Table 1: Students

StudentID	StudentName	City
1	Rahul	Mumbai
2	Priya	Delhi
3	Amit	Bangalore
4	Sneha	NULL
5	Vivek	Chennai

Table 2: Courses

CourseID	CourseName	StudentID
101	Math	1
102	Science	2
103	History	1
104	English	NULL
105	Computer Sci	6

1. INNER JOIN

Query:

SQL

```
SELECT
S.StudentID,
S.StudentName,
C.CourseName
FROM
Students AS S
INNER JOIN
Courses AS C
ON
S.StudentID = C.StudentID;
```

Output:

StudentID	StudentName	CourseName
1	Rahul	Math
1	Rahul	History
2	Priya	Science

---

2. LEFT JOIN (or LEFT OUTER JOIN)

Query.

SQL

```
SELECT
S.StudentID,
S.StudentName,
C.CourseName
FROM
Students AS S
LEFT JOIN
Courses AS C
ON
S.StudentID = C.StudentID;
```

Output:

StudentID	StudentName	CourseName
1	Rahul	Math
1	Rahul	History
2	Priya	Science
3	Amit	NULL
4	Sneha	NULL
5	Vivek	NULL

---

3. RIGHT JOIN (or RIGHT OUTER JOIN)

Query:

SQL

```
SELECT
S.StudentID,
S.StudentName,
C.CourseName
FROM
Students AS S
RIGHT JOIN
Courses AS C
ON
S.StudentID = C.StudentID;
```

Output:

StudentID	StudentName	CourseName
1	Rahul	Math
2	Priya	Science
1	Rahul	History
NULL	NULL	English
NULL	NULL	Computer Sci

---

4. FULL JOIN (or FULL OUTER JOIN)

Query:

```
SQL
SELECT
S.StudentID,
S.StudentName,
C.CourseName
FROM
Students AS S
FULL JOIN
Courses AS C
ON
S.StudentID = C.StudentID;
```

Output:

StudentID	StudentName	CourseName
1	Rahul	Math
1	Rahul	History
2	Priya	Science
3	Amit	NULL
4	Sneha	NULL
5	Vivek	NULL
NULL	NULL	English
NULL	NULL	Computer Sci