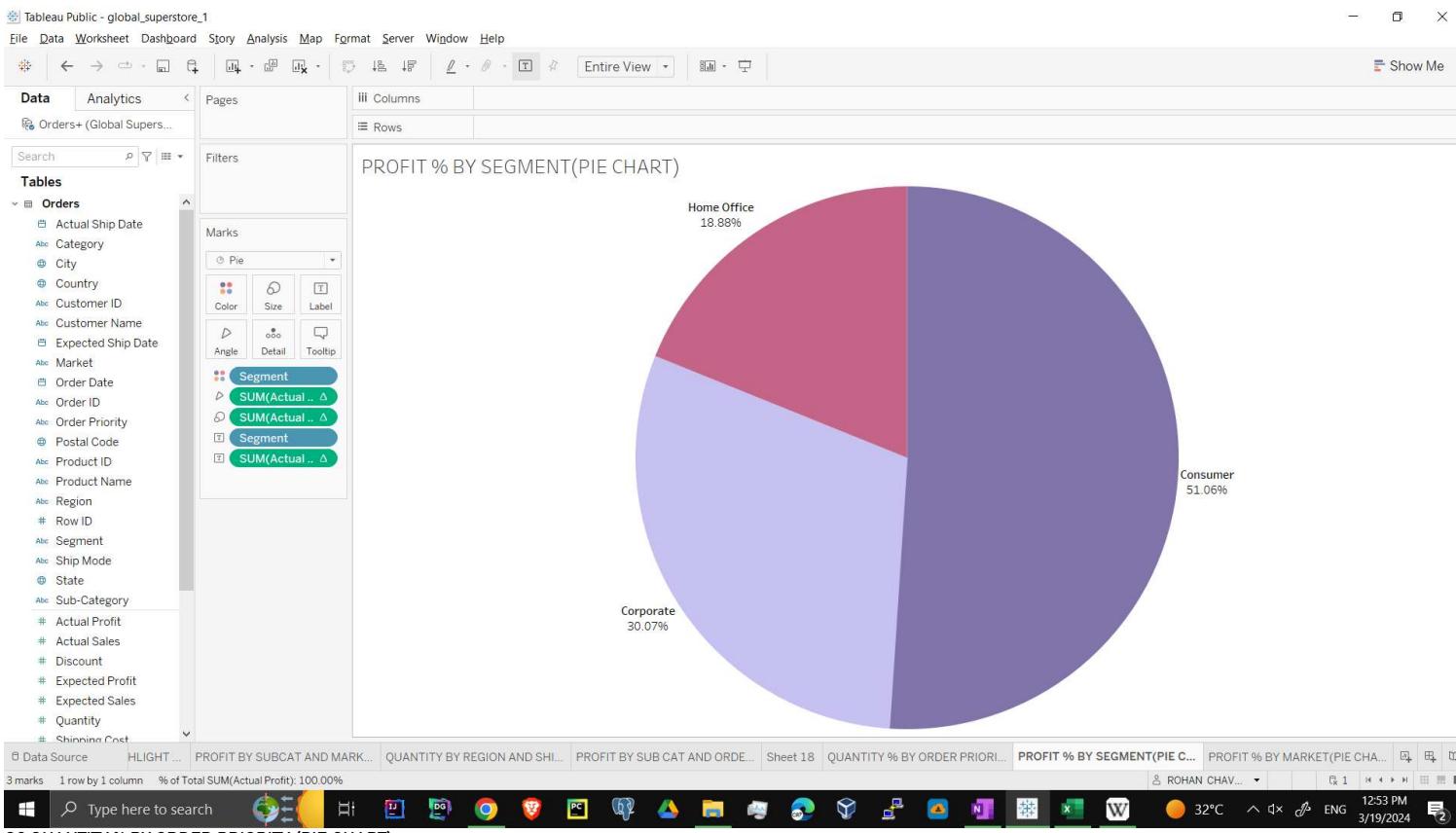


Q4 PROFIT BY SUB CAT AND ORDER PRIORITY (HIGHLIGHT)

