

Contents

Power Bl Dashboard



MySQL Queries

```
SELECT * FROM coffee_shop_sales;
      UPDATE coffee_shop_sales
      SET transaction_date = STR_TO_DATE(transaction_date, '%m/%d/%Y');
      ALTER TABLE coffee_shop_sales
      MODIFY COLUMN transaction_date DATE;
      UPDATE coffee shop sales
      SET transaction_time = STR_TO_DATE(transaction_time, '%H:%i:%s');
11
12 •
      ALTER TABLE coffee_shop_sales
      MODIFY COLUMN transaction_time TIME;
13
14
15
      ALTER TABLE coffee_shop_sales
      CHANGE COLUMN ingtransaction id transaction id INT;
17
18
19
```

My SQL

FIRING SQL QUERIES TO SOLVE THE BUSINESS PROBLEM

```
Limit to 1000 rows - | 🎉 | 🥩 🔍 🗻 🖃
       SELECT * FROM coffee_shop_sales;
      UPDATE coffee_shop_sales
       SET transaction_date = STR_TO_DATE(transaction_date, '%m/%d/%Y');
       ALTER TABLE coffee_shop_sales
       MODIFY COLUMN transaction_date DATE;
      UPDATE coffee_shop_sales
       SET transaction_time = STR_TO_DATE(transaction_time, '%H:%i:%s');
11
       ALTER TABLE coffee_shop_sales
12 •
       MODIFY COLUMN transaction_time TIME;
13
14
15
       ALTER TABLE coffee_shop_sales
       CHANGE COLUMN in transaction id transaction id INT;
17
18
19
20
```

My SQL

Steps For MySQL

- Data Walkthrough
- Raw Data File Preparation
- Creating Database
- Importing File
- Cleaning Imported File
- Changing Datatypes
- Firing SQL Queries for Business Requirements
- Storing Results



My SQL

Functionalities You Learn

- STR_TO_DATE
- ROUND
- SUM
- COUNT
- AVG
- LAG
- MONTH
- DAY
- DAY OF WEEK
- SELECT

- ALIAS
- MAX/MIN
- HOUR
- ALTER TABLE
- UPDATE TABLE
- CHANGE COLUMN
- WHERE
- GROUP BY
- CASE
- ORDER BY

- LIMIT
- WINDOW FUNCTIONS
- JOINS
- SUBQUERIES



Power Bl Dashboard



▲ +32.0% | +12.5K vs LM



PROBLEM STATEMENT

KPI REQUIREMENTS

1. Total Sales Analysis:

- Calculate the total sales for each respective month.
- Determine the month-on-month increase or decrease in sales.
- Calculate the difference in sales between the selected month and previous month.

2. Total Orders Analysis:

- Calculate the total number of orders for each respective month.
- Determine the month-on-month increase or decrease in orders.
- Calculate the difference in the number of orders between the selected month and previous month.

3. Total Quantity Sold Analysis:

- Calculate the total Quantity sold for each respective month.
- Determine the month-on-month increase or decrease in total quantity sold.
- Calculate the difference in the total quantity sold between the selected month and previous month.

PROBLEM STATEMENT

CHARTS REQUIREMENTS

1. Calendar Heat Map:

- Implement a calendar heat map that dynamically adjusts based in the selected month from a slicer.
- Each day on the calendar will be color coded to represent sales volume with darker shades indicating higher sales.
- Implement tooltips to display detailed metrices (Sales, Orders, Quantity) when hovering over specific day.

2. Sales Analysis by Weekdays and Weekends:

- Segment sales data into weekdays and weekends to analyze performance variations.
- Provide insights into weather sales patterns differ significantly between weekdays and weekends.

3. Sales Analysis by Store Location:

- Visualize sales data by different store locations.
- Include month-over-month (MoM) difference metrices based on the selected month in the slicer.
- Highlight MoM sales increase or decrease for each store location to identify trends.

PROBLEM STATEMENT

CHARTS REQUIREMENTS

- 4. Daily Sales Analysis with Average Line:
 - Display daily sales for the selected month with a line chart.
 - Incorporate an average line on the chart to represent the average daily sales.
 - Highlight bars exceeding or falling below the average sales to identify exceptional sales days.
- 5. Sales Analysis by Product Category:
 - Analyze sales performance across different product categories.
 - Product insights into which product categories contribute the most to overall sales.
- 6. Top 10 Products by Sales:
 - Identify and display the top 10 products based on sales volume.
 - Allow users to quickly visualize the best-performing products in terms of sales.
- 7. Sales Analysis by Days and Hours:
 - Utilize a heat map to visualize sales patterns by days and hours.
 - Implement tooltips to display detailed metrices (Sales, Orders, Quantity) when hovering over a specific dayhour.



Thank You!



