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DA Assignment 3

The growth of supermarkets in most populated cities is increasing and market competitions are also high. The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data. Predictive data analytics methods are easy to apply to this dataset.

Attribute information

Invoice id: Computer-generated sales slip invoice identification number

Branch: Branch of supercenter (3 branches are available identified by A, B and C).

City: Location of supercenters

Customer type: Type of customers, recorded by Members for customers using member cards and Normal for those without member cards.

Gender: Gender type of customer

Product line: General item categorization groups - Electronic accessories, Fashion accessories, Food and beverages, Health and beauty, Home and lifestyle, Sports and travel

Unit price: The price of each product in \$

Quantity: Number of products purchased by the customer

Tax: 5% tax fee for customers buying

Total: Total price including tax

Date: Date of purchase (Record available from January 2019 to March 2019)

Time: Purchase time (10 am to 9 pm)

Payment: Payment used by the customer for the purchase (3 methods are available –

Cash, Credit card and Ewallet)

COGS: Cost of goods sold

Gross margin percentage: Gross margin percentage

Gross income: Gross income

Rating: Customer stratification rating on their overall shopping experience (On a scale of

1 to 10)

MySQL workbench

SQL Queries

 Created a Database 'Supermarket' and Table named as 'Supermarket sales'.

Naypyitaw

Yangon

Mandalay

Mandalay

Mandalay

supermarket_sales 3

Yangon Yangon

cogs

Rating

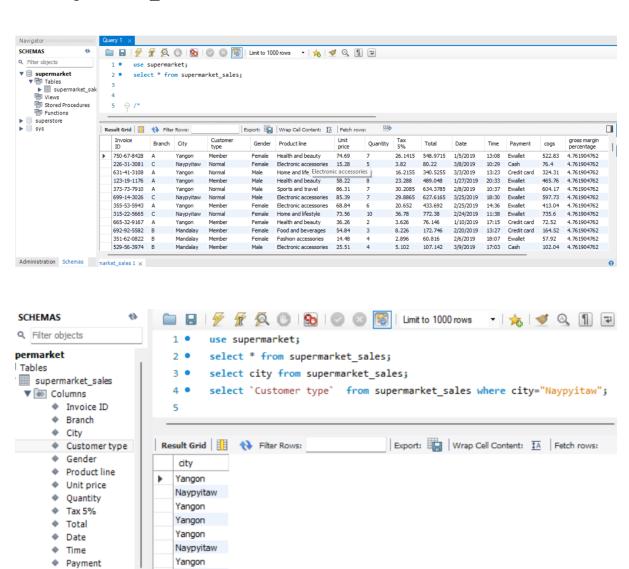
Administration Schemas

Indexes

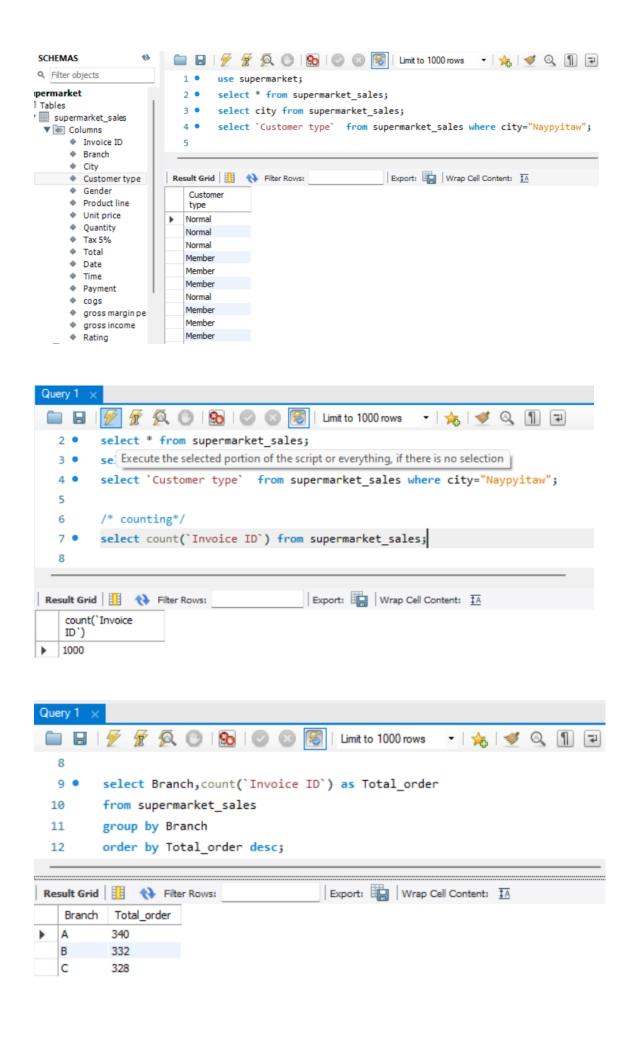
Foreign Keys

gross margin pe

gross income

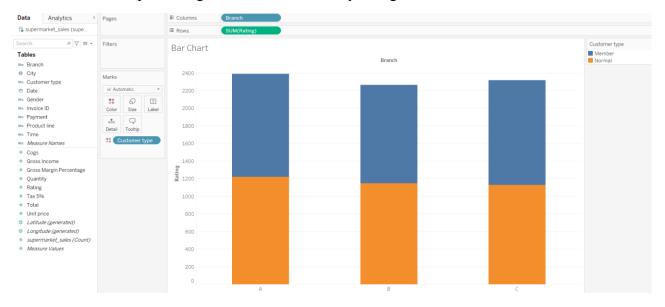


supermarket_sales 4 × supermarket_sales 5

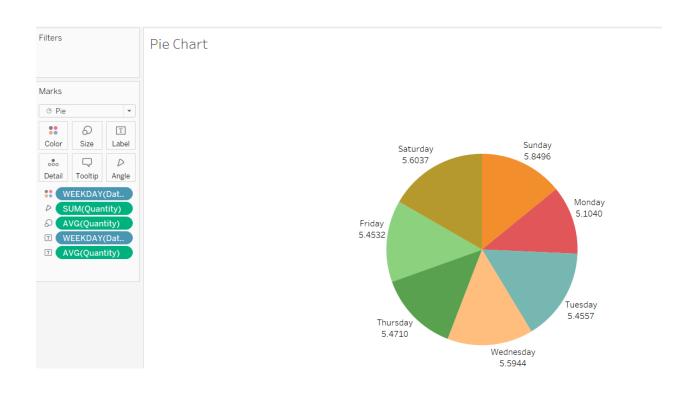


Data Visualisation using Tableau

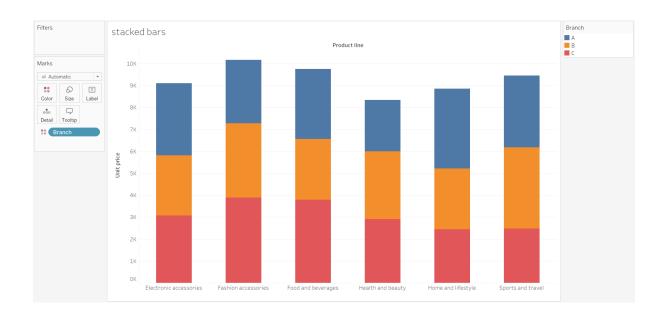
Bar chart representing Branch Distribution by rating



Pie chart representing Quantity Distribution by week of the days



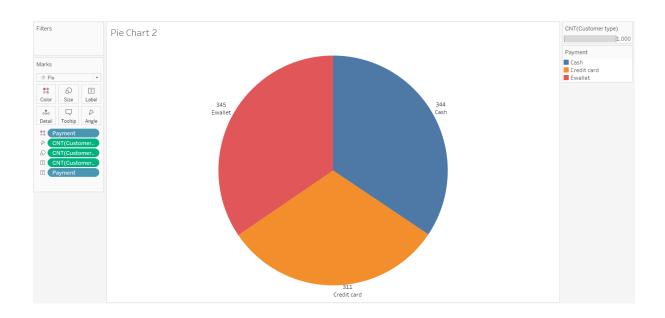
Stacked Bars representing Product Distribution by Unit price



