SQL Operators:-

```
mysql> select 10+20;
+-------+
| 10+20 |
+-------+
|    30 |
+-------+
1 row in set (0.01 sec)

mysql> select 20-10;
+-------+
| 20-10 |
+-------+
|    10 |
+-------+
1 row in set (0.03 sec)

mysql> select 20*10;
+-------+
| 20*10 |
+-------+
|   200 |
+-------+
1 row in set (0.00 sec)

mysql> select 90/3;
+---------+
```

| 90/3 |

+---------+

| 30.0000 |

+---------+

1 row in set (0.00 sec)

SQL Comparison Operators:-

mysql> select * from employees;

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

| jack | 2 | 24 | JH | 20000 |

| zohan | 3 | 19 | MR | 14000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

| tina | 6 | 67 | MP | 4000 |

+---------+----+------+---------+--------+

6 rows in set (0.00 sec)

mysql> select * from employees where salary > 50000;

Empty set (0.00 sec)

mysql> select * from employees where salary > 5000;

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

| jack | 2 | 24 | JH | 20000 |

| zohan | 3 | 19 | MR | 14000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

+---------+----+------+---------+--------+

5 rows in set (0.00 sec)

mysql> select * from employees where salary = 5000;

Empty set (0.00 sec)

mysql> select * from employees where salary = 50000;

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

+---------+----+------+---------+--------+

1 row in set (0.00 sec)

mysql> select * from employees where salary != 50000;

+-------+----+------+---------+--------+

| name | id | age | address | salary |

+-------+----+------+---------+--------+

| jack | 2 | 24 | JH | 20000 |

| zohan | 3 | 19 | MR | 14000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

| tina | 6 | 67 | MP | 4000 |

+-------+----+------+---------+--------+

5 rows in set (0.00 sec)

```
mysql> select * from employees where salary <> 20000;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| zohan   |  3 |   19 | MR      |  14000 |
| meena   |  4 |   23 | BH      |  12000 |
| reena   |  5 |   24 | UUP     |  30000 |
| tina    |  6 |   67 | MP      |   4000 |
+---------+----+------+---------+--------+
5 rows in set (0.00 sec)

mysql> select * from employees where salary >= 20000;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| jack    |  2 |   24 | JH      |  20000 |
| reena   |  5 |   24 | UUP     |  30000 |
+---------+----+------+---------+--------+
3 rows in set (0.00 sec)

mysql>
```

SQL Logical Operator:-

```
mysql> select * from employees;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| jack    |  2 |   24 | JH      |  20000 |
| zohan   |  3 |   19 | MR      |  14000 |
| meena   |  4 |   23 | BH      |  12000 |
| reena   |  5 |   24 | UUP     |  30000 |
| tina    |  6 |   67 | MP      |   4000 |
+---------+----+------+---------+--------+
6 rows in set (0.00 sec)

mysql> select * from employees where age >= 23 and salary >= 20000;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| jack    |  2 |   24 | JH      |  20000 |
| reena   |  5 |   24 | UUP     |  30000 |
+---------+----+------+---------+--------+
3 rows in set (0.00 sec)

mysql> select * from employees where age >= 23 or salary >= 20000;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
```

| Bhavesh | 1 | 23 | MH | 50000 |

| jack | 2 | 24 | JH | 20000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

| tina | 6 | 67 | MP | 4000 |

+---------+----+------+---------+--------+

5 rows in set (0.00 sec)

mysql> select * from employees where age is NOT null;

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

| jack | 2 | 24 | JH | 20000 |

| zohan | 3 | 19 | MR | 14000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

| tina | 6 | 67 | MP | 4000 |

+---------+----+------+---------+--------+

6 rows in set (0.00 sec)

mysql> select * from employees where name LIKE 'Bh%';

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

+---------+----+------+---------+--------+

1 row in set (0.01 sec)

```
mysql> select * from employees where age in (23,25);
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| meena   |  4 |   23 | BH      |  12000 |
+---------+----+------+---------+--------+
2 rows in set (0.00 sec)

mysql> select * from employees where age between 23 and 27;
+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
| jack    |  2 |   24 | JH      |  20000 |
| meena   |  4 |   23 | BH      |  12000 |
| reena   |  5 |   24 | UUP     |  30000 |
+---------+----+------+---------+--------+
4 rows in set (0.00 sec)

mysql> select age from employees;
+------+
| age  |
+------+
|   23 |
|   24 |
|   19 |
|   23 |
```

| 24 |

| 67 |

+------+

6 rows in set (0.00 sec)

mysql> select * from employees where age > all (select age from employees where salary > 20000);

+------+----+------+---------+--------+

| name | id | age | address | salary |

+------+----+------+---------+--------+

| tina | 6 | 67 | MP | 4000 |

+------+----+------+---------+--------+

1 row in set (0.03 sec)

mysql> select * from employees where age > any (select age from employees where salary > 50000);

Empty set (0.01 sec)

mysql> select * from employees where age > any (select age from employees where salary > 5000);

+---------+----+------+---------+--------+

| name | id | age | address | salary |

+---------+----+------+---------+--------+

| Bhavesh | 1 | 23 | MH | 50000 |

| jack | 2 | 24 | JH | 20000 |

| meena | 4 | 23 | BH | 12000 |

| reena | 5 | 24 | UUP | 30000 |

| tina | 6 | 67 | MP | 4000 |

+---------+----+------+---------+--------+

5 rows in set (0.00 sec)

SQL Expressions :-

1) **Boolean Expressions-**

```
mysql> select * from employees where salary = 60000;

Empty set (0.00 sec)


mysql> select * from employees where salary = 50000;  #in this the condition is true.

+---------+----+------+---------+--------+
| name    | id | age  | address | salary |
+---------+----+------+---------+--------+
| Bhavesh |  1 |   23 | MH      |  50000 |
+---------+----+------+---------+--------+
1 row in set (0.00 sec)
```

2) **Numeric Expressions-**

```
mysql> select (15+6);

+--------+
| (15+6) |
+--------+
|    21 |
+--------+
1 row in set (0.00 sec)


mysql> select (15+6) as addition;

+----------+
| addition |
+----------+
|      21 |
+----------+
```

1 row in set (0.00 sec)

mysql> select count(*) as 'RECORDS' from employees;

+---------+

| RECORDS |

+---------+

| 6 |

+---------+

1 row in set (0.01 sec)

3) Date Expression-

mysql> select current_timestamp;
+---------------------+
| current_timestamp |
+---------------------+
| 2025-06-24 15:21:10 |
+---------------------+ss
1 row in set (0.00 sec)