### **ASSIGNMENT-3**

## IBM COGNOS ANALYTICS

Name: G.Lakshman Kumar

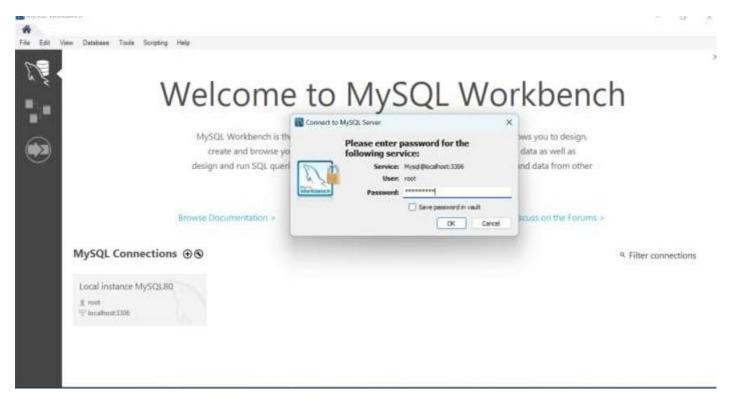
**Reg no:21BCE7065** 

Email: lakshman.21bce7065@vitapstudent.ac.in

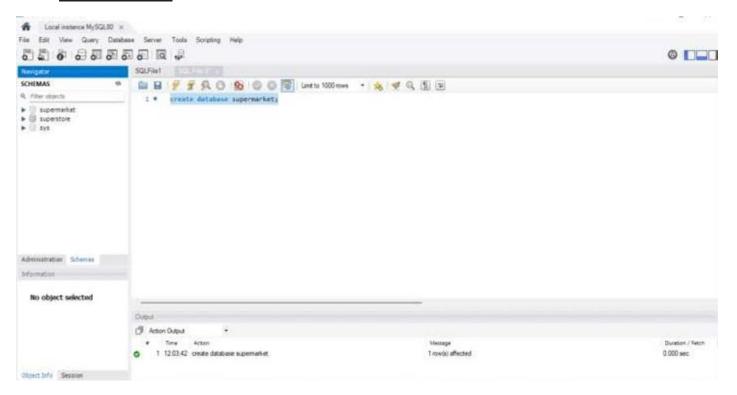
Upload the dataset to MySQL and integrate with Tableau, delete the unnecessary columns, explore and visualize the dataset using Tableau.

# > MySQL Integration:

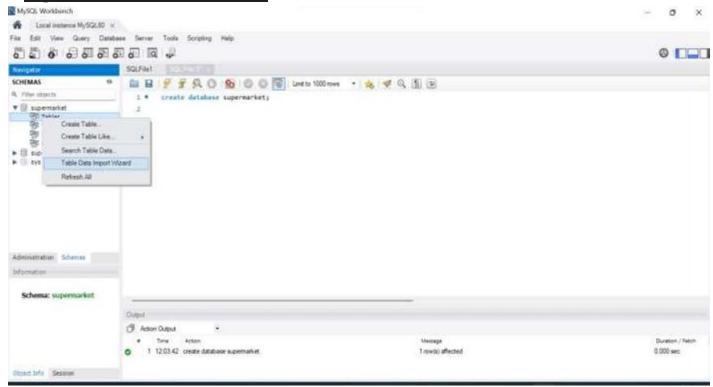
#### 1. open MySQL Workbench:

