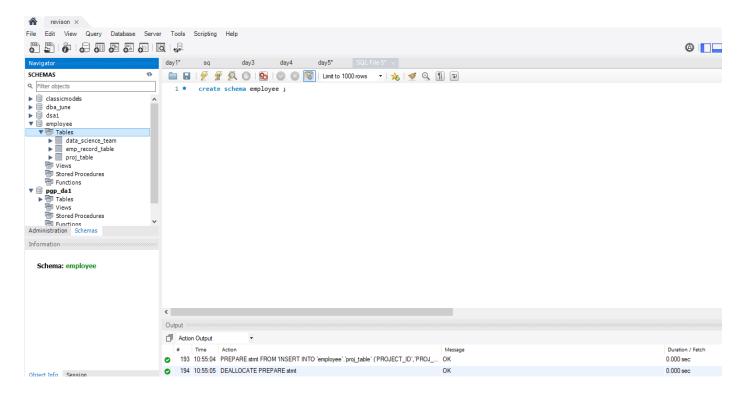
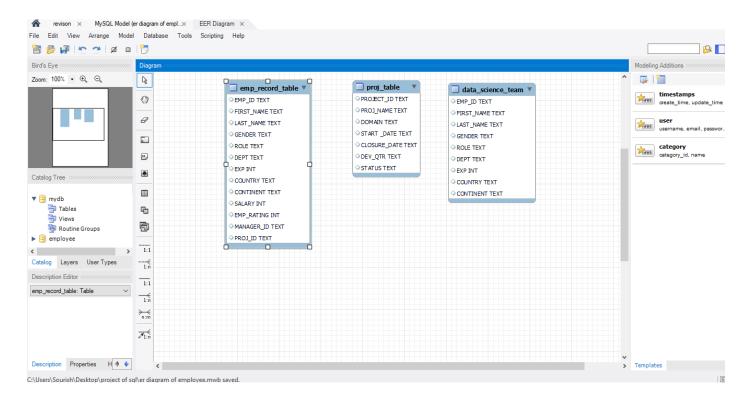
ScienceQtech Employee Performance Mapping

 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.

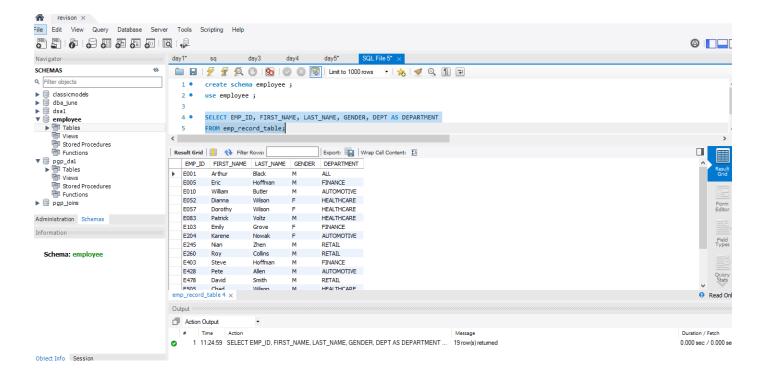


2. Create an ER diagram for the given **employee** database.



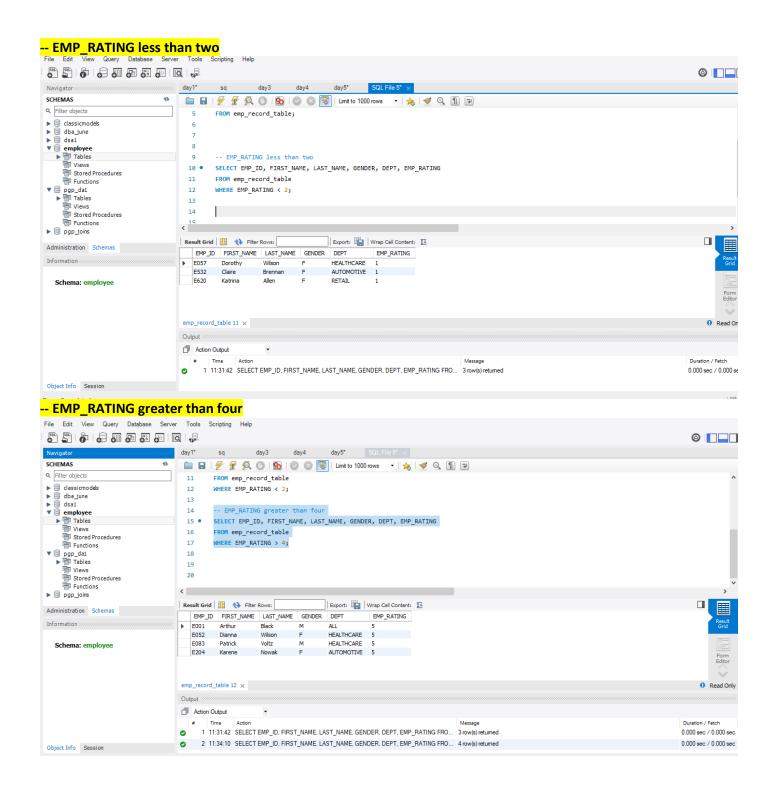
3. Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT from the employee record table, and make a list of employees and details of their department.

