Operator

Arithmetic operators

Comparison operators

= Equal to

> Greater than

< Less than

>= Greater than or equal to

<= Less than or equal to

<> Not equal to

Logical(true/false) Operators

ALL : TRUE if all of the subquery values meet the condition

AND : TRUE if all the conditions separated by AND is TRUE

ANY : TRUE if any of the subquery values meet the condition

BETWEEN : TRUE if the operand is within the range of comparisons

EXISTS : TRUE if the subquery returns one or more records

IN : TRUE if the operand is equal to one of a list of expressions

LIKE : TRUE if the operand matches a pattern

NOT : Displays a record if the condition(s) is NOT TRUE

OR : TRUE if any of the conditions separated by OR is TRUE

SOME : TRUE if any of the subquery values meet the condition

**< ANY ( sub query ) : Less than maximum**

**> ANY ( sub query ) : greater than minimum**

**= ANY ( sub query ) : equivalent to IN**

**> ALL ( sub query ) : greater than maximum**

**< ALL ( sub query ) : lesser than minimum**

**ALL keyword**

TRUE if **all of the subquery values meet the condition**

Sample table :

CREATE TABLE `products` (

`productId` int(11) NOT NULL AUTO\_INCREMENT,

`productName` text,

`price` int(11) DEFAULT NULL,

PRIMARY KEY (`productId`)

)

INSERT INTO `products` VALUES (1,'salt',20),(2,'sugar',**40**),(3,'sugar',40),(4,'cookies',60),(5,'butter',80),(6,'butter',80),(7,'olive oil',100),(8,'olive oil',100),(9,'deodrant',120);

Sql query :

select \* from products where price > all (select price from products where productId = 4)

Output :

Products whose price greater than that of productId 4 listed // butter, olive oil and deo listed

Example 2 :

select productName from products where price > all (select price from products where productName like "s%")

Output : all products whose price is greater than that of productname which starts with letter **s** will be listed

**AND**

TRUE **if all the conditions separated by AND is TRUE**

Sql query :

select \* from products where productName="butter" and price = 80

Output :

Product id 5 and 6 will be listed.

**ANY**

TRUE **if any of the subquery values meet the condition**

select \* from products

where price > any (select price from products where price > 40);

Inner query will list price which are greater than 40

Outer query will list **products whose price matches with the output of inner query.**

Any Records whose price greater than 40 will be listed

**BETWEEN**

SELECT \* FROM products

WHERE price BETWEEN 40 AND 60;

Records whose price between 40 and 60 will be listed

**Exists**

If subquery find one/multiple result , it returns true.

Example :

SELECT \* FROM products WHERE EXISTS (SELECT price FROM products WHERE price > 50);

//if atleast one product price is greater than 50 , you will get all records from above query

**IN**

**TRUE if the operand is equal to one of a list of expressions**

Example

SELECT \* FROM products WHERE productName IN ("sugar","butter");

//records with sugar and butter productName will be listed.

**LIKE**

TRUE **if the operand matches a pattern**

Example

SELECT \* FROM products where productName like 's%'

//records whose productName starts with letter **s** will be listed

**NOT**

**Displays a record if the condition(s) is NOT TRUE**

Example : select \* from products where productName not like "s%"

Products whose name starts other than letter S will be listed

**OR**

**TRUE if any of the conditions separated by OR is TRUE**

Example : select \* from products where productName="cookies" OR price=80

Products whose name cookies and the products whose price is equal to 80 are listed

**SOME**

**TRUE if any of the subquery values meet the condition**

Example : select \* from products where price > some (select price from products where price > 40)

Products whose price is greater than 40 are listed