

What is a SQL join?

A SQL join is a special form of generating a meaningful data by combining multiple tables into a single unified query. There's typically, however, three SQL join types: left, right, and inner. Each of these joins is used to combine data from two tables. When you need to combine data from two tables, you need to use a SQL join to do so.

The various SQL join types are as follows:

- 1. Left join
- 2. Right join
- 3. Inner join
- 4. Full join
- 5. Cross join
- 6. Outer join



Note: The operation used in a SQL join is a special form of generating a meaningful data by combining multiple tables into a single unified query. There's typically, however, three SQL join types: left, right, and inner. Each of these joins is used to combine data from two tables. When you need to combine data from two tables, you need to use a SQL join to do so.

For example:



SQL join types

SQL inner join

The inner join is the most common form of a join in SQL. It is the default of the SQL join type, and it is the most common form of a join in SQL. It is the default of the SQL join type, and it is the most common form of a join in SQL.

The result of the SQL inner join includes rows from both tables where the join condition is met.



Script:

```
SELECT * FROM Table1 INNER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

Right join:

The right join is the most common form of a join in SQL. It is the default of the SQL join type, and it is the most common form of a join in SQL.

The result of the SQL right join includes rows from both tables where the join condition is met.

```
SELECT * FROM Table1 RIGHT JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

Table1	Table2
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Table join (Full outer join):

In general, this is the most common form of a join in SQL. It is the default of the SQL join type, and it is the most common form of a join in SQL.

The result of the SQL full outer join includes rows from both tables where the join condition is met.

```
SELECT * FROM Table1 FULL OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

Table1	Table2
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20	20

SQL self join

A SQL self join is a join operation that joins a table to itself. The result of the join is the intersection of the two tables.



The result of the SQL self join includes rows from both tables where the join condition is met.

```
SELECT * FROM Table1 JOIN Table1 ON Table1.Column1 = Table1.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

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20	20

SQL cross join

A SQL cross join is a join operation that joins two tables to each other. The result of the join is the intersection of the two tables.

The result of the SQL cross join includes rows from both tables where the join condition is met.



```
SELECT * FROM Table1 CROSS JOIN Table2
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

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16	16
17	17
18	18
19	19
20	20

SQL outer join

A SQL outer join is a join operation that joins two tables to each other. The result of the join is the intersection of the two tables.



The result of the SQL outer join includes rows from both tables where the join condition is met.

The result of the SQL outer join includes rows from both tables where the join condition is met.



Script:

```
SELECT * FROM Table1 OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

```
SELECT * FROM Table1 FULL OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

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A right outer join is a join operation that joins two tables to each other. The result of the join is the intersection of the two tables.

The result of the SQL right outer join includes rows from both tables where the join condition is met.



Script:

```
SELECT * FROM Table1 RIGHT OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

```
SELECT * FROM Table1 FULL OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

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14	14
15	15
16	16
17	17
18	18
19	19
20	20

A left outer join is a join operation that joins two tables to each other. The result of the join is the intersection of the two tables.



Script:

```
SELECT * FROM Table1 LEFT OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

```
SELECT * FROM Table1 FULL OUTER JOIN Table2 ON Table1.Column1 = Table2.Column1
```

Note: It is not clear in the diagram what a join is, but it is clear that the result of the join is the intersection of the two tables. The result of the join is the intersection of the two tables, and the result of the join is the intersection of the two tables.

Table1	Table2
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4	4
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15	15
16	16
17	17
18	18
19	19
20	20