

Critical Thinking Assignment 2: Guitar Shop Database

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ITS410: Database Management

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This documentation is part of the Critical Thinking 1 Assignment from ITS410: Database Management at Colorado State University Global. The documentation provides screenshots showcasing the creation of the My Guitar Shop database using a script and additional scripts illustrating basic data querying.

The Assignment Direction:

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

1. Write a SELECT statement that returns four columns from the Products table: product_code, product_name, list_price, and discount_percent. Then, run this statement to make sure it works correctly. Take a screenshot of the query and results.
2. Write a SELECT statement that returns one column from the Customers table named full_name that joins the last_name and first_name columns.

Format this column with the last name, a comma, a space, and the first name like this:

Doe, John

Sort the result set by the last_name column in ascending sequence.

Return only the customers whose last names begin with letters from M to Z. Execute the query and take a screenshot of the query and the results.

NOTE: When comparing strings of characters, 'M' comes before any string of characters that begins with 'M'. For example, 'M' comes before 'Murach'.

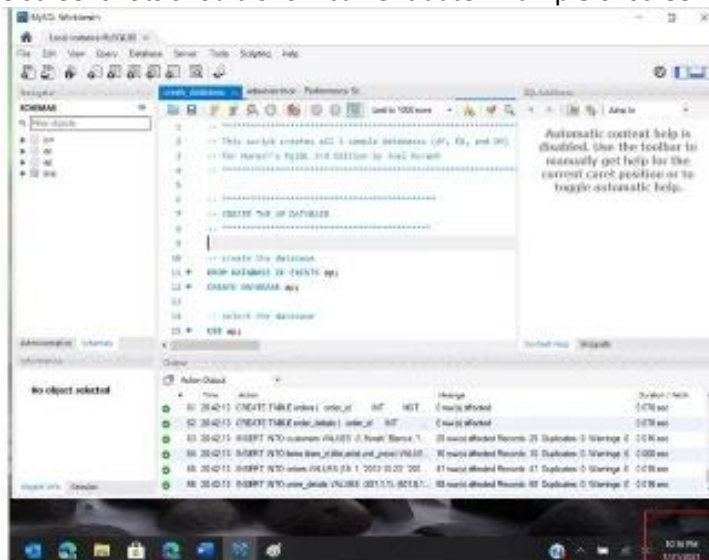
3. Write a SELECT statement that returns these columns from the Products table:

product_name	The product_name column
list_price	The list_price column
date_added	The date_added column

Return only the rows with a list price that's greater than 500 and less than 2000.

Sort the result set by the date_added column in descending sequence. 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

Figure 1
Assignment Steps 1

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with the 'my_guitar_shop' database selected. The 'Tables' list includes 'addresses', 'administrators', and 'products'. The 'SQL File 1*' editor shows a SQL query:

```
1 * SELECT
2   product_code,
3   product_name,
4   list_price,
5   discount_percent
6 FROM
7   products;
8
```

The 'Result Grid' shows the query results:

product_code	product_name	list_price	discount_percent
strat	Fender Stratocaster	699.00	30.00
les_paul	Gibson Les Paul	1199.00	30.00
sg	Gibson SG	2517.00	52.00
fg700s	Yamaha FG700S	489.99	38.00
washburn	Washburn D10S	299.00	0.00
rodriguez	Rodriguez Caballero 11	415.00	39.00
precision	Fender Precision	799.99	30.00
hofner	Hofner Icon	499.99	25.00
ludwig	Ludwig 5-piece Drum Set with Cymbals	699.99	30.00
tama	Tama 5-Piece Drum Set with Cymbals	799.99	15.00

The 'Output' pane at the bottom shows the query execution details:

