

Haley Candia Perez

September 6, 2023

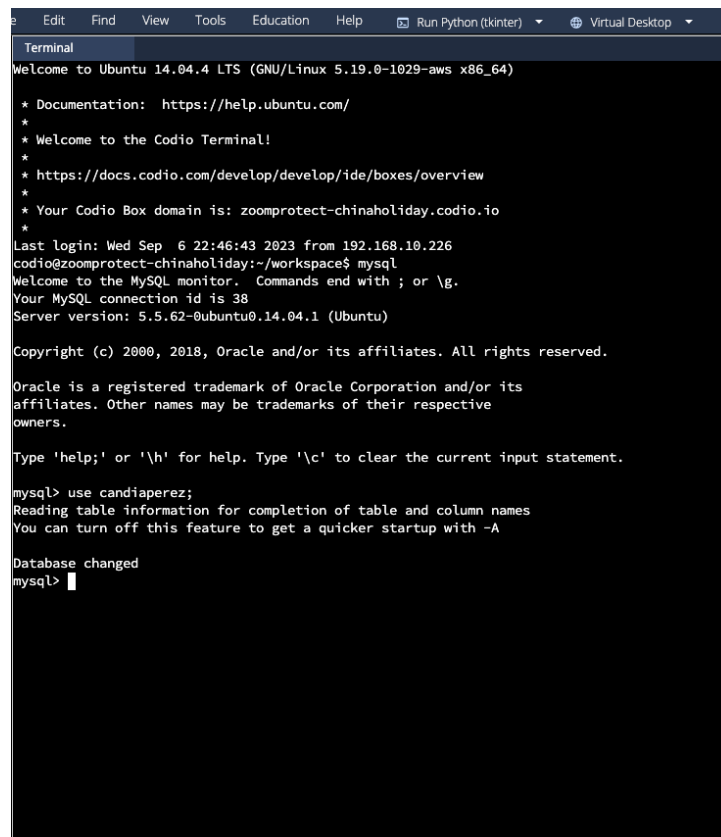
Module Two Lab

DAD-220

1. Connect to the database you created and named in Module One (for example, Jetson). Type after the prompt `mysql>`

use (table you named);

Example: `mysql> use Jetson;`



```
Terminal
Welcome to Ubuntu 14.04.4 LTS (GNU/Linux 5.19.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com/
 *
 * Welcome to the Codio Terminal!
 *
 * https://docs.codio.com/develop/develop/ide/boxes/overview
 *
 * Your Codio Box domain is: zoomprotect-chinaholiday.codio.io
 *
Last login: Wed Sep  6 22:46:43 2023 from 192.168.10.226
codio@zoomprotect-chinaholiday:~/workspace$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 38
Server version: 5.5.62-0ubuntu0.14.04.1 (Ubuntu)

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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> use candiaperez;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> 
```

2. Create the Employee table using the SQL statement shown here. Press Return after each line.

```
Terminal
*
* https://docs.codio.com/develop/develop/ide/boxes/overview
*
* Your Codio Box domain is: zoomprotect-chinaholiday.codio.io
*
Last login: Wed Sep  6 22:46:43 2023 from 192.168.10.226
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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> use candiaperez;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> CREATE TABLE Employee (
-> Employee_ID SMALLINT,
-> First_Name VARCHAR(40),
-> Last_Name VARCHAR(60),
-> Department_ID SMALLINT,
-> Classification VARCHAR(10),
-> STATUS VARCHAR(10),
-> Salary DECIMAL(7,2));
Query OK, 0 rows affected (0.05 sec)

mysql> show tables;
+-----+
| Tables_in_candiaperez |
+-----+
| Employee              |
| tb2                   |
+-----+
2 rows in set (0.00 sec)

mysql>
```

