

This is where **most beginners get confused**, but I'll make it **super simple** for you.

## NOT Operator — When to Use Which Keyword

You actually use **NOT** with only 5 types of conditions: This covers **100% of all NOT uses in SQL**.

### ✓ 1. NOT =

where salary <> 50000

-- same as

where NOT (salary = 50000)

Use when you want **anything except one value**.

### ✓ 2. NOT IN

where city NOT IN ('Delhi', 'Mumbai')

Use when you want to **exclude multiple values**.

### ✓ 3. NOT BETWEEN

where age NOT BETWEEN 25 AND 35

Use when you want values **outside a range**.

### ✓ 4. NOT LIKE

where name NOT LIKE '%a%

Use when you want to **exclude patterns**.

### ✓ 5. IS NOT NULL

Where email IS NOT NULL

Use when you want to **remove empty or missing data**.

## ⌚ When to use which?

| Use Case                         | Best NOT Condition                       | Example                                |
|----------------------------------|--|--|
| Excluding <b>one value</b>       | <code>!=</code> or <code>&lt;&gt;</code> | <code>salary != 50000</code>           |
| Excluding <b>multiple values</b> | <code>NOT IN</code>                      | <code>city NOT IN (...)</code>         |
| Excluding <b>a range</b>         | <code>NOT BETWEEN</code>                 | <code>age NOT BETWEEN 20 AND 30</code> |
| Excluding <b>a pattern</b>       | <code>NOT LIKE</code>                    | <code>name NOT LIKE '%e%'</code>       |
| Excluding <b>null values</b>     | <code>IS NOT NULL</code>                 | <code>email IS NOT NULL</code>         |

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## SUPER EASY MEMORY TRICK

- ☞ If it's one value → use !=
- ☞ If it's a list → use NOT IN
- ☞ If it's a range → use NOT BETWEEN
- ☞ If it's a pattern → use NOT LIKE
- ☞ If it's empty check → use IS NOT NULL

**Important:** [ != or <> ] instead of this, if we will use only NOT every time - so anything goes wrong on syntax?

**Answer:** Using NOT is correct SQL — BUT it **cannot replace** != or <> in all situations.

- ✓ Use <> or != for **simple NOT EQUAL**
- ✓ Use **NOT** only when reversing logical conditions.

## What is “Reversing Logical Condition”?

Reversing logical condition = opposite output of an existing condition.

It means:

- ☞ You take a TRUE condition
  - ☞ And convert it into FALSE
- OR
- ☞ You take a FALSE condition
  - ☞ And convert it into TRUE
- You do this using **NOT**.

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## Example 1 — Reversing a simple condition

Condition:

department = 'IT'

This returns TRUE for IT employees.

Now apply **NOT** → reverse it:

NOT (department = 'IT')

This now returns TRUE for all departments **except IT**.

So “reversing” means:

- TRUE becomes FALSE
- FALSE becomes TRUE

## Example 2 — NOT LIKE

Normal condition:

name LIKE 'A%'

Meaning: names starting with A.

Reverse it:

name NOT LIKE 'A%'

Meaning: names NOT starting with A.

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