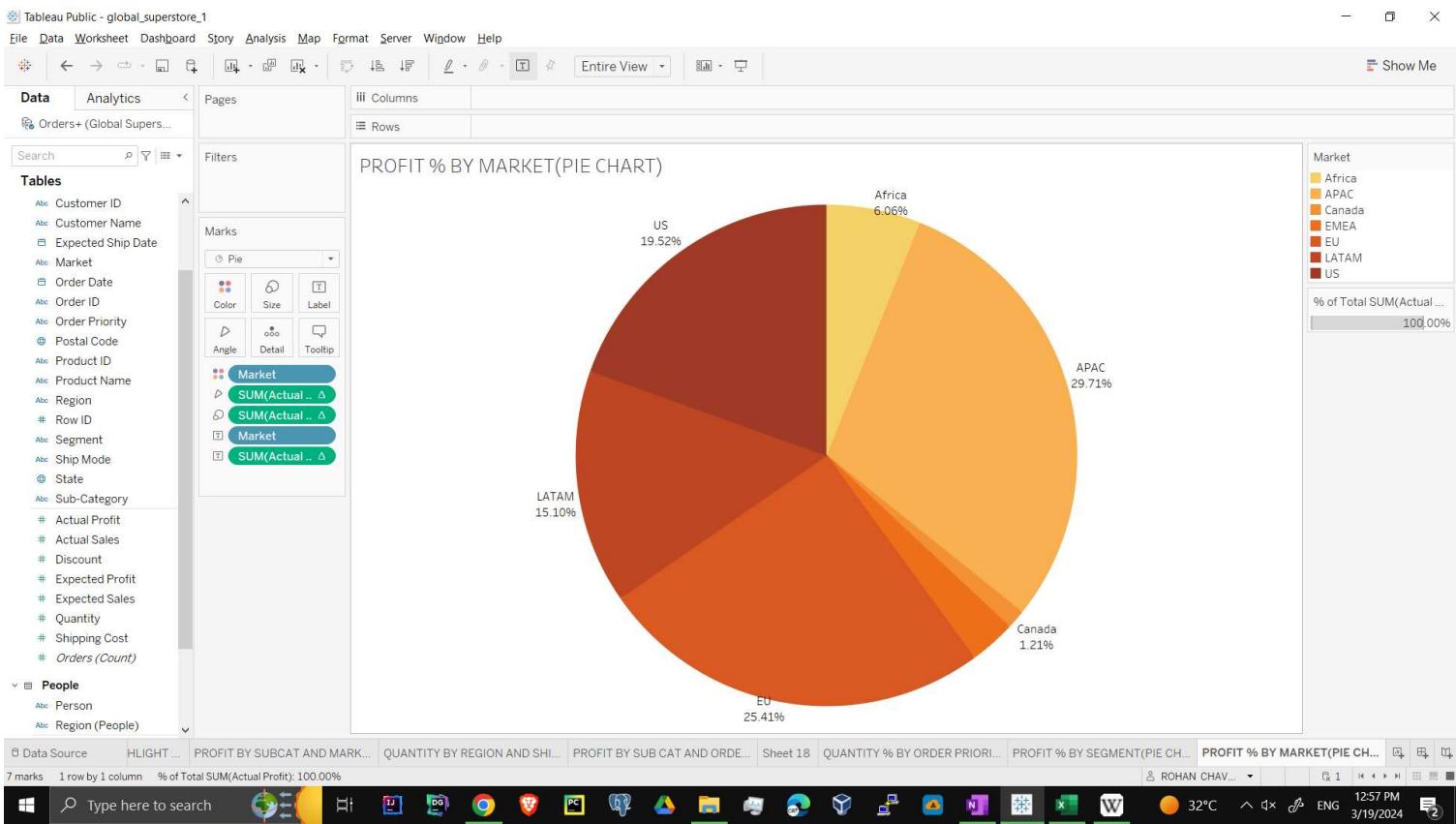


PIE

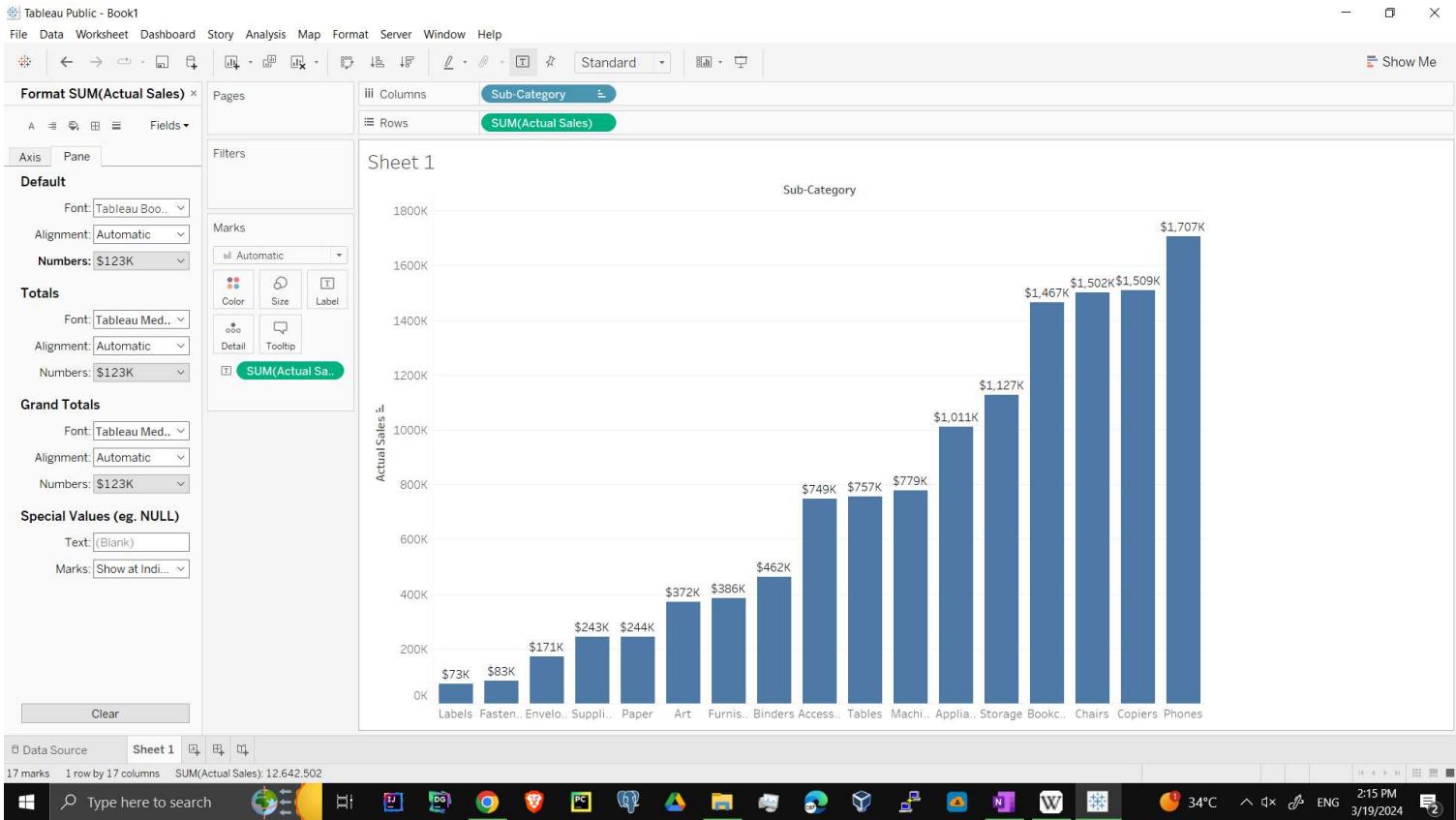




