Day- 4: Below is a revised and focused list of **🔥**

**40 SQL Interview Questions** based **only on core filtering & logic**

1hr: 40 Question Practice.

|---SELECT, WHERE, ORDER BY

NOT, !=, <>, LIKE, BETWEEN, IN, IS NULL, DISTINCT

Logical Operators: AND, OR, NOT

LIMIT, OFFSET, and Aliases (AS)---|

* NOT, !=, <>
* BETWEEN, LIKE, IN
* AND, OR, LIMIT, OFFSET, AS

**✅ 🔍 Section 1: SELECT, WHERE, ORDER BY Basics(Completed)**

1. Write a query to get all products sorted by price (low to high).
2. Get the first 3 products alphabetically by name.
3. List product name and price for products with price over ₹1000.
4. Show all products in the ‘Accessories’ category, sorted by name descending.
5. Display all products created in 2024, ordered by created\_at.

**✅ 🔍 Section 2: NOT, !=, <>**

1. Write a query to get products where category is **not** 'Laptop'.
2. Show products with price **not equal** to ₹500.
3. Find products **not** in categories 'Laptop' and 'Accessories'.
4. Get all products where name **does not** contain the word "Pro". (10 Q&A)(Day-4 Part 2)
5. Display products that are **not** created in 2024.

**✅ 🔍 Section 3: BETWEEN**

1. Show products priced **between ₹500 and ₹1500**.
2. Get all products **not** priced between ₹1000 and ₹5000.
3. Show products with prices from ₹200 to ₹800, sorted descending.
4. Is BETWEEN inclusive? Try with a product priced exactly at ₹1000. (10 Q&A)
5. Use NOT with BETWEEN to exclude mid-range prices.

**✅ 🔍 Section 4: LIKE**

1. Show all products with names that **start** with 'Lap'.
2. Find products whose names **end** with 'Mouse'.
3. List product names that contain the word “Pro”.
4. Show products where name is **not like** '%Basic%'.
5. Find names where the second letter is 'a'. (Hint: use \_)

**✅ 🔍 Section 5: IN and NOT IN**

1. Show all products in categories **Laptop**, **Accessories**, and **Mobile**.
2. Show all products **not** in these categories.
3. Find products with price IN (500, 1000, 1500).
4. Show products where name IN ('Pro Mouse', 'Laptop Pro').
5. Find all products **not** in a list of given IDs.(Imp 10 Q&A)

**✅ 🔍 Section 6: IS NULL / IS NOT NULL**

1. Get orders where delivery\_date **is NULL**.
2. Show all records where created\_at **is NOT NULL**.
3. What’s the result of = NULL vs IS NULL?
4. Try selecting records where category IS NULL.
5. Find products with missing price values.

**✅ 🔍 Section 7: DISTINCT**

1. Show all **distinct** categories from the products table.
2. Show distinct combinations of category and price.
3. What happens when you use SELECT DISTINCT with multiple columns?
4. Get all unique product names containing 'Pro'.
5. Use DISTINCT to remove duplicate price values.

**✅ 🔍 Section 8: AND, OR, LIMIT, OFFSET, AS**

1. Show products where category = 'Laptop' **AND** price > 40000.
2. Show products where category = 'Laptop' **OR** price < 600.
3. Get the **6th to 10th products** sorted by price.
4. Get the **3 most expensive products**.
5. Show product name as product\_title and price as product\_cost.