SQL WHERE Clause

SQL WHERE clause is basically use for fetching specific criteria matched data only return. SQL WHERE clause is optionally clause in DML statement.

SQL WHERE clause we can use with SELECT, UPDATE, DELETE statements. SELECT statement with WHERE clause execute, fetching all table rows and apply WHERE clause filtering and finally return the result data.

Notes: You can't use INSERT statement with WHERE clause. But you can use INSERT Statement with WHERE cause only when you get the filter data from another TABLE.

WHERE clause use with SELECT Statement

When you get table data with specific filtered data, you should use where clause, considering following syntax that help you to understanding WHERE clause.

Syntax

```
SELECT * FROM table_name WHERE condition;
```

Example

```
SQL> SELECT * FROM users_info WHERE name = 'Opal Kole';

NO NAME ADDRESS CONTACT_NO

1 Opal Kole 63 street Ct. 000-444-7847
```

WHERE clause use with UPDATE Statement

When you want to update specific table data you should use UPDATE statement with where clause. You can update/set more than one columns value.

Syntax

Considering following syntax that help you to understanding WHERE clause,

```
UPDATE table_name SET column_name=value1, ... WHERE condition;
```

Example

```
SQL> UPDATE users_info SET address = '145 Taxo court.' WHERE no = 10;
1 row updated.
```

WHERE clause use with DELETE Statement

When you want to delete specific table row(s) you should use DELETE statement with WHERE clause, Considering following syntax that help you to understanding WHERE clause.

Syntax

```
DELTE FROM table_name WHERE condition;
```

Example

```
SQL> DELETE FROM users_info WHERE no = 10;
1 row deleted.
```

WHERE clause use with INSERT Statement

When you want to insert filter data from another table, you should use INSERT statement with WHERE clause, Considering following syntax that help you to understanding WHERE clause,

Syntax

```
INSERT INTO table_name (column_name1, column_name2, ...)
    SELECT column_name1, column_name2, ...
FROM another_table_name
WHERE condition;
```

```
SQL> INSERT INTO userinfo (no, name, address)
    SELECT no, name, address
    FROM users_info
    WHERE no = 1;
1 row inserted.
```

WHERE clause Operators

You can use WHERE clause with following operators.

Operator	Description	Example		
=	Equal to	NO NAME	ADDRESS 137 Clay Road	CONTACT_NO
<>	Not equal	NO NAME 1 Opal Kole 2 Max Miller 3 Beccaa Moss 4 Paul Singh 6 Jack Evans 7 Reed Koch 8 Gabe Hee	1343 Prospect St 1365 Grove Way	CONTACT_NO 000-444-7847 000-444-8292 000-444-7586 000-444-7585 000-444-8401 000-444-5228 000-444-5028 000-444-5928
>	Greater than	NO NAME 6 Jack Evans 7 Reed Koch 8 Gabe Hee 9 Ben Mares	ADDRESS 1365 Grove Way 1274 West Street 1220 Dallas Drive 101 Candy Road 145 Taxo court.	CONTACT_NO 000-444-8401 000-444-5228 000-444-5028 000-444-5928
<	Less than	NO NAME 1 Opal Kole 2 Max Miller 3 Beccaa Moss	ADDRESS 63 street Ct. 41 NEW ROAD. 2500 green city. 1343 Prospect St	CONTACT_NO 000-444-7847 000-444-8292 000-444-7586
>=	Greater than or equal	NO NAME 5 Ken Myer 6 Jack Evans 7 Reed Koch 8 Gabe Hee 9 Ben Mares	ADDRESS 137 Clay Road 1365 Grove Way 1274 West Street 1220 Dallas Drive 101 Candy Road 145 Taxo court.	CONTACT_NO 000-444-7528 000-444-8401 000-444-5228 000-444-5028 000-444-5928

```
<=
                      Less than or equal
                                                            SQL> SELECT * FROM users_info WHERE no <= 5;</pre>
                                                            NO NAME
                                                                                             ADDRESS
                                                                                                                              CONTACT_NO
                                                             1 Opal Kole 63 street Ct. 000-444-7847
2 Max Miller 41 NEW ROAD. 000-444-8292
3 Beccaa Moss 2500 green city. 000-444-7586
4 Paul Singh 1343 Prospect St 000-444-7585
5 Ken Myer 137 Clay Road 000-444-7528
BETWEEN
                    Fetching within range
                                data
                                                            SQL> SELECT * FROM users_info WHERE no BETWEEN 1 AND 5;
                                                                                             ADDRESS
                                                            NO NAME
                                                                                                                              CONTACT_NO
                                                             1 Opal Kole 63 street Ct. 000-444-7847
2 Max Miller 41 NEW ROAD. 000-444-8292
3 Beccaa Moss 2500 green city. 000-444-7586
4 Paul Singh 1343 Prospect St 000-444-7585
5 Ken Myer 137 Clay Road 000-444-7528
    LIKE
                     Search for a pattern
                                                            SQL> SELECT * FROM users_info WHERE name LIKE 'Be%';
                                                                                          ADDRESS
                                                            NO NAME
                                                                                                                              CONTACT NO
                                                              3 Beccaa Moss 2500 green city.
9 Ben Mares 101 Candy Road
                                                                                                                              000-444-7586
                                                                                                                              000-444-5928
                                                              2 rows selected.
      IN
                     Allows only specified
                               values
                                                            SQL> SELECT * FROM users_info WHERE no IN (1,5,10);
                                                                             ADDRESS
                                                            NO NAME
                                                                                                                              CONTACT_NO
                                                             __ _____

      1 Opal Kole
      63 street Ct.
      000-444-7847

      5 Ken Myer
      137 Clay Road
      000-444-7528

      10 Sariya Vargas
      145 Taxo court.
      000-444-5927

                                                            3 rows selected.
  NOT IN
                     Not allows specified
                               values
                                                            SQL> SELECT * FROM users_info WHERE no NOT IN (1,3,5,7,9);
                                                            NO NAME
                                                                                             ADDRESS
                                                                                                                              CONTACT_NO
                                                            2 Max Miller 41 NEW ROAD 000-444-8292
4 Paul Singh 1343 Prospect St 000-444-7585
6 Jack Evans 1365 Grove Way 000-444-8401
8 Gabe Hee 1220 Dallas Drive 000-444-5028
10 Sariya Vargas 145 Taxo court 000-444-5927
                                                            5 rows selected.
```