SQL LAB – 8

TABLE ALIASES, JOINS, CROSS JOIN

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QUESTIONS

1. Use the Student management system Database and table from our previous lab and write a SQL query to achieve the below scenario. Assume you are managing a university database that tracks student enrollments in various courses. You have two tables, "Student" and "Enrollment". The goal is to retrieve information about each student's ID, first name, last name, and their enrollment details, including the enrollment ID and the associated course ID.
   Hint: Use inner join to retrieve data.

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem.

Scenario 1: Imagine you have tables for students and courses. Use an inner join to generate a list of all possible student-course combinations, displaying the student's name and course name. We have a "Student" table with the following a column: StudentId, FirstName, lastName and "Course" table with the following a columns: CourseId, CourseName and Enrollment table with the following a columns: EnrollmentID, StudentID (Foreign key), CourseID (Foreign Key). You want to use inner join to generate a list of all possible student-course combinations.

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Code:

```
-- Join student and enrollment table using inner join

SELECT s.StudentID, s.FirstName, s.LastName, e.EnrollmentID,e.EnrollmentDate, e.CourseID
from student as s
INNER JOIN enrollment as e
on s.StudentID=e.StudentID;
```

Output:

StudentID	FirstName	LastName	EnrollmentID	EnrollmentDate	CourseID
1	Alice	Johnson	1001	2024-01-24	101
3	Carol	Taylor	1003	2024-01-01	103
4	David	Brown	1004	2024-01-12	104
5	Eva	Davis	1005	2024-01-21	105

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```sql
SELECT
    s.FirstName,
    s.LastName,
    c.CourseName
FROM
    Enrollment e
INNER JOIN
    Student s ON e.StudentID = s.StudentId
INNER JOIN
    Course c ON e.CourseID = c.CourseId;
```