Lab-1 Data Query Language with MS SQL Server

Employee Table Structure	
employee id	int
first_name	varchar(50)
last_name	varchar(50)
salary	money
department	varchar(50)
emp_dob	Date
emp_gender	varchar(10)

1. Retrieve All Columns from a Table

How can you retrieve all columns from a table named employees?

2. Retrieve Specific Columns

 How can you retrieve only the first_name, last_name, and salary columns from the employees table?

3. Using WHERE Clause to Filter Results

 How can you retrieve all employees with a salary greater than 50,000 from the employees table?

4. Using ORDER BY to Sort Results

 How can you retrieve the names and salaries of employees, sorted by salary in descending order?

5. Using LIMIT to Restrict the Number of Results

- How can you retrieve only the top 5 highest-paid employees from the employees table?
- 6. How to filter aggregated data with the HAVING clause?
- How do you retrieve departments with total salary greater than 100000?

- 7. How to use HAVING with COUNT for filtering groups?
- How do you retrieve departments that have more than 5 employees?
- 8. How to combine having and where clauses?
- How do you find departments where employees have a salary greater than 50000, but the department's total salary is less than 200000?

9. How to use a subquery in the WHERE clause?

 How do you retrieve employees whose salary is higher than the average salary of all employees?

10. How to use a subquery in the FROM clause (inline view)?

• How do you retrieve the department names and the total salary for each department, using a subquery in the FROM clause?

11. How to use a subquery in the SELECT clause?

• How do you retrieve employee details along with the average salary in their department?

12. How to combine results from two queries using UNION?

 How do you retrieve all unique job titles from two different departments, "HR" and "Finance", and combine them into one result set?

13. How to combine results from two queries using UNION ALL?

 How do you retrieve all job titles from both the "HR" and "Finance" departments, including duplicates?

14. How to find records in one result set but not in another using EXCEPT?

• How do you retrieve job titles from the "HR" department that are not present in the "Finance" department?

15. How to use a CASE expression in the SELECT clause?

• How do you categorize employees based on their salary? For example, categorize them as "Low", "Medium", or "High" salary.