Create two tables, Student and Courses. Perform different joins of both tables and display the output along with the SQL query.

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SQL Query:
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Create table course (
     course id INT PRIMARY KEY,
      course name VARCHAR(40)
);
Create table student (
     std id INT PRIMARY KEY,
      std name VARCHAR(40),
      course id INT,
     FOREIGN KEY (course id) REFERENCES course(course id)
);
Insert into course (course id, course name)
Values
      (3001, "DBMS"),
     (3002, "OS"),
     (3003, "AI"),
      (3004, "TOC");
Insert into students (std id, std name, course id)
Values
     (79001, "Subodh", 3001),
     (79002, "Saugat", 3002),
      (79003, "Diwakar", 3004);
```

Table After Insertion of Data:



Student Table

Course Table

1. Inner Join

SQL Query:

Select s.std id, s.std name, c.course name

From student as s

Inner join course as c on s.course_id = c.course_id;

NOTE: Here "as" is used to create an alias for a table.

Table after Inner Join:

Here, only the rows where there is a match in both tables are shown.

2. Left Join

SQL Query:

Select s.std id, s.std name, c.course name

From student as s

Left join course as c on s.course_id = c.course_id;

NOTE: Here "as" is used to create an alias for a table.

Table after Left Join:

Here, all records from the "student" table and matched records from "course" table are shown.

Here, the result is similar to the Inner join as the "course_id" values in the "student" table have matching entries in "course" table.

3. Right Join

SQL Query:

Select s.std_id, s.std_name, c.course_name

From student as s

Right join course as c on s.course_id = c.course_id;

Table after Right Join:

Here, all records from the "course" table and matched records from "student" table are shown.

Here, "AI" has no corresponding student, so the columns "std_id" and "std_name" are NULL.