

SQL MODULE

LAB – 1

BY

Sai Sujan C

AF0366848

Questions

- 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.

Code:

```
mysql> CREATE DATABASE StudentManagementSystem;  
Query OK, 1 row affected (0.08 sec)
```

Create a table with named Student with attributes:

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

Code:

```
mysql> create table Student
-> (
-> studentId int not null primary key,
-> firstName varchar(30) not null,
-> lastName varchar(30) not null,
-> dateOfBirth date not null,
-> gender char(1) not null,
-> email varchar(50) not null unique,
-> phone int unique check(phone=10)
-> );
Query OK, 0 rows affected (0.09 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         | char(1)       | NO   |     | NULL    |       |
| email          | varchar(50)   | NO   | UNI | NULL    |       |
| phone          | int           | YES  | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.04 sec)
```

Create a table with name Course with attributes:

- CourseID (Primary Key)

- CourseTitle
- Credits

Code:

```
mysql> create table Course
-> (
-> CourseId int primary key,
-> courseTitle varchar(20) not null,
-> credits int not null
-> );
Query OK, 0 rows affected (0.04 sec)
```

Output:

```
mysql> describe Course;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CourseId   | int           | NO   | PRI | NULL    |       |
| courseTitle | varchar(20)   | NO   |     | NULL    |       |
| credits    | int           | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

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(20) not null,
-> Email varchar(50) not null unique
-> );
Query OK, 0 rows affected (0.08 sec)
```

Output:

```
mysql> describe Instructor;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| instructorId   | int           | NO   | PRI | NULL    |       |
| firstName      | varchar(30)   | NO   |     | NULL    |       |
| lastName       | varchar(20)   | NO   |     | NULL    |       |
| Email          | varchar(50)   | NO   | UNI | 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)

Code:

```
mysql> CREATE TABLE Enrollment (  
-> EnrollmentID INT PRIMARY KEY,  
-> EnrollmentDate DATE,  
-> StudentID INT,  
-> CourseID INT,  
-> InstructorID INT,  
-> 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)
```

Output:

```
mysql> describe Enrollment;  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type  | Null | Key  | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| EnrollmentID   | int   | NO   | PRI  | NULL    |       |  
| EnrollmentDate | date  | YES  |      | NULL    |       |  
| StudentID      | int   | YES  | MUL  | NULL    |       |  
| CourseID       | int   | YES  | MUL  | NULL    |       |  
| InstructorID   | int   | YES  | 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

Code:

```
mysql> CREATE TABLE Score (  
->     ScoreID INT PRIMARY KEY,  
->     CourseID INT,  
->     StudentID INT,  
->     DateOfExam DATE,  
->     CreditObtained int not null,  
-> FOREIGN KEY (CourseID) REFERENCES Course(CourseID),  
->     FOREIGN KEY (StudentID) REFERENCES Student(StudentID)  
-> );  
Query OK, 0 rows affected (0.10 sec)
```

Output:

```
mysql> describe Score;
```

Field	Type	Null	Key	Default	Extra
ScoreID	int	NO	PRI	NULL	
CourseID	int	YES	MUL	NULL	
StudentID	int	YES	MUL	NULL	
DateOfExam	date	YES		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

Code:

```
mysql> CREATE TABLE Feedback (
->     FeedbackID INT PRIMARY KEY,
->     StudentID INT,
->     Date DATE,
->     InstructorName VARCHAR(100) not null,
->     Feedback varchar(100),
->     FOREIGN KEY (StudentID) REFERENCES Student(StudentID)
-> );
Query OK, 0 rows affected (0.09 sec)
```

Output:

```
mysql> describe Feedback;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| FeedbackID     | int           | NO   | PRI | NULL    |       |
| StudentID      | int           | YES  | MUL | NULL    |       |
| Date           | date          | YES  |     | NULL    |       |
| InstructorName | varchar(100)  | NO   |     | NULL    |       |
| Feedback       | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```