### DAY ☀️: \*\*Task – Logical Operators (AND, OR, NOT) in SQL\*\*

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### ⚡ Task 1: Use AND Operator

\*\*Question:\*\* Show students who are from `Delhi` \*\*and\*\* age is greater than `18`.

\*\*Requirements:\*\*

- Use `AND` in the `WHERE` clause

**Query : SELECT \* FROM students**

**WHERE city = `Delhi` AND age >18**

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### ⚡ Task 2: Use OR Operator

\*\*Question:\*\* Display students who are from `Delhi` \*\*or\*\* `Mumbai`.

\*\*Requirements:\*\*

- Use `OR` to combine city conditions

**Query : SELECT \* FROM students**

**WHERE city = `Delhi` OR city = `Mumbai`**

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### ⚡ Task 3: Use NOT Operator

\*\*Question:\*\* Show students \*\*not\*\* from `Delhi`.

\*\*Requirements:\*\*

- Use `NOT` with city condition

**Query : SELECT \* FROM students**

**WHERE NOT city = `Delhi`;**

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### ⚡ Task 4: Combine AND and OR

\*\*Question:\*\* Show students from `Delhi` and age is 18, or students from `Mumbai`.

\*\*Requirements:\*\*

- Use both `AND` and `OR` together

- Use parentheses `()` for correct logic

**Query : SELECT \* FROM students**

**WHERE (city = `Delhi` AND age =18) OR (city = `Mumbai`)**

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### ⚡ Task 5: Use NOT with AND

\*\*Question:\*\* Display students \*\*not\*\* from `Delhi` \*\*and\*\* who are older than `18`.

\*\*Requirements:\*\*

- Combine `NOT` and `AND`

**Query : SELECT \* FROM students**

**WHERE NOT city = `Delhi` AND age >18**

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### ⚡ Task 6: Filter with NOT and Comparison

\*\*Question:\*\* Show students \*\*not\*\* aged 20.

\*\*Requirements:\*\*

- Use `NOT age = 20` or `age != 20`

**Query : SELECT \* FROM students**

**WHERE NOT age =18**

**OR**

**Query : SELECT \* FROM students**

**WHERE age !=18**

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### ⚡ Task 7: Combine All Three Operators

\*\*Question:\*\* Show students from `Chennai` \*\*or\*\* age is 18 \*\*but not\*\* from `Delhi`.

\*\*Requirements:\*\*

- Use `OR` and `NOT` together

**Query : SELECT \* FROM students**

**WHERE (city = `Chennai` OR age =18) AND ( NOT city = `Mumbai`)**

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### ⚡ Task 8: Use OR with Multiple Conditions

\*\*Question:\*\* Show students whose age is 18 \*\*or\*\* 22.

\*\*Requirements:\*\*

- Use `OR` on `age = 18 OR age = 22`

**Query : SELECT \* FROM students**

**WHERE age =18 OR age =18;**

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### ⚡ Task 9: Use AND on Text & Number

\*\*Question:\*\* Show students where name is `'Priya'` \*\*and\*\* age is 19.

\*\*Requirements:\*\*

- Combine text and numeric conditions

**Query : SELECT \* FROM students**

**WHERE age =18 AND name = 'Priya';**

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### ⚡ Task 10: Complex Filtering

\*\*Question:\*\* Show students who are \*\*not from Delhi\*\*, and are aged between 18 and 22.

\*\*Requirements:\*\*

- Use `NOT`, `AND`, and comparison operators in one query

**Query : SELECT \* FROM students**

**WHERE NOT city = ’Delhi’ AND (age BETWEEN 18 AND 22);**

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