



# SQL AND, OR and NOT Operators

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## 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 is 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

Below is a selection from the "Customers" table in the Northwind sample database:

CustomerID	CustomerName	ContactName	Address	City	PostalCod
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22



## AND Example

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

## Example

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

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## 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';
```

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## NOT Example

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

### Example

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

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## 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');
```

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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';
```

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