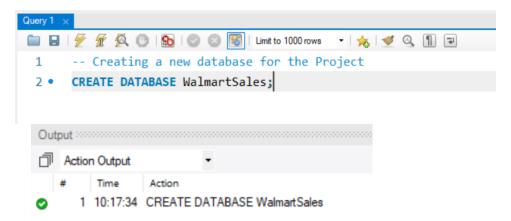
SQL Queries for Walmart Project

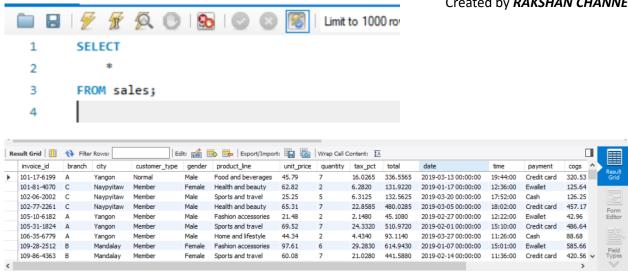
1. Creating a new Database WalmartSales for the Project



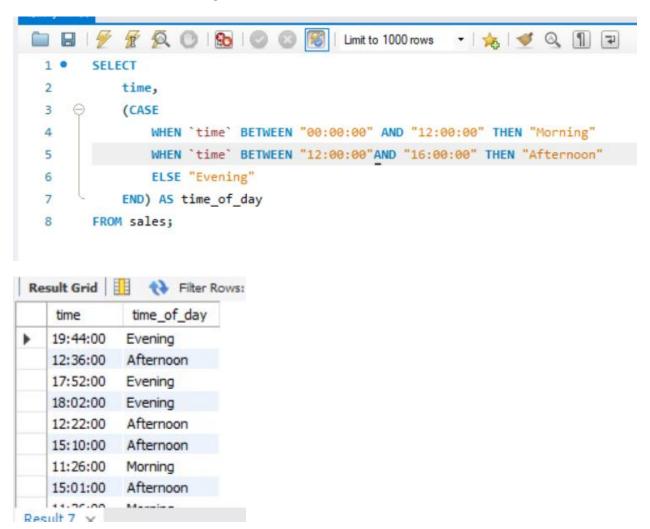
2. Creating new table sales and importing Data from Import Option directly into sales table

```
Limit to 1000 rows
 1
        -- Create table

    ○ CREATE TABLE IF NOT EXISTS sales(
 3
            invoice id VARCHAR(30) NOT NULL PRIMARY KEY,
            branch VARCHAR(5) NOT NULL,
 4
            city VARCHAR(30) NOT NULL,
            customer type VARCHAR(30) NOT NULL,
 6
 7
            gender VARCHAR(30) NOT NULL,
            product_line VARCHAR(100) NOT NULL,
 8
            unit price DECIMAL(10,2) NOT NULL,
 9
            quantity INT NOT NULL,
10
11
            tax pct FLOAT(6,4) NOT NULL,
            total DECIMAL(12, 4) NOT NULL,
12
            date DATETIME NOT NULL,
13
14
            time TIME NOT NULL,
15
            payment VARCHAR(15) NOT NULL,
            cogs DECIMAL(10,2) NOT NULL,
16
            gross margin pct FLOAT(11,9),
17
18
            gross income DECIMAL(12, 4),
            rating FLOAT(2, 1)
19
20
       );
```



