

DATA ANALYTICS WITH TABLEAU

ASSIGNMENT-3

1. UPLOADING DATASET IN MYSQL & DELETING UNNECESSARY COLUMNS:

The screenshot shows the MySQL Workbench interface. The 'Query 1' window contains the following SQL code:

```

1 use supermarket;
2 select * from supermarket;
3
4 alter table supermarket
5 drop column 'Customer type';

```

The 'Result Grid' displays the following data:

| Invoice ID | Branch | City | Customer type | Gender | Product line | Unit price | Quantity | Tax 5% | Total | Date | Time | Payment | cogs | gross margin percentage | gross income | Rating |
|------------|-------------|------|---------------|----------|--------------|------------|-------------|--------|-------------|---------|------|---------|------|-------------------------|--------------|--------|
| 74.69 | beauty | 7 | 26.1415 | 548.9715 | 1/5/2019 | 13:08 | Ewallet | 522.83 | 4.761904762 | 26.1415 | 9.1 | | | | | |
| 15.28 | accessories | 5 | 3.82 | 80.22 | 3/8/2019 | 10:29 | Cash | 76.4 | 4.761904762 | 3.82 | 9.6 | | | | | |
| 46.33 | lifestyle | 7 | 16.2155 | 340.5255 | 3/3/2019 | 13:23 | Credit card | 324.31 | 4.761904762 | 16.2155 | 7.4 | | | | | |
| 58.22 | beauty | 8 | 23.288 | 489.048 | 1/27/2019 | 20:33 | Ewallet | 465.76 | 4.761904762 | 23.288 | 8.4 | | | | | |
| 64.71 | beauty | 7 | 23.288 | 489.048 | 1/27/2019 | 20:33 | Ewallet | 465.76 | 4.761904762 | 23.288 | 8.4 | | | | | |

The 'Output' window shows the 'Action Output' for the queries:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|--|-----------------------|
| 1 | 11:21:45 | use supermarket | 0 row(s) affected | 0.000 sec |
| 2 | 11:21:45 | select * from supermarket LIMIT 0, 1000 | 1000 row(s) returned | 0.000 sec / 0.016 sec |
| 3 | 11:21:45 | alter table supermarket drop column 'Customer type' | 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 | 0.031 sec |
| 4 | 11:21:49 | use supermarket | 0 row(s) affected | 0.000 sec |
| 5 | 11:21:49 | select * from supermarket LIMIT 0, 1000 | 1000 row(s) returned | 0.000 sec / 0.000 sec |

2. LINKING TABLEAU WITH MY SQL:

The screenshot shows the Tableau interface. The 'Columns' shelf is populated with the following fields from the 'supermarket' table:

- Invoice ID
- Branch
- City
- Customer type
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time
- Payment
- cogs

Tableau - Book1

File Data Server Window Help

Connections [Add](#)

localhost
MySQL

Database
supermarket

Table
supermarket
New Custom SQL
New Union
New Table Extension

supermarket (supermarket)

Connection
☒ Live ☐ Extract

Filters
0 [Add](#)

Need more data?
Drag tables here to relate them. [Learn more](#)

supermarket 16 fields 1000 rows 100 rows

Name
supermarket

Fields

| Type | Field Name | Physical Table | Remote Field... |
|------|------------|----------------|-----------------|
| ABC | Invoice ID | supermarket | Invoice ID |

| ABC | supermarket | ABC | supermarket | ABC | supermarket | ABC | supermarket | # | supermarket |
|-------------|-------------|-----------|-------------|------------------------|-------------|-----|-------------|---|-------------|
| Invoice ID | Branch | City | Gender | Product line | Unit price | | | | |
| 750-67-8428 | A | Yangon | Female | Health and beauty | 74.6900 | | | | |
| 226-31-3081 | C | Naypyitaw | Female | Electronic accessories | 15.2800 | | | | |
| 631-41-3108 | A | Yangon | Male | Home and lifestyle | 46.3300 | | | | |
| 123-19-1176 | A | Yangon | Male | Health and beauty | 58.2200 | | | | |
| 373-73-7910 | A | Yangon | Male | Sports and travel | 86.3100 | | | | |

