Different WHERE operators in SQL

Comparison (=, <>, =!, >, <, <=)

Logical (AND, OR, NOT)

Range (BETWEEN)

Membership (IN, NOT IN)

Search (LIKE)

Comparison Operators –

We want to compare 2 things.

Condition – Expression Operator Expression

Example – a condition where country = USA

SQL will only find this condition among all the data inside the table.

= Operator –

*‘SELECT \* FROM Data1*

*WHERE State = 'Maharashtra'’*

!= Operator –

*‘SELECT \* FROM Data1*

*WHERE State != 'Maharashtra'’*

>Operator –

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio > 800’*

>= Operator –

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio >= 800’*

< Operator –

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio < 800’*

<= Operator –

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio <= 800’*

Logical Operators –

AND Operator –

All conditions must be true.

*‘SELECT \* FROM Data1*

*WHERE State = 'Gujarat' AND Sex\_Ratio > 900’*

OR Operator –

At least one condition must be true.

*‘SELECT \* FROM Data1*

*WHERE State = 'Gujarat' OR Sex\_Ratio > 900’*

NOT Operator –

Excludes matching values.

*‘SELECT \* FROM Data1*

*WHERE NOT State = 'Gujarat'’*

Range Operator –

BETWEEN Operator –

Checks if a value is within range. The boundaries are inclusive in this operator.

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio BETWEEN 800 AND 900’*

*‘SELECT \* FROM Data1*

*WHERE Sex\_Ratio >= 800 AND Sex\_Ratio <= 900’*

Membership Operator –

IN Operator –

Checks if value exists.

*‘SELECT \* FROM Data1*

*WHERE State = 'Bihar' OR State = 'Gujarat'’*

*‘SELECT \* FROM Data1*

*WHERE State IN ('Bihar', 'Gujarat')’*

LIKE Operator –

Search for a pattern.

% - Anything

\_ - Exact 1

*‘SELECT \* FROM Data1*

*WHERE District LIKE 'M%'’*

*‘SELECT \* FROM Data1*

*WHERE District LIKE '%n'’*

*‘SELECT \* FROM Data1*

*WHERE District LIKE '%r%'’*

*‘SELECT \* FROM Data1*

*WHERE District LIKE '\_\_r%'’*