



SYNTAX
TECHNOLOGIES

SQL

Class 2

Agenda

Order by clause

Logical Operators in SQL

ORDER BY statement / Clause

Syntax:

```
SELECT Column Name  
FROM Table Name  
Order By Column Name (Asc OR Desc);
```

OR

```
SELECT Column Name  
FROM Table Name  
WHERE Condition(s)  
Order By Column Name (Asc OR Desc);
```

ORDER BY statement / Clause

Used to sort the results by a specific column

Last clause (section) in Select Statement

Two ways to sort:

Ascending and Descending

ASC (Default for column), DESC

How to test for NULL values

IS NULL operator

Syntax:

```
Select column Name  
From Table Name  
Where column name is Null;
```

How to test for NULL values

NOT possible to test NULL values with comparison operator =,<> etc.

We use IS NULL Operator:

IS NULL

Selects only the rows where the specific column value is NULL

Logical Operators

Allow to filter by more than 1 condition
Result (True/False)

AND / OR / NOT/ BETWEEN/ IN Operator

AND

True AND True = True
False AND True = False
True AND FALSE = False
False AND False = False

OR

True OR True = True
True OR False = True
False OR True = True
False OR False = FALSE

Logical Operators

AND Operator

Syntax:

```
SELECT Column Name  
FROM Table Name  
WHERE Condition AND Condition;
```


Logical Operators

OR Operator

Syntax:

```
SELECT Column Name  
FROM Table Name  
WHERE Condition OR Condition;
```

Logical Operators

NOT Operator – reverse condition

Syntax:

```
SELECT Column Name  
FROM Table Name  
WHERE NOT Condition AND NOT Condition;
```

Logical Operators

IN Operator

Picks a range of multiple options from the same column

Allows you to specify multiple values in a Where Clause

It is a shorthand for OR operator

Syntax:

```
Select column Name
      From Table Name
Where column name IN (condition(s));
```

Logical Operators

BETWEEN Operator

Tests whether a value falls with a range of given boundary values
BETWEEN ... AND ...

Syntax:

```
Select column Name  
From Table Name  
Where column name between condition AND  
      condition;
```

Logical Operators

LIKE Operator (WildCard)

Used in Where Clause to search for a specified pattern in the column

Syntax:

```
Select column Name  
From Table Name  
Where column name Like 'condition with % / _' ;
```

LIKE Operator

Used in Where Clause to search for a specified pattern in the column

Compares characters by using LIKE with % or _

Performs a wildcard search

% sign means any character or number zero or more times

_ character looks for a presence of any one single character