



DAD 220 Module Three Major Activity Database Documentation Template

Overview

Complete these steps as you work through the directions for this activity. Replace the bracketed text with your screenshots and brief explanations of the work they show. Each screenshot and its explanation should be sized to approximately one quarter of the page, with the description written below the screenshot. Follow these rules for each of the prompts and questions below. Review the example document for help.

Create a Database

1. In your integrated development environment (IDE), **create a database schema** called QuantigrationRMA. List out the database name. Provide the SQL commands you ran to successfully complete this in your answer, then connect to it:

The screenshot shows a terminal window within a web-based IDE. The terminal displays the following text:

```
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE SCHEMA QuantigrationRMA;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| Muller |
| QuantigrationRMA |
| mysql |
| performance_schema |
+-----+
5 rows in set (0.02 sec)

mysql> use QauntigrationRMA;
ERROR 1049 (42000): Unknown database 'QauntigrationRMA'
mysql> use QuantigrationRMA;
Database changed
mysql>
```

CREATE SCHEMA QuantigrationRMA;
show databases;
use QuantigrationRMA;

2. Using the entity relationship diagram (ERD) as a reference, **create the following tables with the appropriate attributes and keys:**



- a. A table named **customers** in the QuantigrationRMA database as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

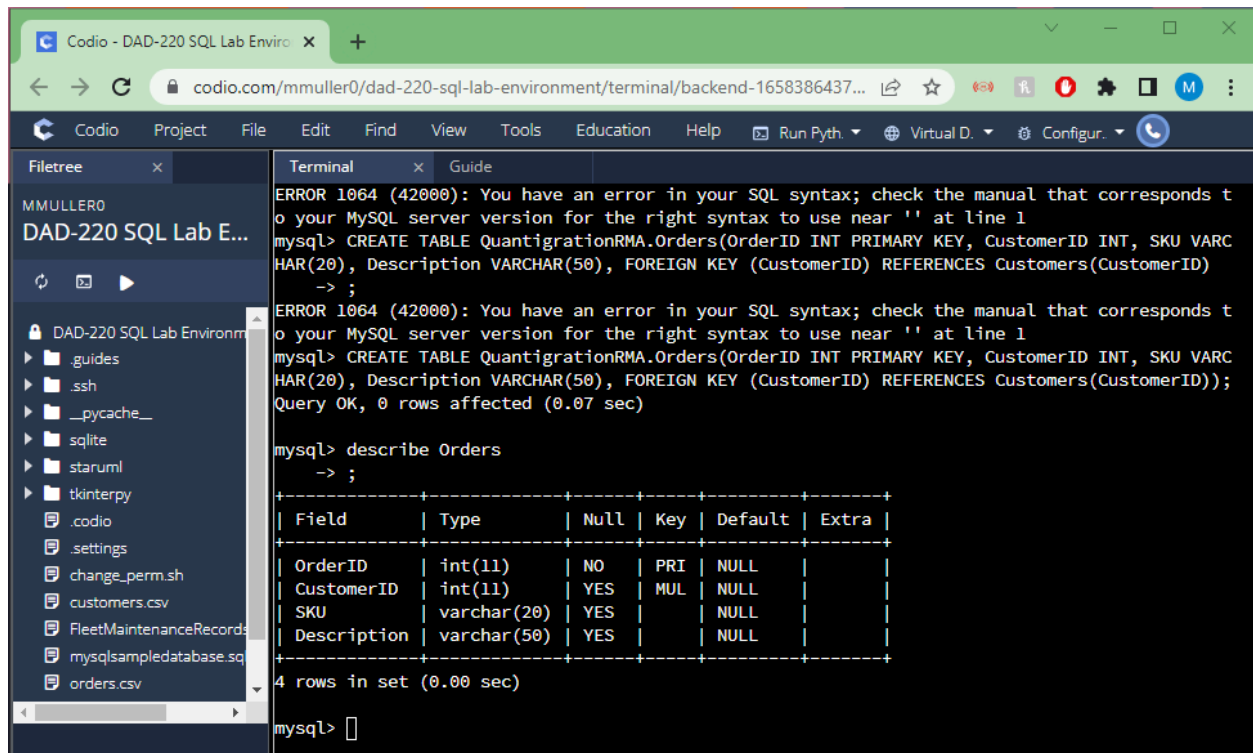
```
QuantigrationRMA
mysql
performance_schema
+-----+
5 rows in set (0.00 sec)

mysql> use QuantigrationRMA
Database changed
mysql> CREATE TABLE QuantigrationRMA.Customers(CustomerID INT PRIMARY KEY, First_Name VARCHAR(25), Last_Name VARCHAR(25), Street VARCHAR(50), City VARCHAR(50), State VARCHAR(25), ZipCode INT, Telephone VARCHAR(15));
Query OK, 0 rows affected (0.06 sec)

mysql> describe Customers;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| CustomerID | int(11)       | NO   | PRI | NULL    |      |
| First_Name  | varchar(25)   | YES  |     | NULL    |      |
| Last_Name   | varchar(25)   | YES  |     | NULL    |      |
| Street      | varchar(50)   | YES  |     | NULL    |      |
| City        | varchar(50)   | YES  |     | NULL    |      |
| State       | varchar(25)   | YES  |     | NULL    |      |
| ZipCode     | int(11)       | YES  |     | NULL    |      |
| Telephone   | varchar(15)   | YES  |     | NULL    |      |
+-----+
8 rows in set (0.00 sec)
```

```
CREATE TABLE QuantigrationRMA.Customers(CustomerID INT PRIMARY KEY, First_Name VARCHAR(25),
Last_Name VARCHAR(25), Street VARCHAR(50), City VARCHAR(50), State VARCHAR(25), ZipCode INT,
Telephone VARCHAR(15));
describe Customers;
```

