

C1M2L3 – (Exercise: Record deletion)

Tips: Before you Begin

- To view this file in Preview mode, right click on this LabInstructions.md file and [Open Preview](#)

The goal of this exercise is to teach you how to delete records. You will have the opportunity to practice deleting a record from a table in a database.

Note: You are required to complete this exercise inside MySQL on the Coursera platform. If you have any doubts about how to access it, please view the readme file available in the course webpage.

Scenario

Mr. John Ericson owns a small bookshop. His bookshop database includes a “Customers” table that contains the bookshop’s customers’ details. The image below displays all records of data stored in the customers’ table.

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
mysql> select * from customers;
+-----+-----+-----+
| customerID | customerName | customerAddress |
+-----+-----+-----+
| 1 | Jack | 115 Old street Belfast |
| 2 | James | 24 Carlson Rd London |
| 4 | Maria | 5 Fredrik Rd, Bedford |
| 5 | Jade | 10 Copland Ave Portsmouth |
| 6 | Yasmine | 15 Fredrik Rd, Bedford |
| 3 | Jimmy | 110 Copland Ave Portsmouth |
+-----+-----+-----+
```

Mr. Ericson wants to remove the customer record of Jimmy with ID number 3. The steps below will guide you through the process for deleting Jimmy’s record from the bookshop database.

Instructions

Please attempt the tasks below before you continue so you can check and compare your answers with the solution.

You are expected to have the bookshop database and the customers table created in a previous exercise. You need to populate the customers table with relevant data to complete this exercise. However, before you copy and paste this code, make sure you empty the table to avoid duplication of records. Type:

```
TRUNCATE TABLE customers;
```

Copy and paste the following SQL statement into the SQL terminal section.

```
INSERT INTO `customers` (`customerID`, `customerName`, `customerAddress`)
VALUES
(1, 'Jack', '115 Old street Belfast'),
(2, 'James', '24 Carlson Rd London'),
(4, 'Maria', '5 Fredrik Rd, Bedford'),
(5, 'Jade', '10 Copland Ave Portsmouth '),
(6, 'Yasmine', '15 Fredrik Rd, Bedford'),
(3, 'Jimmy', '110 Copland Ave Portsmouth');
```

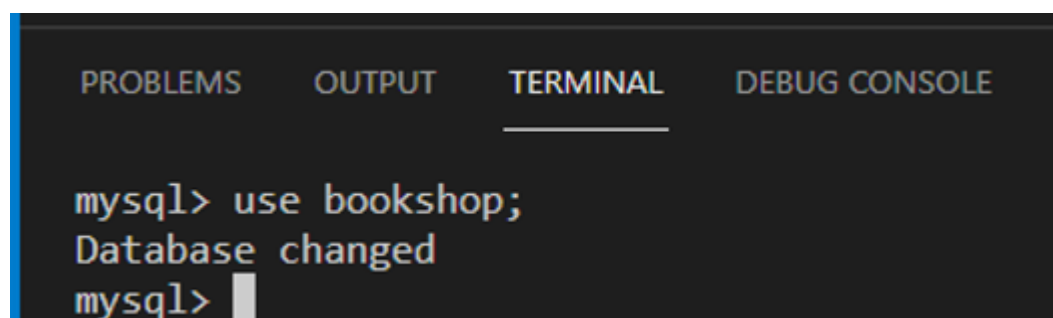
Task 2: Write an SQL statement to delete Jimmy's record from the Customers table.

Delete customer

1.1 Select the database by typing the following SQL statement.

```
Use bookshop;
```

1.2 Click enter.

A screenshot of a MySQL terminal window. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'TERMINAL' (which is selected and underlined), and 'DEBUG CONSOLE'. The terminal shows the command 'mysql> use bookshop;' followed by the output 'Database changed' and a new prompt 'mysql>' with a cursor.

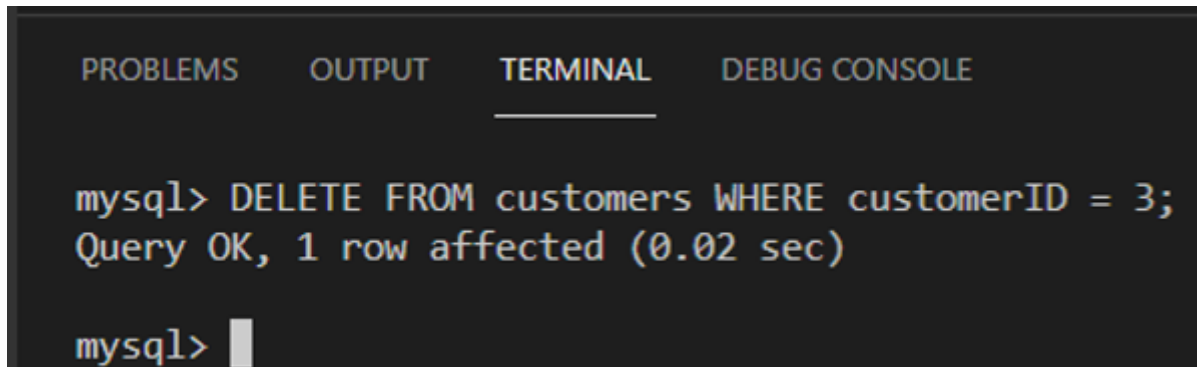
2-Write the SQL statement.

2.1 Write the "DELETE" command, followed by the FROM keyword to identify the source table containing the records. In this case, the table name is called "customers" table.

2.2 Write the WHERE clause followed by the condition to specify the record you want to delete. The condition should be when customerID equals to 3. The full syntax is as follows:

