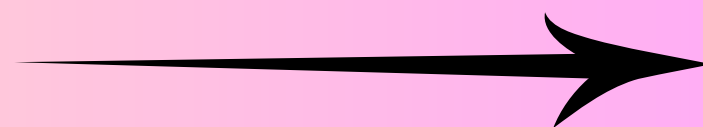


Understanding The Operators

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1. Arithmetic Operators

- Addition (+): Adds two numbers.
- Subtraction (-): Subtracts one number from another.
- Multiplication (*): Multiplies two numbers.
- Division (/): Divides one number by another.
- Modulus (%): Finds the remainder of division.



2. Comparison Operators

- Equality (=): Checks if two values are equal.

```
SELECT * FROM table WHERE column = value;
```

- Not Equal (!= or <>): Checks if two values are not equal.

```
SELECT * FROM table WHERE column != value;
```



- **Greater Than (>):** Checks if a value is greater than another value.

```
SELECT * FROM table WHERE column > value;
```

- **Less Than (<):** Checks if a value is less than another value.

```
SELECT * FROM table WHERE column < value;
```



- **Greater Than or Equal To (\geq):** Checks if a value is greater than or equal to another value.

```
SELECT * FROM table WHERE column  $\geq$  value;
```

- **Less Than or Equal To (\leq):** Checks if a value is less than or equal to another value.

```
SELECT * FROM table WHERE column  $\leq$  value;
```



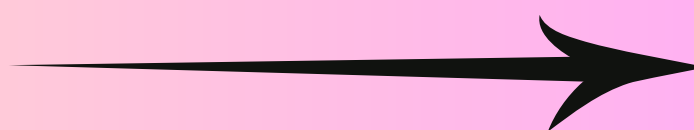
3. Logical Operators

- **AND** : Combines two or more conditions and returns true only if all conditions are true.

```
SELECT * FROM table WHERE condition1 AND condition2;
```

- **OR** : Combines two or more conditions and returns true if at least one condition is true.

```
SELECT * FROM table WHERE condition1 OR condition2;
```



- **NOT:** Negates a condition and returns true if the condition is false.

```
SELECT * FROM table WHERE NOT condition;
```





4. String Operators

- **Concatenation (||):** Concatenates two or more strings.

```
SELECT column1 || ' ' || column2 AS concatenated_column FROM table;
```

- **LIKE :** operator is used in a WHERE clause to search for a specified pattern in a column.

```
SELECT * FROM table WHERE column LIKE 'pattern';
```





- There are two wildcards often used in conjunction with the LIKE operator:
- The percent sign % represents zero, one, or multiple characters.

```
SELECT * FROM Customers  
WHERE CustomerName LIKE 'a%';
```



- The underscore sign _ represents one, single character

```
SELECT * FROM tablename  
WHERE columnname LIKE '_a';
```



- **IN:** Checks if a value exists in a list of values.

```
SELECT * FROM table WHERE column IN (value1, value2, ...);
```



4. Set Operators

- **UNION:** Combines the results of two or more **SELECT** statements.

```
SELECT column1 FROM table1  
UNION  
SELECT column2 FROM table2;
```



- **INTERSECT:** Retrieves rows that appear in both results of two **SELECT** statements.

```
SELECT column1 FROM table1  
INTERSECT  
SELECT column2 FROM table2;
```



- **EXCEPT:** Retrieves rows from the first **SELECT** statement that are not present in the results of the second **SELECT** statement.

```
SELECT column1 FROM table1  
EXCEPT  
SELECT column2 FROM table2;
```



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Thank You

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