

ASSIGNMENT 1

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- 1) Download tableau desktop & Mysql in your PC or laptop
- 2) Create a new schema in your Mysql workbench and upload your data
- 3) Connect your Mysql and Tableau
- 4) Create the below 5 charts/plots
 - Bar chart
 - Tree map
 - Heatmap
 - Pie chart
 - Horizontal bar chart

The screenshot displays the MySQL Workbench interface. The 'SQL Editor' window contains the following SQL query:

```
1 use sales_superstore_data;
2 select * from superstore;
```

The 'Result Grid' shows the following data:

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Product
1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gulte	Consumer	United States	Henderson	Kentucky	42400	South	FUR-BC
2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gulte	Consumer	United States	Henderson	Kentucky	42400	South	FUR-CO
3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darvin Van Huff	Corporate	United States	Los Angeles	California	90036	West	OFF-LA
4	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA
5	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	OFF-ST
6	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-FU
7	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AR
8	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH
9	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-EL
10	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AP
11	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-TA
12	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH
13	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-PA

The 'Output' window shows the following messages:

```
1 21:10:36 select * from superstore LIMIT 0, 1000
2 21:10:39 use sales_superstore_data
3 21:10:41 select * from superstore LIMIT 0, 1000
```

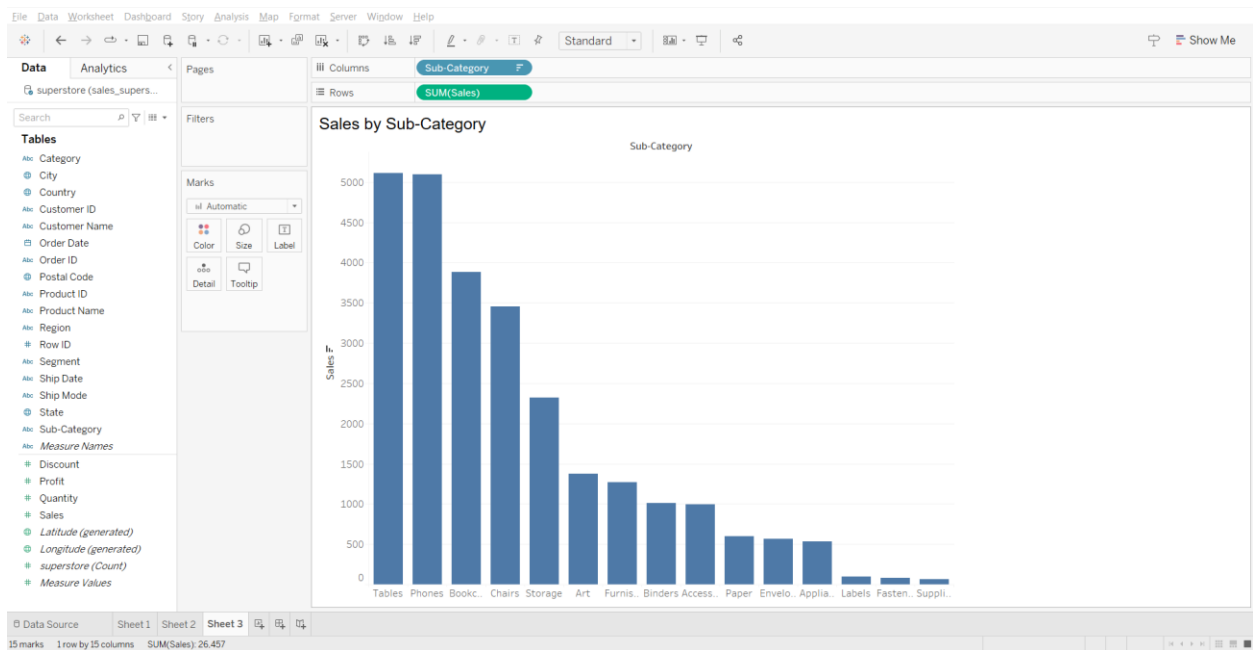
The 'Message' column shows the following details:

- Error Code: 1146. Table 'aggregate.superstore' doesn't exist
- 0 row(s) affected
- 138 row(s) returned

The 'Duration / Fetch' column shows the following values:

