Here are **50 SQL Weekly Assignment Questions** using **only ONE table**:

📌 Table Used (Single Table Assignment)

employees(emp_id, full_name, age, city, department, salary, joining_date)

No other table will be used.

🔥 50 SQL Questions (From Basic → Intermediate → Data Domain)

Covers: **SELECT, ORDER BY, DISTINCT, WHERE, AND, OR, NOT, INSERT, UPDATE, NULL, TOP, LIKE, Wildcards, LEN, REPLACE, IN, BETWEEN, Aliases, Aggregates**

⬚ A. SELECT + WHERE (10 Questions)

1. Select all employees who belong to the **Finance** department.
2. Select employees whose **salary is greater than 80,000**.
3. Select employees whose **age is greater than 35**.
4. Select employees who live in **Delhi** or **Mumbai**.
5. Select employees whose **department is NOT 'HR'**.
6. Select employees whose **age is between 25 and 40**.
7. Select employees whose city is **NOT NULL**.
8. Select employees who **joined after '2022-01-01'**.
9. Select employees whose salary is **less than 50,000**.
10. Select employees whose department is **NULL**.

⬚ B. ORDER BY + DISTINCT (5 Questions)

11. Show all employees ordered by **salary DESC**.
12. Show employees sorted by **city ASC**, then salary DESC.
13. Show **distinct department names**.
14. Display **top 5 highest-paid** employees.

15. List employees ordered by **joining_date oldest first**.

⬚ C. LIKE + Wildcards (10 Questions)

16. Find employees whose **name starts with 'A'**.
17. Find employees whose **name ends with 'n'**.
18. Find employees whose name contains **'sh'** anywhere.
19. Find employees whose name contains **a digit** (LIKE '%[0-9]%').
20. Find employees whose name has **exactly 6 characters** (LIKE '_____').
21. Find employees whose name starts with an **uppercase letter**.
22. Find employees whose name starts with a **lowercase letter**.
23. Find employees whose name contains a **space** (first + last name).
24. Find employees whose name ends with **'.com'** (mistaken email stored).
25. Find employees whose name starts with a **vowel (A/E/I/O/U)**.

⬚ D. LEN + REPLACE (5 Questions)

26. Find employees whose full_name length is **more than 15 characters**.
27. Count number of times **'a'** appears in each name using REPLACE.
28. Find employees whose name contains **more than 1 space**.
29. Replace spaces in full_name with underscores and display output.
30. Display full_name and show its **character length** in another column.

⬚ E. IN Operator (5 Questions)

31. Find employees whose city is in
    ('Delhi', 'Bangalore', 'Hyderabad').
32. Find employees whose department is in
    ('IT', 'Finance').
33. Find employees whose age is in
    (25, 30, 35, 40).
34. Find employees whose salary is one of
    (50000, 65000, 80000).
35. Find employees whose city is NOT in
    ('Mumbai', 'Pune').

⬜ F. BETWEEN (5 Questions)

36. Find employees whose salary is BETWEEN **60,000 and 120,000**.
37. Find employees aged BETWEEN **20 and 30**.
38. Find employees who joined BETWEEN **'2020-01-01' and '2022-12-31'**.
39. Find employees with emp_id BETWEEN **100 and 200**.
40. Find employees whose **name length** is between 5 and 12 characters.

⬜ G. NULL Handling (5 Questions)

41. Select employees whose salary is NULL.
42. Update all NULL cities to 'Unknown'.
43. Update all NULL departments to 'Not Assigned'.
44. Insert an employee where department is NULL.
45. Select employees whose joining_date is NOT NULL.

⬜ H. INSERT, UPDATE (5 Questions)

46. Insert a new employee with sample values.
47. Update salary of employees in IT department → increase by 10%.
48. Update all employees living in Delhi → change city to 'New Delhi'.
49. Update employees whose salary < 40,000 → increase salary to 40,000.
50. Insert a new employee whose name contains a special character.

🎉 Your 50-Question Weekly Assignment Is Ready!