

EX NO: 07

DATE : 02.08.24

WATERFALL

AIM:

To write a Data Visualization program using waterfall chart

PROCEDURE:

STEP1: Open tableau, click file - "New" in workbook. A newsheet will be open.

STEP2: In the newsheet click "Connect to data" and get the "Select MS excel tab".

STEP3: From the open tab select the Sample Super Store dataset. Now, the datasource page will be open.

STEP4: Drag the order table in the datasource page.

STEP5: Drag Sub-category into the column shelf and drag the Quantity into the row shelf.

STEP6: Create, new calculated field as (-Quantity)

STEP7: Right click on the ~~Quantity~~ field present in the measure shelf.

STEP8: Choose to "Create" option from the list and then select the "Calculated field" option.

STEP9: It open calculation field window, then enter the name of calculate field such as (-quantity)

STEP10: Write the expression "[Quantity]" in the Calculation area click on the OK button.

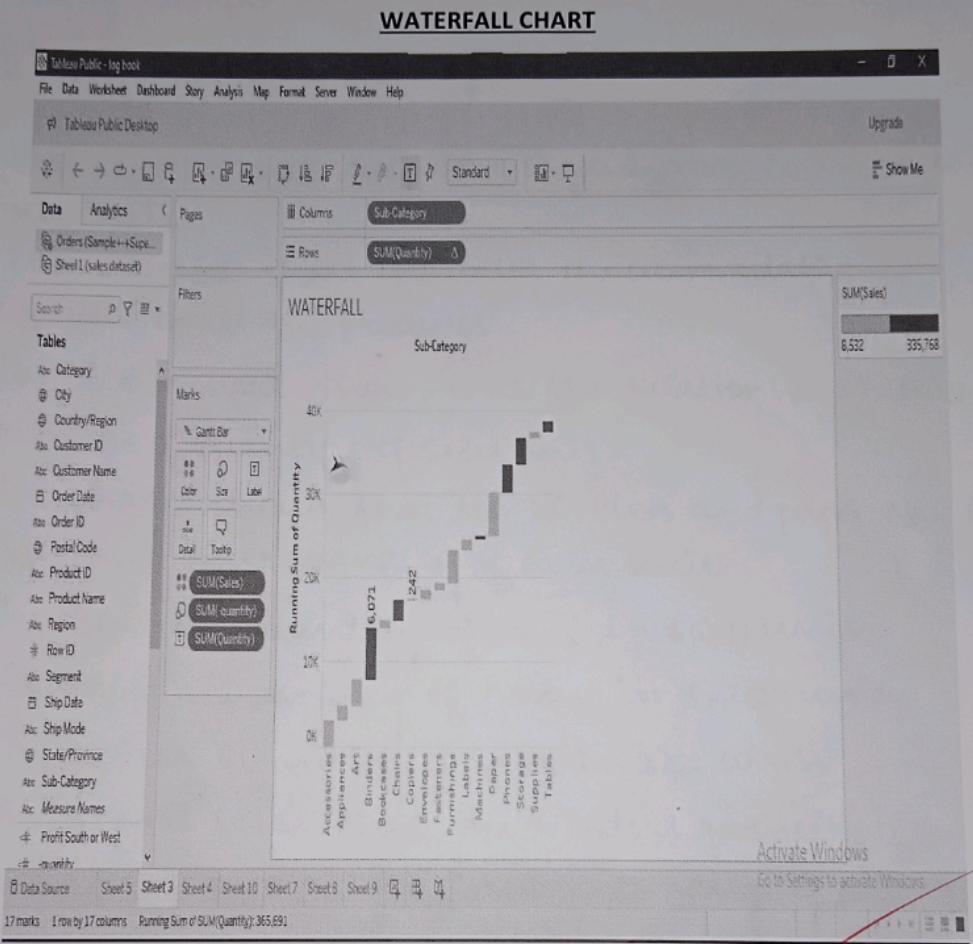
STEP 11: Drag the - quantity into the size pane

STEP 12: Select the Quick Table Calculation from the list

STEP 13: Then click on the Running Total option.

STEP 14: Click on the drop down option in the mark pane. Select the Gantt chart option from the list

STEP 15: Now, a waterfall chart will be created in a Newsheet.