3. Add the time_of_day column



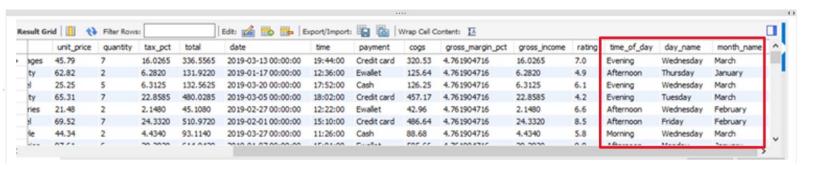
4. Adding time_of_day column to our sales table

```
3 ....
    ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(20);
    UPDATE sales

⊖ SET time of day = (
           CASE
                  WHEN `time` BETWEEN "00:00:00" AND "12:00:00" THEN "Morning"
                  WHEN 'time' BETWEEN "12:01:00" AND "16:00:00" THEN "Afternoon"
                  ELSE "Evening"
           END
    );
Edit: 🕍 🖶 Export/Import: 📳 📸 Wrap Cell Content: 🔣
                          unit_price quantity tax_pct total
    gender
                                                                                                                         time_of_day
           Food and beverages
                         45.79
                                        16.0265
                                               336,5565
                                                       2019-03-13 00:00:00
                                                                             Credit card
                                                                                      320.53
                                                                                             4,761904716
                                                                                                         16.0265
                                                                                                                         Evening
    Female
         Health and beauty
                         62.82
                                        6.2820 131.9220 2019-01-17 00:00:00 12:36:00 Ewallet 125.64
                                                                                           4.761904716
                                                                                                                    4.9
                                                                                                                         Afternoon
           Sports and travel
                                        6.3125
                                               132.5625
                                                       2019-03-20 00:00:00
                                                                     17:52:00
                                                                                      126.25
                                                                                             4.761904716
                                                                                                                    6.1
                                                                                                                         Evening
          Health and beauty
                         65.31
                                7 22.8585 480.0285 2019-03-05 00:00:00 18:02:00
                                                                             Credit card 457.17
                                                                                                         22.8585
                                                                                                                         Evening
           Fashion accessories
                                        2.1480
                                               45.1080
                                                       2019-02-27 00:00:00
                                                                             Ewallet
                                                                                             4.761904716
    Male
                         69.52 7
                                        24.3320 510.9720 2019-02-01 00:00:00 15:10:00
                                                                                             4.761904716
                                                                                                         24.3320
           Sports and travel
                                                                             Credit card 486.64
                                                                                                                   8.5
                                                                                                                         Afternoon
                                                       2019-03-27 00:00:00 11:26:00
                                                                                             4.761904716
           Home and lifestyle
                         44.34
                                        4.4340
                                               93.1140
                                                                             Cash
                                                                                      88.68
                                                                                                         4.4340
                                                                                                                         Morning
                                                                                                                         ٠....
```

5. Similarly adding day_name and month_name column to our sales table

Now we successfully added the three columns to our sales table.

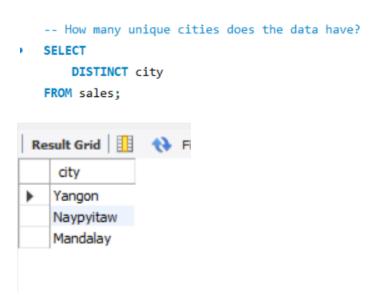


Exploratory Data Analysis

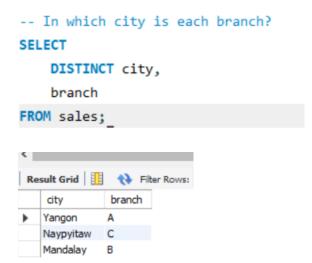
Exploratory data analysis is done to answer the below listed questions and aims of this project.

