**Create the teachers table**

CREATE TABLE Teachers(

TeacherID int PRIMARY KEY,

FirstName varchar (50),

LastName varchar (50),

Email varchar(50)

)

**Create the students table**  
CREATE TABLE Students(

StudentID int PRIMARY KEY,

FirstName varchar (50),

LastName varchar (50),

BirthDate date,

Email varchar(50)

)

**Create the class table**  
CREATE TABLE Classes (

ClassID INT PRIMARY KEY,

ClassName VARCHAR(50),

TeacherID INT,

FOREIGN KEY (TeacherID) REFERENCES Teachers(TeacherID)

);

**Create the Enrollments table**  
CREATE TABLE Enrollments (

EnrollmentID INT PRIMARY KEY,

StudentID INT,

ClassID INT,

EnrollmentDate DATE,

FOREIGN KEY (StudentID) REFERENCES Students(StudentID),

FOREIGN KEY (ClassID) REFERENCES Classes(ClassID)

);  
  
  
**insert the student data**

INSERT INTO Students (StudentID, FirstName, LastName, BirthDate, Email)

VALUES

(1, 'Ahmad', 'Ali', '2005-07-12', 'ahmad.ali@example.com'),

(2, 'Sara', 'Hassan', '2006-02-25', 'sara.hassan@example.com'),

(3, 'Omar', 'Khalid', '2005-09-10', 'omar.khalid@example.com'),

(4, 'Layla', 'Nasser', '2006-01-03', 'layla.nasser@example.com'),

(5, 'Yousef', 'Mahmoud', '2005-11-15', 'yousef.mahmoud@example.com'),

(6, 'Hala', 'Said', '2006-03-20', 'hala.said@example.com'),

(7, 'Khaled', 'Abdullah', '2005-08-08', 'khaled.abdullah@example.com'),

(8, 'Dina', 'Rami', '2005-10-22', 'dina.rami@example.com'),

(9, 'Mohammed', 'Fawzi', '2006-04-18', 'mohammed.fawzi@example.com'),

(10, 'Nour', 'Hassan', '2005-12-30', 'nour.hassan@example.com'),

(11, 'Rami', 'Amir', '2006-02-14', 'rami.amir@example.com'),

(12, 'Fatima', 'Khalifa', '2005-09-05', 'fatima.khalifa@example.com'),

(13, 'Bilal', 'Sami', '2005-11-20', 'bilal.sami@example.com'),

(14, 'Rana', 'Farhan', '2006-01-08', 'rana.farhan@example.com'),

(15, 'Omar', 'Ali', '2005-07-28', 'omar.ali@example.com'),

(16, 'Lina', 'Jawad', '2006-03-12', 'lina.jawad@example.com'),

(17, 'Yara', 'Hussein', '2005-08-15', 'yara.hussein@example.com'),

(18, 'Hamza', 'Tarek', '2005-10-10', 'hamza.tarek@example.com'),

(19, 'Samar', 'Salem', '2006-04-05', 'samar.salem@example.com'),

(20, 'Amir', 'Hassan', '2005-12-20', 'amir.hassan@example.com');

**insert the teachers data**

INSERT INTO Teachers (TeacherID, FirstName, LastName, Email) VALUES

(1, 'Mohammad', 'Ahmad', 'mohammad.ahmad@example.com'),

(2, 'Fatima', 'Saleh', 'fatima.saleh@example.com'),

(3, 'Ahmad', 'Rami', 'ahmad.rami@example.com'),

(4, 'Layla', 'Nasser', 'layla.nasser@example.com'),

(5, 'Omar', 'Khalid', 'omar.khalid@example.com'),

(6, 'Nour', 'Hassan', 'nour.hassan@example.com'),

(7, 'Rami', 'Amir', 'rami.amir@example.com'),

(8, 'Dina', 'Rami', 'dina.rami@example.com'),

(9, 'Sara', 'Hassan', 'sara.hassan@example.com'),

(10, 'Khaled', 'Abdullah', 'khaled.abdullah@example.com');

**insert the teachers data**

INSERT INTO Classes (ClassID, ClassName, TeacherID)

VALUES

(1, 'Mathematics', 1),

(2, 'Science', 2),

(3, 'History', 4),

(4, 'Literature', 3),

(5, 'Art', 5);

**INSERT INTO Enrollments**

INSERT INTO Enrollments (EnrollmentID, StudentID, ClassID, EnrollmentDate) VALUES

(1, 1, 1, '2023-01-10'),

(2, 1, 2, '2023-01-15'),

(3, 2, 1, '2023-01-12'),

(4, 3, 3, '2023-02-05'),

(5, 4, 4, '2023-02-10'),

(6, 5, 2, '2023-02-15'),

(7, 6, 5, '2023-03-01'),

(8, 7, 1, '2023-03-05'),

(9, 8, 3, '2023-03-10'),

(10, 9, 4, '2023-03-15'),

(11, 10, 5, '2023-03-20'),

(12, 11, 2, '2023-04-01'),

(13, 12, 1, '2023-04-05'),

(14, 13, 4, '2023-04-10'),

(15, 14, 3, '2023-04-15'),

(16, 15, 5, '2023-04-20'),

(17, 16, 2, '2023-05-01'),

(18, 17, 1, '2023-05-05'),

(19, 18, 3, '2023-05-10'),

(20, 19, 4, '2023-05-15'),

(21, 20, 5, '2023-05-20');

**1. SQL INSERT INTO Statement • Task: Add a new student to the Students table.**

INSERT INTO Students (StudentID ,FirstName, LastName, BirthDate, Email)

VALUES (21,'Maha', 'Ahmad', '2007-05-15', 'maha.ahmad@example.com');

**2. SQL SELECT Statement • Task: Retrieve the list of all classes along with the names of their teachers.**

SELECT Classes.ClassID, Classes.ClassName, Teachers.FirstName

FROM Classes

JOIN Teachers ON Classes.TeacherID = Teachers.TeacherID;

**3. SQL UPDATE Statement • Task: Update the email address of the teacher with TeacherID = 2.**

UPDATE Teachers

SET Email = 'updated.email@example.com'

WHERE TeacherID = 2;

**4. SQL DELETE Statement • Task: Remove the enrollment record for a student with StudentID = 3 from the Enrollments table.**

DELETE FROM Enrollments

WHERE StudentID = 3;