



SQL | WHERE Clause

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WHERE keyword is used for fetching **filtered data** in a result set. It is used to fetch data according to particular criteria. **WHERE** [keyword](#) can also be used to filter data by matching patterns.

Syntax:

```
SELECT column1,column2 FROM table_name WHERE column_name operator value;
```

Parameter Explanation:

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1. **column1,column2:** fields in the table
2. **table_name:** name of table
3. **column_name:** name of field used for filtering the data
4. **operator:** operation to be considered for filtering
5. **value:** exact value or pattern to get related data in result

List of Operators that Can be Used with WHERE Clause

Operator	Description
>	Greater Than
>=	Greater than or Equal to

Operator	Description
<	Less Than
<=	Less than or Equal to
=	Equal to
<>	Not Equal to
BETWEEN	In an inclusive Range
LIKE	Search for a pattern
IN	To specify multiple possible values for a column

Query:

```
CREATE TABLE Emp1(  
    EmpID INT PRIMARY KEY,  
    Name VARCHAR(50),  
    Country VARCHAR(50),  
    Age int(2),  
    mob int(10)  
);  
-- Insert some sample data into the Customers table  
INSERT INTO Emp1 (EmpID, Name, Country, Age, mob)  
VALUES (1, 'Shubham', 'India', '23', '738479734'),  
      (2, 'Aman ', 'Australia', '21', '436789555'),  
      (3, 'Naveen', 'Sri lanka', '24', '34873847'),  
      (4, 'Aditya', 'Austria', '21', '328440934'),  
      (5, 'Nishant', 'Spain', '22', '73248679');  
Select * from Emp1;
```

Where Clause with Logical Operators

To fetch records of Employee with ages equal to 24.

Query:

```
SELECT * FROM Emp1 WHERE Age=24;
```

Output:

EmpID	Name	Country	Age	mob
3	Naveen	Sri lanka	24	34873847

To fetch the EmpID, Name and Country of Employees with Age greater than 21.

Query:

```
SELECT EmpID, Name, Country FROM Emp1 WHERE Age > 21;
```

Output:

EmpID	Name	Country
1	Shubham	India
3	Naveen	Sri lanka
5	Nishant	Spain

Where Clause with BETWEEN Operator

It is used to fetch filtered data in a given range inclusive of two values.

Syntax:

```
SELECT column1,column2 FROM table_name  
WHERE column_name BETWEEN value1 AND value2;
```

Parameter Explanation:

1. **BETWEEN:** operator name
2. **value1 AND value2:** exact value from value1 to value2 to get related data in result set.

To fetch records of Employees where Age is between 22 and 24 (inclusive).

Query:

```
SELECT * FROM Emp1 WHERE Age BETWEEN 22 AND 24;
```

Output:

EmpID	Name	Country	Age	mob
1	Shubham	India	23	738479734
3	Naveen	Sri lanka	24	34873847
5	Nishant	Spain	22	73248679

Where Clause with LIKE Operator

It is used to fetch filtered data by searching for a particular pattern in the where clause.

Syntax:

```
SELECT column1,column2 FROM  
table_name WHERE column_name LIKE pattern;
```

Parameters Explanation:

1. **LIKE:** operator name
2. **pattern:** exact value extracted from the pattern to get related data in the result set.

Note: The character(s) in the pattern is case sensitive.

To fetch records of Employees where Name starts with the letter S.

Query:

```
SELECT * FROM Emp1 WHERE Name LIKE 'S%';
```

The '%' (wildcard) signifies the later characters here which can be of any length and value.

Output:

EmpID	Name	Country	Age	mob
1	Shubham	India	23	738479734

To fetch records of Employees where Name contains the pattern 'M'.

Query:

```
SELECT * FROM Emp1 WHERE Name LIKE '%M%';
```

Output:

EmpID	Name	Country	Age	mob
1	Shubham	India	23	738479734
2	Aman	Australia	21	436789555

Where Clause with IN Operator

It is used to fetch the filtered data same as fetched by '=' operator just the difference is that here we can specify multiple values for which we can get the result set.

Syntax:

```
SELECT column1,column2 FROM table_name WHERE column_name IN  
(value1,value2,...);
```

Parameters Explanation:

1. **IN:** operator name
2. **value1,value2,...:** exact value matching the values given and get related data in the result set.

To fetch the Names of Employees where Age is 21 or 23.

Query:

```
SELECT Name FROM Emp1 WHERE Age IN (21,23);
```

Output:

Name
Shubham
Aman
Aditya

This article is contributed by **Harsh Agarwal**. If you like GeeksforGeeks and would like to contribute, you can also write an article using [write.geeksforgeeks.org](https://www.geeksforgeeks.org/write-a-blog/) or mail your article to review-team@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks. Please write comments if you find anything incorrect, or if you want to share more information about the topic discussed above.

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