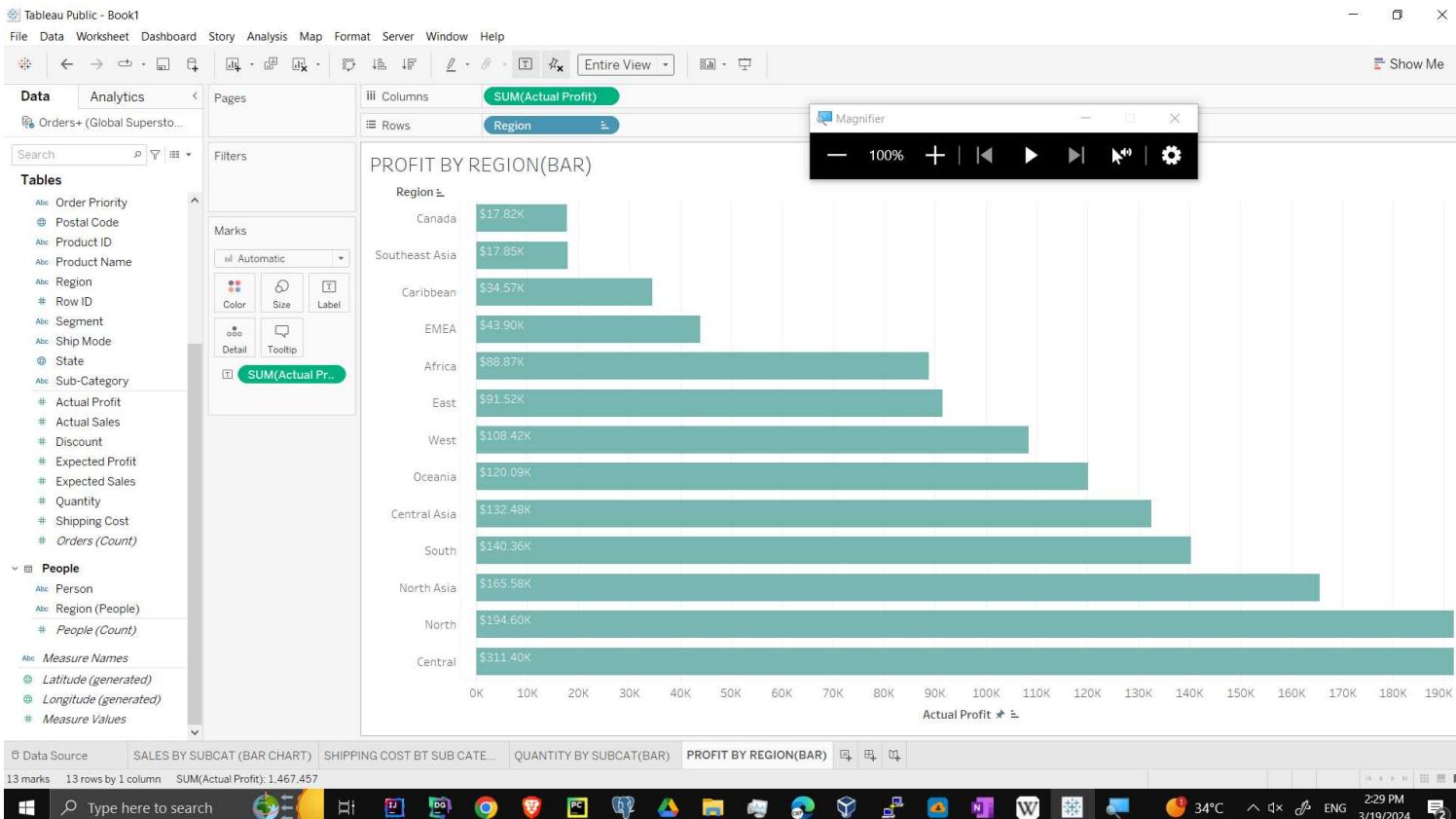
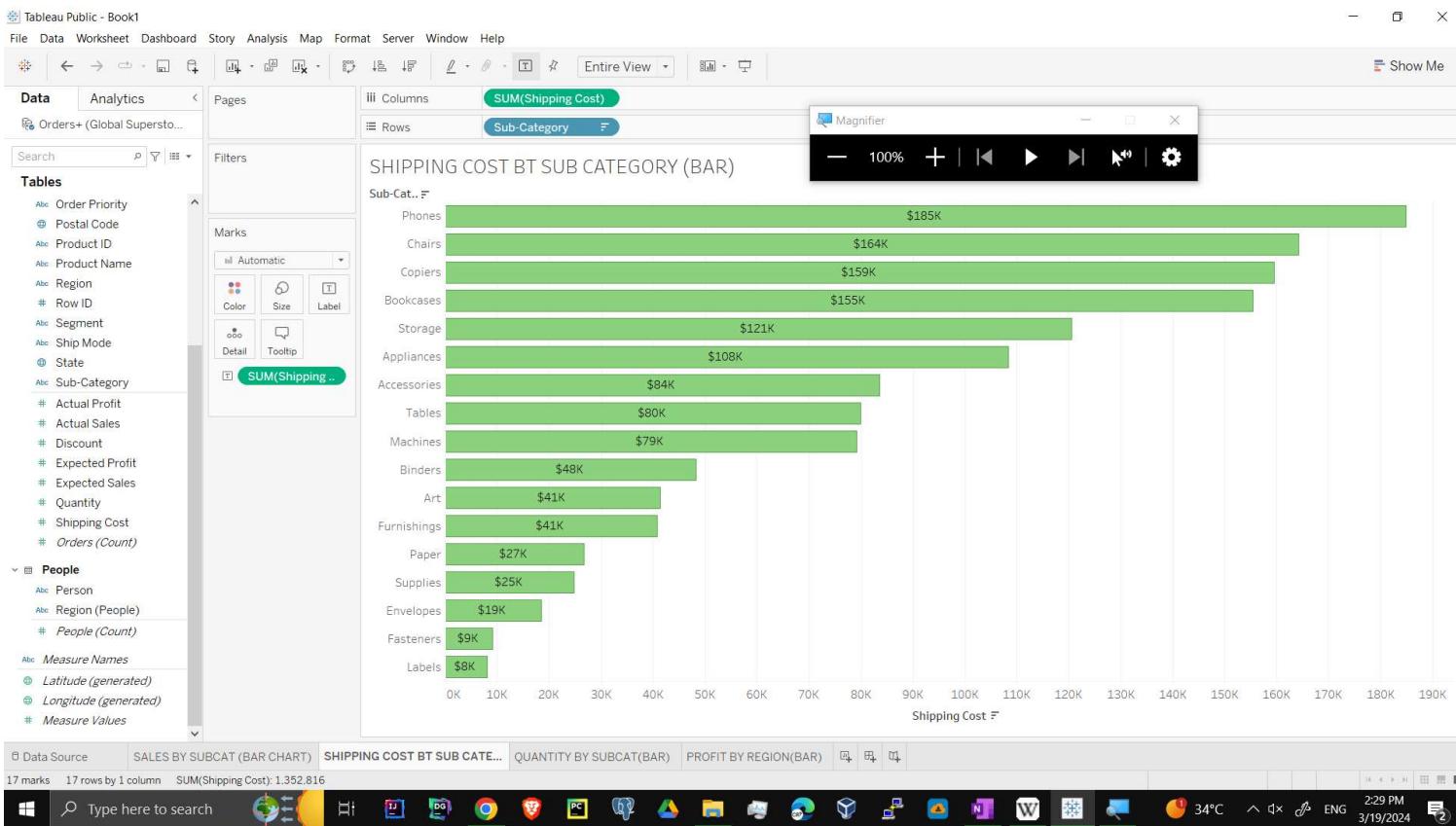
Q3 PROFIT % BY MARKET(PIE CHART)



