Roll No: BU21CSCI0100121
Subject: Data Visualization Using Tableau Lab

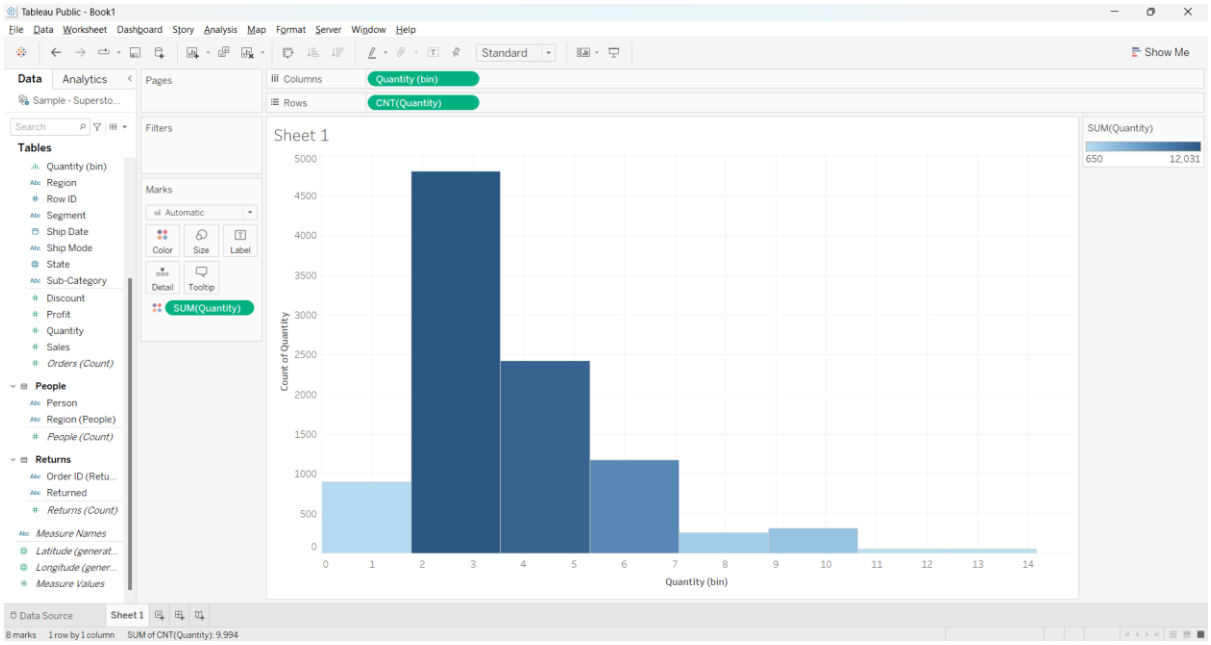
Experiment: 15

AIM:

To Demonstrate the Histogram, Motion Charts, Waterfall Charts.

1.Histogram:

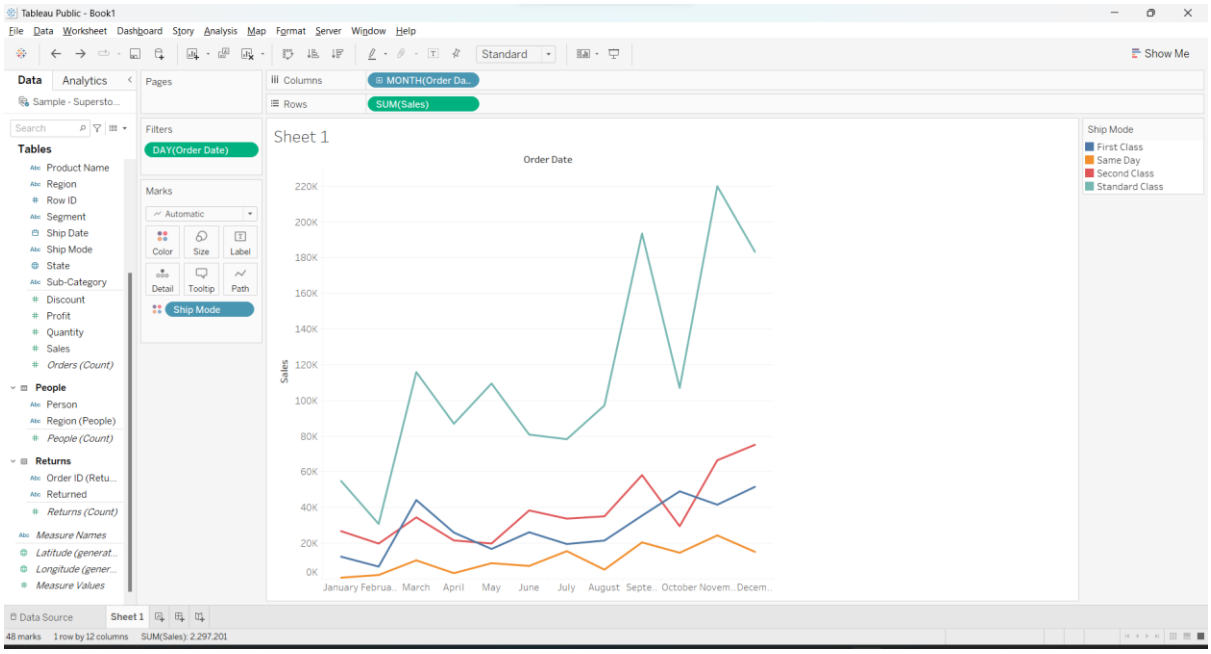
- To draw a histogram, we have to select a minimum one attribute by drag and drop then select the chart option as a histogram.
- Select the Quantity as column and row.
- Select the chart type histogram.