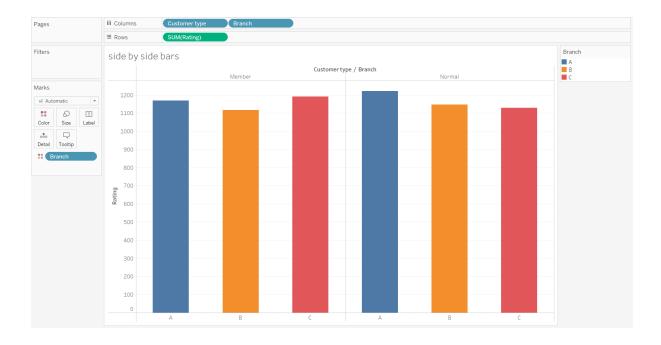
Line chart representing Profit line Distribution by rating



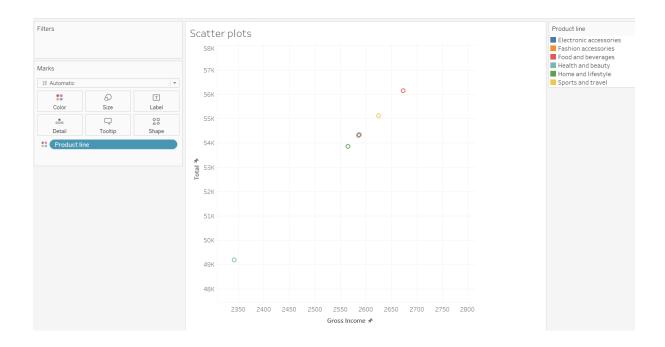
Pie chart representing Payment method Distribution by Customer type



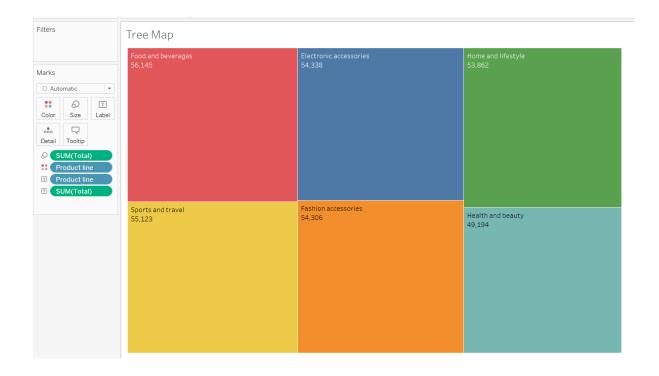
Side by side Bars representing Branch and Customer Distribution by rating



Scatter plots representing Product Distribution by Grocss Income and Total



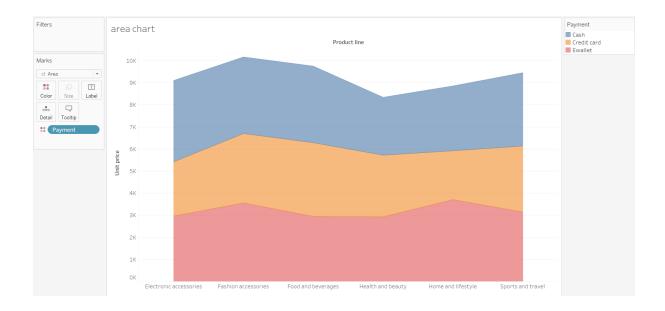
Tree Map representing Product Distribution by Total sales



Map chart representing Sales Distribution by City



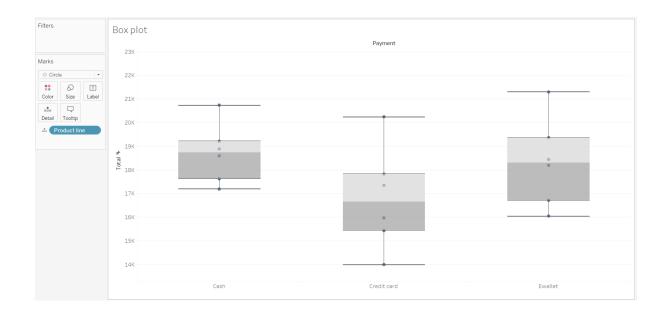
Area chart representing Payment and Product Distribution by Unit price



Packed Bubble representing Average Rating Distribution by City



Box plot representing Payment method Distribution by Total Sales



Bubble Chart representing Product line Distribution by Average Quantity