ANALYSIS REPORT:

- Using Sample store dataset , the analysis report for finding the quantity of sales units for the products
- This report must help the organization to increase more sales
- This waterfall chart indicates the cumulative frequency to all the products .
- The above chart shows that the relationship between Products of Quantity of Sales unit .
- The chart shows that the binders and paper has the high and low quantity of sales unit .
- The Binder's Quantity of Sales in 6071 units
- The Paper's Quantity of Sales in 5,207 units
- The copiers Quantity of Sales in 242 units
- The report tells that the binders quantity of sales than revealing a significant wide range of profit margin for Sample super store.

RESULT:

✓ Thus the data visualization program that working with waterfall is executed successfully.

EX NO: 08

DATE : 07-08-24

AGGREGATE FUNCTION

DATA VISUALIZATION
PROGRAMMING WITH AGGREGATE FUNCTIONS

AIM:

To write a Data Visualization program using Aggregate function.

PROCEDURE:

STEP 1:- Open tableau, click file - "New" in workbook a newsheet will be open.

STEP 2:- In the Newsheet, click "connect to data" and get the "Select MS Excel tab".

STEP 3:- From the open tab, select the sample super store dataset. Now the datasource page will be open.

STEP 4:- Drag the order table in the datasource page drag the segment into the column shelf and region into rowshelf

STEP 5:- Create, new calculated field as [Aggregate Function]

STEP 6:- Go to Analysis, select the create calculated field option

STEP 7:- It opens the calculated field window then Enter the name of calculated field such as [Aggregate function]

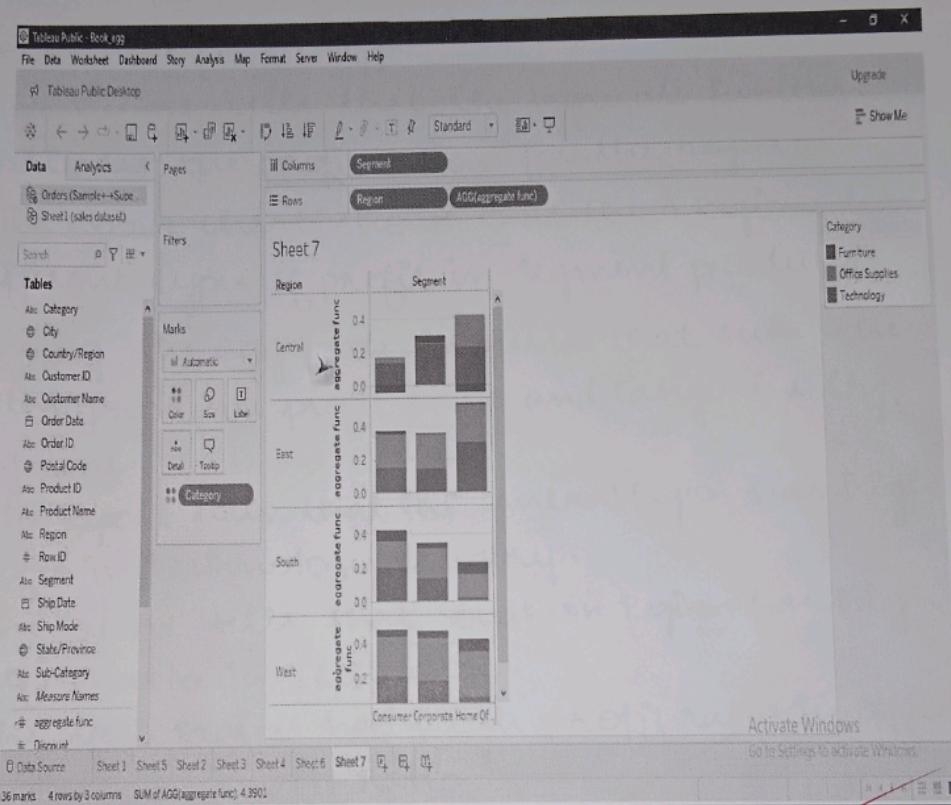
STEP 8:- Apply the formula as $\text{IIF}[\text{SUM}[\text{Sales}] != 0, \text{Sum}[\text{Profit}], \text{SUM}[\text{Sales}], 0]$

STEP 9:- Now, an aggregate field is created. Drag the Aggregate function into the rowshelf.

STEP 10:- Drag the category into the color pane

STEP 11:- Now, an aggregate function will be created in a Newsheet.

