

# SQL Interview Questions on WHERE, GROUP BY, and HAVING

## WHERE Clause - Real-Time Interview Questions

1. Write a query to fetch all employees from the Employee table whose salary is greater than 50,000.
2. Fetch employee names who are in the 'Sales' department and have joined after '2023-01-01'.
3. Retrieve all orders from the Orders table placed between '2024-01-01' and '2024-03-31' for customers from India and USA.
4. Get the list of customers who have not provided their phone numbers.
5. Find all employees whose names start with the letter 'K'.

## GROUP BY Clause - Real-Time Interview Questions

1. From the Sales table, write a query to calculate the total sales amount for each region.
2. Group data by both region and product\_category to find the average sales.
3. Count the number of employees in each department.
4. Write a query to show the total number of orders received each month in 2024.
5. Join Orders and Customers, then show how many orders each customer placed.

## HAVING Clause - Real-Time Interview Questions

1. From the Sales table, find all regions where total sales exceed -1,00,000.
2. Write a query to display products with more than 50 units sold in total.
3. What is the difference between WHERE and HAVING clause? When would you use one over the other?
4. From the Employee table, show departments where the average salary is less than 40,000.
5. Can you use HAVING without GROUP BY? Give an example.

## Scenario-Based / Tricky Questions

1. You have a Transaction table. Write a query to display customer IDs that have more than 3

transactions in a month.

2. Find the departments that have more than 2 employees and whose maximum salary is greater than -70,000.

3. What happens if you use WHERE with an aggregate function like SUM()? How can you correct it?

4. Write a query to get the top 3 products based on total sales amount, grouped by product category.

5. Explain the output of this query:

```
SELECT department_id, COUNT(*) as emp_count
```

```
FROM Employee
```

```
GROUP BY department_id
```

```
HAVING COUNT(*) > 5;
```