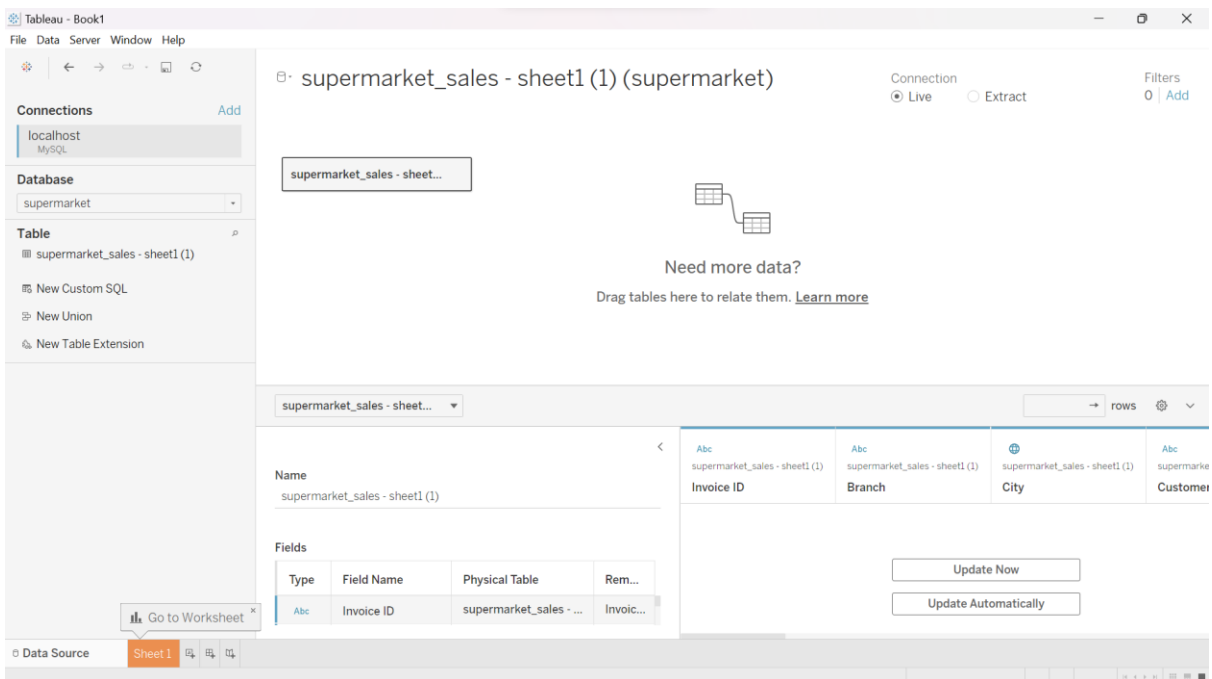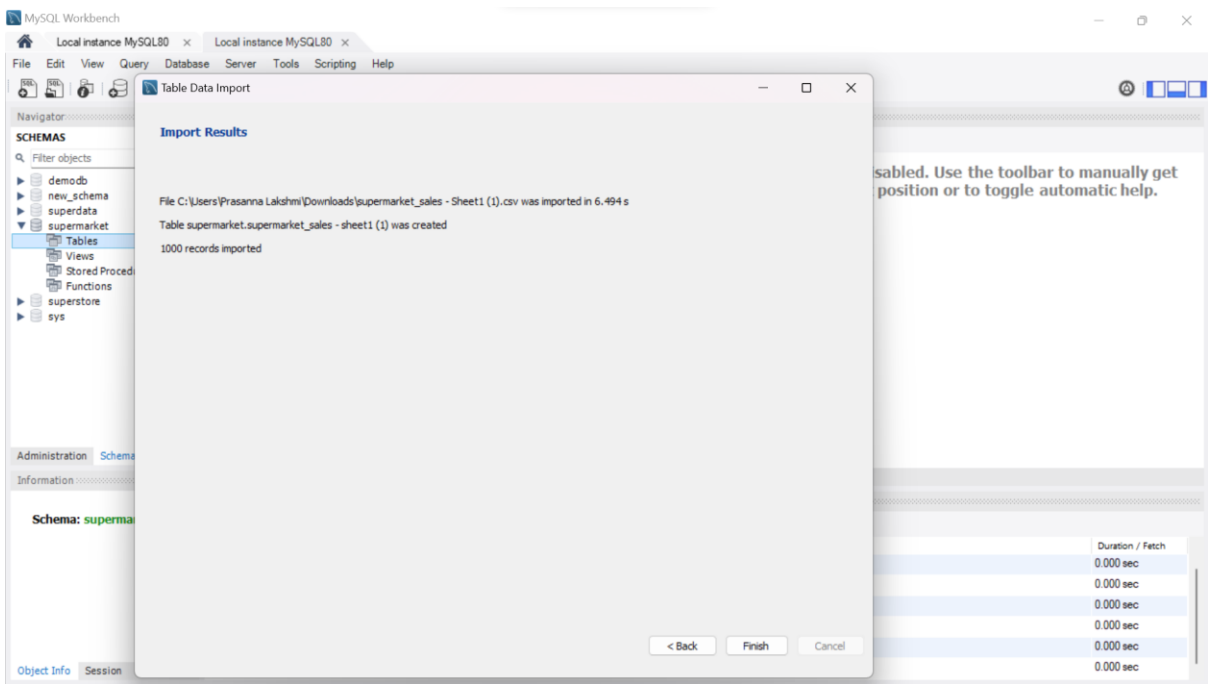21BPS1538

