# **Critical Thinking Assignment 3: Using Joins**

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ITS410: Database Management

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## **Critical Thinking Assignment 2: Using Joins**

This documentation is part of the Critical Thinking 3 Assignment from ITS410: Database Management at Colorado State University Global. The documentation provides screenshots showcasing using joins using MySQL and the My Guitar Shop database.

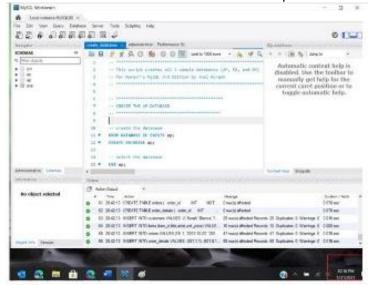
### The Assignment Direction:

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

- Write a SELECT statement that joins the Categories table to the Products table and returns these
  columns: category\_name, product\_name, list\_price.
   Sort the result set by the category\_name column and then by the product\_name column in
  ascending sequence. Execute the query and take a screenshot of the query and the results.
- Write a SELECT statement that joins the Customers table to the Addresses table and returns
  these columns: first\_name, last\_name, line1, city, state, zip\_code.
  Return one row for each address for the customer with an email address
  of <u>allan.sherwood@yahoo.com</u>. Execute the query and take a screenshot of the query and the
  results.
- 3. Write a SELECT statement that joins the Customers table to the Addresses table and returns these columns: first\_name, last\_name, line1, city, state, zip\_code.

  Return one row for each customer, but only return addresses that are the shipping address for a customer. Execute the query and take a screenshot of the query and the results.
- 4. Write a SELECT statement that joins the Customers, Orders, Order\_Items, and Products tables. This statement should return these columns: last\_name, first\_name, order\_date, product\_name, item\_price, discount\_amount, and quantity. Use aliases for the tables.
  Sort the final result set by the last\_name, order\_date, and product\_name columns. Execute the query and take a screenshot of the query and the results.

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

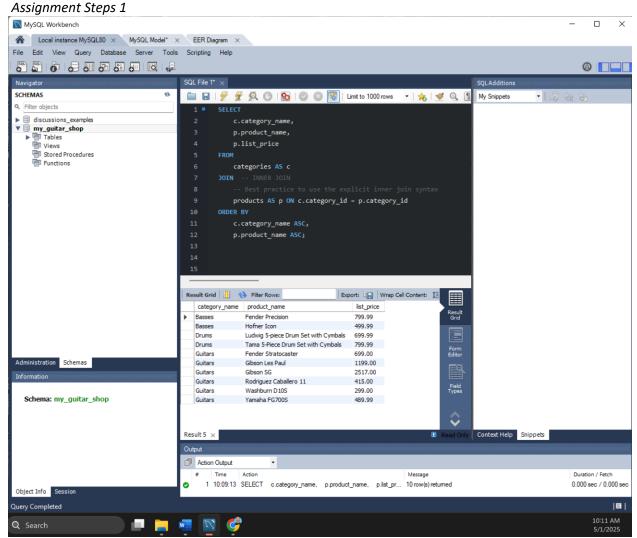


Submit your labeled results screenshots in a Word file.

#### Screenshots

**Step 1:** Note that this step does not specify if the INNER JOIN needs to be an explicit inner join or an implicit inner join; however, it is "considered a best practice to use the explicit inner join syntax" (Murach, 2029, p.126). Therefore, I used an explicit inner join syntax for this step.

