

Student Course Tracker - SQL Project

```
USE HANUMAN;
```

```
CREATE TABLE Student23 (  
    student_id INT,  
    studentName VARCHAR(50),  
    gender VARCHAR(1),  
    date_of_birth DATE  
);
```

```
CREATE TABLE Course23 (  
    Course_id INT,  
    CourseName VARCHAR(50),  
    Credit_hour INT  
);
```

```
CREATE TABLE Instructor23 (  
    Instructor_id INT,  
    InstructorName VARCHAR(50),  
    Department VARCHAR(50)  
);
```

```
CREATE TABLE Enrollment (  
    Enrollment_id INT,  
    student_id INT,  
    Course_id INT,  
    grade VARCHAR(2),  
    Instructor_id INT  
);
```

```
INSERT INTO Student23 (student_id, studentName, gender, date_of_birth) VALUES  
(1, 'Rahul', 'M', '2022-02-06'),  
(2, 'Shreya', 'F', '2022-04-06'),  
(3, 'Ravi', 'M', '2023-03-06');
```

```
INSERT INTO Course23 (Course_id, CourseName, Credit_hour) VALUES  
(101, 'SQLBASIC', 3),  
(102, 'DSA', 4),  
(103, 'Statistics', 5);
```

```
INSERT INTO Instructor23 (Instructor_id, InstructorName, Department) VALUES  
(15, 'Dr.Sharma', 'Computer Science'),  
(20, 'Prof.Iyer', 'Mathematics');
```

```
INSERT INTO Enrollment (Enrollment_id, student_id, Course_id, grade, Instructor_id)  
VALUES  
(25, 1, 101, 'A', 15),  
(27, 2, 102, 'B', 20),  
(29, 3, 103, 'A+', 15);
```

```
-- Query: List all students with their enrolled courses  
SELECT studentName AS Student, CourseName  
FROM Enrollment
```

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```
JOIN Student23 ON Enrollment.student_id = Student23.student_id
JOIN Course23 ON Enrollment.Course_id = Course23.Course_id;
```

```
-- Query: Find students enrolled in more than 1 course
SELECT studentName, COUNT(Course_id) AS Course_COUNT
FROM Enrollment
JOIN Student23 ON Enrollment.student_id = Student23.student_id
GROUP BY studentName
HAVING COUNT(Course_id) > 1;
```

```
-- Query: List each instructor with number of students taught
SELECT InstructorName AS Instructor, COUNT(DISTINCT student_id) AS Students_taught
FROM Enrollment
JOIN Instructor23 ON Enrollment.Instructor_id = Instructor23.Instructor_id
GROUP BY InstructorName;
```