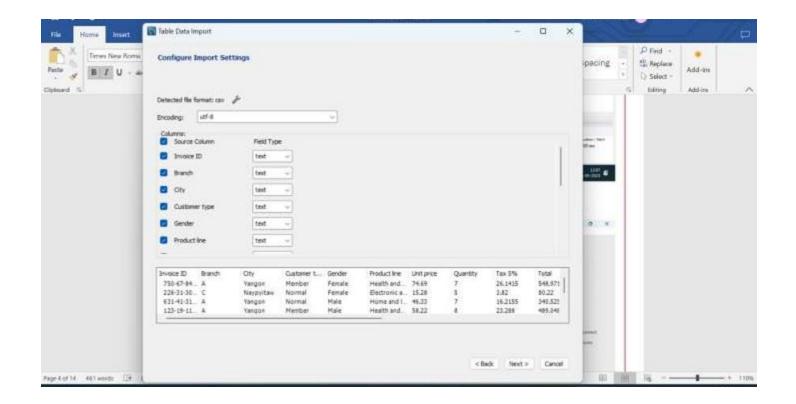


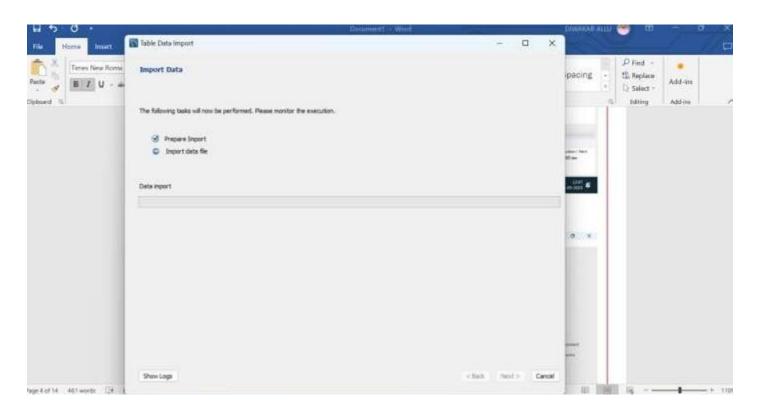
#### 2. create a schema:



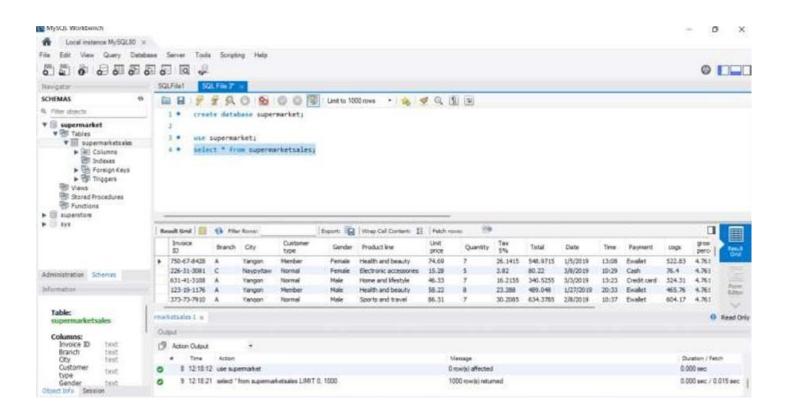
## 3. Import the data from local data set:

