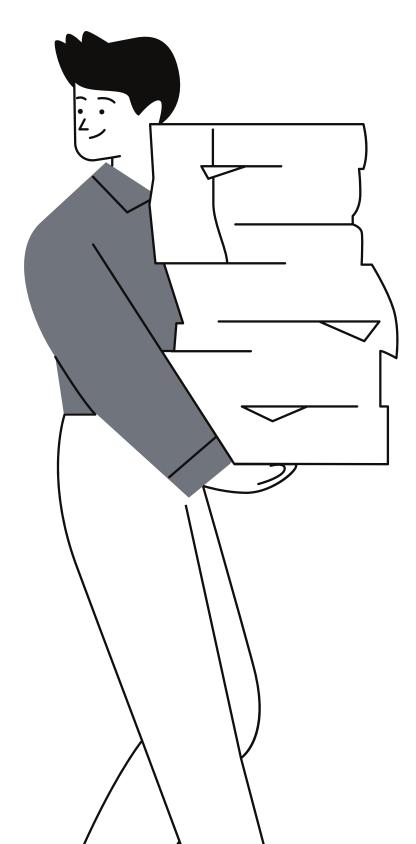
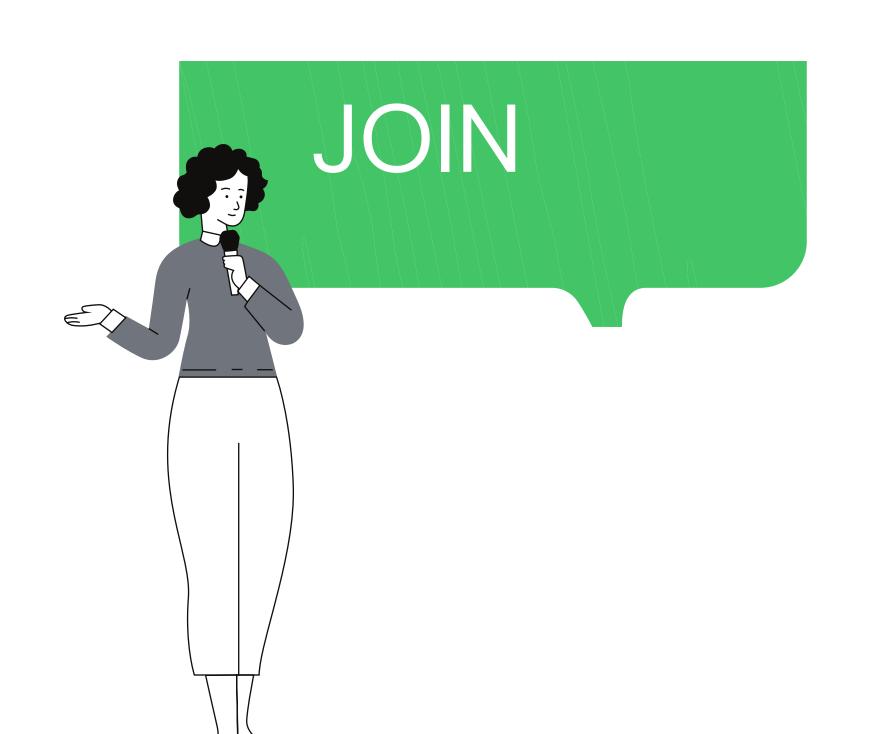


A JOIN clause is used to combine rows from two or more tables, based on a related column between them.





