DAD 220 Prof. Aastha Agarwal Alexander Ahmann 11 March, 2022

PLEASE NOTE that I gave each task its own page as to avoid "placement" issues regarding screenshots.

1. Connect to the database you created and named in Module One.

```
codio@mangogorilla-ohiochef:~/workspace$ mysql
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 36
Server version: 5.5.62-0ubuntu0.14.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its 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 ahmann;
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.

```
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)
);
```

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

```
CREATE Branches (
    Department_ID SMALLINT,
    Department_Name
)

The finished query to work out the solution is:

CREATE TABLE Branches (
    Department_ID SMALLINT,
    Department_Name VARCHAR(50)
);

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

4. After creating the tables, use the correct commands to describe them. You will 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.

The query to describe the branches table is: "DESCRIBE Branches;"

mysql> DESCRIBE En	nployee;				
Field	Туре	Null	Key	Default	Extra
Employee_ID First_Name Last_Name Department_ID Classification STATUS Salary	smallint(6) varchar(40) varchar(60) smallint(6) varchar(10) varchar(10) decimal(7,2)	YES YES YES YES YES YES YES YES YES		NULL NULL NULL NULL NULL NULL	
7 rows in set (0.6					
Field	Type	Null	Key	Default	Extra
Department_ID Department_Name	smallint(6) varchar(50)	YES YES		NULL NULL	
2 rows in set (0.0	00 sec)				

5. Insert the following records into the Employee table. Each line going from left to right is a record. Each line going from top to bottom is a column. Type the command select * from Employee; and take a screenshot of it to validate this step. Validate your work with a screenshot.

```
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);
```

```
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',8
0000);
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
                                                                                         Full-Time | 90000.00
                John
                                  Smith
                                                               1 | Exempt
           101
                  Mary
                                                               2 | Non-Exempt
                                                                                         Part-Time
                                                                                                       35000.00
                                  Williams
                                                                                        Full-Time | 80000.00
           102
                  Mary
                                                               3 | Exempt
 rows in set (0.00 sec)
```

6. Insert the records into the Employee table for Gwen Johnson and Michael Jones by writing the correct SQL commands on your own.

```
mysql> INSERT INTO Employee (Employee_ID, First_Name, Last_Name, Department_ID, Classification, S
TATUS, Salary) VALUES (103, "Gwen", "Johnson", 4, NULL, "Full-Time", 40000);
Query OK, 1 row affected (0.02 sec)
mysql> INSERT INTO Employee (Employee_ID, First_Name, Last_Name, Department_ID, Classification, S
TATUS, Salary) VALUES (104, "Michael", "Jones", 4, "Non-Exempt", "Full-Time", 90000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Employee (Employee_ID, First_Name, Last_Name, Department_ID, Classification, S
TATUS, Salary) VALUES (105, "Alexander", "Ahmann", 1, "Non-Exempt", "Full-Time", 51342);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Employee (Employee_ID, First_Name, Last_Name, Department_ID, Classification, S
TATUS, Salary) VALUES (106, "Rocking", "Philosophy", 4, "Exempt", "Full-Time", 777);
Query OK, 1 row affected (0.01 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
                                                                         2 | Non-Exempt
3 | Exempt
4 | NULL
             101
                     Mary
                                       Jones
                                                                                                      Part-Time
                                                                                                                       35000.00
                     Mary
             102
                                       Williams
                                                                                                      Full-Time
                                                                                                                       80000.00
             103
                     Gwen
                                       Johnson
                                                                                                      Full-Time
                                                                                                                       40000.00
                                                                                                      Full-Time
             104
                     Michael
                                       Jones
                                                                         4
                                                                               Non-Exempt
                                                                                                                       90000.00
             105
                     Alexander
                                       Ahmann
                                                                               Non-Exempt
                                                                                                      Full-Time
                                                                                                                       51342.00
                     Rocking
                                       Philosophy
                                                                                                      Full-Time
             106
                                                                         4 | Exempt
                                                                                                                          777.00
  rows in set (0.00 sec)
```

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

_ast_Name	First_Name	Employee_ID	Department_ID	
Smith	+ John	100	1	
Jones	Mary	101	2	
Williams	Mary	102	3	
Johnson	Gwen	103	4	
Jones	Michael	104	4	
Ahmann	Alexander	105	1	
Philosophy	Rocking	106	4	