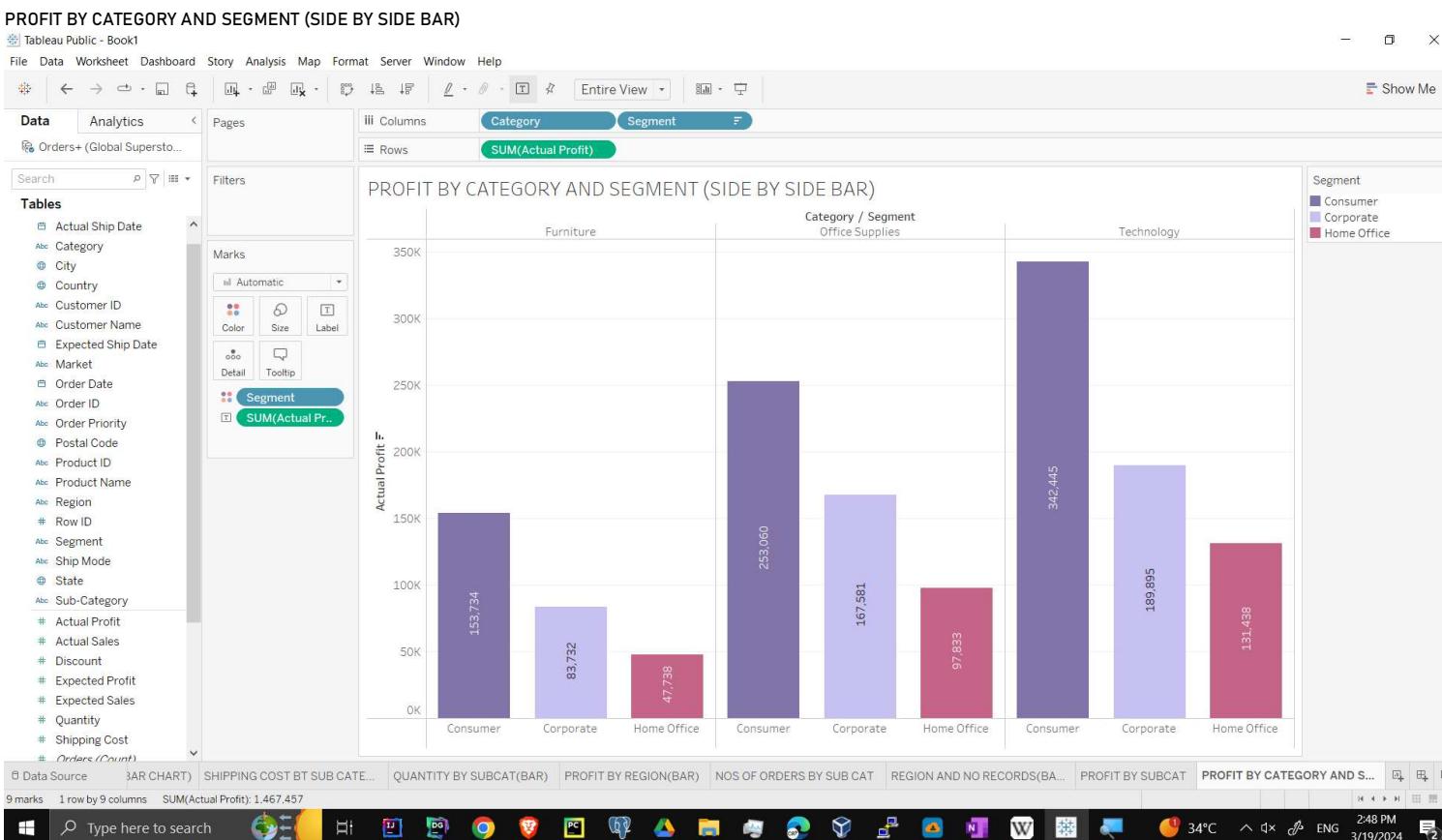
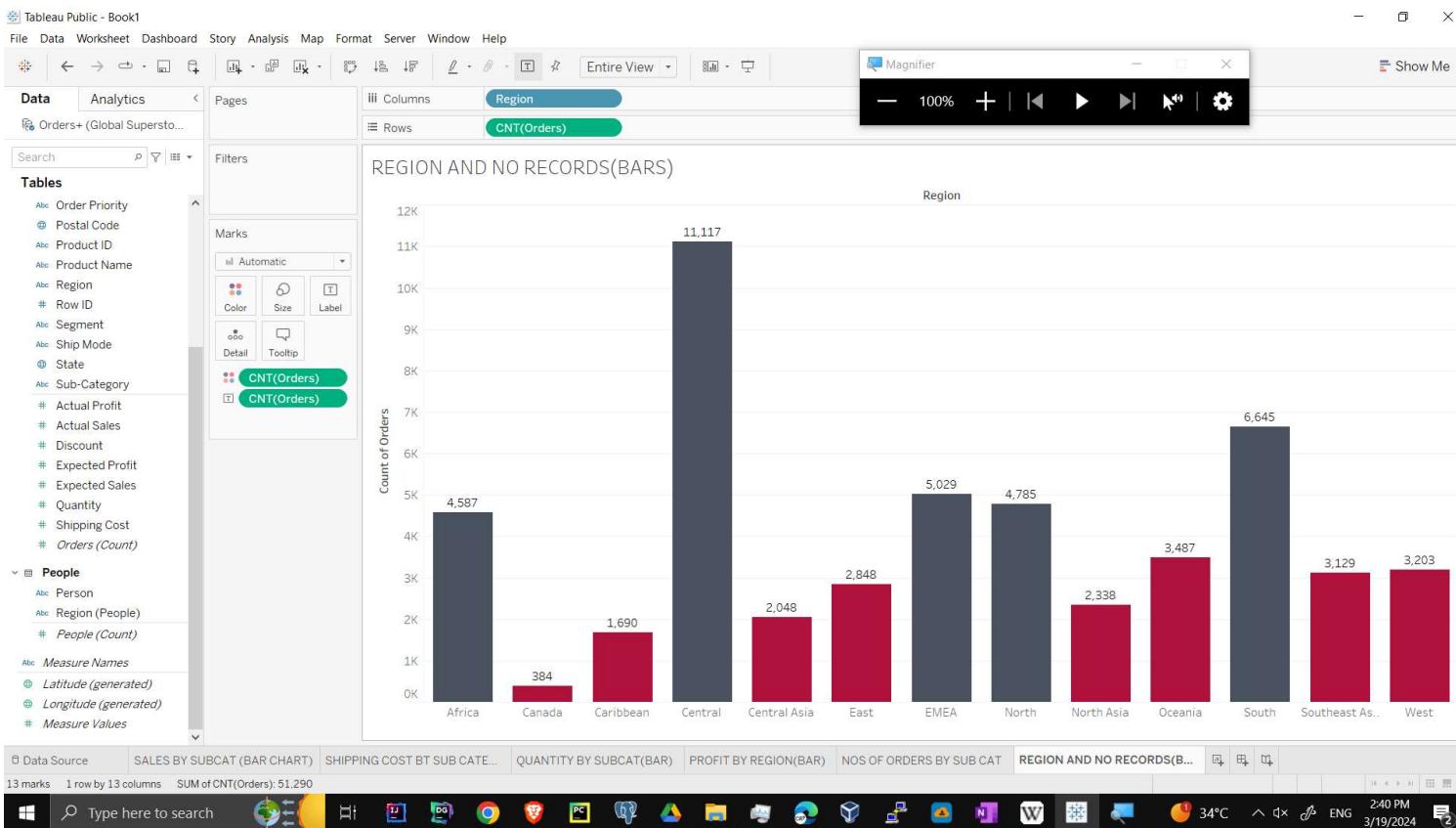
## BAR CHART