RAVURI PRASANNA LAKSHMI

MySQL Workbench

Local instance MySQL80 ×   Local instance MySQL80 (sup... ×

File Edit View Query Database Server Tools Scripting Help

Navigator   SCHEMAS

Query 1   Limit to 1000 rows

```
1 •  use supermarket;
2 •  select * from marketdata;
3
```

SQL Additions

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

SCHEMAS
- Stored Procedures
- Functions
- supermarket
  - Tables
    - marketdata
      - Columns
        - Invoice ID
        - Branch
        - City
        - Customer typ
        - Gender
        - Product line
        - Unit price
        - Quantity
        - Tax 5%
        - Total
        - Date

Administration   Schemas

Information

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	1/5/2
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	3/8/2
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	3/3/2
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	1/27/
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	2/8/2

Result Grid

Form Editor

Navigator   SCHEMAS

Q Filter objects

Query 1 ×

```
1 •  use supermarket;
2 •  select * from marketdata;
3 •  alter table marketdata add revenue int;
```

- cogs
- gross margin
- gross income
- Rating
- revenue

Navigator   SCHEMAS

Q Filter objects

Query 1 ×

Limit to 1000 rows

```
1 •  use supermarket;
2 •  select sum(Total) as TotalSales, avg(Rating) as AvgRating
3    from marketdata;
4
5
6
```

- supermarket
  - Tables
    - marketdata
      - Columns
        - Invoice ID
        - Branch
        - City
        - Customer typ
        - Gender
        - Product line
        - Unit price
        - Quantity
        - Tax 5%
        - Total
        - Date
        - Time
        - Payment

Administration   Schemas

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TotalSales	AvgRating
322966.74900000007	6.972700000000003

```sql
select `Product line`, sum(Total) as TotalSales
from marketdata
group by `Product line`;
```

Product line	TotalSales
Health and beauty	49193.739000000016
Electronic accessories	54337.531500000005
Home and lifestyle	53861.91300000001
Sports and travel	55122.826499999996
Food and beverages	56144.844000000005
Fashion accessories	54305.895


```sql
select * from marketdata
order by Date ASC, Total DESC;
```

Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage	gross income	Rating
84.63	10	42.315	888.615	1/1/2019	11:36	Credit card	846.3	4.761904762	42.315	9
74.22	10	37.11	779.31	1/1/2019	14:42	Credit card	742.2	4.761904762	37.11	4.3
65.74	9	29.583	621.243	1/1/2019	13:55	Cash	591.66	4.761904762	29.583	7.7
74.71	6	22.413	470.673	1/1/2019	19:07	Cash	448.26	4.761904762	22.413	6.7
72.61	6	21.783	457.443	1/1/2019	10:39	Credit card	435.66	4.761904762	21.783	6.9
47.59	8	19.036	399.756	1/1/2019	14:47	Cash	380.72	4.761904762	19.036	5.7


```sql
ALTER TABLE marketdata
CHANGE COLUMN `Customer type` Customertype VARCHAR(20);
ALTER TABLE marketdata
CHANGE COLUMN `Product line` Productline VARCHAR(55);
```

