**STUDENT DATABASE:**

-- Create Students table

CREATE TABLE Students (

student\_id INT PRIMARY KEY,

student\_name VARCHAR(50),

student\_email VARCHAR(100)

);

-- Create Courses table

CREATE TABLE Courses (

course\_id INT PRIMARY KEY,

course\_name VARCHAR(50),

course\_description VARCHAR(255)

);

-- Create Enrollments table

CREATE TABLE Enrollments (

enrollment\_id INT PRIMARY KEY,

student\_id INT,

course\_id INT,

enrollment\_date DATE,

FOREIGN KEY (student\_id) REFERENCES Students(student\_id),

FOREIGN KEY (course\_id) REFERENCES Courses(course\_id)

);

-- Insert sample students

INSERT INTO Students (student\_id, student\_name, student\_email)

VALUES (1, 'John Doe', 'john@example.com');

INSERT INTO Students (student\_id, student\_name, student\_email)

VALUES (2, 'Jane Smith', 'jane@example.com');

-- Insert sample courses

INSERT INTO Courses (course\_id, course\_name, course\_description)

VALUES (1001, 'Mathematics', 'Introductory Mathematics');

INSERT INTO Courses (course\_id, course\_name, course\_description)

VALUES (1002, 'History', 'World History');

-- Insert sample enrollments

INSERT INTO Enrollments (enrollment\_id, student\_id, course\_id, enrollment\_date)

VALUES (2001, 1, 1001, '2023-05-20');

INSERT INTO Enrollments (enrollment\_id, student\_id, course\_id, enrollment\_date)

VALUES (2002, 2, 1002, '2023-05-22');

SELECT Students.student\_name, Courses.course\_name, Enrollments.enrollment\_date

FROM Students

JOIN Enrollments ON Students.student\_id = Enrollments.student\_id

JOIN Courses ON Enrollments.course\_id = Courses.course\_id;

SELECT Students.student\_name, Courses.course\_name

FROM Students

LEFT JOIN Enrollments ON Students.student\_id = Enrollments.student\_id

LEFT JOIN Courses ON Enrollments.course\_id = Courses.course\_id;

SELECT Students.student\_name, Courses.course\_name

FROM Students

LEFT JOIN Enrollments ON Students.student\_id = Enrollments.student\_id

LEFT JOIN Courses ON Enrollments.course\_id = Courses.course\_id

WHERE Students.student\_id = 1;

**MONGODB COMMANDS:**

db.students.insertOne({

name: "John Doe",

age: 20,

major: "Computer Science",

semester: 3

});

db.students.updateOne(

{ name: "John Doe" },

{ $set: { major: "Information Technology" } }

);

db.students.deleteOne({ name: "John Doe" });