Critical Thinking Assignment 5: Writing Queries

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ITS410: Database Management

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Critical Thinking Assignment 5: Writing Queries

This documentation is part of the Critical Thinking 5 Assignment from ITS410: Database Management at Colorado State University Global. The documentation provides screenshots showcasing writing queries using MySQL and the My Guitar Shop database.

The Assignment Direction:

Writing Queries

Using the My Guitar Shop database you installed in Module 1, develop the following queries.

- 1. Write a SELECT statement that returns these columns:
 - The count of the number of orders in the Orders table
 - The sum of the tax amount columns in the Orders table

Execute the guery and take a screenshot of the guery and the results.

- 2. Write a SELECT statement that returns one row for each category that has products with these columns:
 - The category_name column from the Categories table
 - The count of the products in the Products table
 - The list price of the most expensive product in the Products table.
 - Sort the result set so the category with the most products appears first.

Execute the guery, and take a screenshot of the guery and the results.

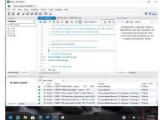
- 3. Write a SELECT statement that returns one row for each customer that has orders with these columns:
 - The email address column from the Customers table
 - The sum of the item price in the Order_Items table multiplied by the quantity in the Order Items table
 - The sum of the discount amount column in the Order_Items table multiplied by the quantity in the Order_Items table
 - Sort the result set in descending sequence by the item price total for each customer.

Execute the query and take a screenshot of the query and the results.

- 4. Write a SELECT statement that returns one row for each customer that has orders with these columns:
 - The email address column from the Customers table
 - A count of the number of orders
 - The total amount for each order (*Hint: First, subtract the discount amount from the price. Then, multiply by the quantity.*)
 - Return only those rows where the customer has more than one order.
 - Sort the result set in descending sequence by the sum of the line item amounts.

Execute the query and take a screenshot of the query and the results

All the screenshots should show current date. Example of screenshot.



Submit your labeled results screenshots in a Word file.

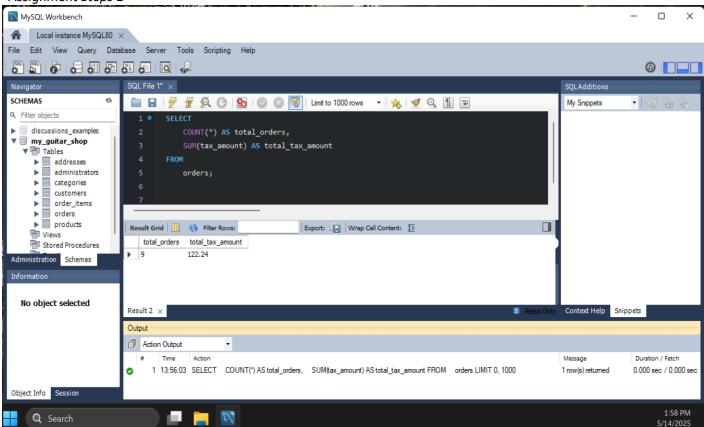
Screenshots

Step 1: Write a SELECT statement that returns these columns:

- The count of the number of orders in the Orders table
- The sum of the tax amount columns in the Orders table

Figure 1

Assignment Steps 1



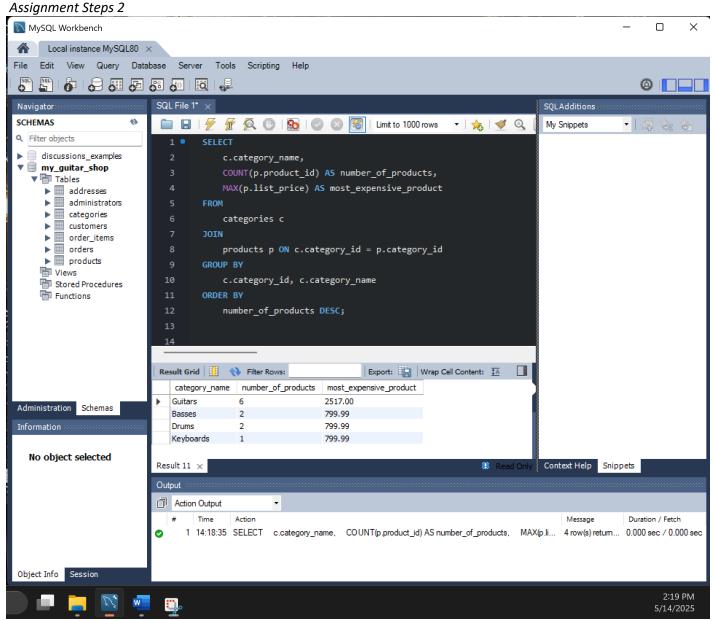
Note: The figure illustrates the MySQL Workbench result after performing steps 1.