- b. A table named **orders** in the QuantigrationRMA database as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:



```

mysql> CREATE TABLE QuantigrationRMA.Orders(OrderID INT PRIMARY KEY, CustomerID INT, SKU VARCHAR(20), Description VARCHAR(50), FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> CREATE TABLE QuantigrationRMA.Orders(OrderID INT PRIMARY KEY, CustomerID INT, SKU VARCHAR(20), Description VARCHAR(50), FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID));
Query OK, 0 rows affected (0.07 sec)

mysql> describe Orders
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| OrderID | int(11) | NO | PRI | NULL | |
| CustomerID | int(11) | YES | MUL | NULL | |
| SKU | varchar(20) | YES | | NULL | |
| Description | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

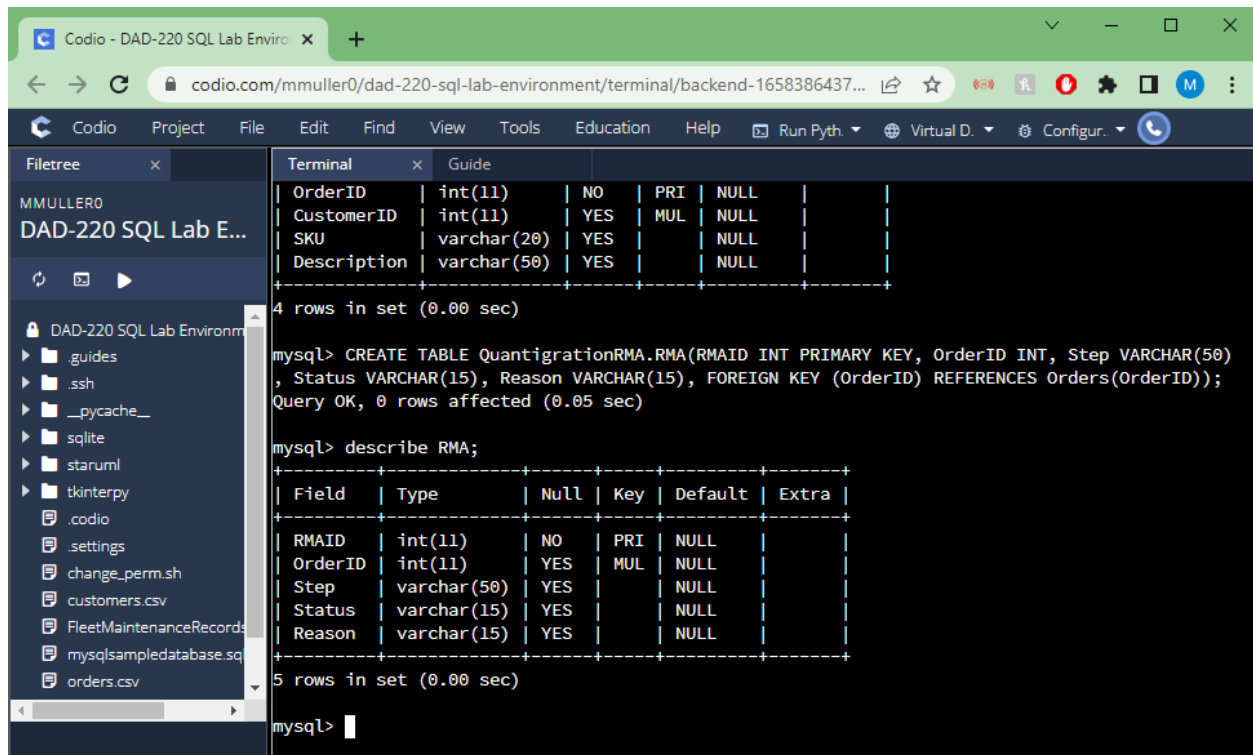
mysql>