Query 1

```sql
select Customertype, Gender, Total
from marketdata
where Total > (select avg(Total) from marketdata);
```

Result Grid

Customertype	Gender	Total
Member	Female	548.9715
Normal	Male	340.5255
Member	Male	489.048
Normal	Male	634.3785
Normal	Male	627.6165

Query 2

```sql
select Total - (Total * 0.05) as TotalAfterTax, (Total - COGS) as GrossIncome
from marketdata;
```

Result Grid

TotalAfterTax	GrossIncome
521.522925	26.14149999999995
76.209	3.819999999999993
323.499225	16.21550000000002
464.5956	23.28800000000001
602.659575	30.208500000000072

Query 3

```sql
select Customertype, Total,
  case
    when Total > 500 then 'High Expense'
    else 'Low Expense'
  end as expenditure
from marketdata;
```

Result Grid

Customertype	Total	expenditure
Member	548.9715	High Expense
Normal	80.22	Low Expense
Normal	340.5255	Low Expense
Member	489.048	Low Expense
Normal	634.3785	High Expense

Query 1

```sql
26
27 • SELECT YEAR(STR_TO_DATE(Date, '%m/%d/%Y')) AS Year,
28         MONTH(STR_TO_DATE(Date, '%m/%d/%Y')) AS Month,
29         SUM(Total) AS MonthlySales
30 FROM marketdata
31 GROUP BY Year, Month
32 ORDER BY Year, Month;
33
34
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Year	Month	MonthlySales
2019	1	116291.86800000005
2019	2	97219.37399999997
2019	3	109455.50700000004

Query 1