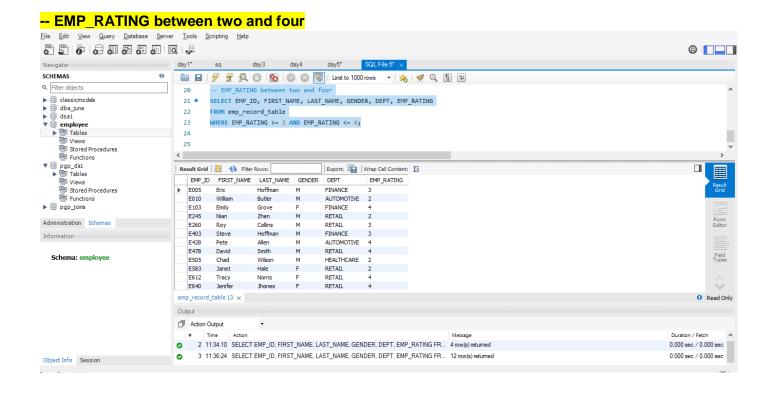
Ans-SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT AS DEPARTMENT FROM emp_record_table;



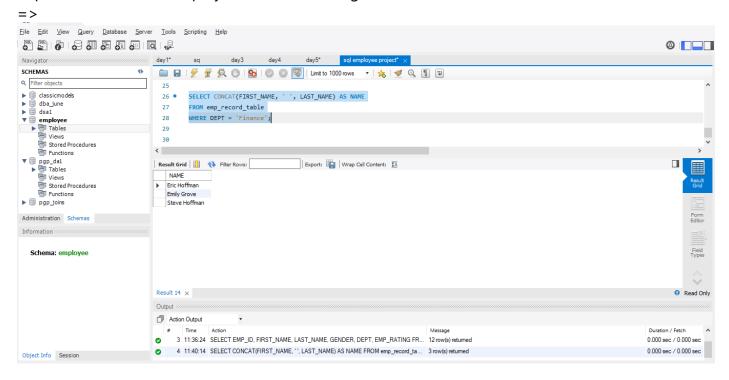
- 4. Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
 - less than two
 - greater than four
 - between two and four

=>

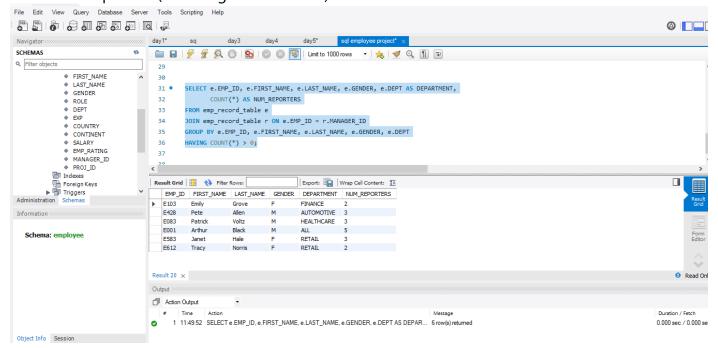




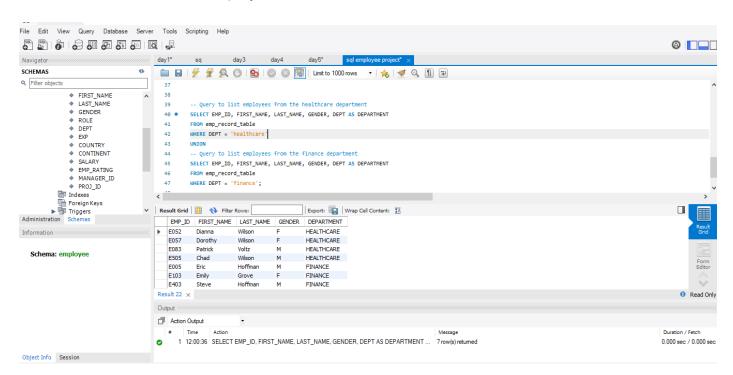
5.Write a query to concatenate the FIRST_NAME and the LAST_NAME of employees in the *Finance* department from the employee table and then give the resultant column alias as NAME.



6. Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).

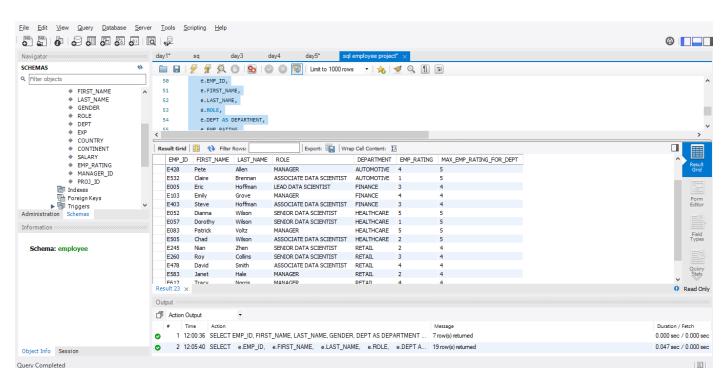


7.Write a query to list down all the employees from the healthcare and finance departments using union. Take data from the employee record table.

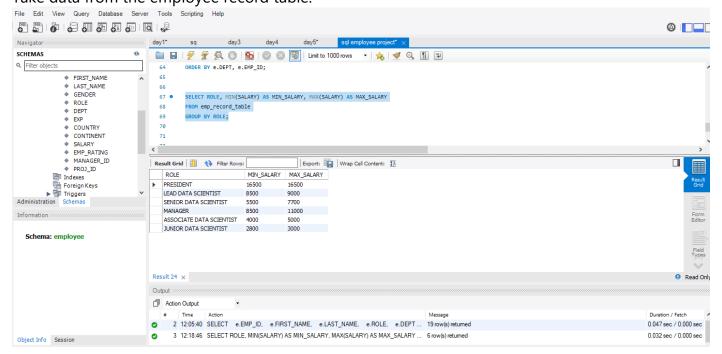


8.Write a query to list down employee details such as EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPARTMENT, and EMP_RATING grouped by dept. Also include the respective employee rating along with the max emp rating for the department.

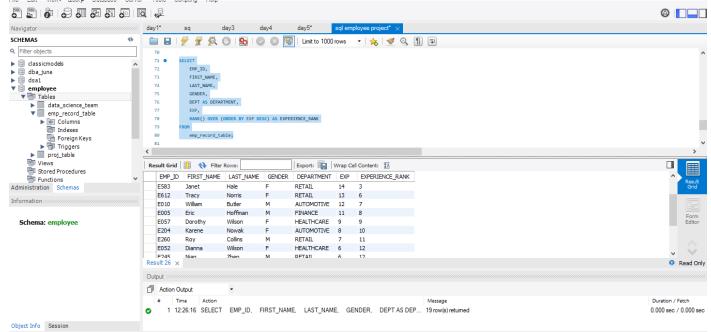
```
=> SELECT
 e.EMP ID,
 e.FIRST_NAME,
 e.LAST_NAME,
 e.ROLE,
 e.DEPT AS DEPARTMENT,
 e.EMP_RATING,
 max_ratings.max_emp_rating AS MAX_EMP_RATING_FOR_DEPT
FROM
 emp_record_table e
JOIN (
 SELECT DEPT, MAX(EMP RATING) AS max emp rating
 FROM emp_record_table
 GROUP BY DEPT
) max_ratings ON e.DEPT = max_ratings.DEPT
ORDER BY e.DEPT, e.EMP_ID;
```



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.



