

SQL WHERE Clause: Definition & Example

Definition:

The WHERE clause in SQL is used to filter records based on a specified condition. It is used in SELECT, UPDATE, DELETE, and INSERT INTO (with SELECT) statements.

Note: The WHERE clause is not only used in SELECT statements, it is also used in UPDATE, DELETE, etc.!

✓ Syntax:

```
sql                                                                    Copy Edit

SELECT column1, column2, ...
FROM table_name
WHERE condition;
```

1. Retrieve Customers from New York

```
sql                                                                    Copy Edit

SELECT * FROM Customers
WHERE City = 'New York';
```

✓ Output:

CustomerID	Name	City	Age	Email
1	John Doe	New York	30	john@example.com
3	Bob Brown	New York	40	bob@example.com

2. Retrieve Customers Older Than 30

```
sql                                                                    Copy Edit

SELECT * FROM Customers
WHERE Age > 30;
```

✓ Output:

CustomerID	Name	City	Age	Email
3	Bob Brown	New York	40	bob@example.com
4	Eva Green	Miami	35	eva@example.com

3. Retrieve Customers from Chicago Aged Below 30

sql

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```
SELECT * FROM Customers
WHERE City = 'Chicago' AND Age < 30;
```

Output:

CustomerID	Name	City	Age	Email
2	Alice Smith	Chicago	25	alice@example.com
5	David Lee	Chicago	28	david@example.com

4. Retrieve Customers from Either New York or Miami

sql

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```
SELECT * FROM Customers
WHERE City = 'New York' OR City = 'Miami';
```

Output:

CustomerID	Name	City	Age	Email
1	John Doe	New York	30	john@example.com
3	Bob Brown	New York	40	bob@example.com
4	Eva Green	Miami	35	eva@example.com

Operator	Description	Example
=	Equal	<div>Try it</div>
>	Greater than	<div>Try it</div>
<	Less than	<div>Try it</div>
>=	Greater than or equal	<div>Try it</div>
<=	Less than or equal	<div>Try it</div>
<>	Not equal. Note: In some versions of SQL this operator may be written as !=	<div>Try it</div>
BETWEEN	Between a certain range	<div>Try it</div>
LIKE	Search for a pattern	<div>Try it</div>
IN	To specify multiple possible values for a column	<div>Try it</div>

SQL Statement:

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```
SELECT * FROM Products
WHERE Price BETWEEN 50 AND 60;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

[Run SQL »](#)

Result:

Number of Records: 2

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
51	Manjimup Dried Apples	24	7	50 - 300 g pkgs.	53
59	Raclette Courdavault	28	4	5 kg pkg.	55

SQL Statement:

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```
SELECT * FROM Customers
WHERE City LIKE 's%';
```

Edit the SQL Statement, and click "Run SQL" to see the result.

[Run SQL »](#)

Result:

Number of Records: 12

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil

SQL Statement:

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```
SELECT * FROM Customers
WHERE City IN ('Paris','London');
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 8

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
16	Consolidated	Elizabeth Brown	Berkeley Gardens 12	London	WX1 6LT	UK