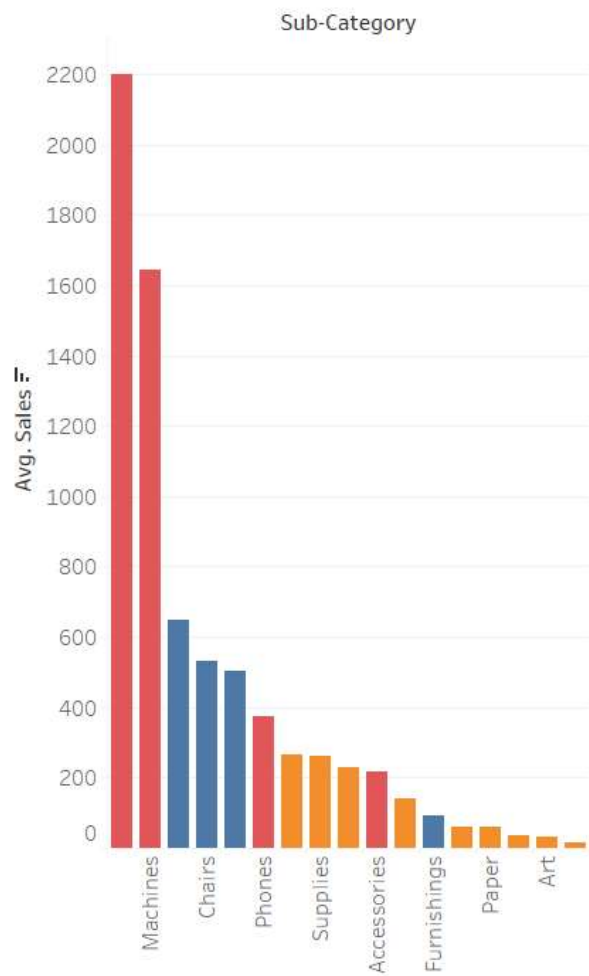
Go to Worksheet

Data Source Sheet1

EXPLORATION AND VISUALIZATION:

1. BAR CHART:

BAR CHART



Category

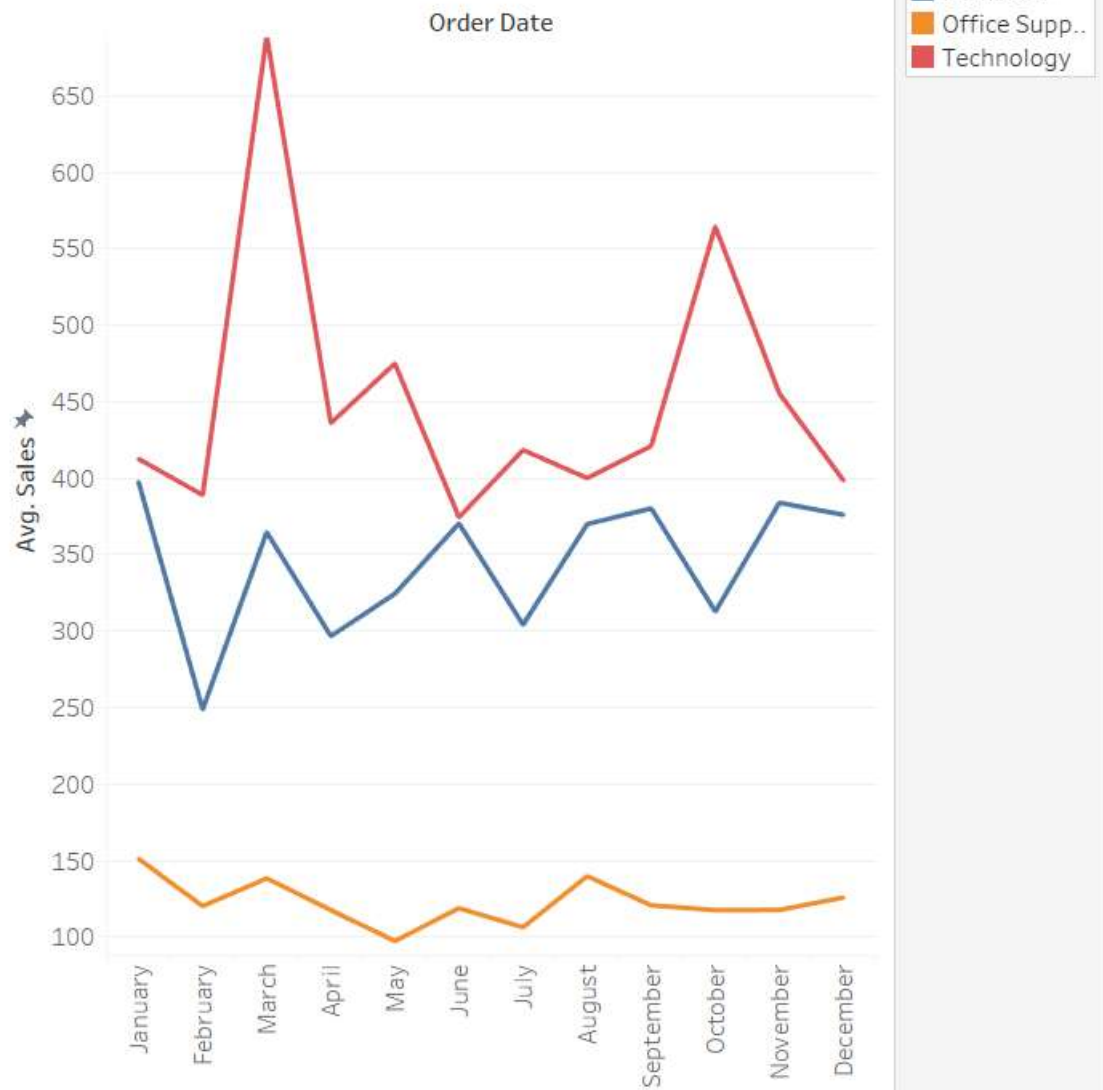
Furniture

Office Supp..