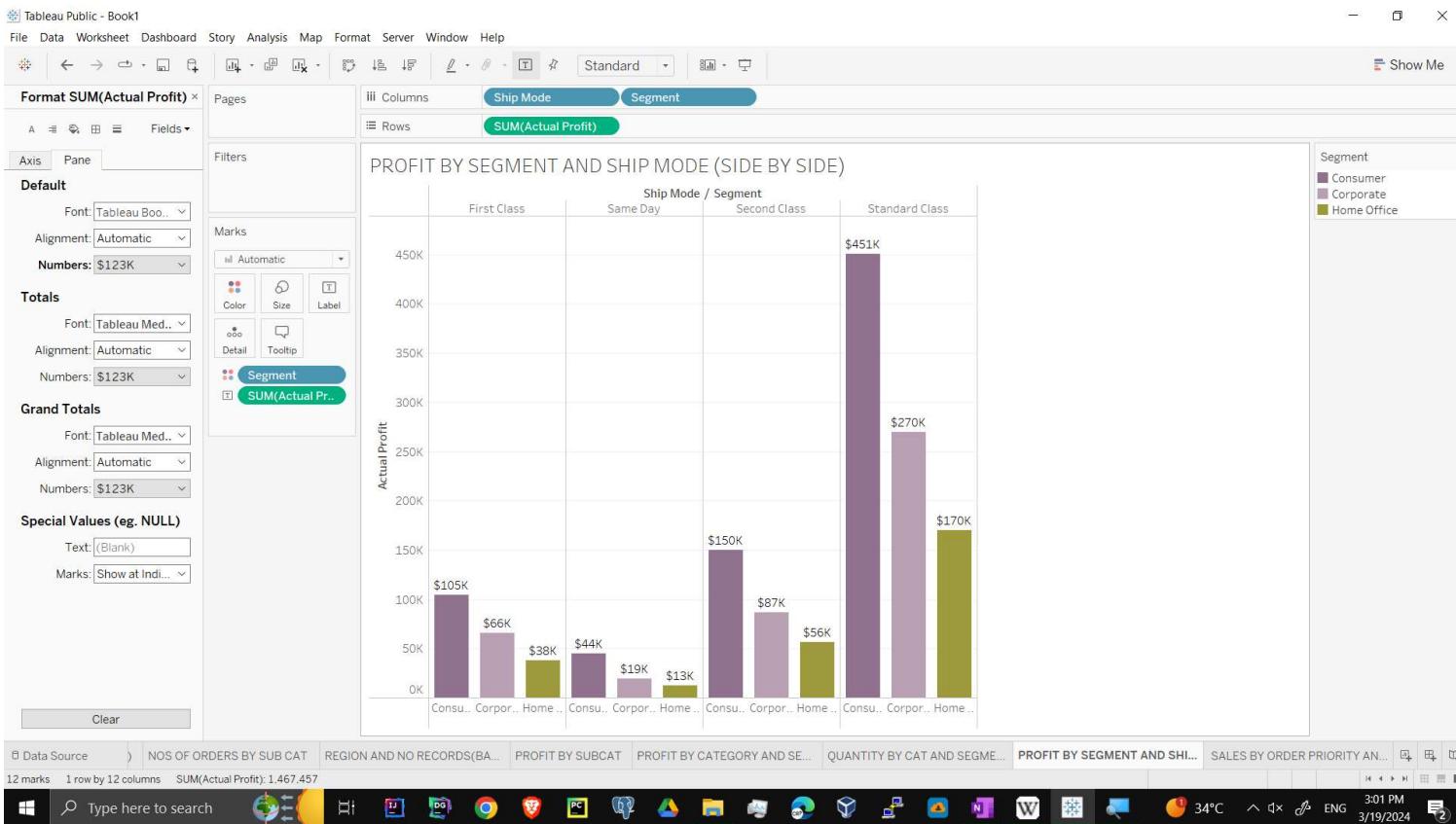
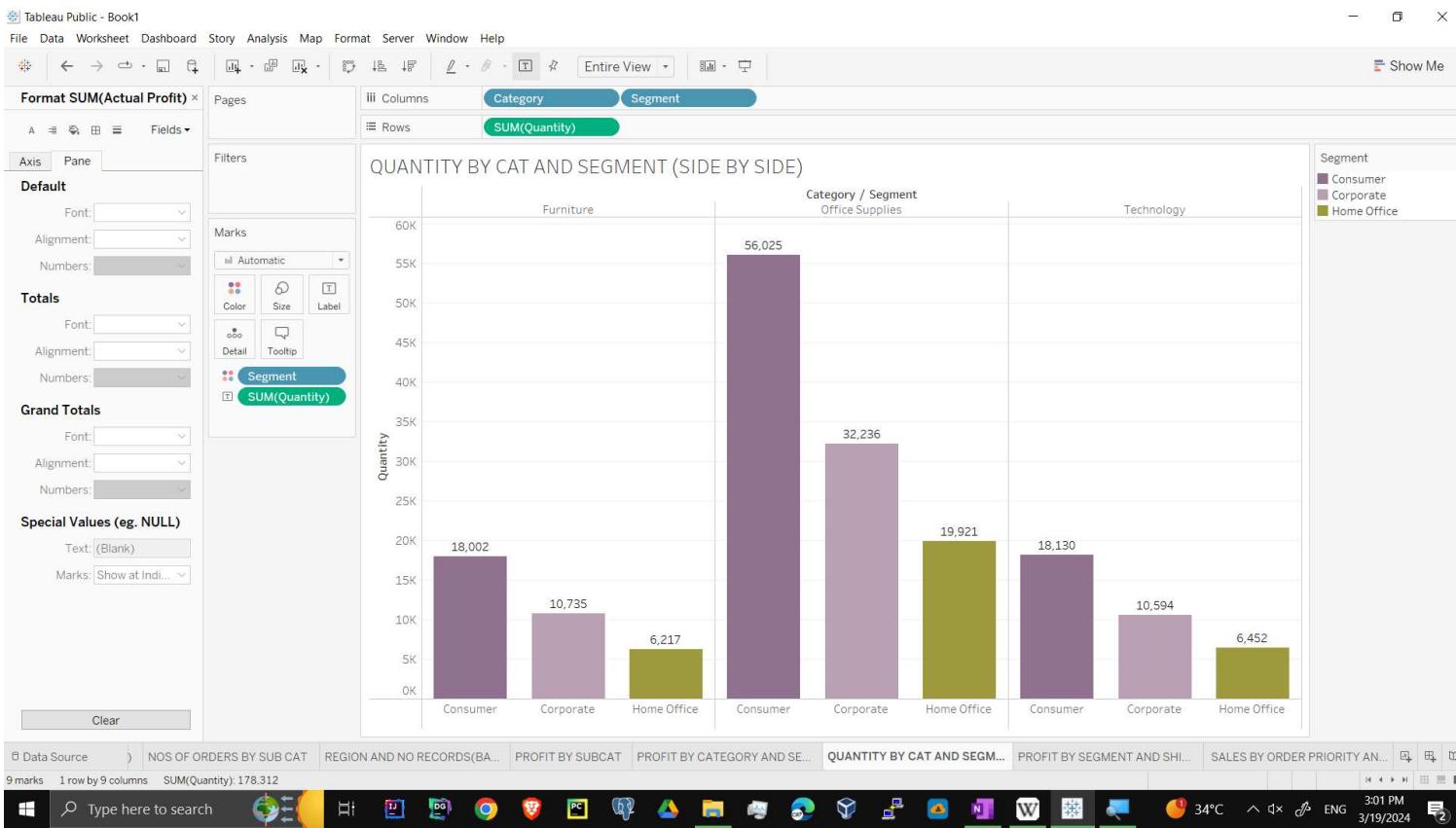
Q1 SHIPPING COST BT SUB CATEGORY (BAR)  
Q2 PROFIT VS REGION (BAR CHART)



