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LAB-1

Lab 1. Create a Database & Table Using MySQL Command-Line
Client.

```
mysql> CREATE DATABASE StudentManagementSystem;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> USE StudentManagementSystem;
Database changed
```

```
Database changed
mysql> CREATE TABLE Student (
    ->      StudentID INT AUTO_INCREMENT PRIMARY KEY,
    ->      FirstName VARCHAR(50) NOT NULL,
    ->      LastName VARCHAR(50) NOT NULL,
    ->      DateOfBirth DATE,
    ->      Gender ENUM('Male', 'Female', 'Other'),
    ->      Email VARCHAR(100),
    ->      Phone VARCHAR(20)
    -> );
Query OK, 0 rows affected (0.07 sec)
```

Create a table with name Course with attributes:

```
mysql> CREATE TABLE Course (
    ->      CourseID INT AUTO_INCREMENT PRIMARY KEY,
    ->      CourseTitle VARCHAR(100) NOT NULL,
    ->      Credits INT
    -> );
Query OK, 0 rows affected (0.03 sec)
```

Create a table with named Instructor with attributes:

```
mysql> CREATE TABLE Instructor (
    ->      InstructorID INT AUTO_INCREMENT PRIMARY KEY,
    ->      FirstName VARCHAR(50) NOT NULL,
    ->      LastName VARCHAR(50) NOT NULL,
    ->      Email VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> SHOW TABLES;
+--------------------------------+
| Tables_in_studentmanagementsystem |
+--------------------------------+
| course                         |
| instructor                     |
| student                        |
+--------------------------------+
3 rows in set (0.01 sec)
```

```
mysql> DESCRIBE Student;
+-------------+-----------------------------------+------+-----+---------+----------------+
| Field       | Type                              | Null | Key | Default | Extra          |
+-------------+-----------------------------------+------+-----+---------+----------------+
| StudentID   | int                               | NO   | PRI | NULL    | auto_increment |
| FirstName   | varchar(50)                       | NO   |     | NULL    |                |
| LastName    | varchar(50)                       | NO   |     | NULL    |                |
| DateOfBirth | date                              | YES  |     | NULL    |                |
| Gender      | enum('Male','Female','Other')     | YES  |     | NULL    |                |
| Email       | varchar(100)                      | YES  |     | NULL    |                |
| Phone       | varchar(20)                       | YES  |     | NULL    |                |
+-------------+-----------------------------------+------+-----+---------+----------------+
7 rows in set (0.03 sec)

mysql> DESCRIBE Course;
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| CourseID    | int          | NO   | PRI | NULL    | auto_increment |
| CourseTitle | varchar(100) | NO   |     | NULL    |                |
| Credits     | int          | YES  |     | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Instructor;
+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
+--------------+--------------+------+-----+---------+----------------+
| InstructorID | int          | NO   | PRI | NULL    | auto_increment |
| FirstName    | varchar(50)  | NO   |     | NULL    |                |
| LastName     | varchar(50)  | NO   |     | NULL    |                |
| Email        | varchar(100) | YES  |     | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
4 rows in set (0.00 sec)
```