Technology

2. LINE CHART

LINE CHART



GRAM

PIE CHART

Sheet 5

Sheet 6

BUBBLE CHART

box model

tree map

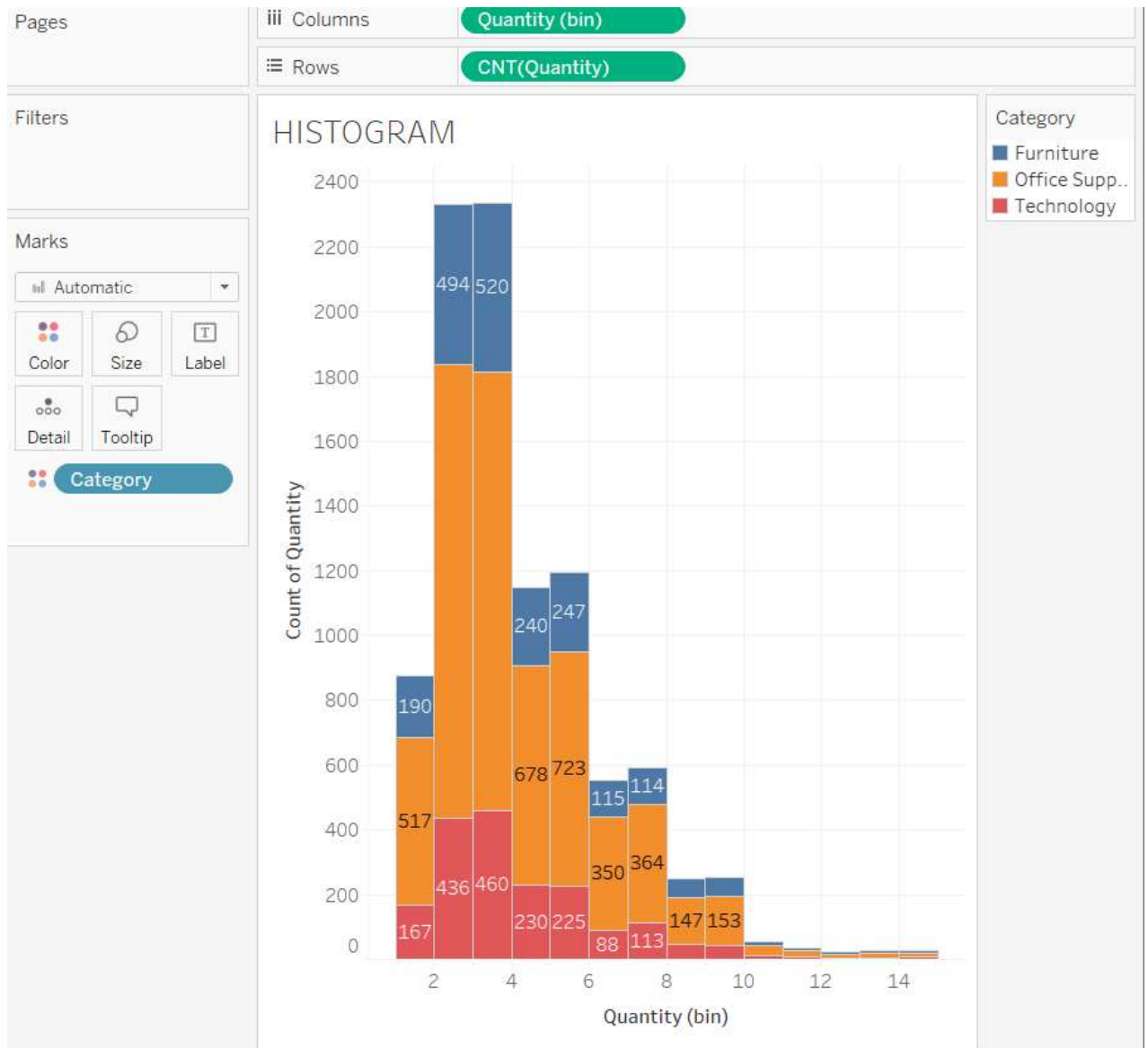
r

+

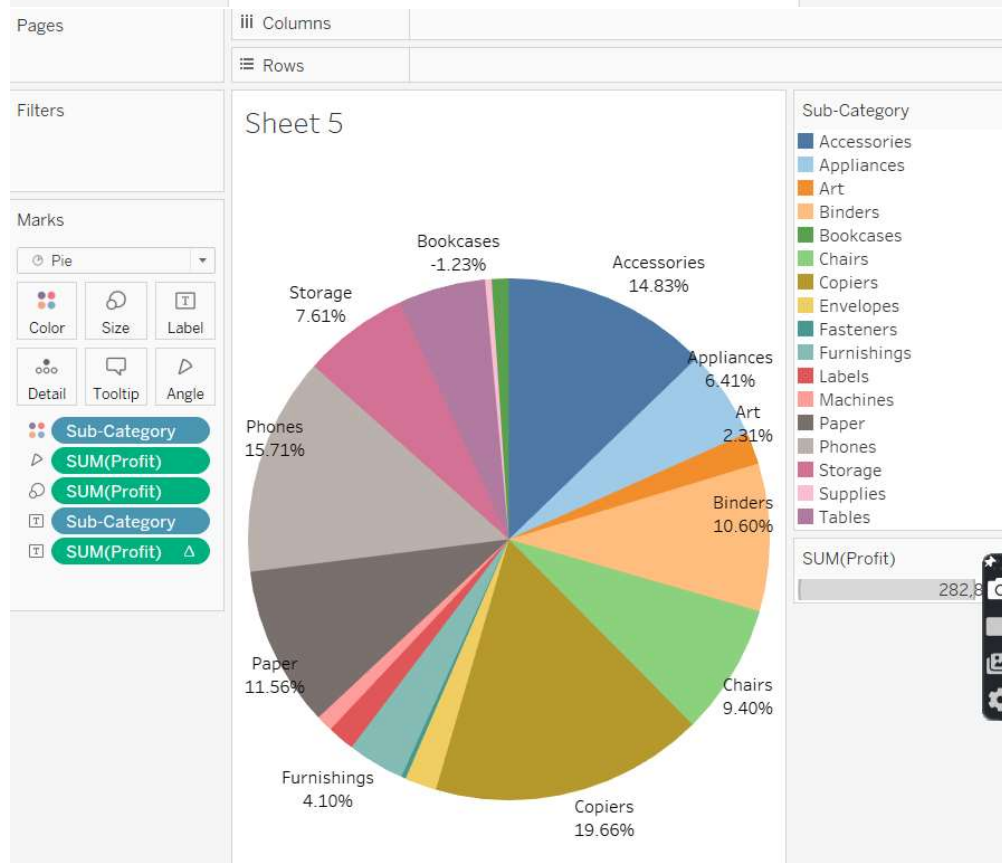
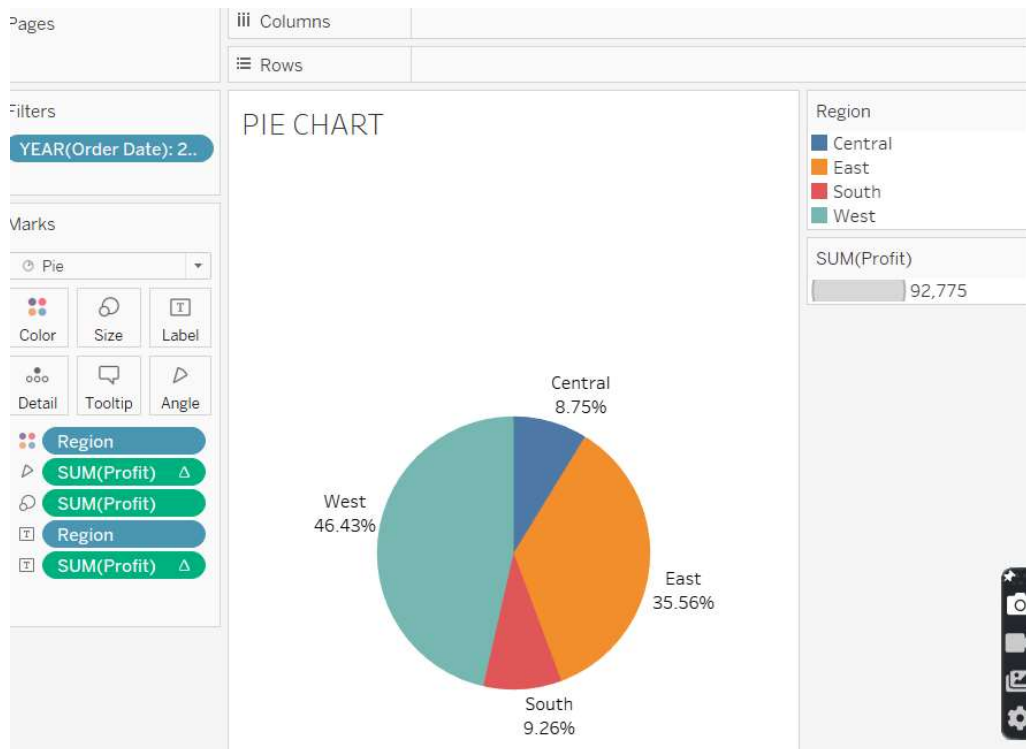