```

CREATE TABLE QuantigrationRMA.Orders(OrderID INT PRIMARY KEY, CustomerID INT, SKU VARCHAR(20), Description VARCHAR(50), FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID));

describe Orders;

- c. A table named **rma** in the QuantigrationRMA database as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:



```

mysql> describe Orders;
+-----+-----+-----+-----+-----+-----+
| OrderID | int(11) | NO | PRI | NULL | |
| CustomerID | int(11) | YES | MUL | NULL | |
| SKU | varchar(20) | YES | | NULL | |
| Description | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> CREATE TABLE QuantigrationRMA.RMA(RMAID INT PRIMARY KEY, OrderID INT, Step VARCHAR(50), Status VARCHAR(15), Reason VARCHAR(15), FOREIGN KEY (OrderID) REFERENCES Orders(OrderID));
Query OK, 0 rows affected (0.05 sec)

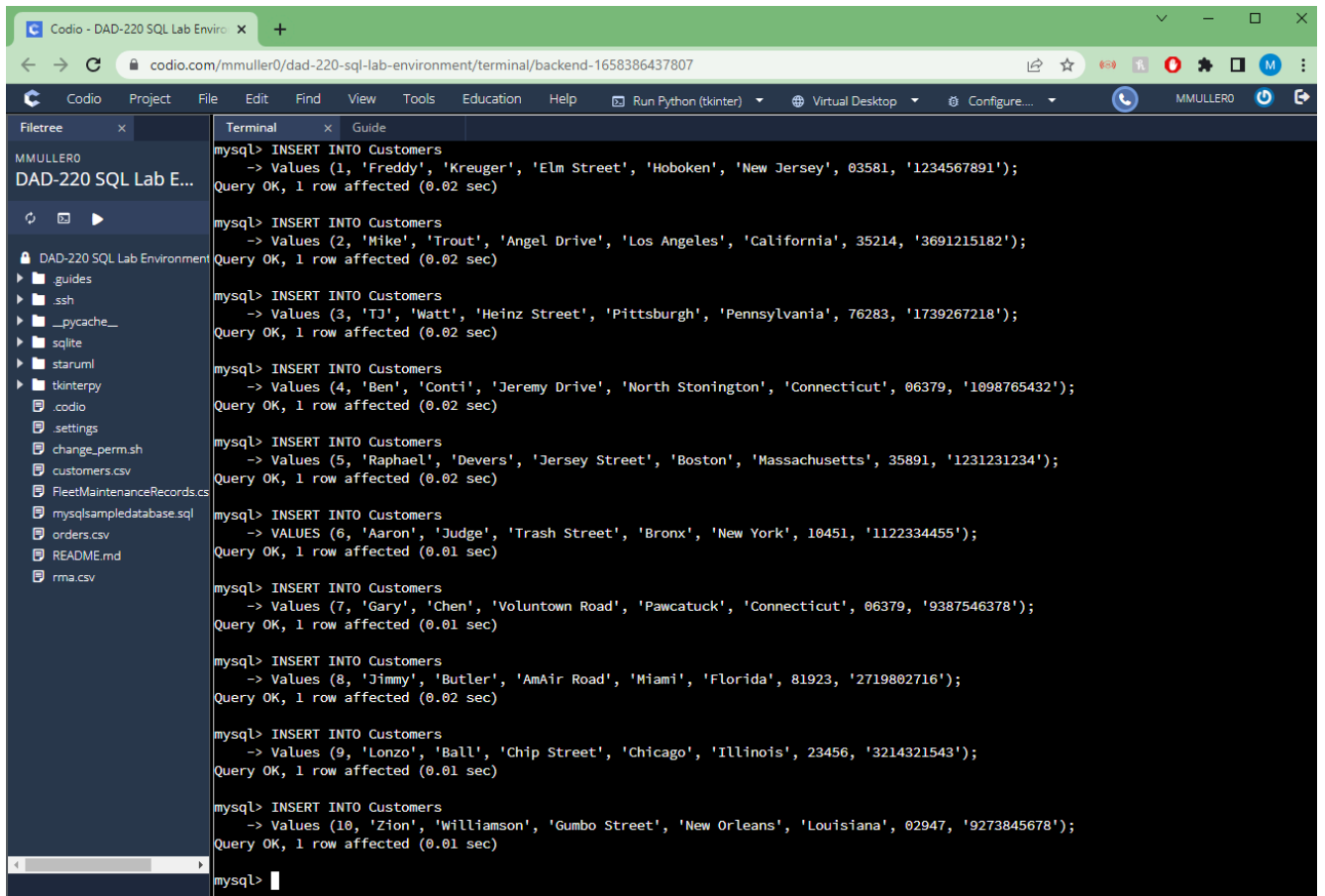
mysql> describe RMA;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| RMAID | int(11) | NO | PRI | NULL | |
| OrderID | int(11) | YES | MUL | NULL | |
| Step | varchar(50) | YES | | NULL | |
| Status | varchar(15) | YES | | NULL | |
| Reason | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>

