Lab1. Create a Database & Table Using MySQL Command-Line Client

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Create a database with the name StudentManagementSystem.

Create a table with named Student with attributes:

- StudentID (Primary Key)

- FirstName

- LastName

- DateOfBirth

- Gender

- Email

- Phone

Create a table with name Course with attributes:

- CourseID (Primary Key)

- CourseTitle

- Credits

Create a table with named Instructor with attributes:

- InstructorID (Primary Key)

- FirstName

- LastName

- Email

Create a table with named Enrollment with attributes:

- EnrollmentID (Primary Key)

- EnrollmentDate

- StudentID(Foreign key)

- CourseID(Foreign Key)

- InstructorID(Foreign key)

Create a table with named Score with attributes:

- ScoreID (Primary Key)

● CourseID (Foreign key)

● StudentID (Foreign Key)

● DateOfExam

● CreditObtained

Create a table with named Feedback with attributes:

● FeedbackID (Primary Key)

● StudentID (Foreign key)

● Date

● InstructorName

● Feedback

Create a database with the name StudentManagementSystem.

Create database StudentManagementSystem;

```
mysql> create database StudentManagementSystem;
Query OK, 1 row affected (0.03 sec)
```

Use StudentManagementSystem;

```
mysql> use StudentManagementSystem;
Database changed
```

Create a table with named Student with attributes:

● **StudentID (Primary Key)**

● **FirstName**

● **LastName**

● **DateOfBirth**

● **Gender**

● **Email**

● **Phone**

create table Student(

StudentID int primary key,

FirstName varchar(30) Not Null,

LastName varchar(30) Not Null,

DateOfBirth date Not Null,

Gender varchar(15) Not Null,

Email varchar(40) Not Null,

Phone int Not Null);

```
mysql> create table Student(
    -> StudentID int primary key,
    -> FirstName varchar(30) Not Null,
    -> LastName varchar(30) Not Null,
    -> DateOfBirth date Not Null,
    -> Gender varchar(15) Not Null,
    -> Email varchar(40) Not Null,
    -> Phone int Not Null);
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> describe Student;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| StudentID   | int         | NO   | PRI | NULL    |       |
| FirstName   | varchar(30) | NO   |     | NULL    |       |
| LastName    | varchar(30) | NO   |     | NULL    |       |
| DateOfBirth | date        | NO   |     | NULL    |       |
| Gender      | varchar(15) | NO   |     | NULL    |       |
| Email       | varchar(40) | NO   |     | NULL    |       |
| Phone       | int         | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)
```

Create a table with name Course with attributes:

● **CourseID (Primary Key)**

● **CourseTitle**

● **Credits**

create table Course(

CourseId int primary key,

CourseTitle varchar(50) Not Null,

Credits int Not Null);

```
mysql> create table Course(
    -> CourseId int primary key,
    -> CourseTitle varchar(50) Not Null,
    -> Credits int Not Null);
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> describe Course;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| CourseId    | int         | NO   | PRI | NULL    |       |
| CourseTitle | varchar(50) | NO   |     | NULL    |       |
| Credits     | int         | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

Create a table with named Instructor with attributes:

● **InstructorID (Primary Key)**

● **FirstName**

● **LastName**

● **Email**

create table Instructor(

InstructorID int primary key,

FirstName varchar(30) Not Null,

LastName varchar(30) Not Null,

Email varchar(40) Not Null);

```
mysql> create table Instructor(
    -> InstructorID int primary key,
    -> FirstName varchar(30) Not Null,
    -> LastName varchar(30) Not Null,
    -> Email varchar(40) Not Null);
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> describe Instructor;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| InstructorID | int         | NO   | PRI | NULL    |       |
| FirstName    | varchar(30) | NO   |     | NULL    |       |
| LastName     | varchar(30) | NO   |     | NULL    |       |
| Email        | varchar(40) | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

Create a table with named Enrollment with attributes:

● **EnrollmentID (Primary Key)**

● **EnrollmentDate**

● **StudentID(Foreign key)**

● **CourseID(Foreign Key)**

● **InstructorID(Foreign key)**

create table Enrollment(

EnrollmentID int primary key,

EnrollmentDate date Not Null,

Student ID int Not Null,

CourseID int Not Null,

InstructorID int Not Null,

foreign key (StudentID) references Student (StudentID),

foreign key (CourseID) references Course (CourseID),

foreign key (InstructorID) references Instructor (InstructorID));

```
mysql> create table Enrollment(
    -> EnrollmentID int primary key,
    -> EnrollmentDate date Not Null,
    -> StudentID int Not Null,
    -> CourseID int Not Null,
    -> InstructorID int Not Null,
    -> foreign key(StudentID) references Student(StudentID),
    -> foreign key(CourseID) references Course(CourseID),
    -> foreign key(InstructorID) references Instructor(InstructorID));
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> describe Enrollment;
+----------------+------+------+-----+---------+-------+
| Field          | Type | Null | Key | Default | Extra |
+----------------+------+------+-----+---------+-------+
| EnrollmentID   | int  | NO   | PRI | NULL    |       |
| EnrollmentDate | date | NO   |     | NULL    |       |
| StudentID      | int  | NO   | MUL | NULL    |       |
| CourseID       | int  | NO   | MUL | NULL    |       |
| InstructorID   | int  | NO   | MUL | NULL    |       |
+----------------+------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

Create a table with named Score with attributes:

● **ScoreID (Primary Key)**

● **CourseID (Foreign key)**

● **StudentID (Foreign Key)**

● **DateOfExam**

● **CreditObtained**

create table Score(

ScoreID int primary key,

CourseID int Not Null,

StudentID int Not Null,

DateOfExam date Not Null,

CreditObtained int Not Null,

foreign key (CourseID) references Course (CourseID),

foreign key (StudentID) references Student (StudentID));

```
mysql> create table Score(
    -> ScoreID int primary key,
    -> CourseID int Not Null,
    -> StudentID int Not Null,
    -> DateOfExam date Not Null,
    -> CreditObtained int Not Null,
    -> foreign key(CourseID) references Course(CourseID),
    -> foreign key(StudentID) references Student(StudentID));
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> describe Score;
+---------------+------+------+-----+---------+-------+
| Field         | Type | Null | Key | Default | Extra |
+---------------+------+------+-----+---------+-------+
| ScoreID       | int  | NO   | PRI | NULL    |       |
| CourseID      | int  | NO   | MUL | NULL    |       |
| StudentID     | int  | NO   | MUL | NULL    |       |
| DateOfExam    | date | NO   |     | NULL    |       |
| CreditObtained| int  | NO   |     | NULL    |       |
+---------------+------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Create a table with named Feedback with attributes:

● **FeedbackID (Primary Key)**

● **StudentID (Foreign key)**

● **Date**

● **InstructorName**

● **Feedback**

create table Feedback(

FeedbackID int primary key,

Student ID int Not Null,

Date date Not Null,

InstructorName varchar(30) Not Null,

Feedback varchar(200) Not Null,

foreign key (StudentID) references Student (StudentID));

```
mysql> create table Feedback(
    -> FeedbackID int primary key,
    -> StudentID int Not Null,
    -> Date date Not Null,
    -> InstructorName varchar(30) Not Null,
    -> Feedback varchar(200) Not Null,
    -> foreign key(StudentID) references Student(StudentID));
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> describe Feedback;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| FeedbackID     | int          | NO   | PRI | NULL    |       |
| StudentID      | int          | NO   | MUL | NULL    |       |
| Date           | date         | NO   |     | NULL    |       |
| InstructorName | varchar(30)  | NO   |     | NULL    |       |
| Feedback       | varchar(200) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```