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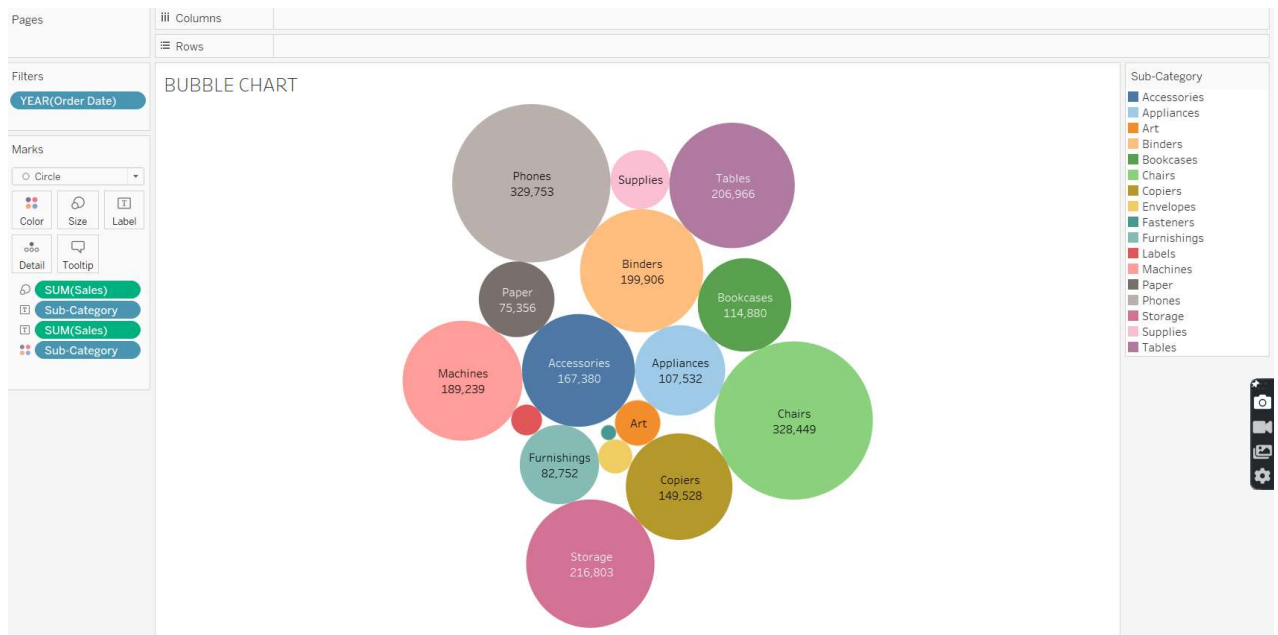
3. HISTOGRAM



