**ScienceQtech Employee Performance Mapping...**

Course-end Project 1

1. **Create a database named employee, then import data\_science\_team.csv proj\_table.csv and emp\_record\_table.csv into the employee database from the given resources**.

A screen shot of a computer

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2. **Create an ER diagram for the given employee database.**

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3. **Write a query to fetch EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, and DEPARTMENT from the employee record table, and make a list of employees and details of their department.**



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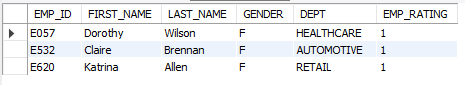
A table of names

Description automatically generated

4. **Write a query to fetch EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPARTMENT, and EMP\_RATING if the EMP\_RATING is:**

* less than two





* greater than four



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* between two and four

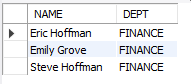


A table of names

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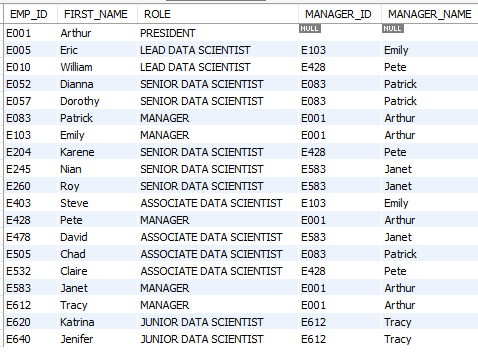
5. **Write a query to concatenate the FIRST\_NAME and the LAST\_NAME of employees in the Finance department from the employee table and then give the resultant column alias as NAME.**





6. **Write a query to list only those FIRST\_NAME who have someone reporting to MANAGER\_ID. Also, show the number of FIRST\_NAME (including the President).**





7. **Write a query to list down all the employees from the healthcare and finance departments using union. Take data from the employee record table.**

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A screenshot of a computer

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8. **Write a query to list down employee details such as EMP\_ID, FIRST\_NAME, LAST\_NAME, ROLE, DEPARTMENT, and EMP\_RATING grouped by dept. Also include the respective employee rating along with the max emp rating for the department.**



A table of data with black text

Description automatically generated with medium confidence

9. **Write a query to calculate the minimum and the maximum salary of the employees in each role. Take data from the employee record table.**



A table of numbers and letters

Description automatically generated with medium confidence

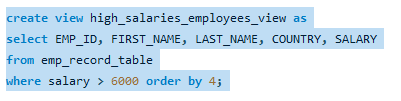
10. **Write a query to assign ranks to each employee based on their experience. Take data from the employee record table.**



A table of names and numbers

Description automatically generated

11. **Write a query to create a view that displays employees in various countries whose salary is more than six thousand. Take data from the employee record table.**



A table with names and numbers

Description automatically generated

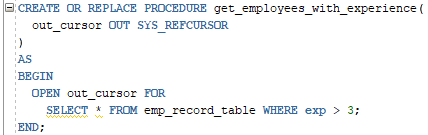
12. **Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.**



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13. **Write a query to create a stored procedure to retrieve the details of the employees whose experience is more than three years. Take data from the employee record table.**



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14. **Write a query using stored functions in the project table to check whether the job profile assigned to each employee in the data science team matches the organization’s set standard.**

**The standard being:**

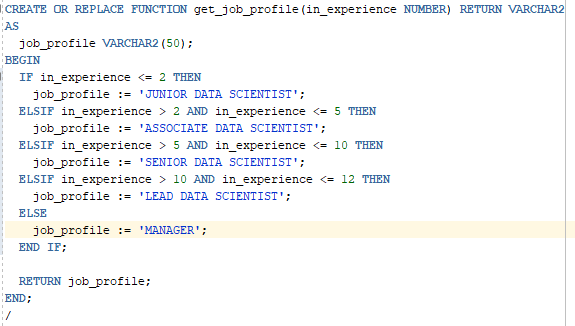
For an employee with experience less than or equal to 2 years assign 'JUNIOR DATA SCIENTIST',

For an employee with the experience of 2 to 5 years assign 'ASSOCIATE DATA SCIENTIST',

For an employee with the experience of 5 to 10 years assign 'SENIOR DATA SCIENTIST',

For an employee with the experience of 10 to 12 years assign 'LEAD DATA SCIENTIST',

For an employee with the experience of 12 to 16 years assign 'MANAGER'.



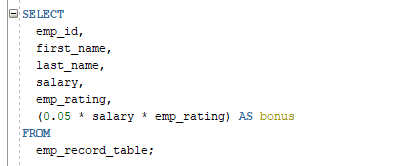
15. **Create an index to improve the cost and performance of the query to find the employee whose FIRST\_NAME is ‘Eric’ in the employee table after checking the execution plan.**

A close up of words

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16. **Write a query to calculate the bonus for all the employees, based on their ratings and salaries (Use the formula: 5% of salary \* employee rating).**



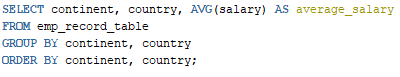
A screenshot of a table

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A table with numbers and numbers

Description automatically generated with medium confidence

17. **Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.**



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* **End**