- 1 INNER JOIN
- 2 LEFT JOIN
- 3 RIGHT JOIN
- 4 FULL JOIN

INNERJOIN

The INNER JOIN keyword selects records that have matching values in both tables

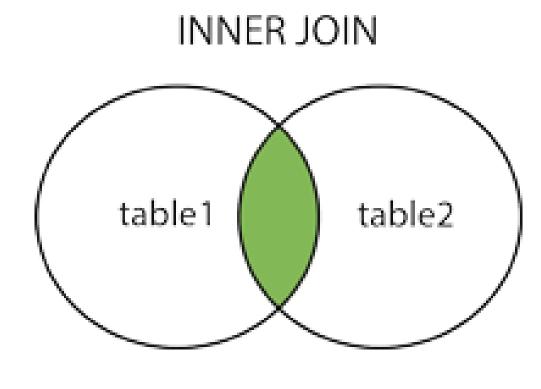
SELECT column_name(s)

FROM table1

INNER JOIN table2

ON table1.column_name=table2.column_name;





INNER JOIN

Student

ROLL_NO	NAME	ADDRESS	PHONE	Age
1	HARSH	DELHI	XXXXXXXXX	18
2	PRATIK	BIHAR	XXXXXXXXX	19
3	RIYANKA	SILIGURI	xxxxxxxxx	20
4	DEEP	RAMNAGAR	XXXXXXXXX	18
5	SAPTARHI	KOLKATA	XXXXXXXXX	19
6	DHANRAJ	BARABAJAR	xxxxxxxxx	20
7	ROHIT	BALURGHAT	XXXXXXXXX	18
8	NIRAJ	ALIPUR	XXXXXXXXX	19

StudentCourse

COURSE_ID	ROLL_NO
1	1
2	2
2	3
3	4
1	5
4	9
5	10
4	11

SELECT StudentCourse.COURSE_ID, Student.NAME,
Student.AGE FROM Student
INNER JOIN StudentCourse
ON Student.ROLL_NO = StudentCourse.ROLL_NO;

COURSE_ID	NAME	Age
1	HARSH	18
2	PRATIK	19
2	RIYANKA	20
3	DEEP	18
1	SAPTARHI	19

The LEFT JOIN keyword returns all records from the left table, and the matching records from the right table. The result is 0 records from the right side, if there is no match.

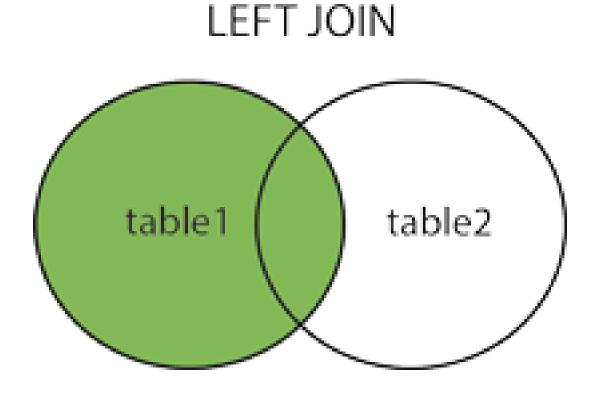
SELECT column_name(s)

FROM table1

LEFT JOIN table2

ON table1.column_name = table2.column_name;







Student

ROLL_NO	NAME	ADDRESS	PHONE	Age
1	HARSH	DELHI	XXXXXXXXX	18
2	PRATIK	BIHAR	XXXXXXXXX	19
3	RIYANKA	SILIGURI	xxxxxxxxx	20
4	DEEP	RAMNAGAR	XXXXXXXXX	18
5	SAPTARHI	KOLKATA	XXXXXXXXX	19
6	DHANRAJ	BARABAJAR	XXXXXXXXX	20
7	ROHIT	BALURGHAT	xxxxxxxxx	18
8	NIRAJ	ALIPUR	XXXXXXXXX	19

SELECT Student.NAME,StudentCourse.COURSE_ID
FROM Student
LEFT JOIN StudentCourse
ON StudentCourse.ROLL_NO = Student.ROLL_NO;