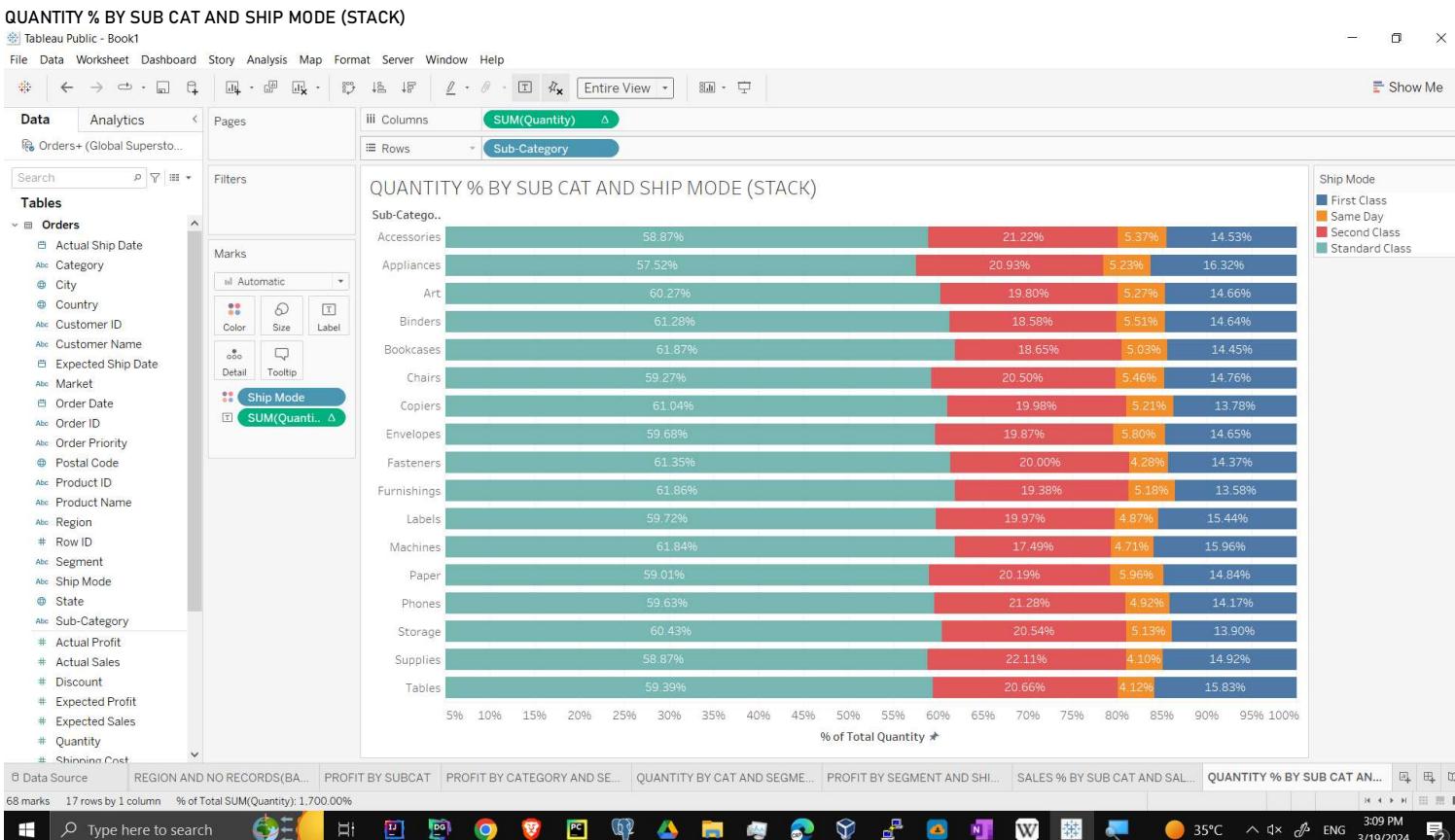
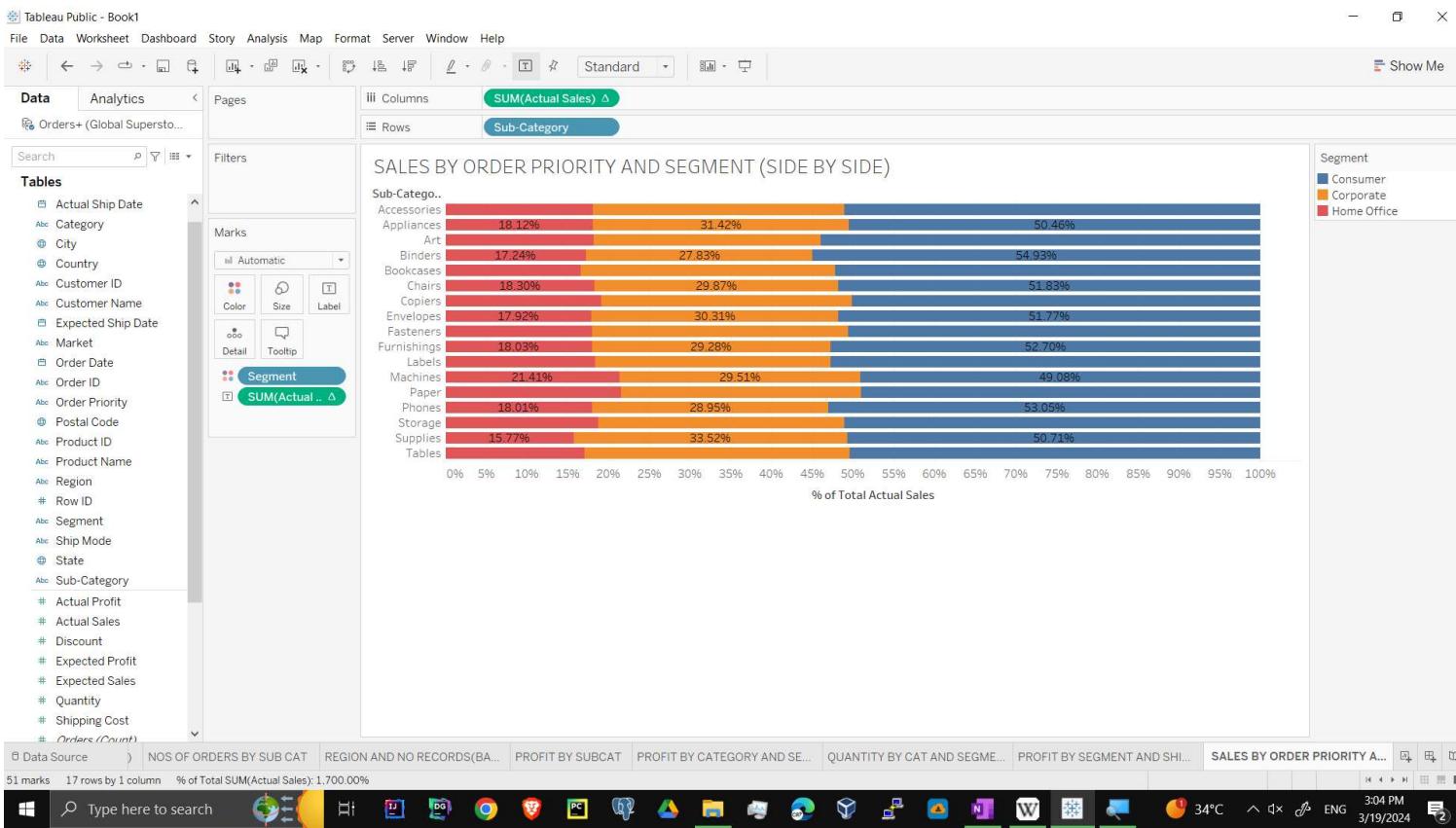
Q1 IDENTIFY SUB CATS HAVING NOS OF RECORDS > 3000 USING BAR CHART