Figure 1

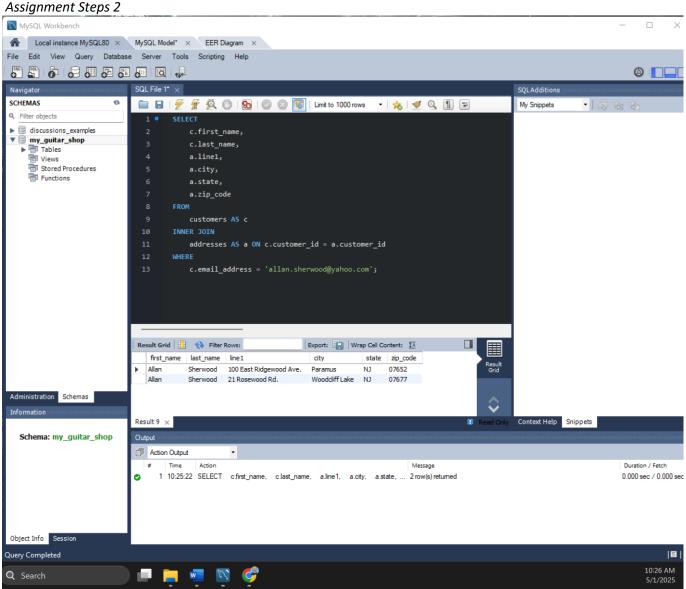


*Note:* The figure illustrates the MySQL Workbench result after performing steps 1.

Please see the next page.

### Step 2

Figure 2

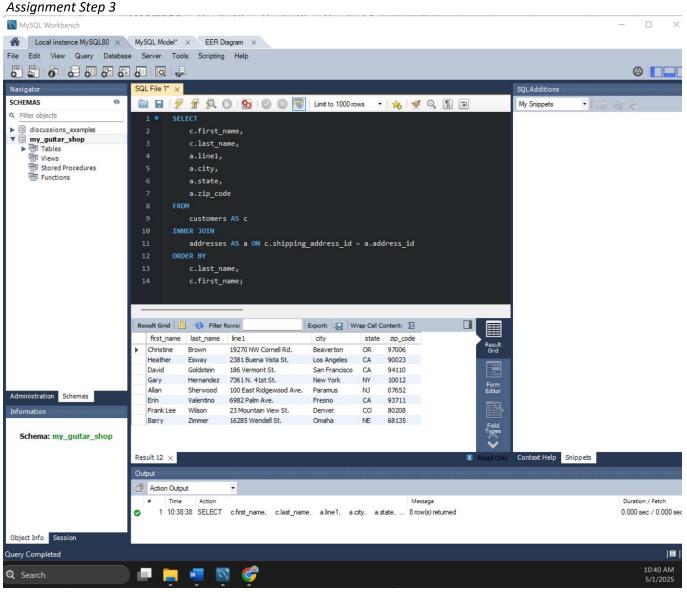


Note: The figure illustrates the MySQL Workbench result after performing steps 2.

Please see the next page.

## Step 3

# Figure 3

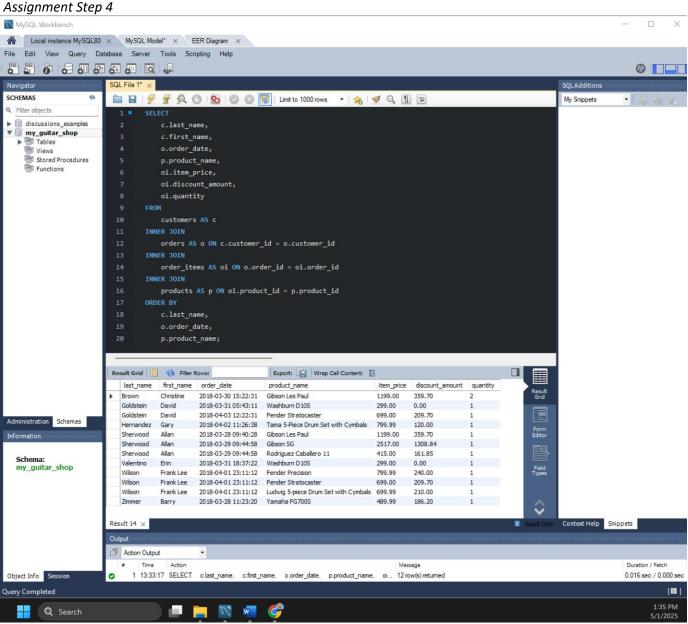


*Note:* The figure illustrates the MySQL Workbench result after performing steps 3.

Please see the next page.

#### Step 4

Figure 4



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

#### Reference:

Murach, J. (2019). Chapter 4: How to retrieve data from two or more tables. *Murach's MySQL* (3rd ed.). Murach Books. ISBN: 9781943872367