3. Create the Branches table. Fill in the missing characters or punctuation in the incomplete statement shown below to complete this action.

```
Terminal
-> Salary DECIMAL(7,2));
Query OK, 0 rows affected (0.05 sec)

mysql> show tables;
+-----+
| Tables_in_candiaperez |
+-----+
| Employee              |
| tb2                   |
+-----+
2 rows in set (0.00 sec)

mysql> CREATE Branches (
-> Department_ID SMALLINT,
-> Department_Name VARCHAR(50));
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 'Bra
nches (
Department_ID SMALLINT,
Department_Name VARCHAR(50))' at line 1
mysql> CREATE TABLE Branches (
-> Department_ID SMALLINT,
-> Department_Name VARCHAR(50));
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 'Bra
nches (
Department_ID SMALLINT,
Department_Name VARCHAR(50))' at line 1
mysql> CREATE TABLE Branches (
-> Department_ID SMALLINT,
-> Department_Name VARCHAR(50));
Query OK, 0 rows affected (0.16 sec)

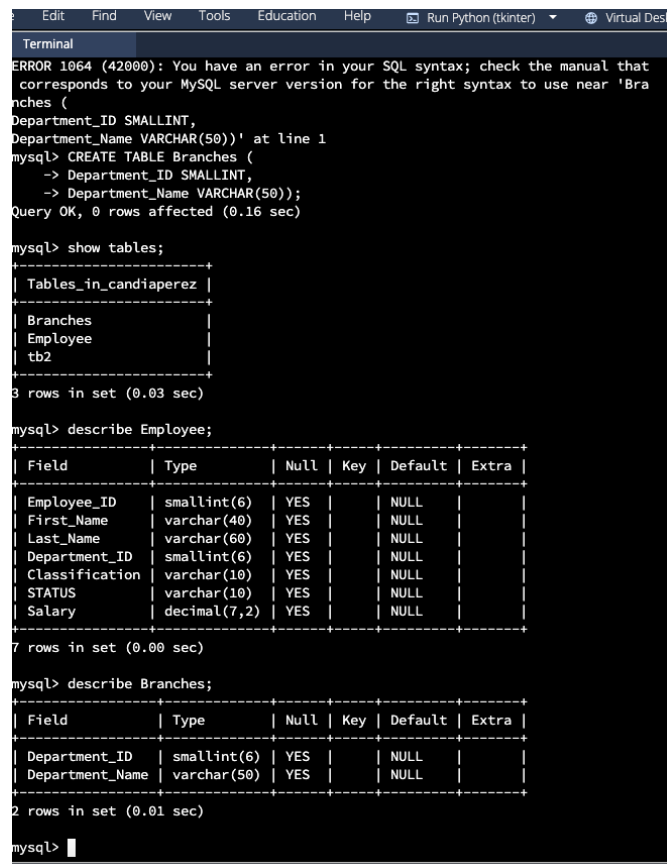
mysql> show tables;
+-----+
| Tables_in_candiaperez |
+-----+
| Branches              |
| Employee              |
| tb2                   |
+-----+
3 rows in set (0.03 sec)

mysql>
```

4. After creating the tables, use the correct commands to describe them . You'll only be given commands to describe one of the tables and must complete the same action for the second one on your own. Validate your work with a screenshot.

describe Employee;

Write the correct command to describe the Branches table



```
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 'Bra
anches (
Department_ID SMALLINT,
Department_Name VARCHAR(50))' at line 1
mysql> CREATE TABLE Branches (
-> Department_ID SMALLINT,
-> Department_Name VARCHAR(50));
Query OK, 0 rows affected (0.16 sec)

mysql> show tables;
+-----+
| Tables_in_candiaperez |
+-----+
| Branches              |
| Employee              |
| tb2                   |
+-----+
3 rows in set (0.03 sec)

mysql> describe Employee;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Employee_ID    | smallint(6)   | YES  |     | NULL    |       |
| First_Name     | varchar(40)    | YES  |     | NULL    |       |
| Last_Name      | varchar(60)    | YES  |     | NULL    |       |
| Department_ID  | smallint(6)   | YES  |     | NULL    |       |
| Classification | varchar(10)    | YES  |     | NULL    |       |
| STATUS         | varchar(10)    | YES  |     | NULL    |       |
| Salary         | decimal(7,2)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> describe Branches;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Department_ID  | smallint(6)   | YES  |     | NULL    |       |
| Department_Name | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> 
```

