MySQL Assignment 2 – Querying Data

Instructions:

★ **Continue** from the previous assignment (database & table creation with constraints).
★ Use the provided **DML insert codes** to populate the tables from here: Employee Data
★ Execute the queries in this assignment after inserting the data.

1. **Distinct Values:**

    ⦿ a query to retrieve distinct salaries from the Employees table.

2. **Alias (AS):**

    ⦿ Provide aliases for the "age" and "salary" columns as "Employee_Age" and "Employee_Salary", respectively.

3. **Where Clause & Operators:**

    ⦿ Retrieve employees with a salary greater than ₹50000 and hired before 2016-01-01.

    ⦿ Find the employee whose designation is missing and fill it with "Data Scientist".

Sorting and Grouping Data:

1. **ORDER BY:**

    ⦿ Find employees sorted by department ID in ascending order and salary in descending order.

2. **LIMIT:**

    ⦿ Display the first 5 employees hired in the year 2018.

3. **Aggregate Functions:**
    - ⦿ Calculate the sum of all salaries in the Finance department.
    - ⦿ Find the minimum age among all employees.
4. **GROUP BY:**
    - ⦿ List the maximum salary for each location.
    - ⦿ Calculate the average salary for each designation containing the word 'Analyst'.
5. **HAVING:**
    - ⦿ Find departments with less than 3 employees.
    - ⦿ Find locations with female employees whose average age is below 30.

Joins:

1. **Inner Join:**
    - ⦿ List employee names, their designations, and department names where employees are assigned to a department.
2. **Left Join:**
    - ⦿ List all departments along with the total number of employees in each department, including departments with no employees.
3. **Right Join:**
    - ⦿ Display all locations along with the names of employees assigned to each location. If no employees are assigned to a location, display NULL for employee name.