

2-4 Lab: Updating Tables

The screenshot shows a Codiio IDE interface with a Filetree on the left and a Terminal window on the right. The Filetree displays a project named 'DAD-220 SQL Lab E...' with a folder structure including .ssh, __pycache__, infrastructure.cpython..., sqlite, rma, chinook.db, and staruml. The Terminal window shows the following MySQL commands and output:

```
mysql> use Muller;
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> CREATE TABLE Branches(
  -> Department_ID SMALLINT,
  -> Department_Name VARCHAR(50));
Query OK, 0 rows affected (0.05 sec)
```

The screenshot shows the same Codiio IDE interface, but the Filetree now includes a 'tkinterpy' folder with files like __pycache__, demo.py, infrastructure.py, .settings, change_perm.sh, customers.csv, FleetMaintenanceRecords, and mysqlsampledatabase.sql. The Terminal window shows the following MySQL commands and output:

```
mysql> CREATE TABLE Branches(
  -> Department_ID SMALLINT,
  -> Department_Name VARCHAR(50));
Query OK, 0 rows affected (0.05 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 (0.00 sec)

mysql>
```

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Filetree x

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DAD-220 SQL Lab E...

DAD-220 SQL Lab Environm

- ssh
 - authorized_keys
- __pycache__
 - infrastructure.cpython-
- sqlite
 - rma
 - chinook.db
 - staruml

Guide Terminal x

```
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 (0.02 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 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

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Filetree x

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DAD-220 SQL Lab E...

DAD-220 SQL Lab Environm

- ssh
 - authorized_keys
- __pycache__
 - infrastructure.cpython-
- sqlite
 - rma
 - chinook.db
 - staruml
 - model.mdj
 - tkinterpy
 - __pycache__

Guide Terminal x

```
mysql> INSERT INTO Employee
-> VALUES (103, 'Gwen', 'Johnson', 4, NULL, 'Full-Time', 40000),
-> (104, 'Michael', 'Jones', 4, 'Non-Exempt', 'Full-Time', 90000),
-> (105, 'Matthew', 'Muller', 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 | Matthew | Muller | 1 | Non-Exempt | Full-Time | 75000.00 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>
```

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Filetree x

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DAD-220 SQL Lab Environm

- ssh
 - authorized_keys
- __pycache__
 - infrastructure.cpython-
- sqlite

Guide Terminal x

```
mysql> INSERT INTO Employee
-> VALUES (106, 'Elvis', 'Presley', 2, 'Exempt', 'Full-Time', 99000);
Query OK, 1 row affected (0.02 sec)

mysql> select* from Employee where First_Name = 'Elvis';
+-----+-----+-----+-----+-----+-----+-----+
| Employee_ID | First_Name | Last_Name | Department_ID | Classification | STATUS | Salary |
+-----+-----+-----+-----+-----+-----+-----+
| 106 | Elvis | Presley | 2 | Exempt | Full-Time | 99000.00 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

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Filetree x

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DAD-220 SQL Lab Environm

.ssh

authorized_keys

__pycache__

infrastructure.cpython-

sqlite

rma

GuideTerminal x

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
Matthew	Muller	105	1
Elvis	Presley	106	2

7 rows in set (0.00 sec)

mysql>