- 0.000 sec
- 0.000 sec
- 0.032 sec / 0.000 sec

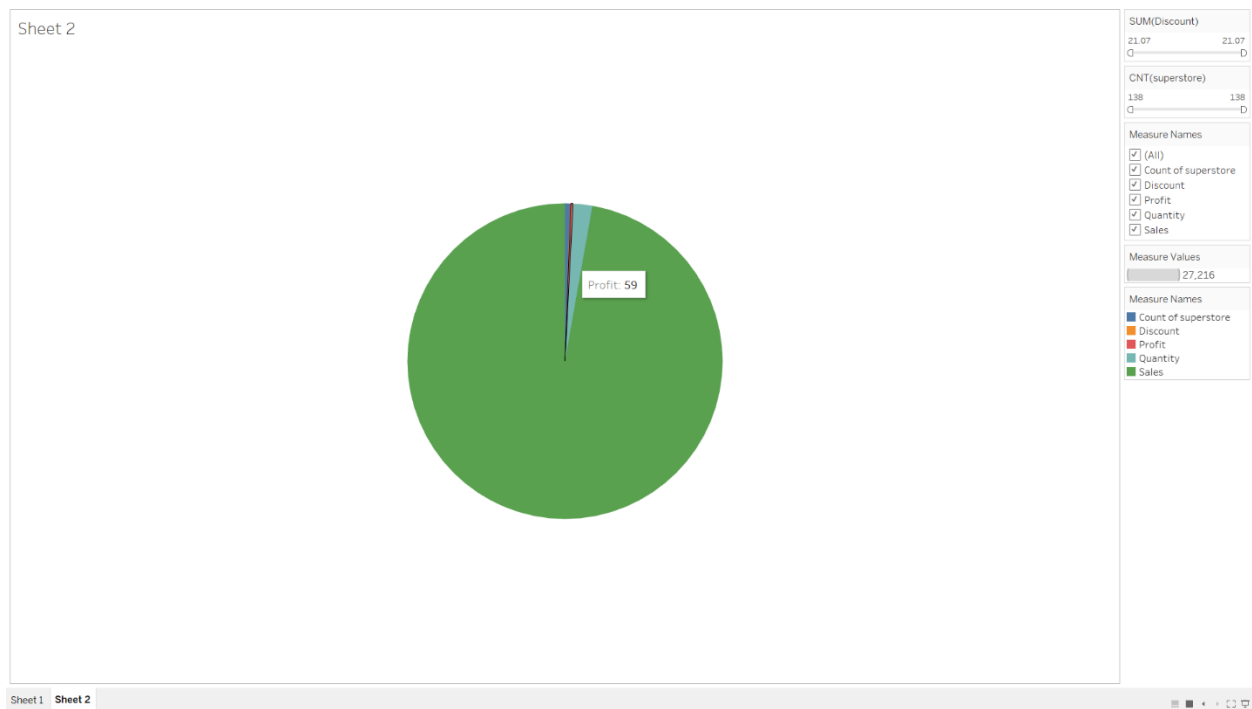
Bar chart



Sales by Sub-Category:

Plotting the total sales on the y-axis and the Sub-Category on the x-axis. This bar chart gives insights into which sub-categories generate the most sales, allowing you to identify the most popular product categories.