```

CREATE TABLE QuantigrationRMA.RMA(RMAID INT PRIMARY KEY, OrderID INT, Step VARCHAR(50), Status VARCHAR(15), Reason VARCHAR(15), FOREIGN KEY (OrderID) REFERENCES Orders(OrderID));
describe RMA;

3. Manually **add 10 records** into the **Customers table**. The data can be made up for now, as you you'll populate all three tables later from the provided CSV files.



```

mysql> INSERT INTO Customers
  -> Values (1, 'Freddy', 'Kreuger', 'Elm Street', 'Hoboken', 'New Jersey', 03581, '1234567891');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Customers
  -> Values (2, 'Mike', 'Trout', 'Angel Drive', 'Los Angeles', 'California', 35214, '3691215182');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Customers
  -> Values (3, 'TJ', 'Watt', 'Heinz Street', 'Pittsburgh', 'Pennsylvania', 76283, '1739267218');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Customers
  -> Values (4, 'Ben', 'Conti', 'Jeremy Drive', 'North Stonington', 'Connecticut', 06379, '1098765432');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Customers
  -> Values (5, 'Raphael', 'Devers', 'Jersey Street', 'Boston', 'Massachusetts', 35891, '1231231234');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Customers
  -> VALUES (6, 'Aaron', 'Judge', 'Trash Street', 'Bronx', 'New York', 10451, '1122334455');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customers
  -> Values (7, 'Gary', 'Chen', 'Voluntown Road', 'Pawcatuck', 'Connecticut', 06379, '9387546378');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customers
  -> Values (8, 'Jimmy', 'Butler', 'AmAir Road', 'Miami', 'Florida', 81923, '2719802716');
Query OK, 1 row affected (0.02 sec)

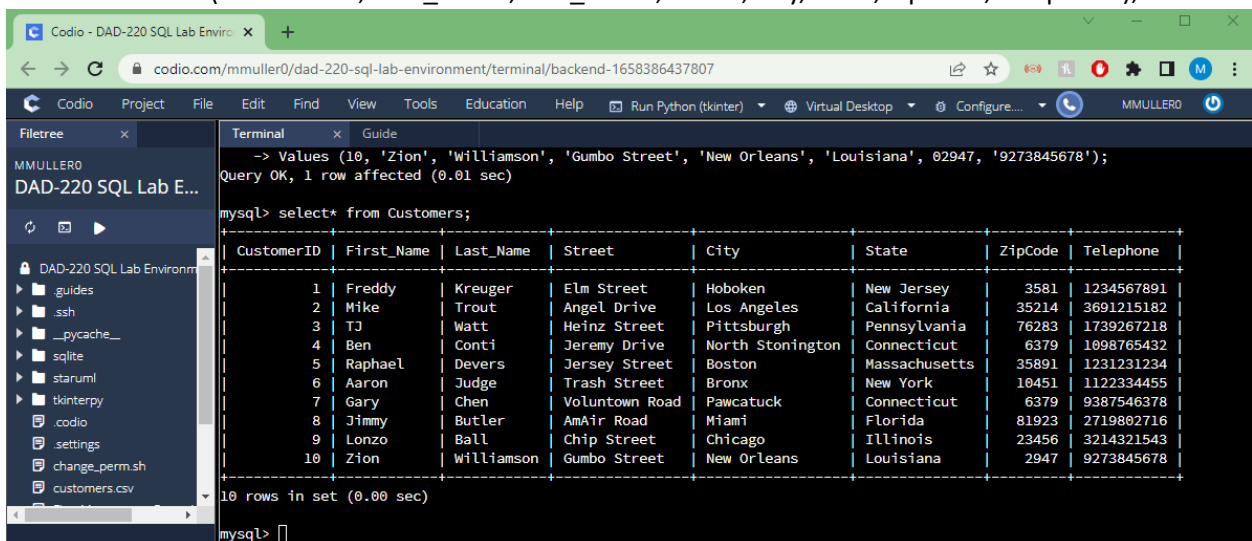
mysql> INSERT INTO Customers
  -> Values (9, 'Lonzo', 'Ball', 'Chip Street', 'Chicago', 'Illinois', 23456, '3214321543');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customers
  -> Values (10, 'Zion', 'Williamson', 'Gumbo Street', 'New Orleans', 'Louisiana', 02947, '9273845678');
Query OK, 1 row affected (0.01 sec)

mysql>

