Week 9 Session2- Lab

Question:-

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

Use the Database and table from Week9 Session1 lab. Insert 5 records and retrieve data from the table.

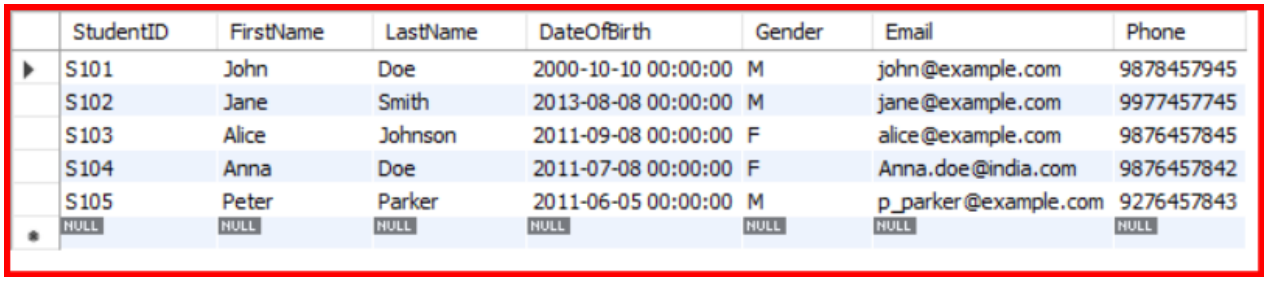
Answers:-

```
create database studentmanagementsystem;

use studentmanagementsystem;

CREATE TABLE Student (
StudentID VARCHAR(10) PRIMARY KEY,
FirstName VARCHAR(25),
LastName VARCHAR(25),
DateOfBirth DateTime,
Gender VARCHAR(25),
Email VARCHAR(30) UNIQUE,
Phone VARCHAR(25)
);

CREATE TABLE Course (
CourseID VARCHAR(10) PRIMARY KEY,
CourseTitle VARCHAR(30),
Credits INT
);

CREATE TABLE Instructor (
InstructorID VARCHAR(10) PRIMARY KEY,
Email VARCHAR(30) UNIQUE,
FirstName VARCHAR(30),
LastName VARCHAR(30)
);

CREATE TABLE Enrollment (
EnrollmentID VARCHAR(10) PRIMARY KEY,
EnrollmentDate DATE,
```

```
StudentID VARCHAR(10),
CourseID VARCHAR(10),
InstructorID VARCHAR(10),
FOREIGN KEY (StudentID) REFERENCES Student(StudentID),
FOREIGN KEY (CourseID) REFERENCES Course(CourseID),
FOREIGN KEY (InstructorID) REFERENCES
Instructor(InstructorID)
);

CREATE TABLE Score(
ScoreID VARCHAR(10) PRIMARY KEY,
StudentID VARCHAR(10),
CourseID VARCHAR(10),
FOREIGN KEY (StudentID) REFERENCES Student(StudentID),
FOREIGN KEY (CourseID) REFERENCES Course(CourseID),
CreditObtained VARCHAR(10),
DateOfExam DateTime
);

CREATE TABLE Feedback(
FeedbackID INT Auto_Increment PRIMARY KEY,
StudentID VARCHAR(10),
Date DATE,
InstructorName VARCHAR(30),
Feedback VARCHAR(100),
FOREIGN KEY (StudentID) REFERENCES Student(StudentID)
);


INSERT INTO Student
(StudentID,FirstName,LastName,DateOfBirth,Gender,
Email,Phone) VALUES
('S101','John', 'Doe','2000-10-10','M',
'john@example.com','9878457945'),
('S102','Jane', 'Smith','2013-08-08','M',
'jane@example.com','9977457745'),
('S103','Alice', 'Johnson','2011-09-08','F',
'alice@example.com','9876457845'),
('S104','Anna', 'Doe','2011-07-08','F',
'Anna.doe@india.com','9876457842'),
```

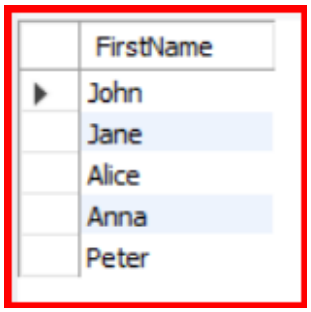
('S105','Peter', 'Parker','2011-06-05','M',
'p_parker@example.com','9276457843');

SELECT * FROM Student;