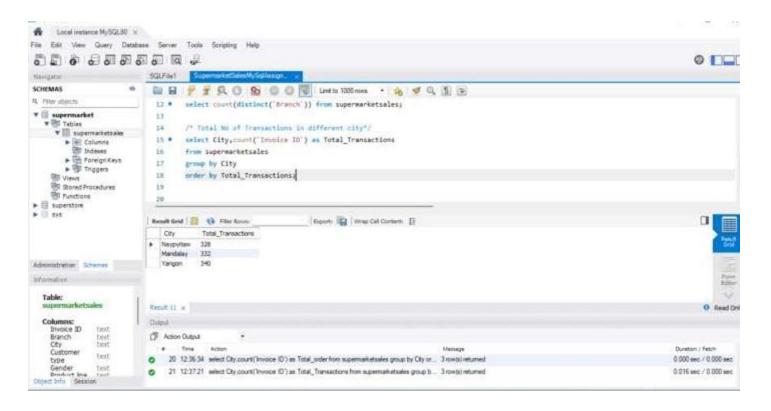


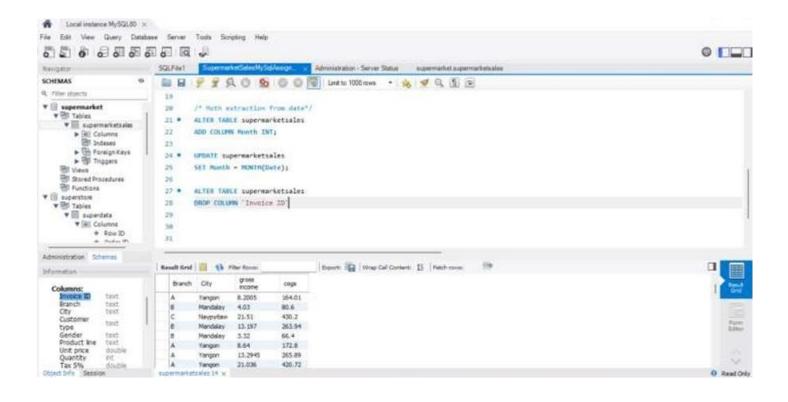


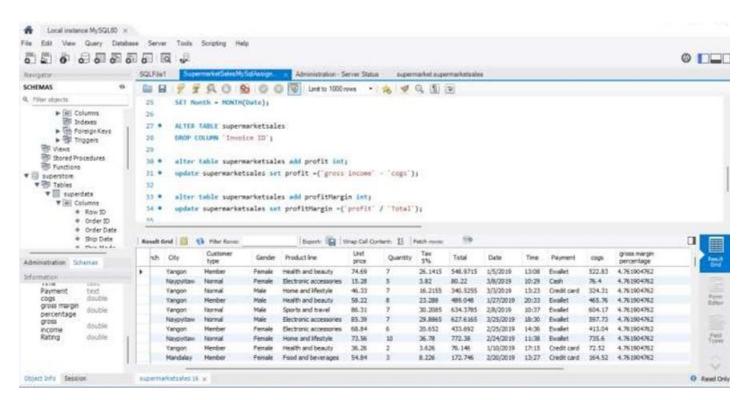


#### 4. preprocess the data using SQL commands:



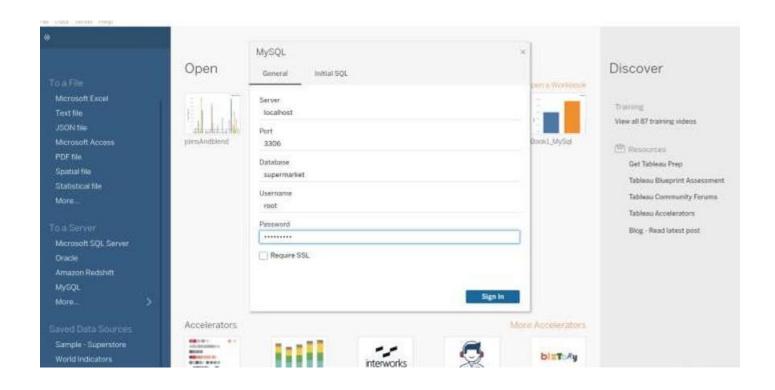


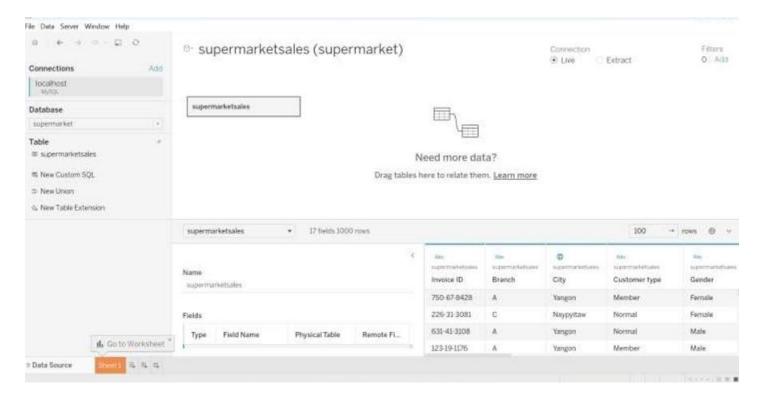




# > Tableau Integration:

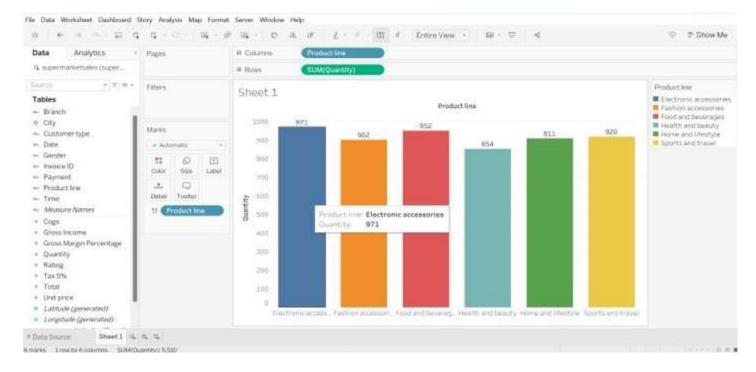
