Summary of Project Understanding

1. **Create Database and Import Data**: Create an employee database and import three CSV files: data\_science\_team.csv, proj\_table.csv, and emp\_record\_table.csv.

2. **Create ER Diagram**: Design an ER diagram based on the relationships between employee and project tables.

3. **Fetch Employee and Department Details**: Write a query to fetch employee details (ID, name, gender) along with their department from the emp\_record\_table.

4. **Filter Employees by Rating**: Query employees based on their performance ratings (less than 2, greater than 4, and between 2 and 4).

5. **Concatenate First and Last Name**: Concatenate the first and last names of employees in the Finance department and display the result as a new column called NAME.

6. **List Employees with Reporters**: Identify employees who have reporters and show the number of reporters for each manager (including the President).

7. **List Employees from Healthcare and Finance Departments**: Use UNION to list all employees from the Healthcare and Finance departments.

8. **Group by Department and Max Rating**: Group employees by department and include their rating alongside the maximum rating in each department.

9. **Find Min and Max Salary by Role**: Calculate the minimum and maximum salaries for employees in each role.

10. **Rank Employees by Experience**: Rank employees based on their experience using SQL ranking functions.

11. **Create View for High-Salary Employees**: Create a SQL view to display employees with a salary greater than 6000.

12. **Find Employees with Experience > 10 Years**: Write a nested query to find employees who have more than 10 years of experience.

13. **Stored Procedure for Employees with Experience > 3 Years**: Create a stored procedure to retrieve details of employees with more than 3 years of experience.

14. **Stored Function for Job Profile Matching**: Write a stored function to assign job profiles based on employee experience (e.g., Junior Data Scientist, Manager).

15. **Create Index for Performance**: Create an index on the FIRST\_NAME column to improve the performance of search queries.

16. **Bonus Calculation**: Calculate a bonus for each employee based on 5% of their salary multiplied by their rating.

17. **Average Salary by Continent and Country**: Calculate the average salary distribution for each continent and country.