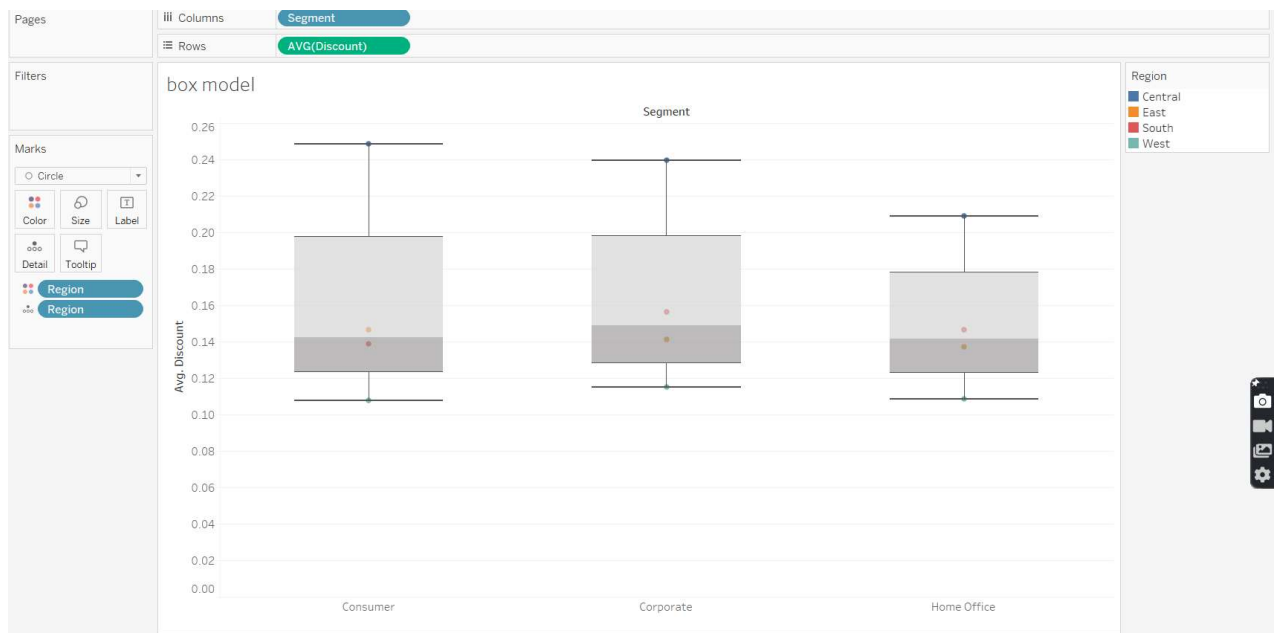
4. PIE CHART



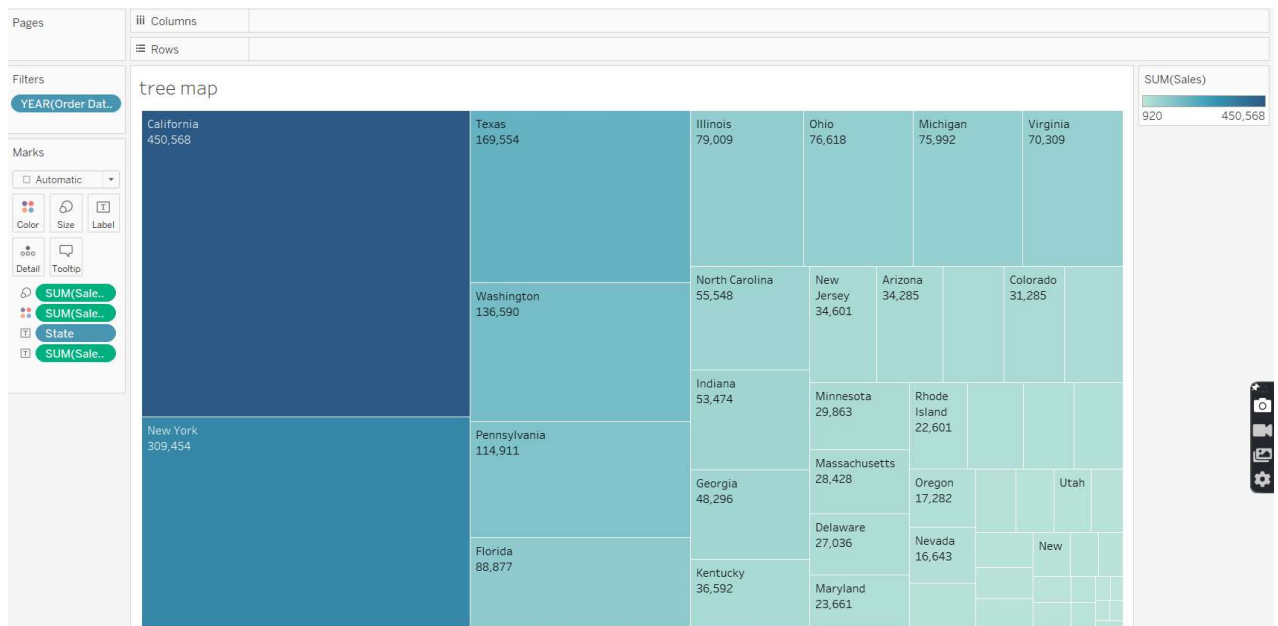
5. BUBBLE CHART