```
DELETE FROM customers WHERE customerID = 3;
```

2.3 Execute the query. Click the enter button on the keyboard. The SQL statement is executed and Jimmy's record is deleted from the bookshop database.

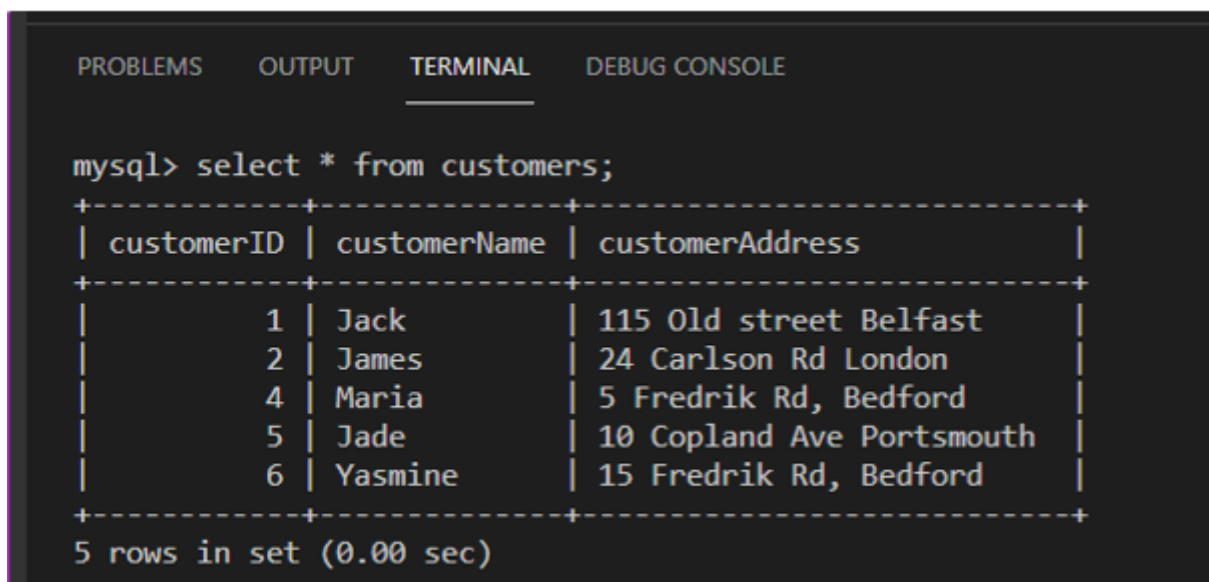


The screenshot shows a terminal window with tabs for PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE. The TERMINAL tab is active. The prompt is 'mysql>'. The command entered is 'DELETE FROM customers WHERE customerID = 3;'. The output is 'Query OK, 1 row affected (0.02 sec)'. The prompt is now 'mysql>' with a cursor.

You can type the following select statement to view the content of the customers table after deleting the record:

```
SELECT * FROM customers;
```

This displays all data that exists the customer table.



The screenshot shows a terminal window with tabs for PROBLEMS, OUTPUT, TERMINAL, and DEBUG CONSOLE. The TERMINAL tab is active. The prompt is 'mysql>'. The command entered is 'select * from customers;'. The output is a table with 5 rows and 3 columns: customerID, customerName, and customerAddress. The prompt is now 'mysql>' with a cursor.

customerID	customerName	customerAddress
1	Jack	115 Old street Belfast
2	James	24 Carlson Rd London
4	Maria	5 Fredrik Rd, Bedford
5	Jade	10 Copland Ave Portsmouth
6	Yasmine	15 Fredrik Rd, Bedford

5 rows in set (0.00 sec)

Notice that the customer record with ID 3 has been removed from the bookshop database.

In this exercise, you have practiced how to delete a record of data from the database using SQL DELETE command.

Additional task (optional)

Mr. Ericson wants to delete the record of the customer Yasmine. Your task now is to remove this customer's details from the customer table.

Solution Write the following SQL statement in the SQL terminal editor, then click enter button to execute it.

```
DELETE FROM customers WHERE customerID = 5;
```