```sql
34 • SELECT Customertype,
35         DATEDIFF(NOW(), MAX(Date)) AS Recency,
36         COUNT(DISTINCT InvoiceID) AS Frequency,
37         SUM(Total) AS MonetaryValue
38 FROM marketdata
39 GROUP BY Customertype
40 ORDER BY Recency DESC, Frequency DESC, MonetaryValue DESC;
41
42
```
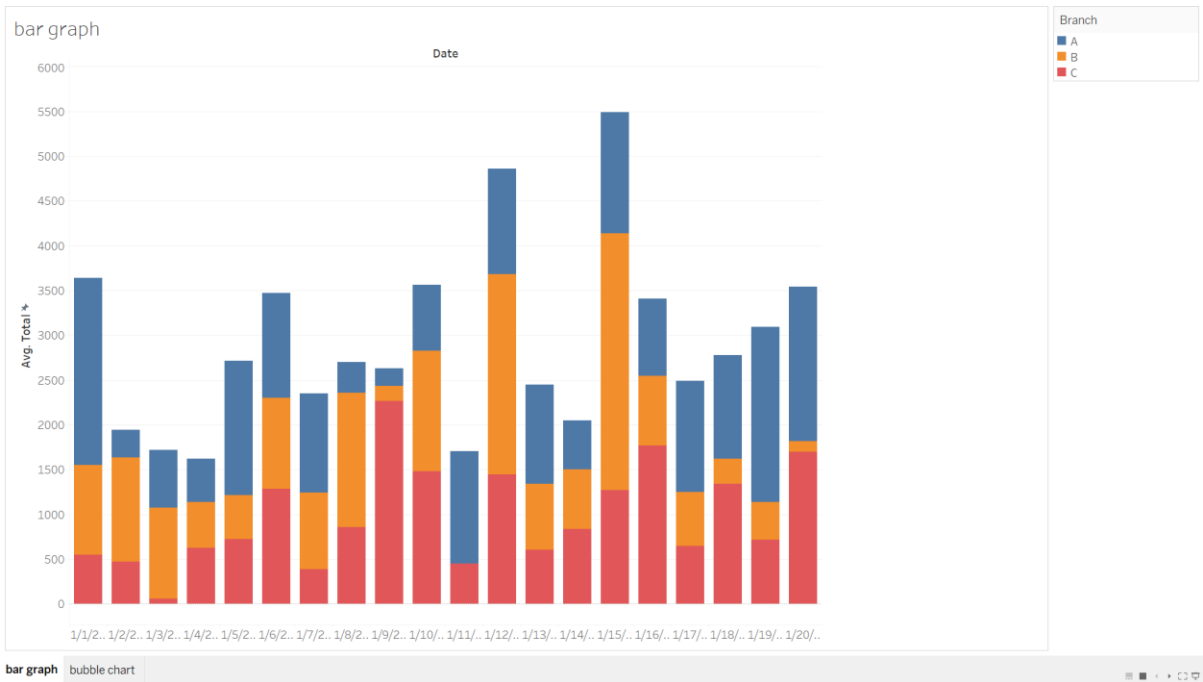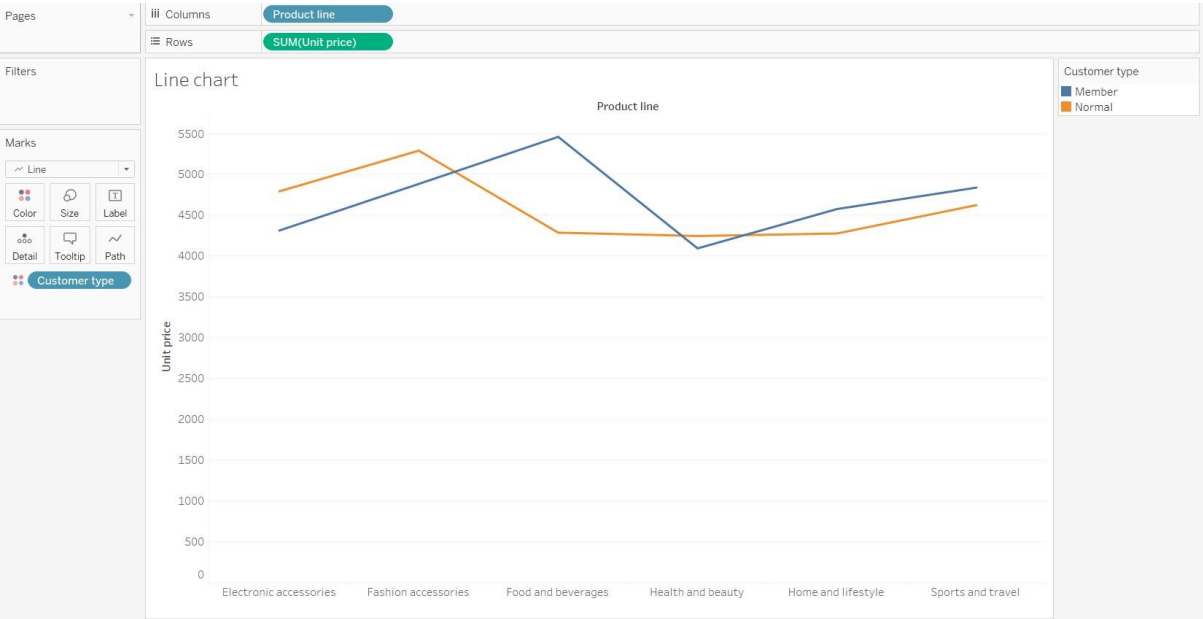
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

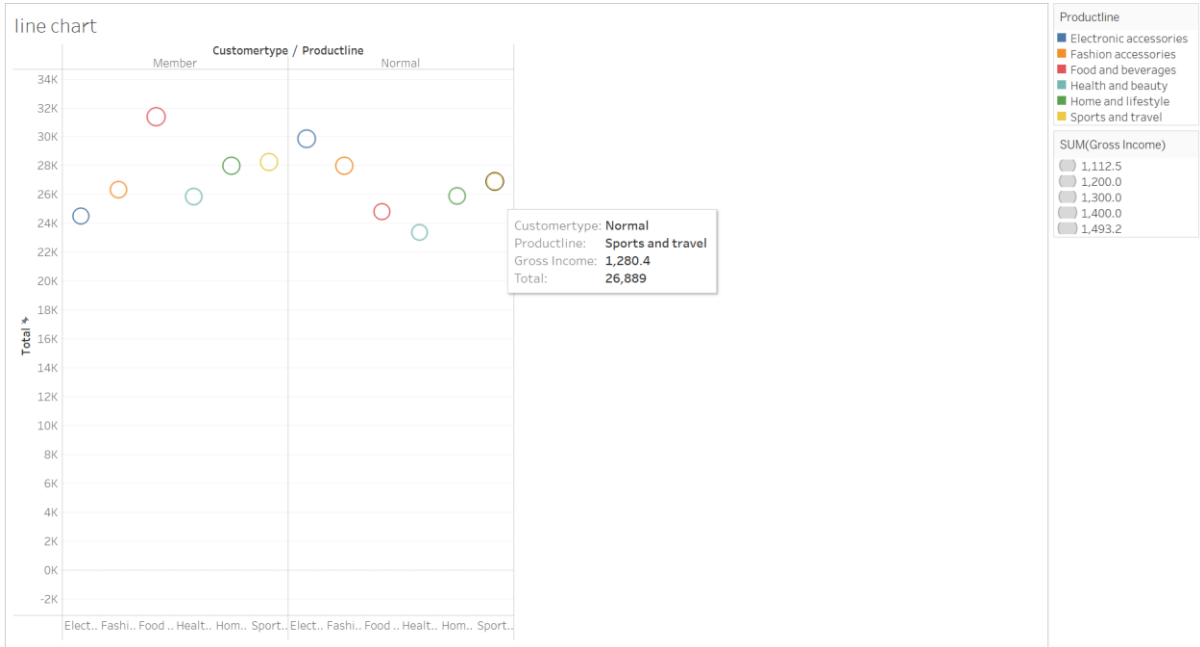| Customertype	Recency	Frequency	MonetaryValue
Member	NULL	501	164223.44399999993
Normal	NULL	499	158743.3049999999

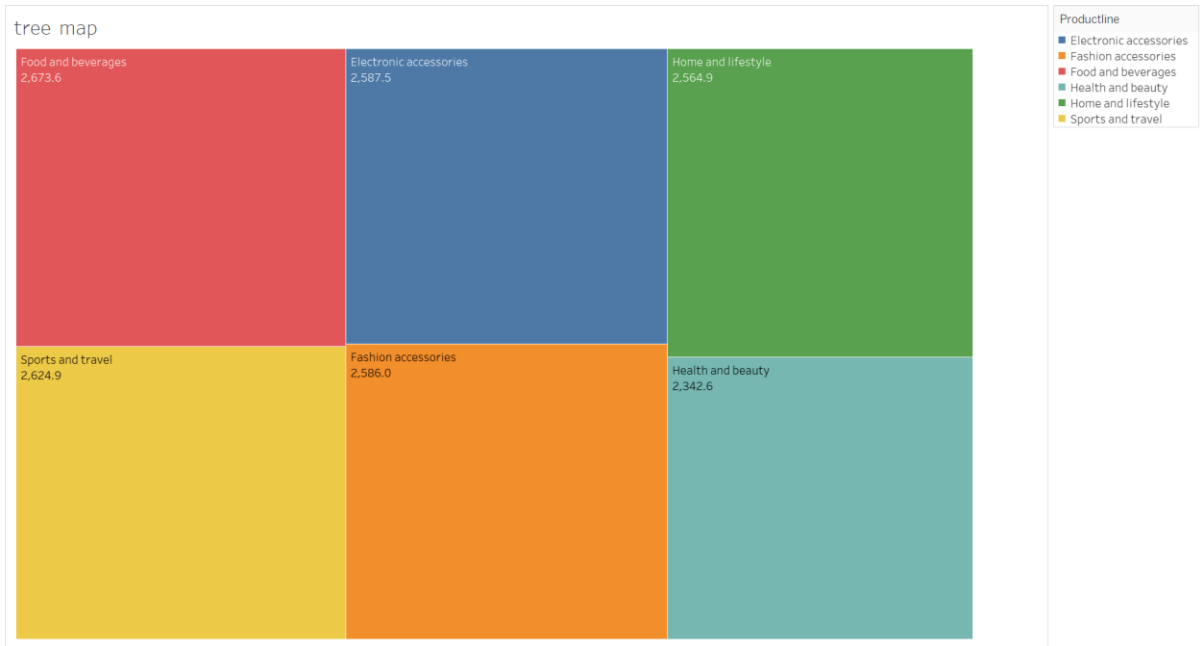Bar chart representing Branch Distribution by date

