

POSTGRESQL - AND AND OR CONJUNCTIVE OPERATORS

The PostgreSQL **AND** and **OR** operators are used to combine multiple conditions to narrow down selected data in a PostgreSQL statement. These two operators are called conjunctive operators.

These operators provide a means to make multiple comparisons with different operators in the same PostgreSQL statement.

The AND Operator:

The **AND** operator allows the existence of multiple conditions in a PostgreSQL statement's WHERE clause. While using AND operator, complete condition will be assumed true when all the conditions are true. For example [condition1] AND [condition2] will be true only when both condition1 and condition2 are true.

Syntax:

The basic syntax of AND operator with WHERE clause is as follows:

```
SELECT column1, column2, columnN
FROM table_name
WHERE [condition1] AND [condition2]...AND [conditionN];
```

You can combine N number of conditions using AND operator. For an action to be taken by the PostgreSQL statement, whether it be a transaction or query, all conditions separated by the AND must be TRUE.

Example:

Consider the table **COMPANY** having records as follows:

```
testdb# select * from COMPANY;
+----+----+----+----+----+
| id | name | age | address | salary |
+----+----+----+----+----+
| 1  | Paul  | 32  | California | 20000
| 2  | Allen | 25  | Texas      | 15000
| 3  | Teddy | 23  | Norway     | 20000
| 4  | Mark   | 25  | Rich-Mond | 65000
| 5  | David  | 27  | Texas      | 85000
| 6  | Kim    | 22  | South-Hall | 45000
| 7  | James  | 24  | Houston    | 10000
(7 rows)
```

Following SELECT statement lists down all the records where AGE is greater than or equal to 25 **AND** salary is greater than or equal to 65000.00:

```
testdb=# SELECT * FROM COMPANY WHERE AGE >= 25 AND SALARY >= 65000;
```

Above PostgreSQL statement will produce the following result:

```
+----+----+----+----+
| id | name | age | address | salary |
+----+----+----+----+
| 4  | Mark  | 25  | Rich-Mond | 65000
| 5  | David | 27  | Texas      | 85000
(2 rows)
```

The OR Operator:

The OR operator is also used to combine multiple conditions in a PostgreSQL statement's WHERE clause. While using OR operator, complete condition will be assumed true when atleast any of the

conditions is true. For example [condition1] OR [condition2] will be true if either condition1 or condition2 is true.

Syntax:

The basic syntax of OR operator with WHERE clause is as follows:

```
SELECT column1, column2, columnN
FROM table_name
WHERE [condition1] OR [condition2]...OR [conditionN]
```

You can combine N number of conditions using OR operator. For an action to be taken by the PostgreSQL statement, whether it be a transaction or query, only any ONE of the conditions separated by the OR must be TRUE.

Example:

Consider [COMPANY](#) table is having the following records:

```
# select * from COMPANY;
 id | name  | age | address | salary
----+-----+-----+-----+-----+
  1 | Paul   | 32  | California | 20000
  2 | Allen  | 25  | Texas    | 15000
  3 | Teddy  | 23  | Norway   | 20000
  4 | Mark   | 25  | Rich-Mond | 65000
  5 | David  | 27  | Texas    | 85000
  6 | Kim    | 22  | South-Hall | 45000
  7 | James  | 24  | Houston  | 10000
(7 rows)
```

Following SELECT statement lists down all the records where AGE is greater than or equal to 25 **OR** salary is greater than or equal to 65000.00:

```
testdb=# SELECT * FROM COMPANY WHERE AGE >= 25 OR SALARY >= 65000;
```

Above PostgreSQL statement will produce the following result:

```
 id | name  | age | address | salary
----+-----+-----+-----+-----+
  1 | Paul   | 32  | California | 20000
  2 | Allen  | 25  | Texas    | 15000
  4 | Mark   | 25  | Rich-Mond | 65000
  5 | David  | 27  | Texas    | 85000
(4 rows)
```