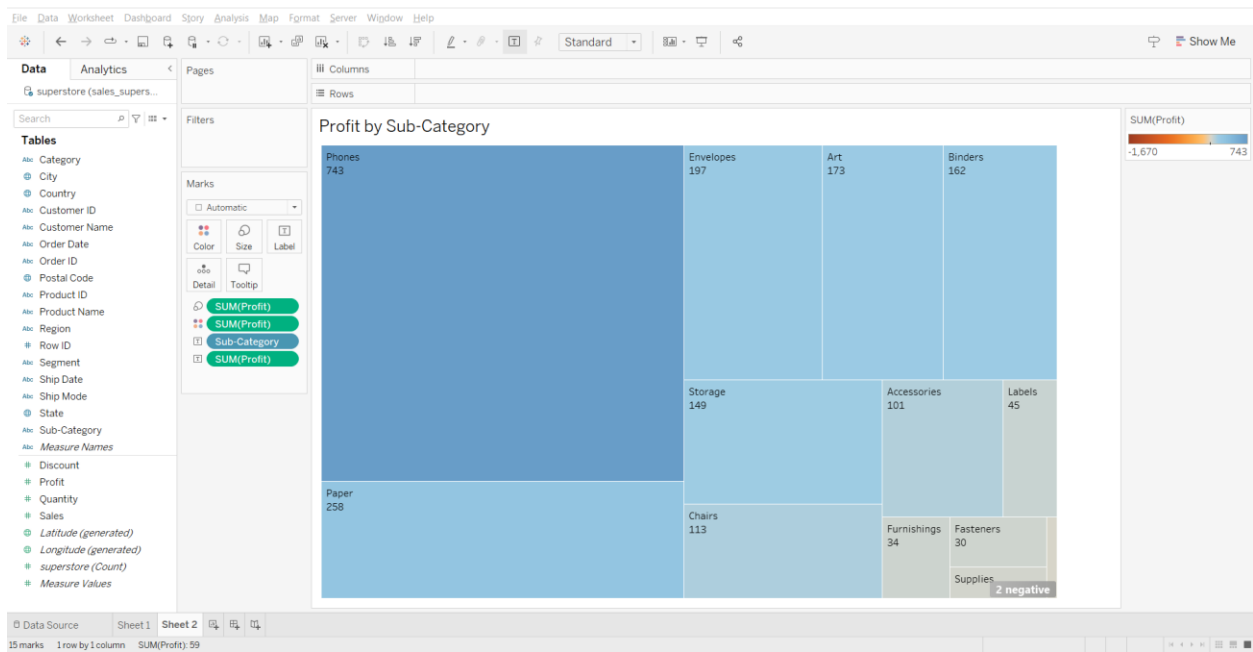
Pie chart



Proportion of Sales by Category:

Each slice represents the proportion of count of the superstore, discount, profit, sales contributed by each category, and quantity. This visualization allows you to see the relative distribution of these factors and identify which categories are more significant in terms of overall superstores.

