SQL Tutorial Playlist

https://www.youtube.com/playlist?list=PLQ77KV5GQnWZQjgDOvCngvoxj CW ePK4

If you prefer to work with text tutorial instead of video:

https://www.w3schools.com/postgresql/index.php

Hand-held project

https://youtu.be/gfyynHBFOsM?si=f2v5rT ZQGIQNaSG

(double-click the link)

Context

The growth of supermarkets in most populated cities are increasing and market competitions are also high. The dataset is one of the historical sales of a supermarket company which has been recorded in 3 different branches for 3 months.

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 card and

Normal for without member card. **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: Price of each product in \$

Quantity: Number of products purchased by customer

Tax: 5% tax fee for customer buying **Total:** Total price including tax

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

Time: Purchase time (10am to 9pm)

Payment: Payment used by customer for 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 (Total - COGS)

Rating: Customer stratification rating on their overall shopping experience (On a scale of 1 to 10)

Objective

The objective is to gain a comprehensive understanding of the store's performance, identify areas for improvement, and make informed decisions to drive growth and profitability.

Analysis Questions:

- 1. How does the revenue vary across different branches?
- 2. Can you identify the top-selling product lines and the least popular ones?
- 3. What is the distribution of customer types (Members vs. Normal)?
- 4. What are the preferred payment methods for customers?
- 5. Is there a correlation between payment method and the total purchase amount?
- 6. How do the different branches compare in terms of customer ratings?
- 7. Which of the branches has more of the highest customer rating?
- 8. Which Gender purchases the most?

Submit your analysis in a documented format with screenshots of your SQL queries.