select MySQL in Connect to a Server option



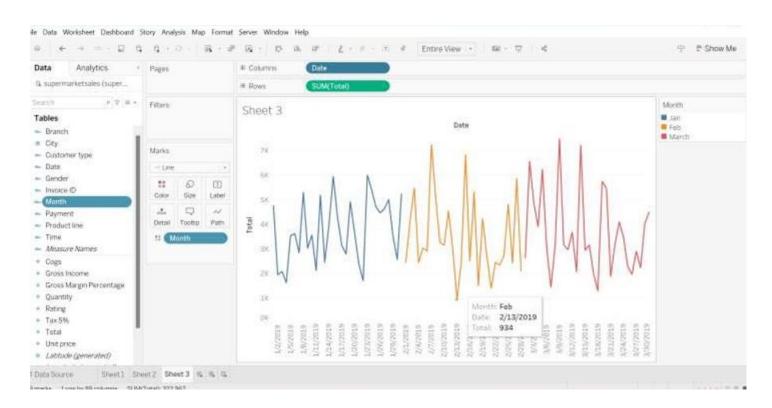


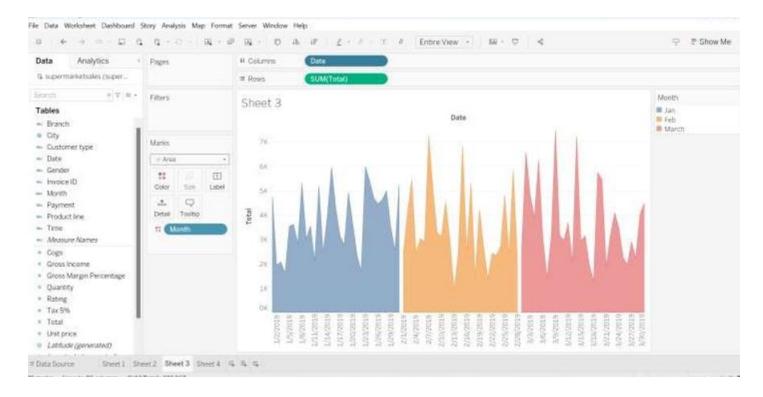
## Data Exploration and Visualization:

1. Which product categories are the most popular among customers and Which product categories generate the highest revenue?

