

SQL AND, OR and NOT Operators

[< Previous](#)[Next >](#)

The SQL AND, OR and NOT Operators

The **WHERE** clause can be combined with **AND** , **OR** , and **NOT** operators.

The **AND** and **OR** operators are used to filter records based on more than one condition:

- The **AND** operator displays a record if all the conditions separated by **AND** are TRUE.
- The **OR** operator displays a record if any of the conditions separated by **OR** is TRUE.

The **NOT** operator displays a record if the condition(s) is NOT TRUE.

AND Syntax

```
SELECT column1, column2, ...  
FROM table_name  
WHERE condition1 AND condition2 AND condition3 ...;
```

OR Syntax

```
SELECT column1, column2, ...  
FROM table_name  
WHERE condition1 OR condition2 OR condition3 ...;
```

NOT Syntax

```
SELECT column1, column2, ...  
FROM table_name  
WHERE NOT condition;
```

Demo Database

The table below shows the complete "Customers" table from the Northwind sample database:

CustomerID	CustomerName	ContactName	Address	City	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	France
8	Bólido Comidas	Martín Sommer	C/ Araquil, 67	Madrid	Spain

AND Example

The following SQL statement selects all fields from "Customers" where country is "Germany" AND city is "Berlin":

Example

Get your own SQL Server

```
SELECT * FROM Customers
WHERE Country='Germany' AND City='Berlin';
```

Try it Yourself »

OR Example

The following SQL statement selects all fields from "Customers" where city is "Berlin" OR "München":

Example

```
SELECT * FROM Customers  
WHERE City='Berlin' OR City='München';
```

Try it Yourself »

The following SQL statement selects all fields from "Customers" where country is "Germany" OR "Spain":

Example

```
SELECT * FROM Customers  
WHERE Country='Germany' OR Country='Spain';
```

Try it Yourself »

NOT Example

The following SQL statement selects all fields from "Customers" where country is NOT "Germany":

Example

```
SELECT * FROM Customers  
WHERE NOT Country='Germany';
```

Try it Yourself »

Combining AND, OR and NOT

You can also combine the **AND**, **OR** and **NOT** operators.

The following SQL statement selects all fields from "Customers" where country is "Germany" AND city must be "Berlin" OR "München" (use parenthesis to form complex expressions):

Example

```
SELECT * FROM Customers
WHERE Country='Germany' AND (City='Berlin' OR City='München');
```

Try it Yourself »

The following SQL statement selects all fields from "Customers" where country is NOT "Germany" and NOT "USA":

Example

```
SELECT * FROM Customers
WHERE NOT Country='Germany' AND NOT Country='USA';
```

Try it Yourself »

Test Yourself With Exercises

Exercise:

Select all records where the **City** column has the value 'Berlin' and the **PostalCode** column has the value 12209.

```
* FROM Customers
City = 'Berlin'
```

= 12209;

Submit Answer »

[Start the Exercise](#)