StudentID	FirstName	LastName	DateOfBirth	Gender	Email	Phone
S101	John	Doe	2000-10-10 00:00:00	M	john@example.com	9878457945
S102	Jane	Smith	2013-08-08 00:00:00	M	jane@example.com	9977457745
S103	Alice	Johnson	2011-09-08 00:00:00	F	alice@example.com	9876457845
S104	Anna	Doe	2011-07-08 00:00:00	F	Anna.doe@india.com	9876457842
S105	Peter	Parker	2011-06-05 00:00:00	M	p_parker@example.com	9276457843
NULL	NULL	NULL	NULL	NULL	NULL	NULL

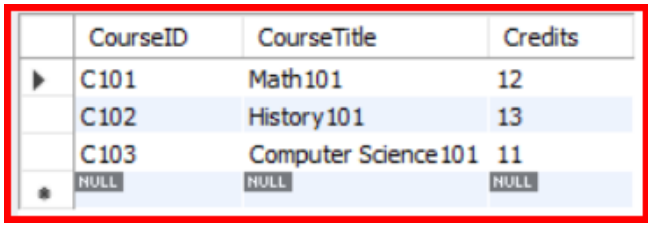
Select FirstName from Student;



FirstName
John
Jane
Alice
Anna
Peter

INSERT INTO Course (CourseID,CourseTitle,Credits) VALUES
('C101','Math101',12),
('C102','History101',13),
('C103','Computer Science101',11);

SELECT * FROM Course;



CourseID	CourseTitle	Credits
C101	Math101	12
C102	History101	13
C103	Computer Science101	11
NULL	NULL	NULL

INSERT INTO Instructor (InstructorID
,Email,FirstName,LastName) VALUES
('I101','sunil@example.com','Sunil','Rawat'),
('I102','nida@example.com','Nida','Fatima'),
('I103','shiv@example.com','Shiv','Kumar');

SELECT * FROM Instructor;

InstructorID	Email	FirstName	LastName
I101	sunil@example.com	Sunil	Rawat
I103	shiv@example.com	Shiv	Kumar
I102	nida@example.com	Nida	Fatima
NULL	NULL	NULL	NULL

INSERT INTO Enrollment (EnrollmentID, EnrollmentDate, StudentID, CourseID, InstructorID) VALUES
('E1001', '2023-08-28', 'S101', 'C101', 'I101'),
('E1002', '2023-08-18', 'S102', 'C101', 'I101'),
('E1003', '2023-08-25', 'S103', 'C102', 'I102');

SELECT * FROM Enrollment;

EnrollmentID	EnrollmentDate	StudentID	CourseID	InstructorID
E1001	2023-08-28	S101	C101	I101
E1002	2023-08-18	S102	C101	I101
E1003	2023-08-25	S103	C102	I102
NULL	NULL	NULL	NULL	NULL

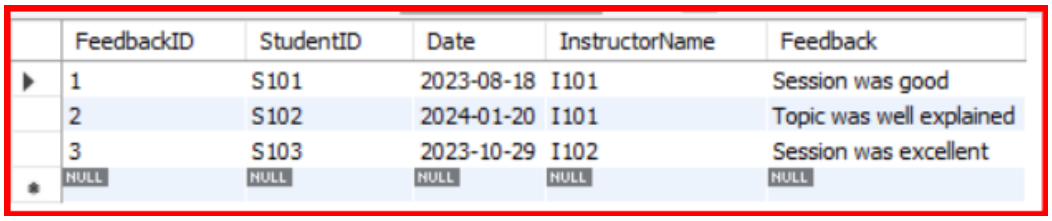
INSERT INTO Score (ScoreID,StudentID,CourseID,CreditObtained,DateOfExam)VALUES
('SC101','S101','C101','12','2022-10-10'),
('SC102','S102','C101','10','2022-10-10');

SELECT * FROM Score;

ScoreID	StudentID	CourseID	CreditObtained	DateOfExam
SC101	S101	C101	12	2022-10-10 00:00:00
SC102	S102	C101	10	2022-10-10 00:00:00
NULL	NULL	NULL	NULL	NULL

INSERT INTO Feedback(StudentID, Date, InstructorName, Feedback) VALUES
('S101', '2023-08-18', 'I101', 'Session was good'),
('S102', '2024-01-20', 'I101', 'Topic was well explained'),
('S103', '2023-10-29', 'I102', 'Session was excellent');

SELECT * FROM Feedback;



FeedbackID	StudentID	Date	InstructorName	Feedback
1	S101	2023-08-18	I101	Session was good
2	S102	2024-01-20	I101	Topic was well explained
3	S103	2023-10-29	I102	Session was excellent
NULL	NULL	NULL	NULL	NULL