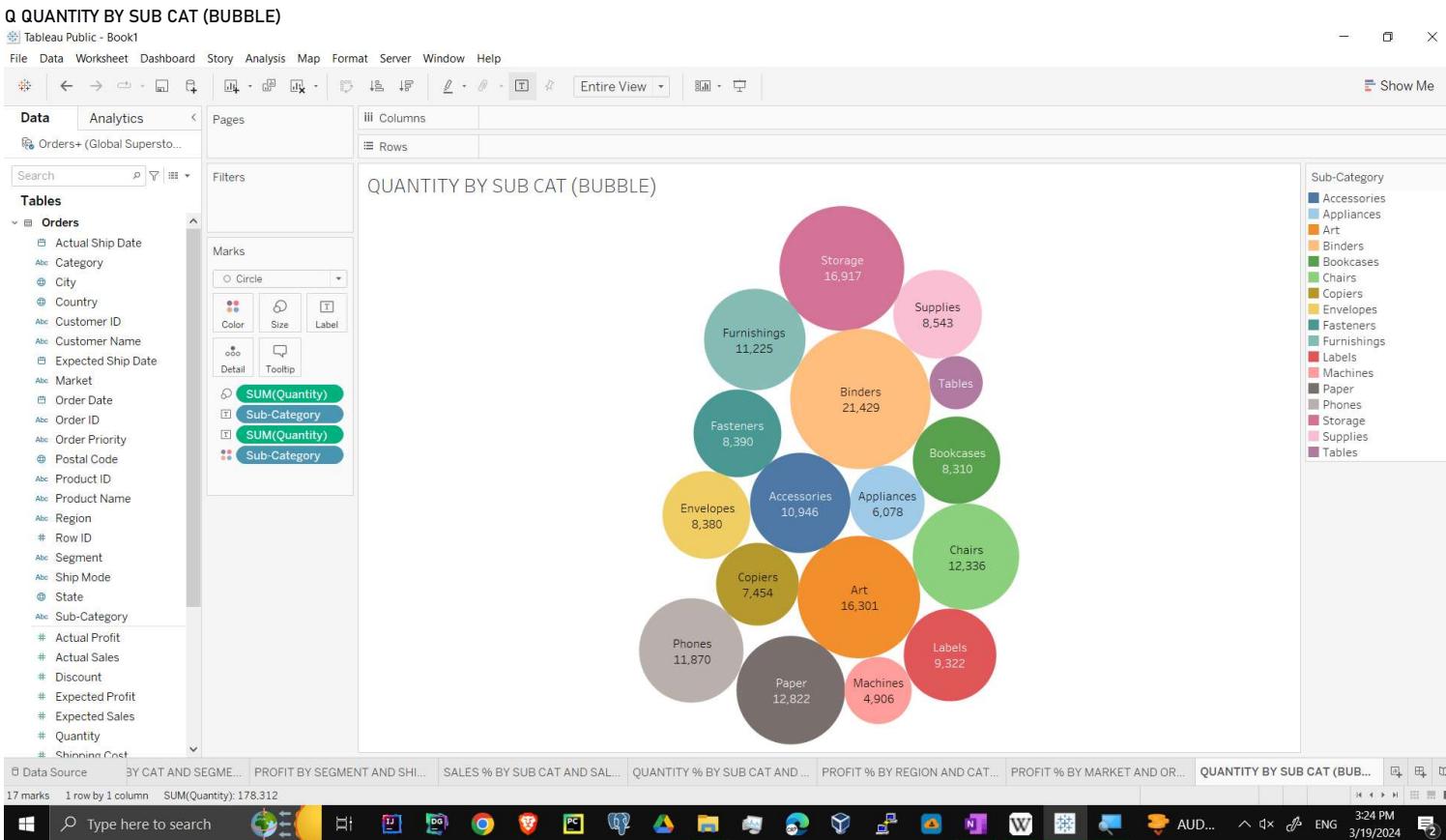
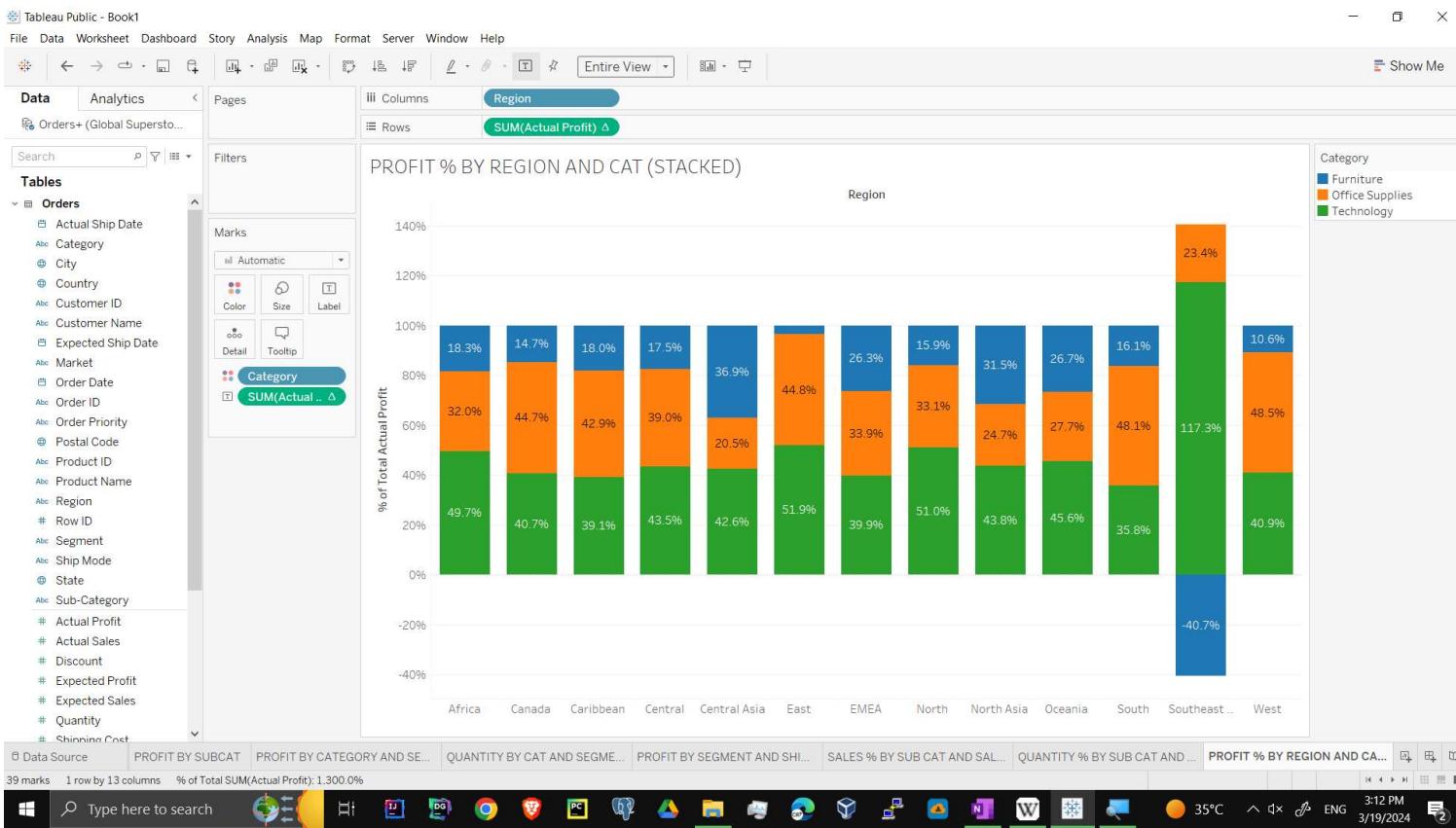
Q1 QUANTITY BY CAT AND SEGMENT (SIDE BY SIDE)  
 Q2 PROFIT BY SEGMENT AND SHIP MODE (SIDE BY SIDE)  
 Q3 SALES BY ORDER PRIORITY AND SEGMENT (SIDE BY SIDE)



