## SQL Internship - Task 2

```
-- Create Courses table
DROP TABLE IF EXISTS Courses;
CREATE TABLE Courses (
  course id INTEGER PRIMARY KEY AUTOINCREMENT,
  course name VARCHAR(50),
  course description VARCHAR(100)
);
-- Create Enrolments table
DROP TABLE IF EXISTS Enrolments;
CREATE TABLE Enrolments (
  enrolment id INTEGER PRIMARY KEY AUTOINCREMENT,
  student id INT,
  course id INT,
  enrolment date DATE.
  FOREIGN KEY(student id) REFERENCES Students(StudentID),
  FOREIGN KEY(course_id) REFERENCES Courses(course_id)
);
-- Insert courses
INSERT INTO Courses (course_name, course_description) VALUES
('Mathematics', 'Math course covering algebra and geometry'),
('Science', 'General science course'),
('English', 'English language and literature course'),
('Computer Science', 'Basics of programming and algorithms');
-- Insert enrolments
INSERT INTO Enrolments (student id, course id, enrolment date) VALUES
(1, 1, '2025-01-10'),
(1, 2, '2025-01-11'),
(2, 1, '2025-01-12'),
(3, 1, '2025-01-10'),
(3, 2, '2025-01-11'),
(3, 4, '2025-01-15'),
(4, 3, '2025-01-13'),
(5, 2, '2025-01-12'),
(6, 1, '2025-01-14'),
(6, 3, '2025-01-15');
-- Query 1: List students with courses
SELECT s.Name AS StudentName, c.course name AS CourseName
FROM Students s
INNER JOIN Enrolments e ON s.StudentID = e.student_id
INNER JOIN Courses c ON e.course id = c.course id
ORDER BY s.StudentID;
-- Query 2: Count students per course
SELECT c.course name, COUNT(e.student id) AS StudentCount
FROM Courses c
LEFT JOIN Enrolments e ON c.course_id = e.course_id
GROUP BY c.course id, c.course name;
-- Query 3: Students enrolled in more than one course
SELECT s.Name AS StudentName, COUNT(e.course_id) AS CoursesEnrolled
FROM Students s
INNER JOIN Enrolments e ON s.StudentID = e.student id
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GROUP BY s.StudentID, s.Name HAVING COUNT(e.course\_id) > 1;

--- Query 4: Course with highest enrolments
SELECT c.course\_name, COUNT(e.student\_id) AS StudentCount
FROM Courses c
INNER JOIN Enrolments e ON c.course\_id = e.course\_id
GROUP BY c.course\_id, c.course\_name
ORDER BY StudentCount DESC
LIMIT 1;

-- Delete enrolment example
DELETE FROM Enrolments WHERE student\_id = 1 AND course\_id = 2;