LabSQL1_ANP_C7374_RDBMS_MYSQlVirtual programming lab

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Batch code: ANP-C7281

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

● Create a database with the name Student_Management_System.

Create a table with a 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

(1) Create a Database with the name Student_Management_System:

Code:

```
Create database Student_Management_System;
```

Output:

```
mysql> create database student_management_system;
Query OK, 1 row affected (0.02 sec)
```

(2) Show all Databases:

Code:

```
Show databases;
```

Output:

```
mysql> show databases
    -> ;
+----------------------------+
| Database                   |
+----------------------------+
| information_schema         |
| mysql                      |
| performance_schema         |
| student_management_system  |
| sys                        |
+----------------------------+
5 rows in set (0.01 sec)
```

(3) Use database and the database we created is Student_Management_System:

Code:

```
use Student_Management_System;
```

Output:

```
mysql> use student_management_system;
Database changed
```

(4) Create a table with named Student with attributes: StudentID(Primary Key) , FirstName,LastName , DateOfBirth , Gender , Email , Phone

Code:

```
create table student(
-> StudentID int primary key,
-> FirstName varchar(30) Not Null,
-> LastName varchar(30) Not Null,
-> DateOfBirth date Not Null,
-> Gender varchar(30),
-> Email varchar(30),
-> Phone int);
```

```
mysql> use student_management_system;
Database changed
mysql> create table student(
    -> StudentID int primary key,
    -> FirstName varchar(30) Not Null,
    -> LastName varchar(30) Not Null,
    -> DateOfBirth date Not Null,
    -> Gender varchar(30),
    -> Email varchar(30),
    -> Phone int);
Query OK, 0 rows affected (0.29 sec)
```

Output:

```
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(30) | YES  |     | NULL    |       |
| Email       | varchar(30) | YES  |     | NULL    |       |
| Phone       | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)
```

(5) Create a table with name Course with attributes: CourseID (Primary Key) ,CourseTitle , Credits

Code:

```
create table Course(
-> CourseID int primary key,
-> CourseTitle varchar(0),
-> Credits int);
```

```
mysql> create table Course(
    -> CourseID int primary key,
    -> CourseTitle varchar(0),
    -> Credits int);
Query OK, 0 rows affected (0.05 sec)
```

Output:

```
mysql> describe Course
    -> ;
+-------------+------------+------+-----+---------+-------+
| Field       | Type       | Null | Key | Default | Extra |
+-------------+------------+------+-----+---------+-------+
| CourseID    | int        | NO   | PRI | NULL    |       |
| CourseTitle | varchar(0) | YES  |     | NULL    |       |
| Credits     | int        | YES  |     | NULL    |       |
+-------------+------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

(6) Create a table with named Instructor with attributes: InstructorID (Primary Key) , FirstName , LastName,Email

Code:

```
create table Instructor(
-> InstructorID int primary key,
 -> FirstName varchar(30) Not Null,
 -> LastName varchar(30) Not Null,
-> Emaiil varchar(30));
```

```
mysql> create table Instructor(
    -> InstructorID int primary key,
    -> FirstName varchar(30) Not Null,
    -> LastName varchar(30) Not Null,
    -> Emaiil varchar(30));
Query OK, 0 rows affected (0.24 sec)
```

Output:

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

(7) Create a table with named Enrollment with attributes: EnrollmentID (Primary Key) ,EnrollmentDate ,StudentID(Foreign key) ,CourseID(Foreign Key) ,InstructorID(Foreign key)

Code:

```
create table Enrollment(
-> EnrollmentID int primary key,
-> EnrollmentDate date,
-> 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));
```

```
EnrollmentID int primary key,
    -> EnrollmentDate date,
    -> StudentID in' at line 2
mysql> create table Enrollment(
    -> EnrollmentID int primary key,
    -> EnrollmentDate date,
    -> 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 (0.08 sec)
```

Output:

```
mysql> describe Enrollment;
+----------------+------+------+-----+---------+-------+
| Field          | Type | Null | Key | Default | Extra |
+----------------+------+------+-----+---------+-------+
| EnrollmentID   | int  | NO   | PRI | NULL    |       |
| EnrollmentDate | date | YES  |     | NULL    |       |
| StudentID      | int  | NO   | MUL | NULL    |       |
| CourseID       | int  | NO   | MUL | NULL    |       |
| InstructorID   | int  | NO   | MUL | NULL    |       |
+----------------+------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

(8) Create a table with named Score with attributes: ScoreID (Primary Key), CourseID (Foreign key), StudentID (Foreign Key), DateOfExam, CreditObtained

Code:

```
create table Score(
-> ScoreID int primary key,
-> CourseID int Not Null,
-> StudentID int Not Null,
-> DateOfExam date,
-> CreditObtained int,
-> 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,
    -> CreditObtained int,
    -> foreign key(CourseID) references Course(CourseID),
    -> foreign key(StudentID) references Student(StudentID));
Query OK, 0 rows affected (0.07 sec)
```

Output:

```
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 | YES  |     | NULL    |       |
| CreditObtained | int  | YES  |     | NULL    |       |
+----------------+------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

(9) Create a table with named Feedback with attributes: FeedbackID (Primary Key) ,StudentID (Foreign key) ,Date ,InstructorName , Feedback

Code:

```
create table Feedback(
-> FeedbackIDD int Primary key,
-> StudentID int Not Null,
-> Date date,
-> InstructorName varchar(30) Not Null,
-> Feedback varchar(30),
-> foreign key(StudentID) references Student(StudentID));
```

```
mysql> create table Feedback(
    -> FeedbackIDD int Primary key,
    -> StudentID int Not Null,
    -> Date date,
    -> InstructorName varchar(30) Not Null,
    -> Feedback varchar(30),
    -> foreign key(StudentID) references Student(StudentID));
Query OK, 0 rows affected (0.06 sec)
```

Output:

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