WORKING WITH AGGREGATE FUNCTION



ANALYSIS REPORT:-

- Using Sample super store dataset the analysis report for finding the region's profit ratio.
- This report must help the sample super store to increase the profit.
- The report tells that the Aggregate function indicates the profit ration for the region.
- The Above chart shows that the A Regions has different types of profit in Segment products.
- Using the aggregate formula that sum the total products profit ratio and categorize by Segment.
- The Report tells that the Central Region has high Profit in Technology category.
- The Report tells that Southern Region has high Profit ratio in Technology.
- The West Region has high profit ratio in office Supplies High profit ratio
 - Central Region : 0.2514
 - Southern Region : 0.2008
 - East Region : 0.2980
 - West Region : 0.2601

RESULT:-

✓ Thus the data visualization program that working with Aggregate Function is executed successfully.

Ex No : 10

DATE : 19.08.24

SYMBOL MAP

AIM:

To write a Data visualization program using symbol map.

PROCEDURE:

STEP1: Open tableau, click File - "New" in workbook.

A newsheet will be open.

STEP2: In the newsheet, click "connect to data" and get the "Select Ms excel tab".

STEP3: From the opentab, select the sample super store dataset. Now, the datasource page will be open.

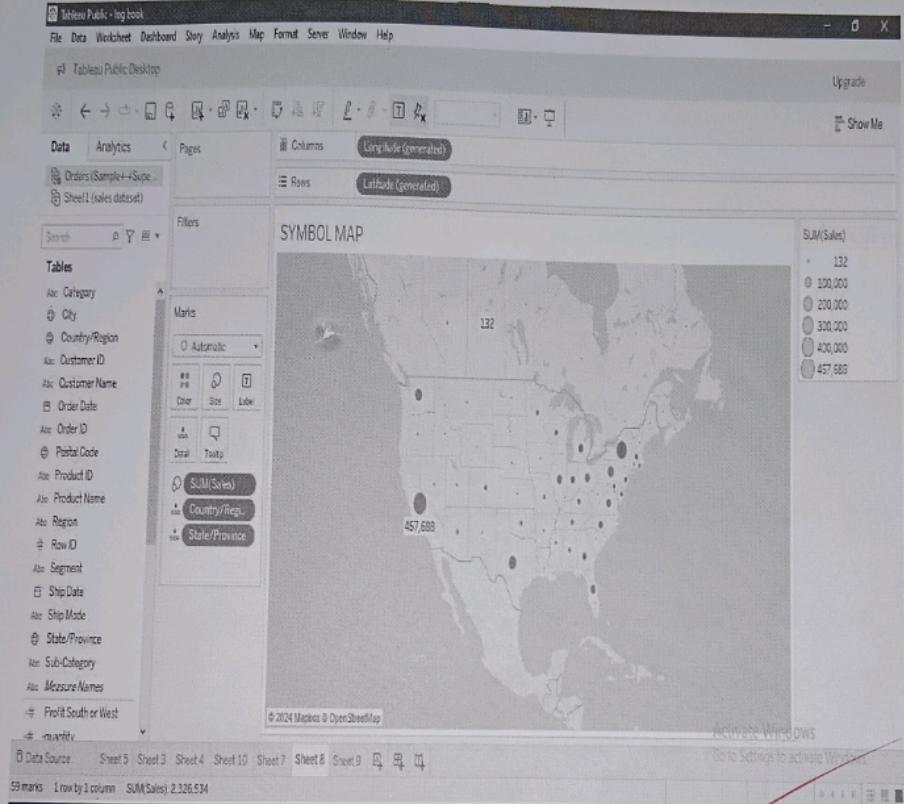
STEP4: Drag the order table in the datasource page.

STEP5: Drag the longitude into the column shelf and drag the latitude into the rowshelf.

STEP6: Double click the state and country. Then, drag profit into the size pane.

STEP7: Now, the symbol map will be created in a Newsheet.

CREATING SYMBOL MAPS



ANALYSIS REPORT:

- Using the sample super store, the analysis report for finding the profit of United State.
- The report tells that the symbol map indicates the profit of each state in United State.
- The report must help the sample super store to increase the profit.
- This report tells that the symbol map displaying the high profit and low profit by the size of the symbol
- The Above map shows that Every state has different range of profit.
- This report tells that California has the high profit as compared to other state.
- This report concludes that, In the United State. The California as the highest profit and Texas as the highest loss.

RESULT:

✓ Thus the data visualization program that working with symbol map is executed successfully.