

# LabSQL1\_ANP\_C7374\_RDBMS\_MYSQLVirtual programming lab

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Batch code : ANP-C7374

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

- 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

(1) Create a Database with a name StudentManagementSystem:

Code:

```
Create database StudentManagementSystem;
```

Output:

```
mysql> create database StudentManagementSystem;  
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 |  
| studentmanagementsystem |  
| sys |  
+-----+  
5 rows in set (0.00 sec)
```

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

Code:

```
use StudentManagementSystem;
```

Output:

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

(4) Create a table with named Student with attributes:

StudentID(Primary Key) , FirstName , LastName , DateOfBirth , Gender , Email , Phone

Code:

```
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) Not Null,
    -> Email varchar(30),
    -> Phone int);
Query OK, 0 rows affected (0.06 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)   | NO   |     | NULL    |       |
| Email      | varchar(30)   | YES  |     | NULL    |       |
| Phone      | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)
```

(5) Create a table with name Course with attributes:

CourseID (Primary Key) ,CourseTitle , Credits

Code:

```
mysql> create table Course(
    -> CourseID int primary key,
    -> CourseTitle varchar(50),
    -> Credits int);
Query OK, 0 rows affected (0.03 sec)
```

Output:

```
mysql> describe course;
```

Field	Type	Null	Key	Default	Extra
CourseID	int	NO	PRI	NULL	
CourseTitle	varchar(50)	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:

```
mysql> create table Instructor(
    -> InstructorID int primary key,
    -> FirstName varchar(30) Not Null,
    -> LastName varchar(30) Not Null,
    -> Email varchar(30));
Query OK, 0 rows affected (0.04 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	
Email	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:

```
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 (0.09 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:

```
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 (0.04 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:

```
mysql> create table Feedback(
-> FeedbackID 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 (0.05 sec)
```

Output:

```
mysql> describe Feedback;
```

Field	Type	Null	Key	Default	Extra
FeedbackID	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)
```