

Super Saver Day!

Supermarket Business Analysis

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Project Overview



Data Description

Supermarket sales

- Sales data from Jan. to Mar. 2019 in
 - 3 cities in Myanmar
- Contains key data on branch,
- product line, gross income, rating,

Business Statement

- Super Saver Day Promotion
- Rewarding our loyal members and attracting new ones
- Encouraging more spending
- Increasing customer satisfaction

and more ..

^{*}Reference: Supermarket sales (kaggle.com)



Key Challenges & Constraints



Methodology

- Trello Kanban
- Entity-Relationship-Di agram
- Exploratory Data
- Analysis

Challenges

- Data import
- Define the Primary Key
 and Foreign Key

Constraints

- Limited data frame
- Leverage SQL queries
 for in-depth analysis
 of complex data
 relationships, like
 customer behavior











Design ER

Create Database

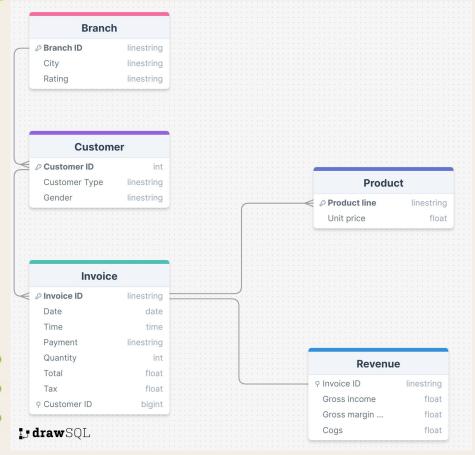
Import Data

Use SQL Queries

- SELECT AS
- JOIN ON
- WHERE
- GROUP BY
- RANK OVER



Database Design



Entity-Relational-Model

Entity - Relationship

- Branch to Customer: 1 to Many
- Customer to Invoice: 1 to Many
- Product to Invoice: Many to 1
- Invoice to Revenue: 1 to 1

Keys:

- Primary Key: Customer ID; Branch ID; Invoice ID; Product line
- Foreign Key: Customer ID as FK in Invoice/Invoice ID as FK in Revenue

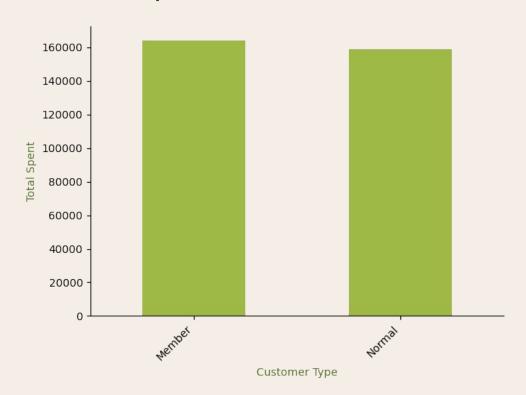




Business Insights Customer Analysis



Total spent of Member / Normal Customers

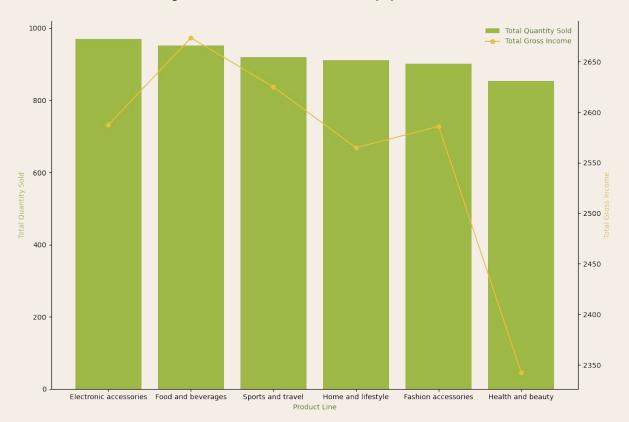






Business Insights Product Analysis

Total Quantity Sold & Total Gross (\$) Income of Product lines





Summarize



- There is no difference in the amount of money spent by members and normal customers.
- Best-selling product line: Electronic accessories.
- Most profitable product line: Food and beverage.
- Importance of having a database to keep tracking customer behavior.

Super Saver Day Promotion

Promote the most profitable product line to leverage sales and profit.

Offer promotions exclusively to members to increase the number of memberships.





Thank you!