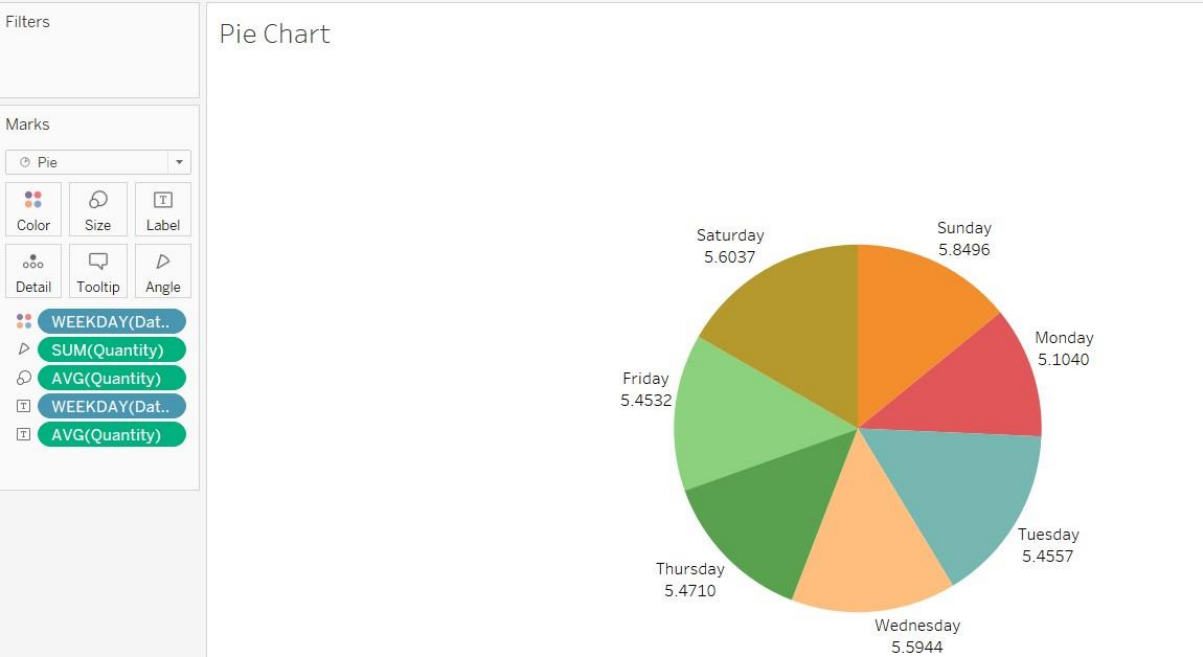Line chart representing Profit line Distribution by rating

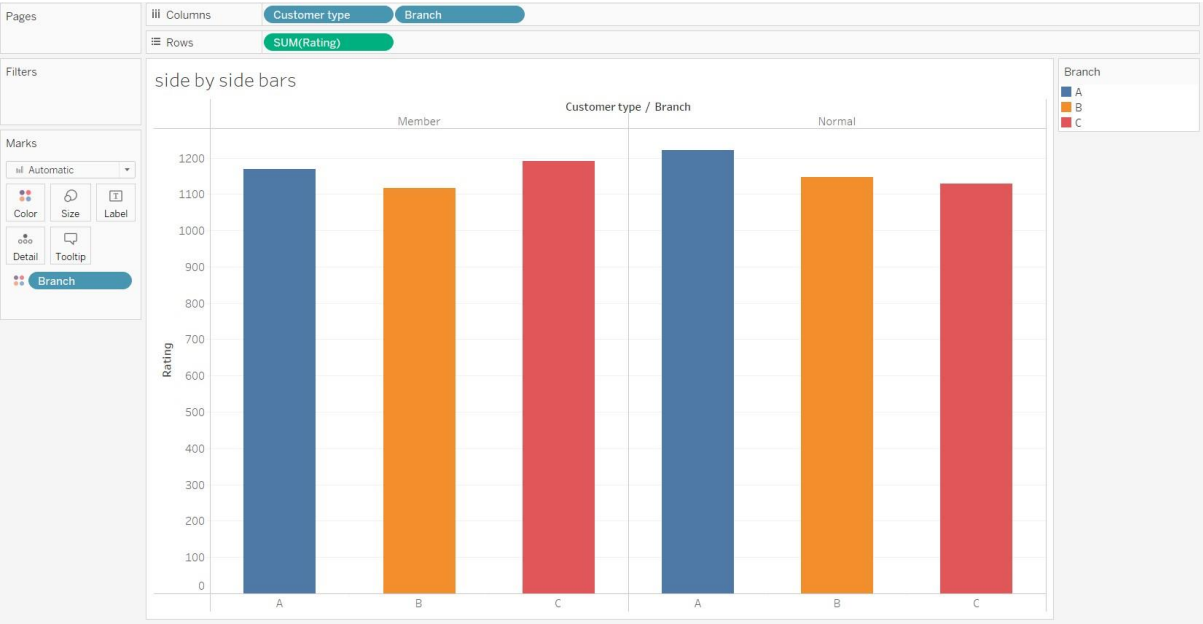Scatter plots representing Product Distribution by Grocss Income and Total

Tree Map representing Product Distribution by Total sales