Tree Map

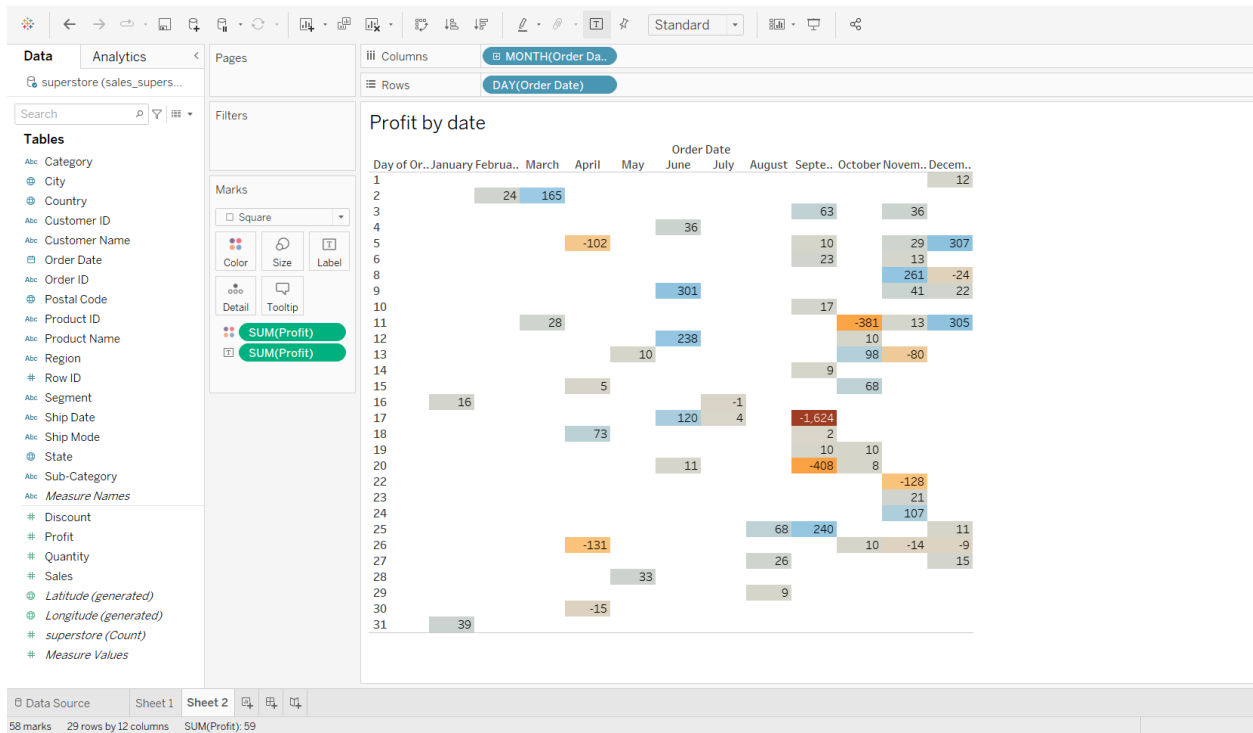


Profit by Category and Sub-Category:

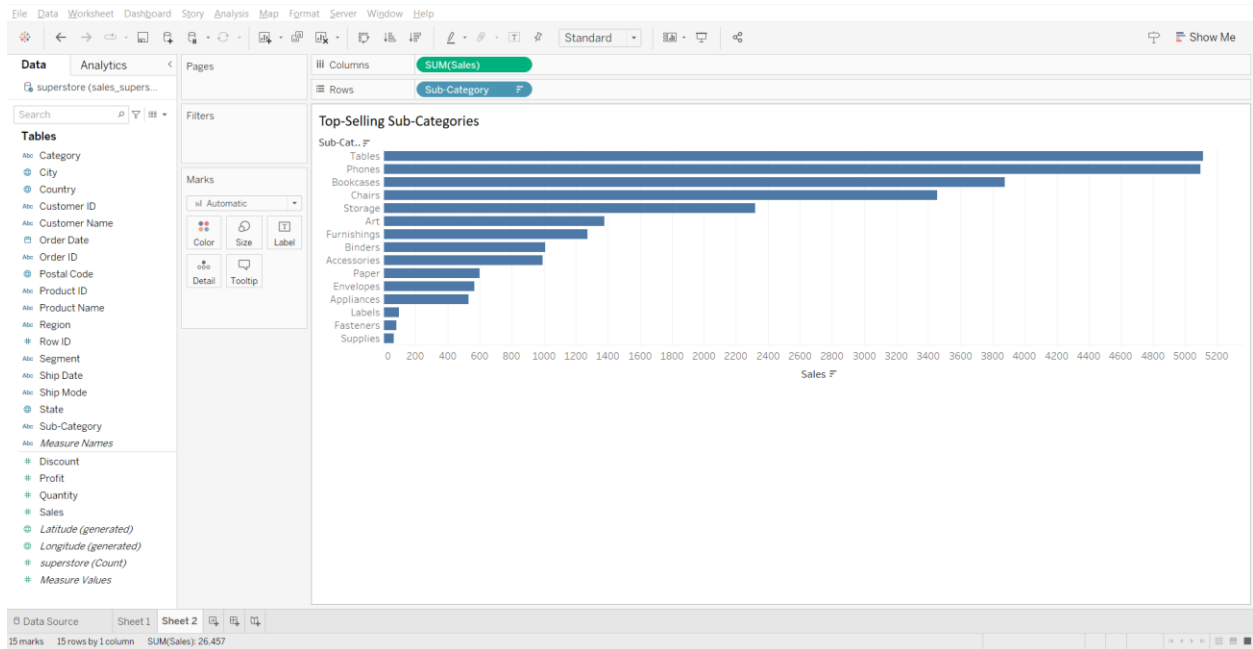
The treemap represents the profit generated by each category and sub-category. The size of the rectangles can represent the profit amount, allowing us to identify the most profitable areas of the business.

Profit by Date:

The heatmap represents the profit values over a period of time. The x-axis can represent the months, the y-axis can represent the days, and the color intensity can depict the profit amount. This analysis helps you identify which day the most profit was generated.



Horizontal bar chart



Top-Selling Sub-Categories:

The horizontal bar chart with the y-axis representing different sub-categories and the x-axis representing the total sales. This visualization identifies the top-selling categories and compares their sales performance.