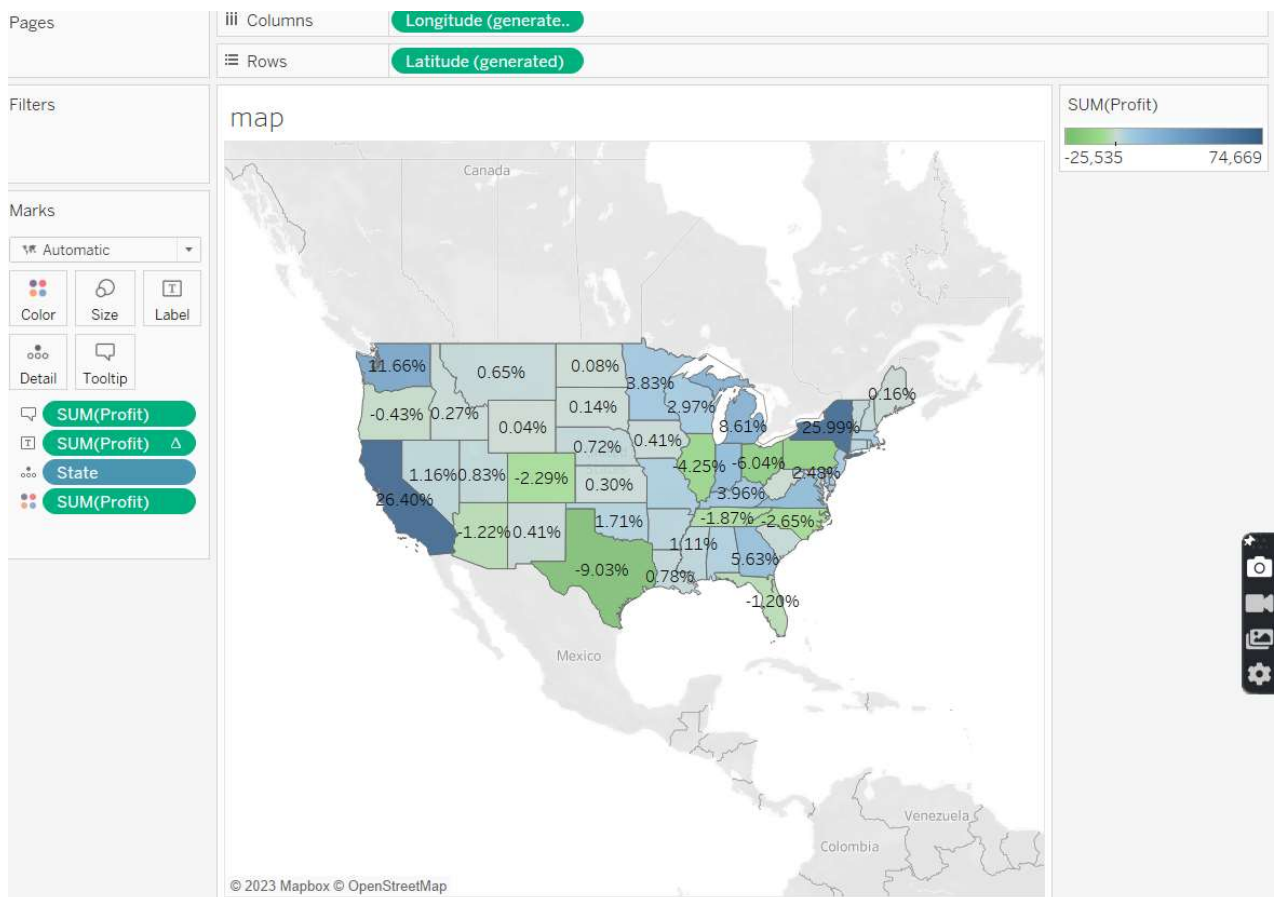
6. BOX MODEL



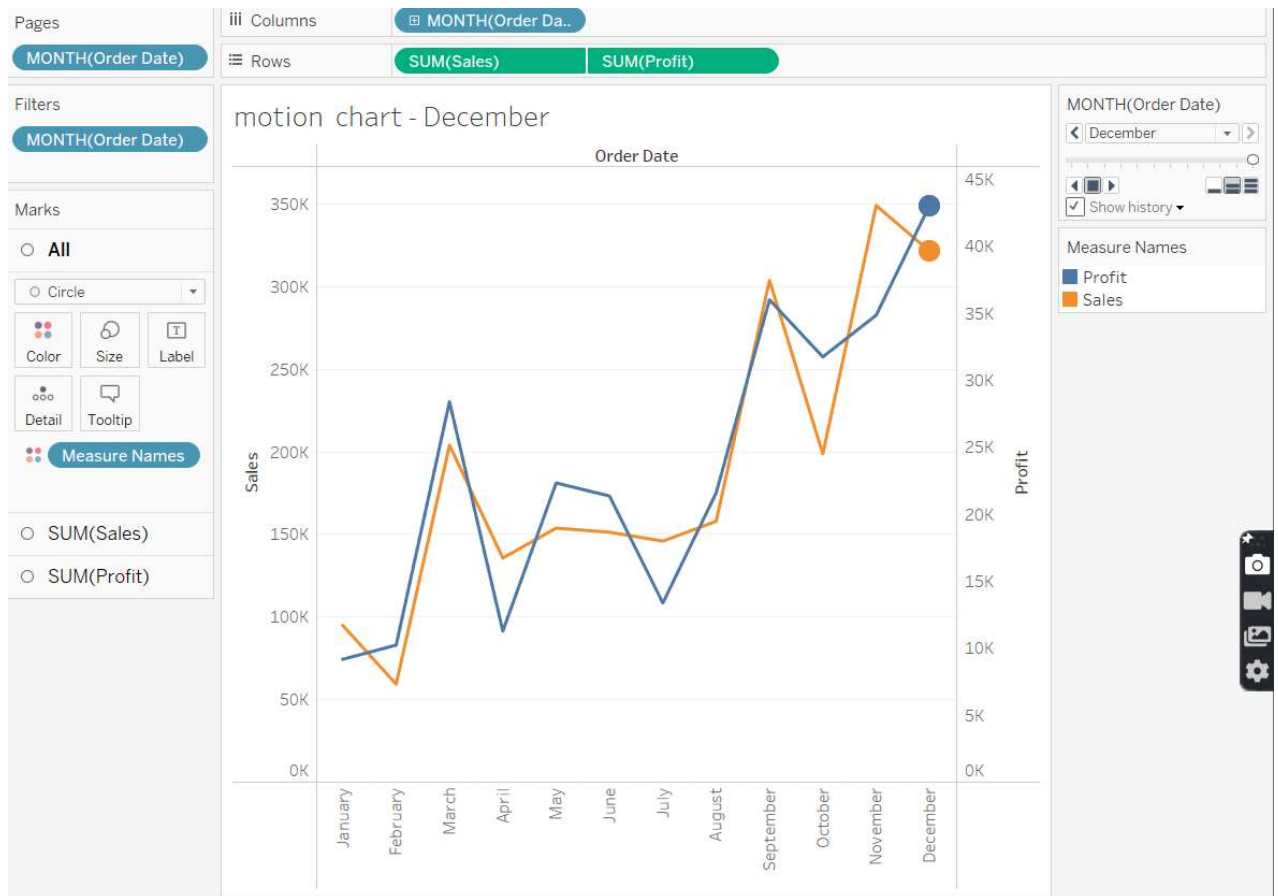
7. TREE MAP



