

## 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.