Generic Question

1. How many unique cities does the data have?

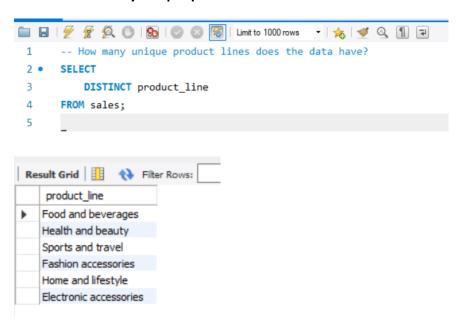


2. How many unique cities does the data have?

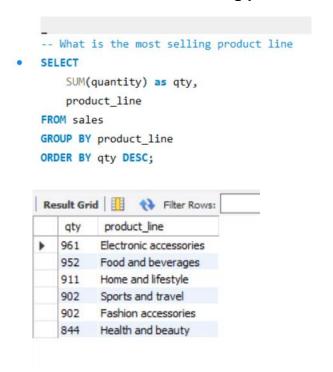


Product

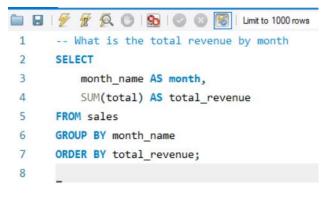
1. How many unique product lines does the data have?

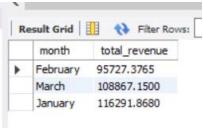


2. What is the most selling product line?

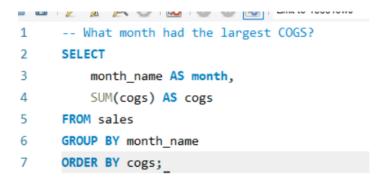


3. What is the total revenue per month?



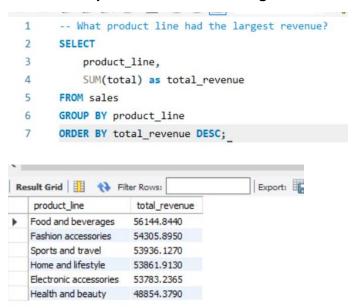


4. What month had the largest COGS?

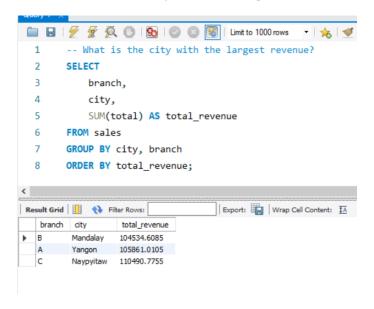




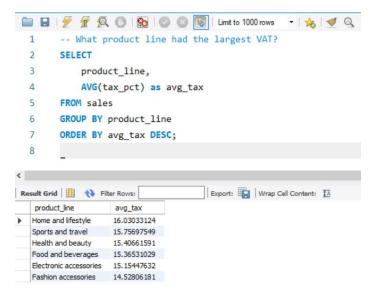
5. What product line had the largest revenue?



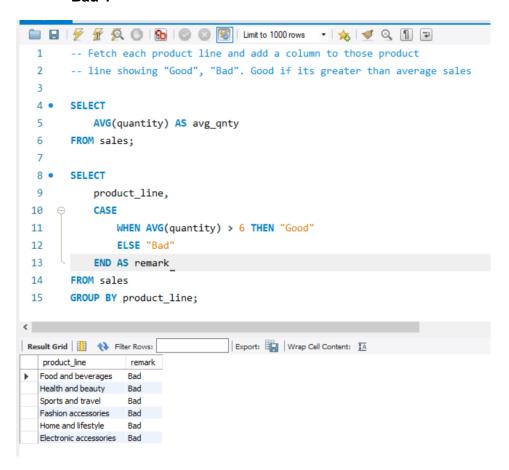
6. What is the city with the largest revenue?



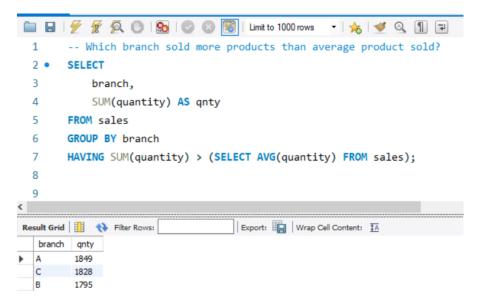
7. What product line had the largest VAT?



