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DAD-220 Intro to Struct Database Env

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**2-4 Lab: Updating Tables**

1. **Connect to the database**you created and named in Module One (for example, Jetson). Type after the prompt mysql>
   1. use (table you named);
      1. A screenshot of a computer program

         Description automatically generatedExample: mysql> use Jetson;

This screenshot is me using the command “use merren” to retrieve the table I created in module 1.

1. **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)); A screenshot of a computer program

Description automatically generated

-This screenshot shows the commands “CREATE TABLE Employee” and the columns and datatypes for the table.

1. **Create the Branches table.**Fill in the missing characters or punctuation in the incomplete statement shown below to complete this action.  
   1. CREATE Branches (

Department\_ID SMALLINT,

Department\_Name )

A computer screen shot of a black screen

Description automatically generated

-This screenshot is the command “ CREATE TABLE Branches,” This command and the statements below it create a table with two columns for Department\_ID with SMALLINT for small-range integers, and Department\_Name that allows up to 50 characters.

1. 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.  
   1. describe Employee;
   2. A screenshot of a computer screen

      Description automatically generatedWrite the correct command to describe the Branches table

-This screenshot is the command “describe Employee,” and “describe Branches.” These commands provide the structure of the specified tables.

1. **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.
   1. 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);
   2. A screenshot of a computer

      Description automatically generatedType the command select\* from Employee; and take a screenshot of it to validate this step.

-This screenshot shows the use of the “INSERT INTO” statement to add three records to the Employee table. I then executed the “SELECT” query to retrieve all the data from the Employee table.

1. **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).**  
   1. Gwen Johnson: Employee ID = 103, DEPARTMENT\_ID = 4, Classification = NULL, Status = Full-Time, SALARY = 40000
   2. Michael Jones: Employee ID = 104, DEPARTMENT\_ID = 4, Classification = Non-Exempt, Status = Full-Time, SALARY = 90000
   3. Insert your name into the table to verify and prove your work.
      1. (Your First and Last Name, or a nickname): Employee ID = 105, DEPARTMENT\_ID = 1, Classification = Non-Exempt, Statues = Full-time, SALARY = (Choose a value between 50000 and 99000)
   4. Type the command select\* from Employee; and take a screenshot of it to validate this step.

A screenshot of a computer

Description automatically generated

-This is a screenshot of the commands to insert new data into the Employee table. I then used the Select\* query to display all the data in the Employee table.

* 1. 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.
  2. A screenshot of a computer

     Description automatically generatedWrite the correct command to prove that you’ve successfully completed this step, and validate it with a screenshot.

-This is a screenshot following my statement to insert “Harry Potter” into the Employee table. I then used the Select\* query to display all the data in the Employee table.

1. **Select the fields of last name, first name, and department id from the table.**Validate your work with a screenshot.  
   1. A screenshot of a computer screen

      Description automatically generatedSelect First\_Name, Last\_Name, Employee\_ID, Department\_ID from Employee;

-This is a screenshot of the “Select” query to display the selected data of First\_Name, Last\_Name, Employee\_ID, and Department\_ID from the Employee table.