```

INSERT INTO Customers
VALUES (CustomerID, First_Name, Last_Name, Street, City, State, ZipCode, Telephone);



```

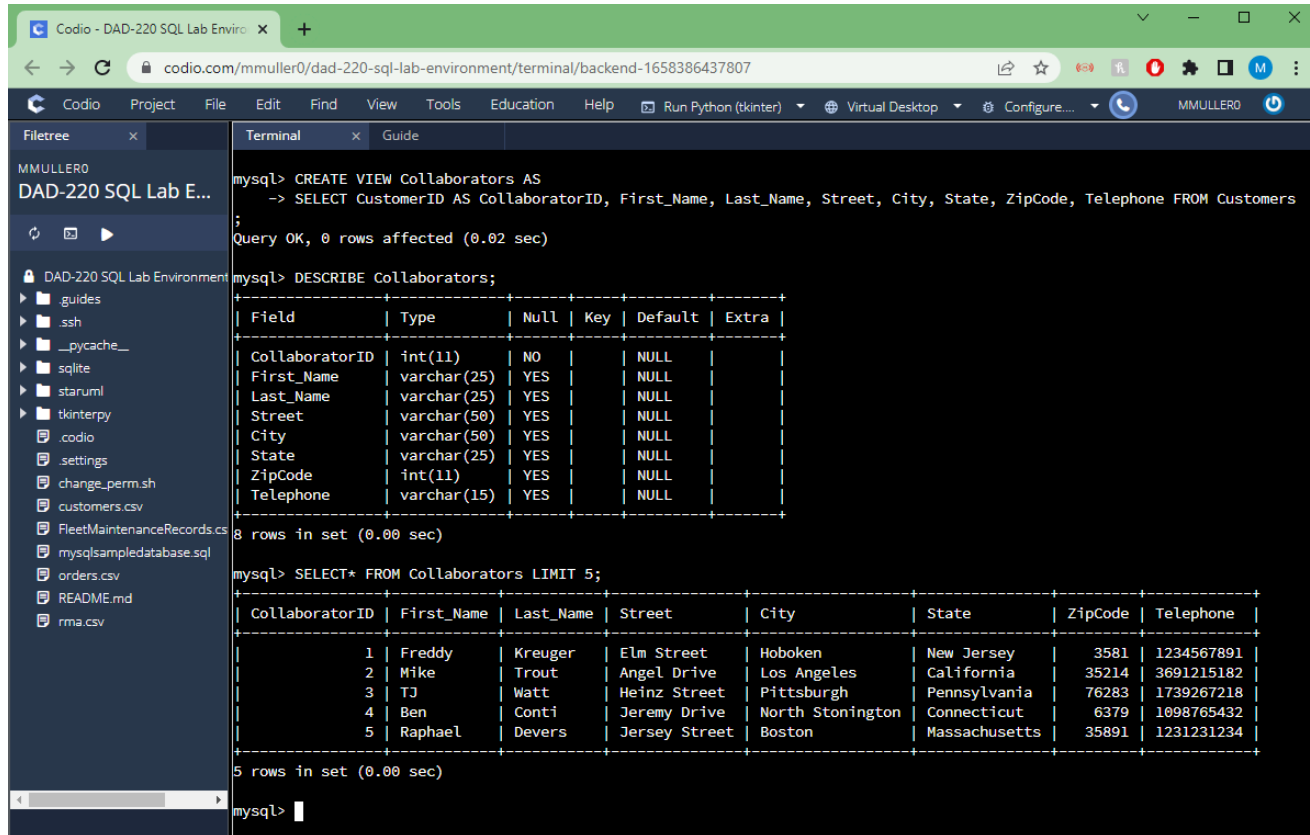
mysql> select* from Customers;
+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | First_Name | Last_Name | Street | City | State | ZipCode | Telephone |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Freddy | Kreuger | Elm Street | Hoboken | New Jersey | 3581 | 1234567891 |
| 2 | Mike | Trout | Angel Drive | Los Angeles | California | 35214 | 3691215182 |
| 3 | TJ | Watt | Heinz Street | Pittsburgh | Pennsylvania | 76283 | 1739267218 |
| 4 | Ben | Conti | Jeremy Drive | North Stonington | Connecticut | 6379 | 1098765432 |
| 5 | Raphael | Devers | Jersey Street | Boston | Massachusetts | 35891 | 1231231234 |
| 6 | Aaron | Judge | Trash Street | Bronx | New York | 10451 | 1122334455 |
| 7 | Gary | Chen | Voluntown Road | Pawcatuck | Connecticut | 6379 | 9387546378 |
| 8 | Jimmy | Butler | AmAir Road | Miami | Florida | 81923 | 2719802716 |
| 9 | Lonzo | Ball | Chip Street | Chicago | Illinois | 23456 | 3214321543 |
| 10 | Zion | Williamson | Gumbo Street | New Orleans | Louisiana | 2947 | 9273845678 |
+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>