StudentCourse

COURSE_ID	ROLL_NO
1	1
2	2
2	3
3	4
1	5
4	9
5	10
4	11

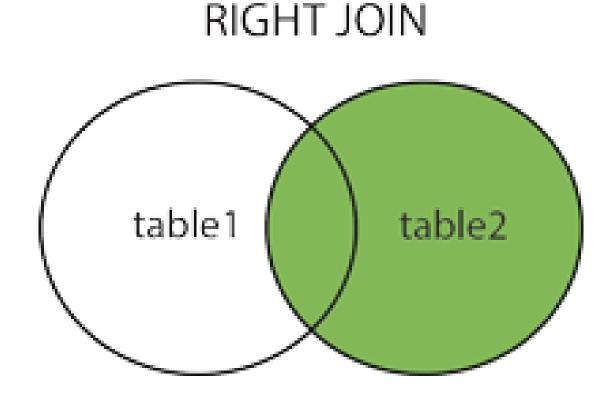
NAME	COURSE_ID
HARSH	1
PRATIK	2
RIYANKA	2
DEEP	3
SAPTARHI	1
DHANRAJ	NULL
ROHIT	NULL
NIRAJ	NULL

RIGHTJOIN

The RIGHT JOIN keyword returns all records from the right table, and the matching records from the left table . The result is 0 records from the left side, if there is no match.

SELECT column_name(s)
FROM table1
RIGHT JOIN table2
ON table1.column_name = table2.column_name;





RIGHT JOIN

Student

ROLL_NO	NAME	ADDRESS	PHONE	Age
1	HARSH	DELHI	XXXXXXXXX	18
2	PRATIK	BIHAR	XXXXXXXXX	19
3	RIYANKA	SILIGURI	xxxxxxxxx	20
4	DEEP	RAMNAGAR	XXXXXXXXX	18
5	SAPTARHI	KOLKATA	XXXXXXXXX	19
6	DHANRAJ	BARABAJAR	XXXXXXXXX	20
7	ROHIT	BALURGHAT	xxxxxxxxx	18
8	NIRAJ	ALIPUR	XXXXXXXXX	19

SELECT Student.NAME, StudentCourse.COURSE_ID
FROM Student
RIGHT JOIN StudentCourse
ON StudentCourse.ROLL_NO = Student.ROLL_NO;

StudentCourse

COURSE_ID	ROLL_NO
1	1
2	2
2	3
3	4
1	5
4	9
5	10
4	11

NAME	COURSE_ID
HARSH	1
PRATIK	2
RIYANKA	2
DEEP	3
SAPTARHI	1
NULL	4
NULL	5
NULL	4



FULL JOIN creates the result-set by combining result of both LEFT JOIN and RIGHT JOIN. The result-set will contain all the rows from both the tables. The rows for which there is no matching, the result-set will contain NULL values

FULL

SELECT column_name(s)
FROM table1
FULL OUTER JOIN table2
ON table1.column_name = table2.column_name
WHERE condition;

FULL JOIN

Student

ROLL_NO	NAME	ADDRESS	PHONE	Age
1	HARSH	DELHI	xxxxxxxx	18
2	PRATIK	BIHAR	xxxxxxxx	19
3	RIYANKA	SILIGURI	xxxxxxxxx	20
4	DEEP	RAMNAGAR	xxxxxxxxx	18
5	SAPTARHI	KOLKATA	XXXXXXXXX	19
6	DHANRAJ	BARABAJAR	xxxxxxxxx	20
7	ROHIT	BALURGHAT	XXXXXXXXX	18
8	NIRAJ	ALIPUR	xxxxxxxxx	19

StudentCourse

COURSE_ID	ROLL_NO
1	1
2	2
2	3
3	4
1	5
4	9
5	10
4	11

SELECT Student.NAME,StudentCourse.COURSE_ID FROM Student FULL JOIN StudentCourse ON StudentCourse.ROLL_NO = Student.ROLL_NO;

NAME	COURSE_ID
HARSH	1
PRATIK	2
RIYANKA	2
DEEP	3
SAPTARHI	1
DHANRAJ	NULL
ROHIT	NULL
NIRAJ	NULL
NULL	9
NULL	10
NULL	11