Please see the next page.

Step 2: Write a SELECT statement that returns one row for each category that has products with these columns:

- The category name column from the Categories table
- The count of the products in the Products table
- The list price of the most expensive product in the Products table.
- Sort the result set so the category with the most products appears first.

Figure 2



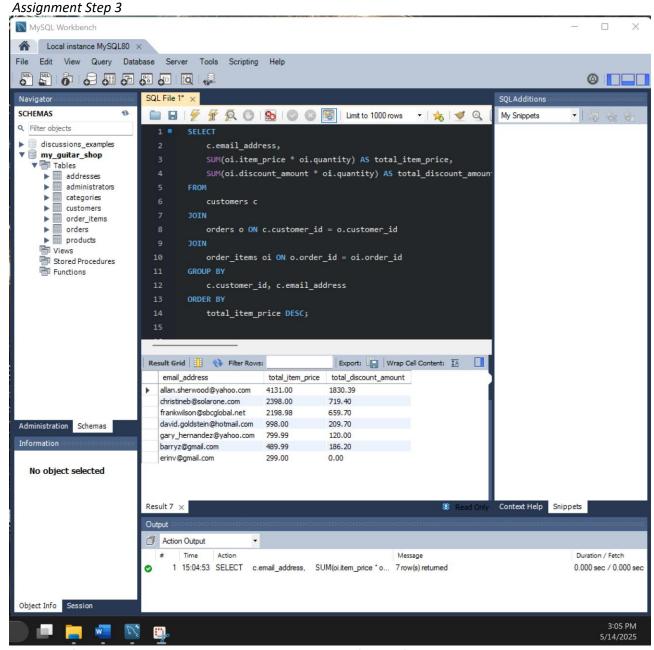
Note: The figure illustrates the MySQL Workbench result after performing steps 2.

Please see the next page.

Step 3: Write a SELECT statement that returns one row for each customer that has orders with these columns:

- The email address column from the Customers table
- The sum of the item price in the <code>Order_Items</code> table multiplied by the quantity in the <code>Order_Items</code> table
- The sum of the discount amount column in the <code>Order_Items</code> table multiplied by the quantity in the <code>Order_Items</code> table
- Sort the result set in descending sequence by the item price total for each customer.

Figure 3



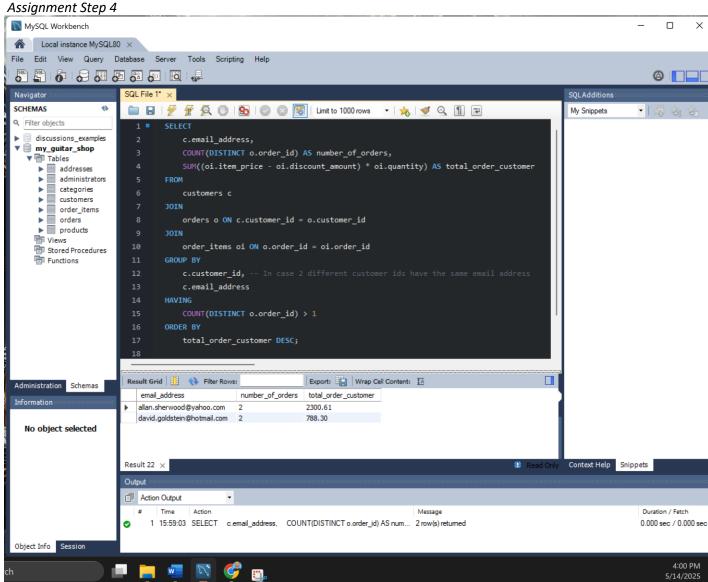
Note: The figure illustrates the MySQL Workbench result after performing steps 3.

Step 4: Write a SELECT statement that returns one row for each customer that has orders with these columns:

- The email address column from the Customers table
- A count of the number of orders
- The total amount for each order (*Hint: First, subtract the discount amount from the price. Then, multiply by the quantity.*)
- Return only those rows where the customer has more than one order.
- Sort the result set in descending sequence by the sum of the line item amounts.

Note that the directions do not ask to incorporate the taxes into the total.

Figure 4



Note: The figure illustrates the MySQL Workbench result after performing steps 4.