```

select* from Customers;

4. Create a view from the **existing Customers table** by using the SQL command provided below to say "Collaborators." The view should show all instances of "Customer" renamed as "Collaborator."



```
mysql> CREATE VIEW Collaborators AS
-> SELECT CustomerID AS CollaboratorID, First_Name, Last_Name, Street, City, State, ZipCode, Telephone FROM Customers
;
Query OK, 0 rows affected (0.02 sec)

mysql> DESCRIBE Collaborators;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CollaboratorID | int(11)       | NO   |     | NULL    |       |
| First_Name     | varchar(25)   | YES  |     | NULL    |       |
| Last_Name      | varchar(25)   | YES  |     | NULL    |       |
| Street         | varchar(50)   | YES  |     | NULL    |       |
| City          | varchar(50)   | YES  |     | NULL    |       |
| State         | varchar(25)   | YES  |     | NULL    |       |
| ZipCode       | int(11)       | YES  |     | NULL    |       |
| Telephone      | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> SELECT* FROM Collaborators LIMIT 5;
+-----+-----+-----+-----+-----+-----+-----+-----+
| CollaboratorID | First_Name | Last_Name | Street      | City          | State          | ZipCode | Telephone |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Freddy | Kreuger | Elm Street  | Hoboken       | New Jersey    | 3581    | 1234567891 |
| 2 | Mike  | Trout  | Angel Drive | Los Angeles   | California    | 35214   | 3691215182 |
| 3 | TJ    | Watt   | Heinz Street | Pittsburgh    | Pennsylvania   | 76283   | 1739267218 |
| 4 | Ben   | Conti  | Jeremy Drive | North Stonington | Connecticut    | 6379   | 1098765432 |
| 5 | Raphael | Devers | Jersey Street | Boston        | Massachusetts  | 35891   | 1231231234 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

```
CREATE VIEW Collaborators AS
SELECT CustomerID AS CollaboratorID, First_Name, Last_Name, Street, City, State, ZipCode, Telephone
FROM Customers;
DESCRIBE Collaborators;
SELECT* FROM Collaborators LIMIT 5;
```