

SQL - LOGICAL OPERATORS

<http://www.tutorialspoint.com/sql/sql-logical-operators.htm>

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Consider CUSTOMERS table has following records:

```
SQL> SELECT * FROM CUSTOMERS;
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
| 1 | Ramesh    | 32  | Ahmedabad | 2000.00 |
| 2 | Khilan    | 25  | Delhi     | 1500.00 |
| 3 | kaushik   | 23  | Kota      | 2000.00 |
| 4 | Chaitali  | 25  | Mumbai    | 6500.00 |
| 5 | Hardik    | 27  | Bhopal    | 8500.00 |
| 6 | Komal     | 22  | MP        | 4500.00 |
| 7 | Muffy     | 24  | Indore    | 10000.00 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

Here are simple examples showing usage of SQL Comparison Operators:

```
SQL> SELECT * FROM CUSTOMERS WHERE AGE >= 25 AND SALARY >= 6500;
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
| 4 | Chaitali  | 25  | Mumbai    | 6500.00 |
| 5 | Hardik    | 27  | Bhopal    | 8500.00 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
SQL> SELECT * FROM CUSTOMERS WHERE AGE >= 25 OR SALARY >= 6500;
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
| 1 | Ramesh    | 32  | Ahmedabad | 2000.00 |
| 2 | Khilan    | 25  | Delhi     | 1500.00 |
| 4 | Chaitali  | 25  | Mumbai    | 6500.00 |
| 5 | Hardik    | 27  | Bhopal    | 8500.00 |
| 7 | Muffy     | 24  | Indore    | 10000.00 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
SQL> SELECT * FROM CUSTOMERS WHERE AGE IS NOT NULL;
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
| 1 | Ramesh    | 32  | Ahmedabad | 2000.00 |
| 2 | Khilan    | 25  | Delhi     | 1500.00 |
| 3 | kaushik   | 23  | Kota      | 2000.00 |
| 4 | Chaitali  | 25  | Mumbai    | 6500.00 |
| 5 | Hardik    | 27  | Bhopal    | 8500.00 |
| 6 | Komal     | 22  | MP        | 4500.00 |
| 7 | Muffy     | 24  | Indore    | 10000.00 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
SQL> SELECT * FROM CUSTOMERS WHERE NAME LIKE 'Ko%';
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
| 6 | Komal     | 22  | MP        | 4500.00 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
SQL> SELECT * FROM CUSTOMERS WHERE AGE IN ( 25, 27 );
+-----+-----+-----+-----+-----+
| ID | NAME      | AGE | ADDRESS  | SALARY |
+-----+-----+-----+-----+-----+
```

ID	NAME	AGE	ADDRESS	SALARY
2	Khilan	25	Delhi	1500.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00

3 rows in set (0.00 sec)

SQL> SELECT * FROM CUSTOMERS WHERE AGE BETWEEN 25 AND 27;

ID	NAME	AGE	ADDRESS	SALARY
2	Khilan	25	Delhi	1500.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00

3 rows in set (0.00 sec)

SQL> SELECT AGE FROM CUSTOMERS

WHERE EXISTS (SELECT AGE FROM CUSTOMERS WHERE SALARY > 6500);

AGE
32
25
23
25
27
22
24

7 rows in set (0.02 sec)

SQL> SELECT * FROM CUSTOMERS

WHERE AGE > ALL (SELECT AGE FROM CUSTOMERS WHERE SALARY > 6500);

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00

1 row in set (0.02 sec)

SQL> SELECT * FROM CUSTOMERS

WHERE AGE > ANY (SELECT AGE FROM CUSTOMERS WHERE SALARY > 6500);

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00

4 rows in set (0.00 sec)