ASSIGNMENT - 3 --- (Data Analytics)

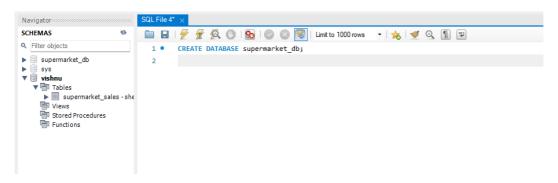
Let's compete the Assignment provided steps wise :--

Step-1 :-- Upload the Data Set in MySQL.

- * open MySQL workbench.
- * New Schema(DataBase) with a Name Vishnu .
- * After naming the schema(Or Database), click on the 'schemas' option, & folloe these steps.
- * Schemas > vishnu > table > Right Click > 'table data import wizard' . > Import the data Set provided .
- * Wait till the dataset is uploaded . Then to write the gueries .

Step - 2 :-- Running MySql queries in MySQL workBench to create the tables .

MySQL > CREATE DATABASE supermarket_db;



MySQL > USE CREATE DATABASE supermarket_db;

```
SCHEMAS
                                                                                          Q Filter objects
                                                                                                CREATE DATABASE supermarket_db;
   MySQL >
                                                                   sup.
sys
sys
vishnu

Tables

Supermarket

Supermarket

Supermarket

Supermarket

Columns

Invo

Invo

Invo

Cit
                                                                                                 use supermarket_db;
CREATE TABLE supermarket_sales (
                                                                                            4 • ⊝ CREATE TABLE supermarket_sales (
   Invoice_id INT PRIMARY KEY,
                                                                                                   Invoice id INT PRIMARY KEY,
                                                                                                    Branch CHAR(1),

    Invoice ID
    Branch
    City
    Customer type
    Gender

   Branch CHAR(1)
                                                                                                   City VARCHAR(255),
                                                                                                    Customer_type VARCHAR(20),
   City VARCHAR (255)
                                                                                                    Gender VARCHAR(10),
    Customer_type VARCHAR(20),
                                                                                                   Product line VARCHAR(50).

    Product line

    Gender VARCHAR(10)
                                                                                           11
                                                                                                   Unit_price DECIMAL(10, 2),

    Unit price

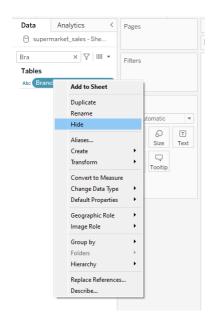
                                                                                                   Quantity INT,
                                                                              Tax 5%
Total
Date
Time
   Product_line VARCHAR(50),
                                                                                                    Tax DECIMAL(10, 2),
                                                                                           14
                                                                                                    Total DECIMAL(10, 2),
   Unit_price DECIMAL(10, 2),
                                                                                           15
                                                                                                   Date DATE,
    Quantity INT.
                                                                              Payment
                                                                                                   Time TIME,
                                                                                           16
                                                                             ♦ cogs
                                                                                                   Payment VARCHAR(20),
    Tax DECIMAL(10, 2),

    gross margin pe
    gross income
    Rating

                                                                                                   COGS DECIMAL(10, 2),
                                                                                           18
    Total DECIMAL(10, 2),
                                                                                           19
                                                                                                   Gross_margin_percentage DECIMAL(5, 2),
                                                                            Indexes
Foreign Keys
                                                                                           20
                                                                                                   Gross income DECIMAL(10, 2),
   Date DATE
                                                                                           21
                                                                                                    Rating INT
                                                                             Triggers
   Time TIME,
                                                                      To Stored Procedures
   Payment VARCHAR(20),
   COGS DECIMAL(10, 2),
    Gross_margin_percentage DECIMAL(5, 2), Schemas
    Gross_income DECIMAL(10, 2),
                                                                    Table:
   Rating INT
                                                                    superm
sheet1
                                                                                         Action Output
                                                                               text
```

Step - 3 :-- Integrate with Tableau

- * follow these steps .
- * Open Tableau Desktop > To a server > Mysql .
- * Now delete the UnNeccessary tables/columns that are not required .
- * Upload the File in the Tableau .



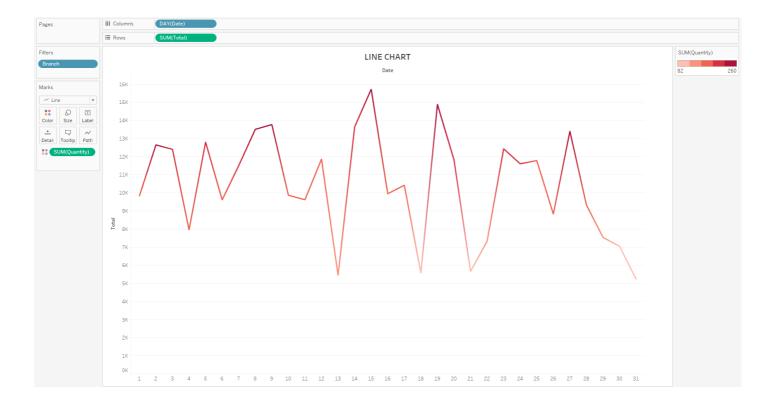
- * We can hide the unneccessary columns in this way .
- * Few Columns that we can hide/remove are 'Branch', 'city', 'Gender', 'tax', ... etc.
- * We should retain columns that are relevant to your analysis .
- * the decision of which columns to hide or keep depends on the specific analysis .

Step- 4 :-- Lets make visualizations with tableau . (4 Visualizations) .

a) Bar Chart :--



b) Line Chart :--



c) Heat Map :--



d) Side by Side Chart :--



e) Box Plot :--

