

# Student Course Management System - MySQL Project

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-- Step 1: Drop old database (if exists)
DROP DATABASE IF EXISTS student_course_db;

-- Step 2: Create new database
CREATE DATABASE student_course_db;
USE student_course_db;

-- Step 3: Create Tables
CREATE TABLE students (
    student_id INT PRIMARY KEY,
    name VARCHAR(100),
    age INT,
    email VARCHAR(100)
);

CREATE TABLE courses (
    course_id INT PRIMARY KEY,
    course_name VARCHAR(100),
    credits INT
);

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)
);

-- Step 4: Insert Sample Data
INSERT INTO students VALUES
(1, 'Nupur Rana', 20, 'nupur@gmail.com'),
(2, 'Ravi Kumar', 21, 'ravi@gmail.com'),
(3, 'Anjali Sharma', 22, 'anjali@gmail.com');

INSERT INTO courses VALUES
(101, 'SQL Basics', 3),
(102, 'Python', 4),
(103, 'DBMS', 3);

INSERT INTO enrollments VALUES
(1, 1, 101, '2025-07-01'),
(2, 2, 102, '2025-07-02'),
(3, 3, 103, '2025-07-03');

-- Step 5: View Data
SELECT * FROM students;
SELECT * FROM courses;
SELECT * FROM enrollments;
```

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-- Step 6: Join Query to show student course enrollment
SELECT
    s.name AS student_name,
    c.course_name,
    e.enrollment_date
FROM
    students s
JOIN
    enrollments e ON s.student_id = e.student_id
JOIN
    courses c ON e.course_id = c.course_id;
```