

## 6. MySql – Where clause, Operators

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### 6. MySQL – Where clause, Operators

#### 1. Where clause

- ✓ Based on **condition** we can **filter** and get matched rows from table.

Login  
Query

Login with valid credentials  
Get matching rows by using where clause.

```
mysql> select * from persons  
-> where LastName = 'Danial';
```

Output

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      101 | Danial   | K         | Near to Data Science Area | Hyderabad |  
+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

Login  
Query

Login with valid credentials  
where clause with equal operator

```
mysql> select * from persons  
-> where location = 'hyderabad';
```

Output

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      101 | Danial   | K         | Near to Data Science Area | Hyderabad |  
|      103 | Ranjan   | M         | Near to Python Theatre    | Hyderabad |  
|      104 | Prasad   | K         | Near to Python Road       | Hyderabad |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

### 2. Where clause with operators

- ✓ Below operators we can use with where clause.

Operator	Description
=	Equal
>	Greater than
<	Less than
>=	Greater than or Equal
<=	Less than or Equal
<>	Not Equal, as !=
between	Between a certain range
in	To check multiple possible values in column

### 2.1. Where clause with greater than operator

- ✓ We can apply where clause with greater than operator on specific column.
- ✓ This returns the matched records from the table.

Login

Login with valid credentials

Query

where clause with greater than operator

```
mysql> select * from persons  
-> where PersonID > 101;
```

Output

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
| 102 | Nireekshan | D | Near to AI Theatre | Bangalore |  
| 103 | Ranjan | M | Near to Python Theatre | Hyderabad |  
| 104 | Prasad | K | Near to Python Road | Hyderabad |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

### 2.2. Where clause with between and operators

- ✓ We can apply where clause with between, and operators.
- ✓ This returns within range of values.
- ✓ Here start and end values are included.

Login  
Query

Login with valid credentials  
where clause with between and operators

```
mysql> select * from persons  
-> where PersonID between 101 and 104;
```

Output

PersonID	LastName	FirstName	Address	location
101	Danial	K	Near to Data Science Area	Hyderabad
102	Nireekshan	D	Near to AI Theatre	Bangalore
103	Ranjan	M	Near to Python Theatre	Hyderabad
104	Prasad	K	Near to Python Road	Hyderabad

4 rows in set (0.00 sec)

### 2.3. Where clause with like operator

- ✓ We can apply where clause with like operators.
- ✓ By using this we can search specific pattern in a column
  - 'h%' it returns starts with h values
  - '%h' it returns ends with h values

**Login** Login with valid credentials  
**Query** where clause with like operator

```
mysql> select * from persons  
-> where location like 'h%';
```

**Output**

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      101 | Danial   | K         | Near to Data Science Area | Hyderabad |  
|      103 | Ranjan   | M         | Near to Python Theatre    | Hyderabad |  
|      104 | Prasad   | K         | Near to Python Road       | Hyderabad |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

### 2.4. Where clause with in operator

- ✓ We can apply where clause with in operator.
- ✓ By using this we can get the matched records from the table.

**Login** Login with valid credentials  
**Query** where clause with in operator

```
mysql> select * from persons  
-> where Lastname in('Nireekshan', 'Danial');
```

**Output**

PersonID	LastName	FirstName	Address	location
101	Danial	K	Near to Data Science Area	Hyderabad
102	Nireekshan	D	Near to AI Theatre	Bangalore

2 rows in set (0.00 sec)



Login  
Query

Login with valid credentials  
where clause with not in operator

```
mysql> select * from persons  
-> where Lastname not in('Nireekshan', 'Danial');
```

Output

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      103 | Ranjan   | M         | Near to Python Theatre | Hyderabad |  
|      104 | Prasad   | K         | Near to Python Road    | Hyderabad |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

### 3. Where clause with AND, OR, NOT operators

- ✓ We can use below operators along with where clause
  - And operator
  - Or operators
  - Not operator

#### 3.1. Where clause with and operator

- ✓ If both conditions are true then AND operator returns the matched records.

**Login** Login with valid credentials  
**Query** where clause with and operator

```
mysql> select * from Persons  
-> where LastName = 'Danial' and location = 'Hyderabad';
```

**Output**

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      101 | Danial   | K         | Near to Data Science Area | Hyderabad |  
+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

### 3.2. Where clause with or operator

- ✓ If at least one condition is matching from multiple conditions then or operator returns the corresponding records

**Login** Login with valid credentials  
**Query** where clause with and operator

```
mysql> select * from Persons  
-> where LastName = 'Prasad' or location = 'UK';
```

**Output**

```
+-----+-----+-----+-----+-----+  
| PersonID | LastName | FirstName | Address | location |  
+-----+-----+-----+-----+-----+  
|      104 | Prasad  | K        | Near to Python Road | Hyderabad |  
+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

### 3.3. Where clause with not operator

- ✓ Not operator displays the records if the condition is not true.

**Login Query**      Login with valid credentials  
where clause with and operator

```
mysql> select * from Persons  
      -> where not location = 'Bangalore';
```

**Output**

PersonID	LastName	FirstName	Address	location
101	Danial	K	Near to Data Science Area	Hyderabad
103	Ranjan	M	Near to Python Theatre	Hyderabad
104	Prasad	K	Near to Python Road	Hyderabad

3 rows in set (0.00 sec)