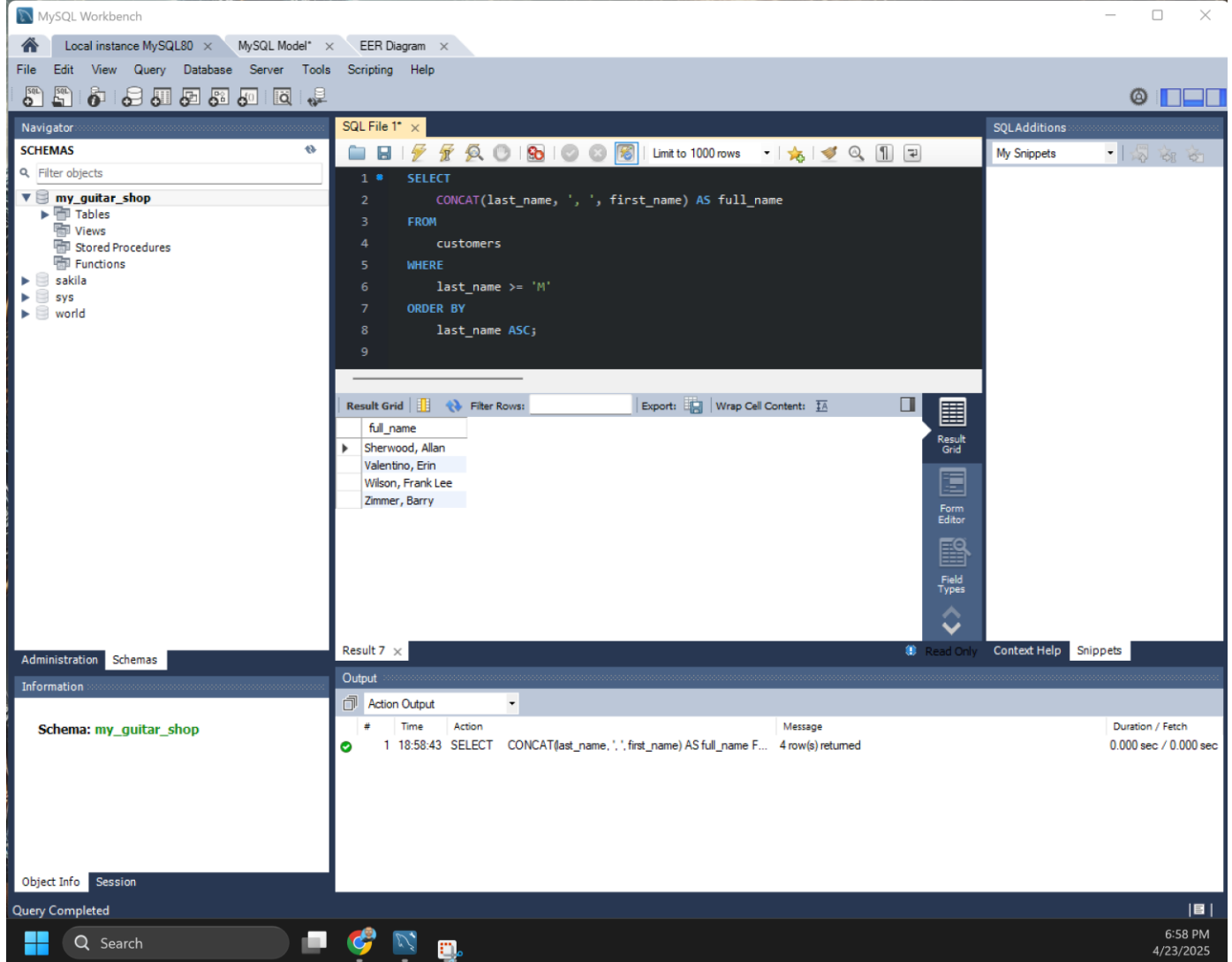
#	Time	Action	Message	Duration / Fetch
1	18:38:32	SELECT	product_code, product_name, list_price, dis... 10 row(s) returned	0.015 sec / 0.000 sec

The status bar at the bottom indicates 'Query Completed' and the system time is 6:52 PM on 4/23/2025.

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

Please see the next page.

Figure 2
Assignment Steps 2



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

Please see the next page.

Figure 3
Assignment Step 3

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar contains a Navigator pane with a SCHEMAS section and a Filter objects search bar. The main workspace is divided into three panes: a SQL Editor, a Result Grid, and an Output pane.

The SQL Editor shows a query in a file named "SQL File 1*":

```
1 SELECT
2     product_name,
3     list_price,
4     date_added
5 FROM
6     products
7 WHERE
8     list_price > 500 AND list_price < 2000
9 ORDER BY
10    date_added DESC;
```

The Result Grid shows the results of the query, limited to 1000 rows. The table has three columns: product_name, list_price, and date_added. The results are as follows:

product_name	list_price	date_added
Tama 5-Piece Drum Set with Cymbals	799.99	2018-07-30 13:14:15
Ludwig 5-piece Drum Set with Cymbals	699.99	2018-07-30 12:46:40
Fender Precision	799.99	2018-06-01 11:29:35
Gibson Les Paul	1199.00	2017-12-05 16:33:13
Fender Stratocaster	699.00	2017-10-30 09:32:40

The Output pane shows the Action Output for the query, indicating that 5 row(s) were returned. The duration of the query was 0.000 sec / 0.000 sec.

The bottom status bar shows "Query Completed" and the system clock is 7:21 PM on 4/23/2025.

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