**Employee Data Analysis**

**Problem statement:**

You are a part of the HR department in a company, and you have been asked to extract, update, and delete the employees’ details to maintain the records for further analysis.

**Objective:**

The objective is to design a database to analyze the performance of the employees on a quarterly basis.

1. **-- create a database named Practice:**
2. **-- select database:**
3. **-- Write a query to create an employee table with employee ID, first name, last name, job ID, salary, manager ID, and department ID fields:**
4. **-- Write a query to insert values into the employee table:**
5. **-- Write a query to find the first and last names of every employee whose salary is higher than the employee with the last name Kumar:**
6. **-- Write a query to display the employee ID, first name, last name and salary of every employee whose salary is greater than the average:**
7. **-- Write a query to display the employee ID and first name of every employee whose salary is higher than the salary of the JOB\_ID = HP122 and sort the results in the ascending order of the salary:**
8. **-- Write a query to display the first name, employee ID, and salary of the three**
9. **-- add 3 new columns to table i.e. role, department and employee rating:**
10. **-- insert values in new columns:**
11. **-- SELECT EMP\_ID, FIRST\_NAME,ROLE,DEPT,EMP\_RATING and calculate the maximum EMP\_RATING in a department from the employee table using partition clause on department, Max function:**
12. **-- Display the employee’s ID, first name, role, and salary by finding the minimum and maximum salary of the employees using PARTITION BY clause, MIN, and MAX functions on role and salary fields:**
13. **-- Display the employee’s ID, first name, department, and employee rating by calculating the average employee rating and the total number of records in a department using PARTITION BY clause, AVG, and COUNT functions on department and employee rating fields:**
14. **-- Display the employee’s Id, first name, department, and employee rating by calculating the total employee rating in a department using PARTITION BY clause and SUM function on the department and the employee rating fields respectively:**
15. **-- Display the employee’s ID, first name, department, and employee rating by assigning a rank to all the employees based on their employee rating using ORDER BY clause, RANK, and DENSE RANK functions on the employee rating field:**
16. **-- Display the employee’s ID, first name, department, employee rating by assigning a number to each employee in descending order of their employee rating using ORDER BY clause and ROW NUMBER function on the employee rating field:**
17. **-- Display employee’s ID, first name, role, department, and employee rating by calculating the percentile of the employee rating in a department using ORDER BY clause and PERCENT RANK function on an employee rating field:**