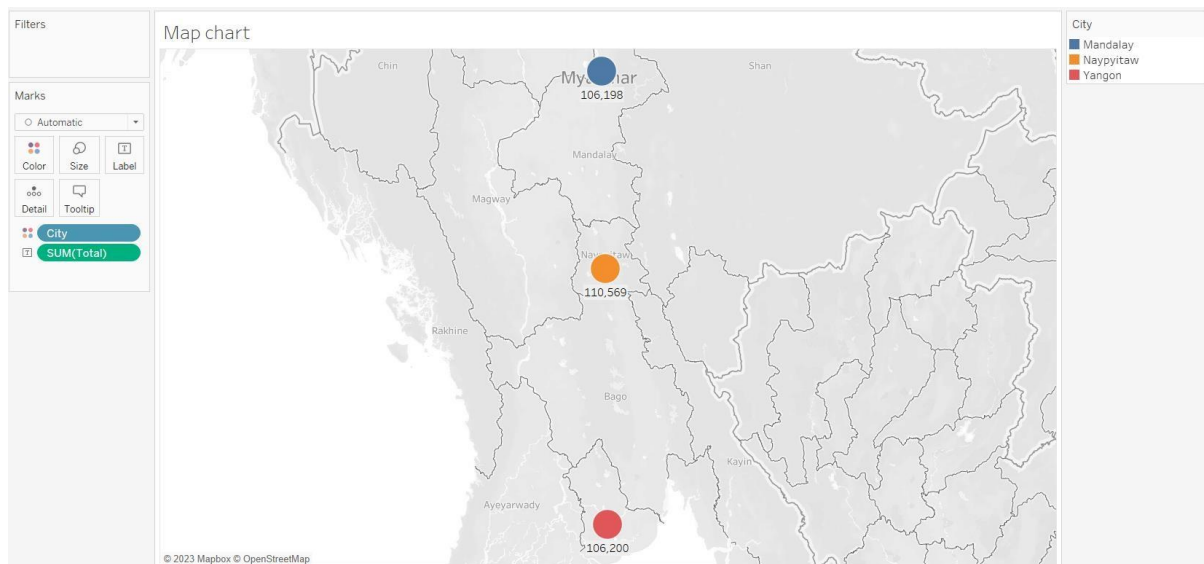Pie chart representing Quantity Distribution by week of the days

Side by side Bars representing Branch and Customer Distribution by rating

Packed bubble representing productline and quantity by payment method

Map chart representing Sales Distribution by City

Box plot representing Payment method Distribution by Total Sales