**SQL JOIN Practice**

-- 1.retrive course name and teacher for each enrollmentselect c.CourseName, c.Teacher from Courses c inner join Enrollments e on c.CourseID = e.CourseID;

-- 2.- Get a list of all students and their enrollments if available, including students -- who haven't enrolled in any courses. SELECT s.StudentID, s.FirstName, s.LastName, e.EnrollmentIDFROM Students sLEFT JOIN Enrollments e ON s.StudentID = e.StudentID;

3. - List all courses and their teachers, including courses without any enrolled students.

-- List all courses and their teachers, including courses without any enrolled studentsSELECT c.Teacher, c.CourseName FROM Courses c LEFT JOIN Enrollments e ON c.CourseID = e.CourseID;

4. - Display a list of all students and their enrollments along with all courses and their teachers.

select s.StudentID, s.FirstName, s.LastName, c.CourseID, c.CourseName, c.Teacher from Students s left join Enrollments e on s.StudentID = e.studentIDleft join Courses c on e.CourseID = c.CourseID;

5. - Find students who share the same age.

SELECT s1.studentid, s1.firstname, s1.lastname, s1.ageFROM Student s1WHERE s1.age IN ( SELECT age FROM Student s2 GROUP BY age HAVING COUNT(\*) > 1);

-- 5. - Find students who share the same age.SELECT s1.StudentID, s1.FirstName, s1.AgeFROM Students s1 INNER JOIN Students s2 ON s1.age = s2.age WHERE s1.StudentID <> s2.StudentIDORDER BY s1.age, s1.FirstName;

-- 6. Retrieve the names of students who are enrolled in a specific course.SELECT s.FirstName, s.LastNameFROM Students sLEFT JOIN Enrollments e ON s.StudentID = e.StudentIDLEFT JOIN Courses c on e.CourseID = c.CourseIDWHERE c.CourseName = "Physics";

-- 7. List courses that have no enrolled students.SELECT c.CourseID, c.CourseNameFROM Courses cLEFT JOIN Enrollments e ON c.CourseID = e.CourseIDWHERE e.EnrollmentID IS NULL;

8. - Display students who haven't enrolled in any courses.

9. - Count the number of students in each course.

10. - Retrieve a list of courses along with the count of students enrolled in each course.

11. - Show a list of teachers and the courses they are teaching, including teachers without assigned courses.

12. - List all students, all courses, and the count of students enrolled in each course.

13. - Retrieve the names of students who are enrolled in a specific course and are above a certain age.

14. - List courses with enrollments and display teacher details, including courses without enrollments.

15. - Display students who haven't enrolled in any courses and meet a certain age criterion.