5. Insert the following records into the Employee table (with support) . Each line going from left to right is a record. Each line going from top to bottom is a column. Validate your work with a screenshot.

```

Edit Find View Tools Help Run Python (kinter) Virtual Desktop Virtual Machine
Terminal
| tb2 |
|-----|
3 rows in set (0.03 sec)

mysql> describe Employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Employee_ID | smallint(6) | YES | | NULL | |
| First_Name | varchar(40) | YES | | NULL | |
| Last_Name | varchar(60) | YES | | NULL | |
| Department_ID | smallint(6) | YES | | NULL | |
| Classification | varchar(10) | YES | | NULL | |
| STATUS | varchar(10) | YES | | NULL | |
| Salary | decimal(7,2) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> describe Branches;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Department_ID | smallint(6) | YES | | NULL | |
| Department_Name | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> INSERT INTO Employee VALUES (100, 'John', 'Smith', 1, 'Exempt', 'Full-Time', 90000);
-> (101, 'Mary', 'Jones', 2, 'Non-Exempt', 'Part-Time', 35000);
-> (102, 'Mary', 'Williams', 3, 'Exempt', 'Full-Time', 80000);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from Employee;
+-----+-----+-----+-----+-----+-----+-----+
| Employee_ID | First_Name | Last_Name | Department_ID | Classification | STATUS | Salary |
+-----+-----+-----+-----+-----+-----+-----+
| 100 | John | Smith | 1 | Exempt | Full-Time | 90000.00 |
| 101 | Mary | Jones | 2 | Non-Exempt | Part-Time | 35000.00 |
| 102 | Mary | Williams | 3 | Exempt | Full-Time | 80000.00 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>

```

6(A, B, C). Insert the following records into the Employee table for Gwen Johnson and Michael Jones by writing the correct SQL commands on your own (without support). Insert your name into the table to verify and prove your work. Type the command `select* from Employee`; and take a screenshot of it to validate this step.

```
mysql> INSERT INTO Employee VALUES (103, 'Gwen', 'Johnson', 4, 'NULL', 'Full-Time', 40000),
    -> (104, 'Michael', 'Jones', 4, 'Non-Exempt', 'Full-Time', 90000),
    -> (105, 'Haley', 'Candia', 1, 'Non-Exempt', 'Full-time', 75000);
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from Employee;
+-----+-----+-----+-----+-----+-----+
| Employee_ID | First_Name | Last_Name | Department_ID | Classification | STATUS | Salary |
+-----+-----+-----+-----+-----+-----+
| 100 | John | Smith | 1 | Exempt | Full-Time | 90000.00 |
| 101 | Mary | Jones | 2 | Non-Exempt | Part-Time | 35000.00 |
| 102 | Mary | Williams | 3 | Exempt | Full-Time | 80000.00 |
| 103 | Gwen | Johnson | 4 | NULL | Full-Time | 40000.00 |
| 104 | Michael | Jones | 4 | Non-Exempt | Full-Time | 90000.00 |
| 105 | Haley | Candia | 1 | Non-Exempt | Full-time | 75000.00 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>
```

6(E, F). Insert records for a musician, athlete, or other famous character of your choice. Make sure to enter information for all of the fields listed in this table. The Department\_ID must be a number between 1 and 4.

Write the correct command to prove that you've successfully completed this step, and validate it with a screenshot.

```
Database changed
mysql> INSERT INTO Employee VALUES (106, 'Beyonce', 'Knowles', 2, 'Non-Exempt', 'Full-Time', 99000);
Query OK, 1 row affected (0.02 sec)

mysql> select * from Employee;
+-----+-----+-----+-----+-----+-----+-----+
| Employee_ID | First_Name | Last_Name | Department_ID | Classification | STATUS | Salary |
+-----+-----+-----+-----+-----+-----+-----+
| 100 | John | Smith | 1 | Exempt | Full-Time | 90000.00 |
| 101 | Mary | Jones | 2 | Non-Exempt | Part-Time | 35000.00 |
| 102 | Mary | Williams | 3 | Exempt | Full-Time | 80000.00 |
| 103 | Gwen | Johnson | 4 | NULL | Full-Time | 40000.00 |
| 104 | Michael | Jones | 4 | Non-Exempt | Full-Time | 90000.00 |
| 105 | Haley | Candia | 1 | Non-Exempt | Full-time | 75000.00 |
| 106 | Beyonce | Knowles | 2 | Non-Exempt | Full-Time | 99000.00 |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> 
```

7. Select the fields of last name, first name, and department id from the table. Validate your work with a screenshot.

Select First\_Name, Last\_Name, Employee\_ID, Department\_ID from Employee;

```
mysql> Select First_Name, Last_Name, Employee_ID, Department_ID from Employee;
+-----+-----+-----+-----+
| First_Name | Last_Name | Employee_ID | Department_ID |
+-----+-----+-----+-----+
| John | Smith | 100 | 1 |
| Mary | Jones | 101 | 2 |
| Mary | Williams | 102 | 3 |
| Gwen | Johnson | 103 | 4 |
| Michael | Jones | 104 | 4 |
| Haley | Candia | 105 | 1 |
| Beyonce | Knowles | 106 | 2 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> 
```