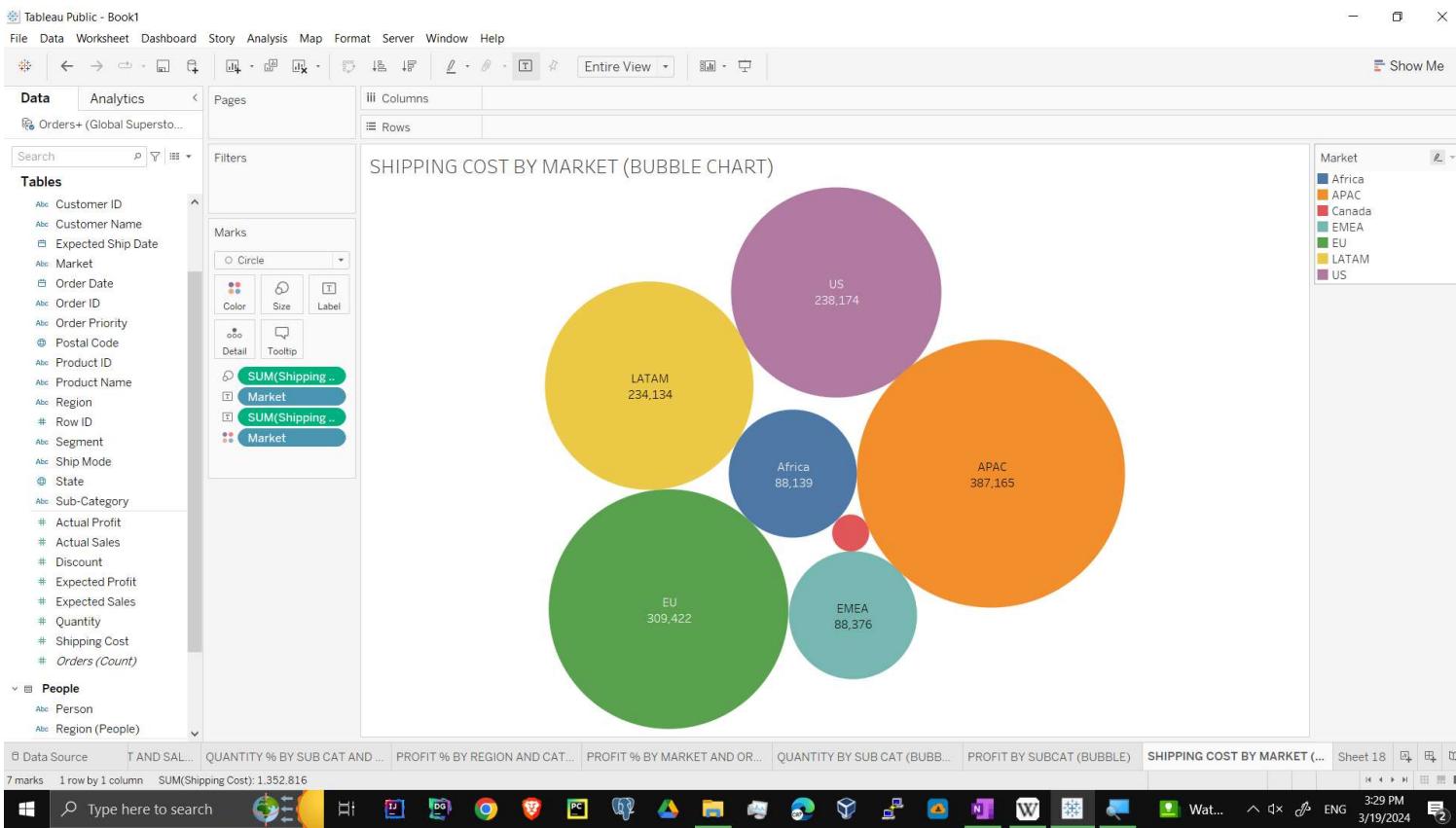
Q1 SALES % BY SUB CAT AND SALES (STACK)



Q PROFIT % BY REGION AND CAT (STACKED)



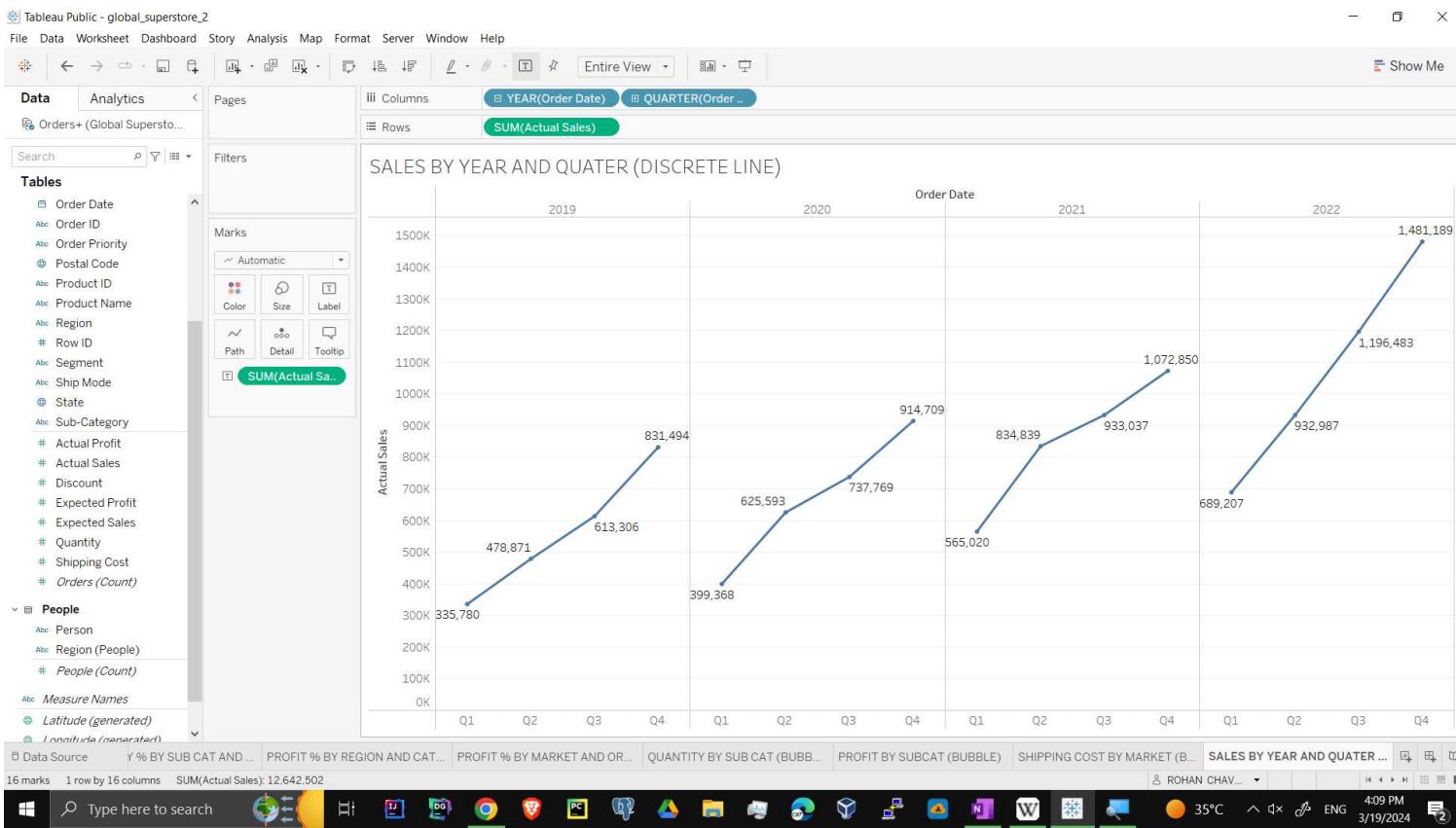
Q SHIPPING COST BY MARKET (BUBBLE CHART)



- Types OF LINE CHART:

- DISCRETE : When data part is considered as individual for showing data  
e.g. only month
- CONTINUOUS: When data part is combined with year for showing data  
e.g. month and year

Q SALES BY YEAR AND QUATER (DISCRETE LINE)



## - Comment