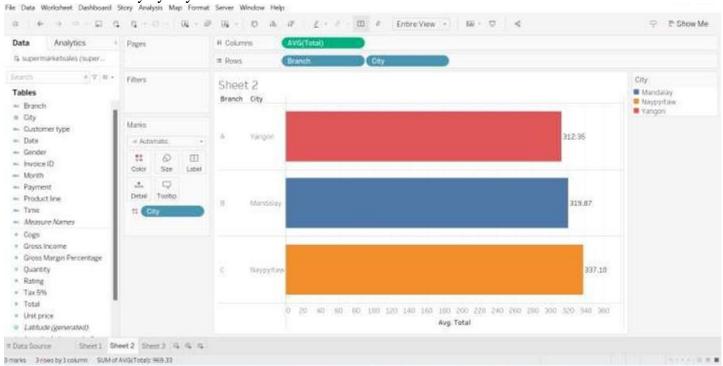


2. What are the sales trends over time, and are there any notable patterns or spikes?

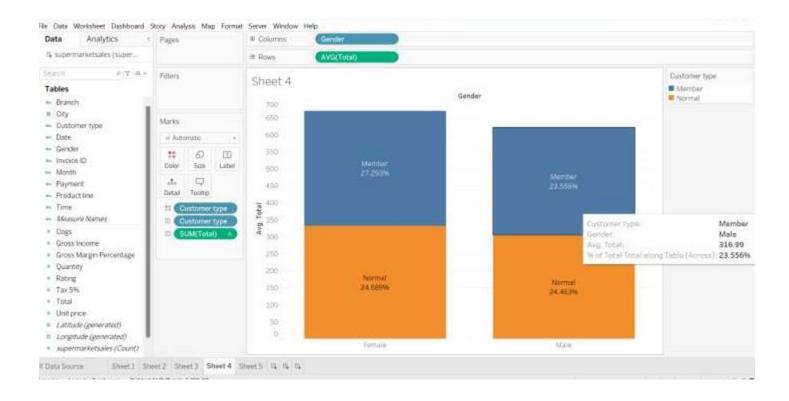




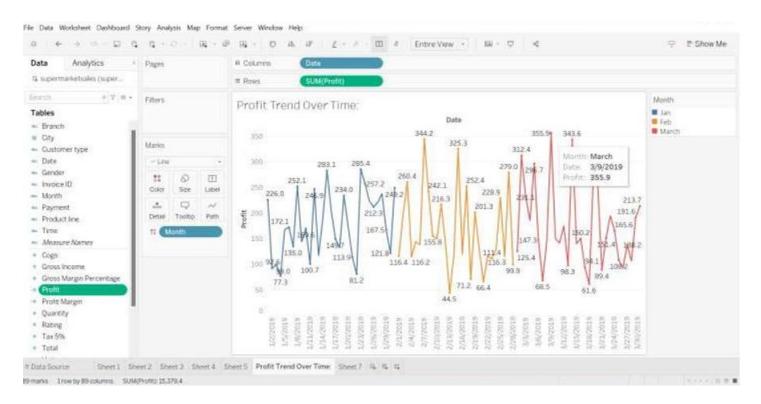
#### 3. How do sales vary by city and branch?



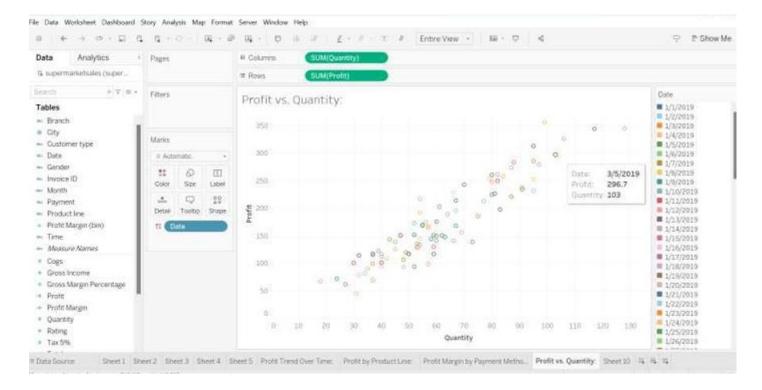
4. Compare how member and non-member customers contribute to total sales, broken down by gender.



5. **Profit Tend Over Time:** To Analyze how profit varies over time and identify trends.



**Profit vs. Quantity:** To Explore the relationship between the quantity of products sold and profit.



## > Results

The project results in a streamlined dataset optimized for analysis. Through Tableau visualizations, we gain insights into sales trends across branches, customer segmentation, popular product categories, and more. These insights can inform strategic decisions, marketing efforts, and inventory management to enhance the supermarket's competitive edge in the market.

## > References

https://help.tableau.com/current/pro/desktop/en-us/buildexamples scatter.html