2.Motion Chart:

- we need a dimension field to add in our Columns section. From our sample dataset of Sample store data.

- we select a dimension field Order Date. Then we set our field value type to Month.
- Then, we add a measure field, Sales in the Rows section. As you can see, this creates a preliminary line chart on the screen.



3.waterfall Chart:

- select dimension; Sub-category and put it into the Columns section.
- Next, put a measure Profit in the Rows section.
- Then, change mark type to Gantt Bar. Select the *Gantt Bar* option from the drop-down list in Marks card.
- Next, right-click on the measure field, then select Create and then click on Calculated Field.
- Here, we enter *Profit* that is, negative of profit field values. Also, we named the new field as *"Waterfall sizing"*.
- Then add our field Profit into Color card and Waterfall sizing into Size card present in the Marks section.

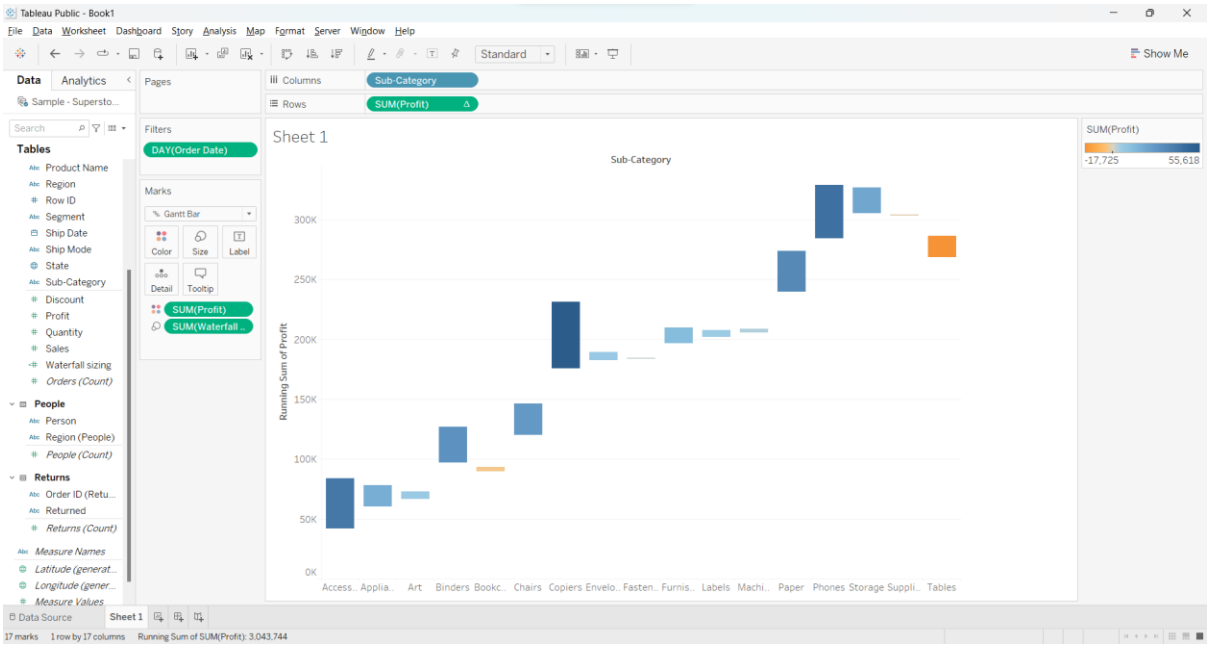


Tableau Public - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Pages
Columns
Sub-Category
Rows
SUM(Profit)
Sample - Superstо...
Search
Tables
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Discount
Profit
Quantity
Sales
Waterfall sizing
Orders (Count)
People
Person
Region (People)
People (Count)
Returns
Order ID (Retu...
Returned
Returns (Count)
Measure Names
Latitude (generat...
Longitude (gener...
Measure Values
Filters
DAY(Order Date)
Marks
Gantt Bar
Color
Size
Label
Detail
Tooltip
SUM(Profit)
SUM(Waterfall ...
Sheet 1
Sub-Category
Running Sum of Profit
300K
250K
200K
150K
100K
50K
0K
Access..
Applia..
Art
Binders
Bookc..
Chairs
Copiers
Envelo..
Fasten..
Furnis..
Labels
Machi..
Paper
Phones
Storage
Suppli..
Tables
SUM(Profit)
-17,725
55,618
Data Source
Sheet 1
17 marks
1 row by 17 columns
Running Sum of SUM(Profit): 3,043,744