SQL – Assignment

Instruction File

Task 0:

Download the data files for this assignment. Your first task is to create tables from these files. In order to do so, please follow the steps given below sequentially:

- 1. Open MySQL Workbench
- 2. Connect to your database using the connection you have created
- 3. Create a database named superstoresDB
- 4. In the "Navigator" pane on the left hand side, you will find the created database
- 5. Right click on the superstoresDB
- 6. You will see the option called "Table Data Import Wizard". Click on it.
- 7. Follow the wizard to create tables by providing the .csv data files that you have downloaded
- 8. You need to follow the "Table Data Import Wizard" for each data file given for this assignment.

Please refer https://dev.mysql.com/doc/workbench/en/wb-admin-export-import-table.html to get more information on table data import. Once you are done with this task, attempt following tasks:

Task 1: Understanding the data in hand

- A. Describe the data in hand in your own words. (Word Limit is 500)
- B. Identify and list the Primary Keys and Foreign Keys for this dataset (Hint: If a table don't have Primary Key or Foreign Key, then specifically mention it in your answer.)

Task 2: Basic Analysis

Write the SQL queries for the following:

- A. Find the total and the average sales (display total_sales and avg_sales)
- B. Display the number of customers in each region in decreasing order of no of customers. The result should contain columns Region, no of customers
- C. Find the region having maximum customers (display the region name and max(no of customers)
- D. Find the number and id of products sold in decreasing order of products sold (display product id, no_of_products sold)
- E. Find all the customers from Atlantic region who have ever purchased 'TABLES' and the number of tables purchased (display the customer name, no_of_tables purchased)

Task 3: Advanced Analysis

Write sql queries for the following:

- A. Display the product categories in descending order of profits (display the product category wise profits i.e. product category, profits)?
- B. Display the product category, product sub-category and the profit within each sub-category in three columns.
- C. Where is the least profitable product subcategory shipped the most? For the least profitable product sub-category, display the region-wise no_of_shipments and the profit made in each region in decreasing order of profits (i.e. region, no_of_shipments, profit_in_each_region)
 - Note: You can hardcode the name of the least profitable product subcategory

Important Note:

Submit your answers for all these tasks in a .sql file.