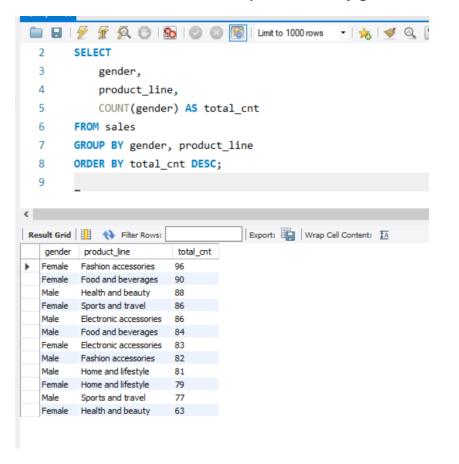
8. Fetch each product line and add a column to those product lines showing "Good", "Bad".



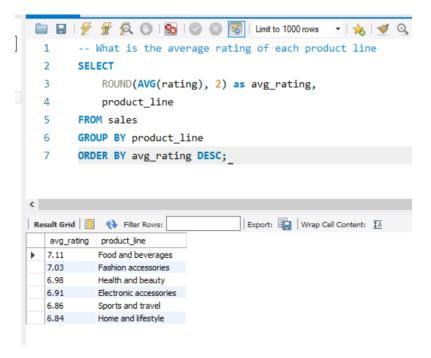
9. Which branch sold more products than average product sold?



10. What is the most common product line by gender?

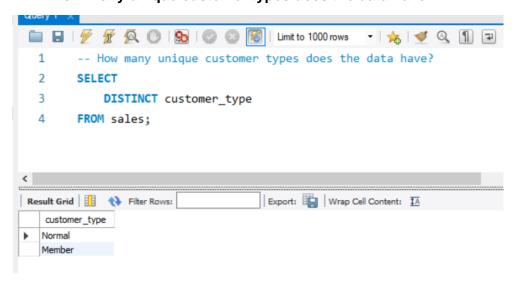


11. What is the average rating of each product line?

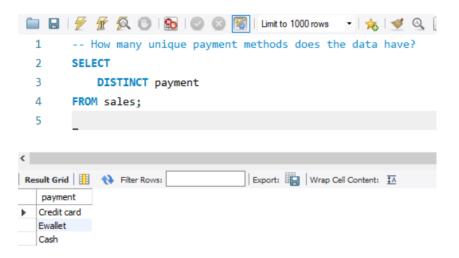


Customer

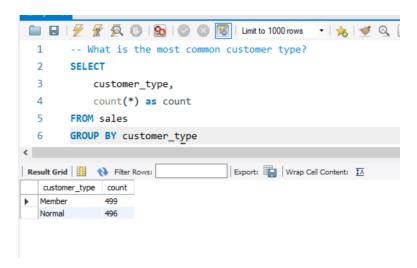
1. How many unique customer types does the data have?



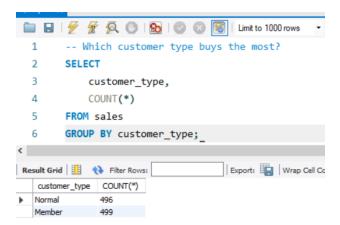
2. How many unique payment methods does the data have?



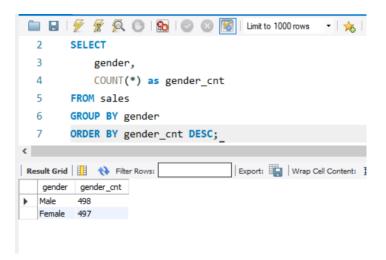
3. What is the most common customer type?



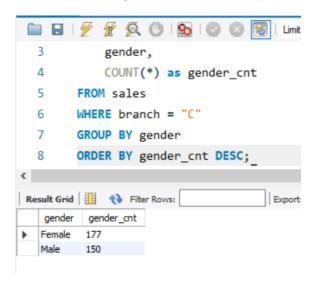
4. Which customer type buys the most?