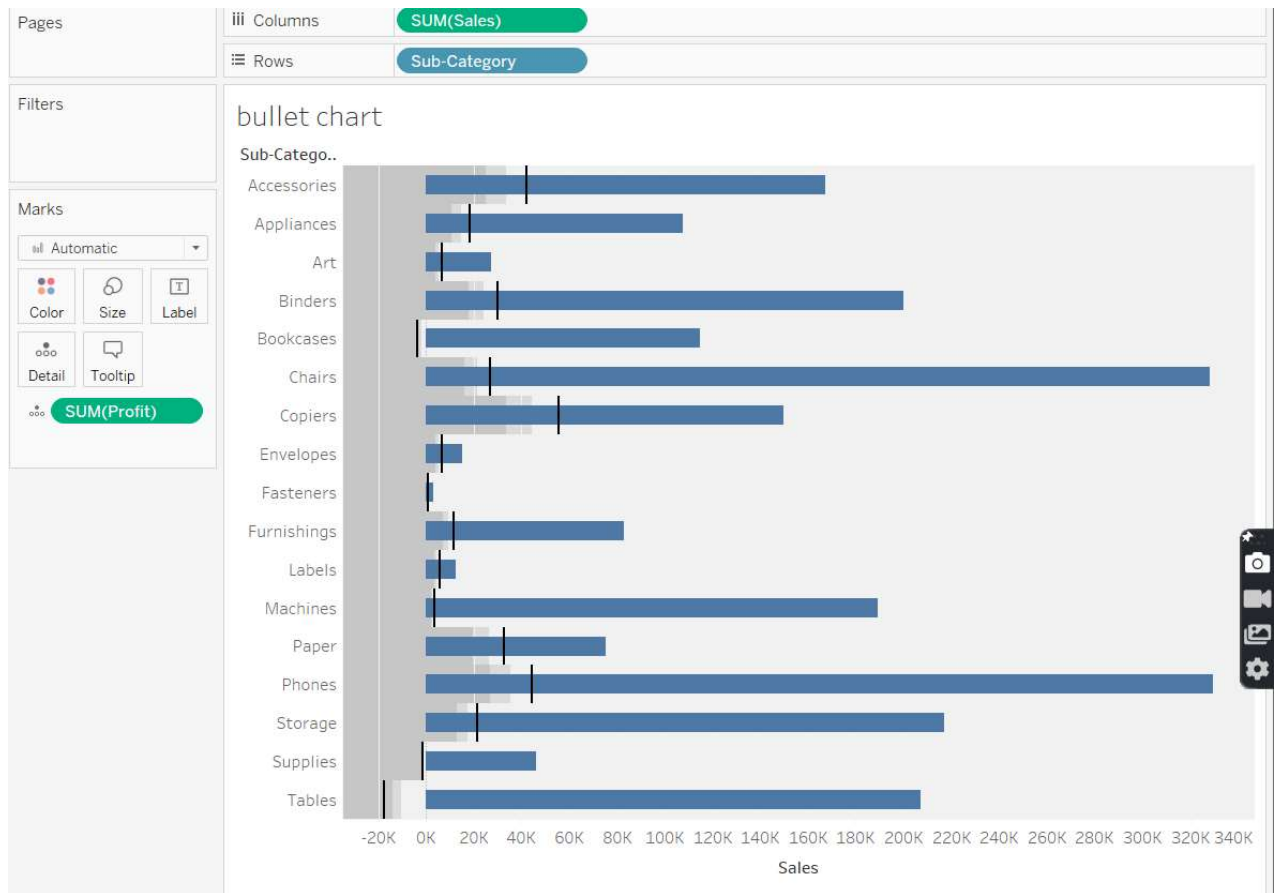
8. MAP



9. MOTION CHART



10. BULLET CHART



11. SCATTER CHART