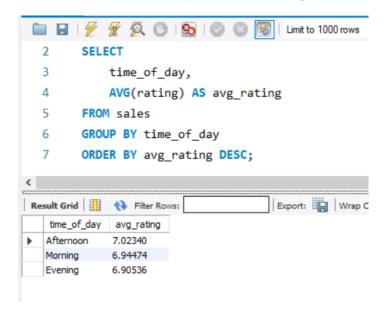
5. What is the gender of most of the customers?



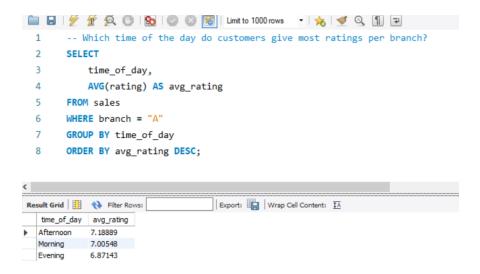
6. What is the gender distribution per branch?



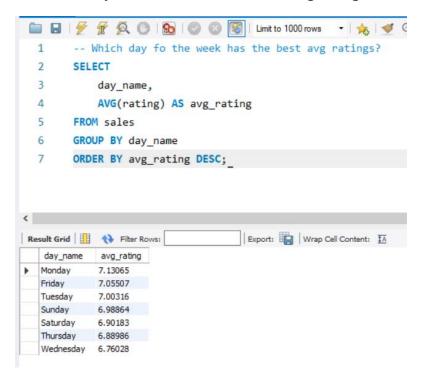
7. Which time of the day do customers give most ratings?



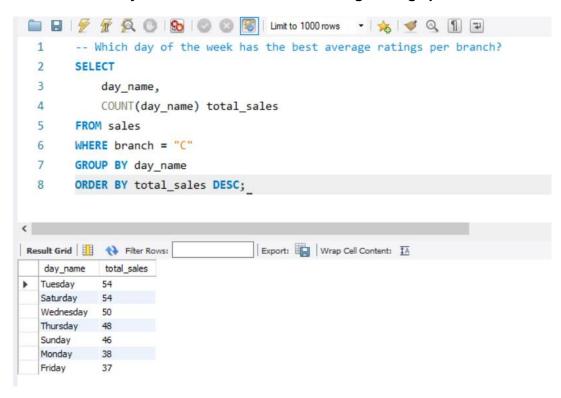
8. Which time of the day do customers give most ratings per branch?



9. Which day fo the week has the best avg ratings?

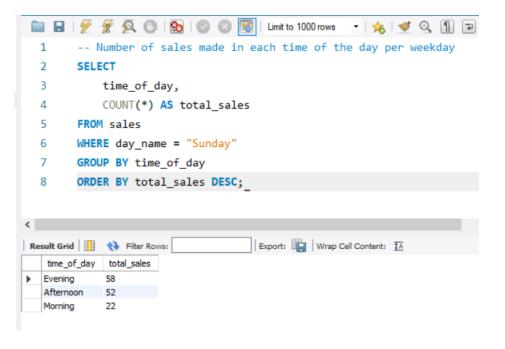


10. Which day of the week has the best average ratings per branch?

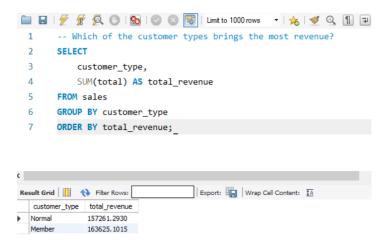


Sales

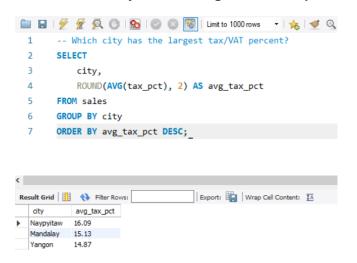
1. Number of sales made in each time of the day per weekday



2. Which of the customer types brings the most revenue?



3. Which city has the largest tax/VAT percent?



4. Which customer type pays the most in VAT?