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



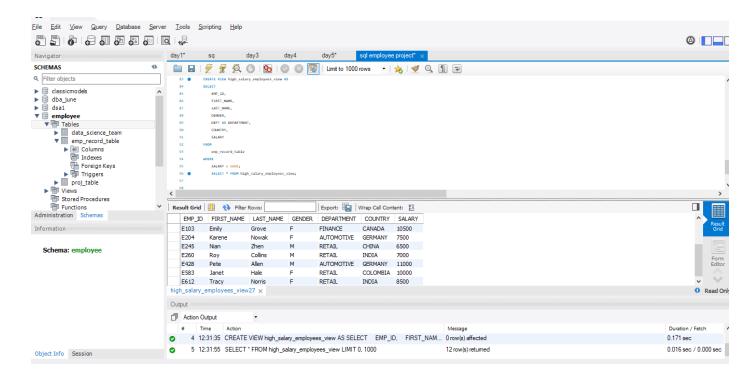
11. Write a query to create a view that displays employees in various countries whose salary is more than six thousand. Take data from the employee record table.

=>code:

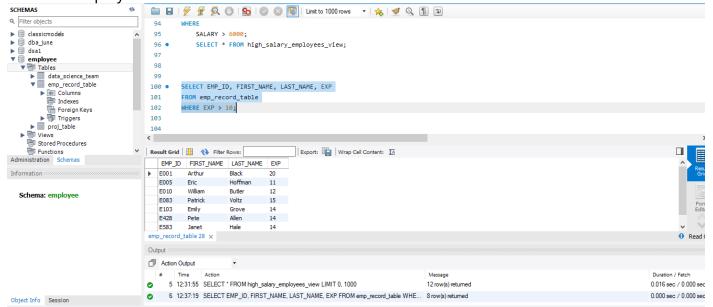
CREATE VIEW high_salary_employees_view AS SELECT

EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT AS DEPARTMENT, COUNTRY, SALARY

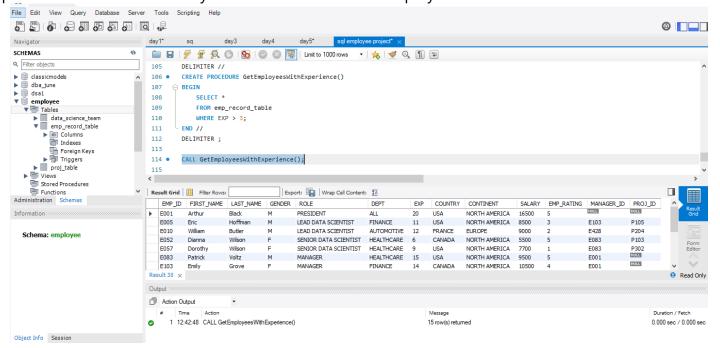
FROM emp_record_table WHERE SALARY > 6000;



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



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.

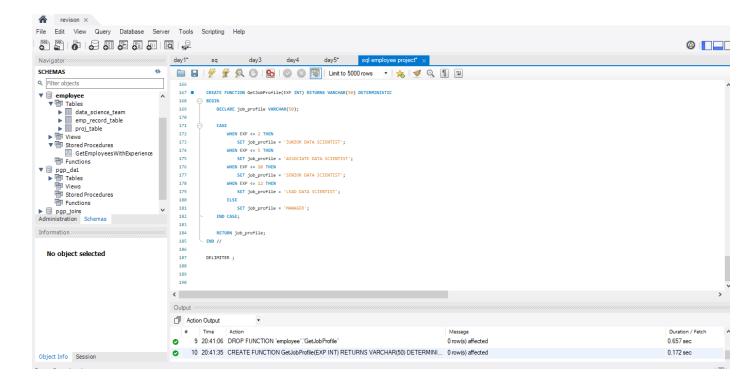


14. Write a query using stored functions in the project table to check whether the job profile assigned to each employee in the data science team matches the organization's set standard.

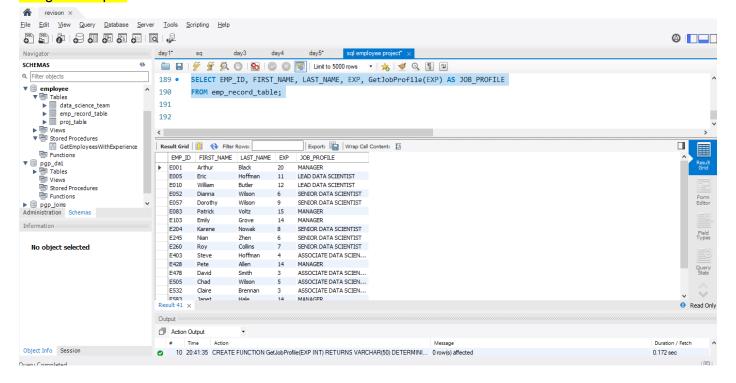
The standard being:

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

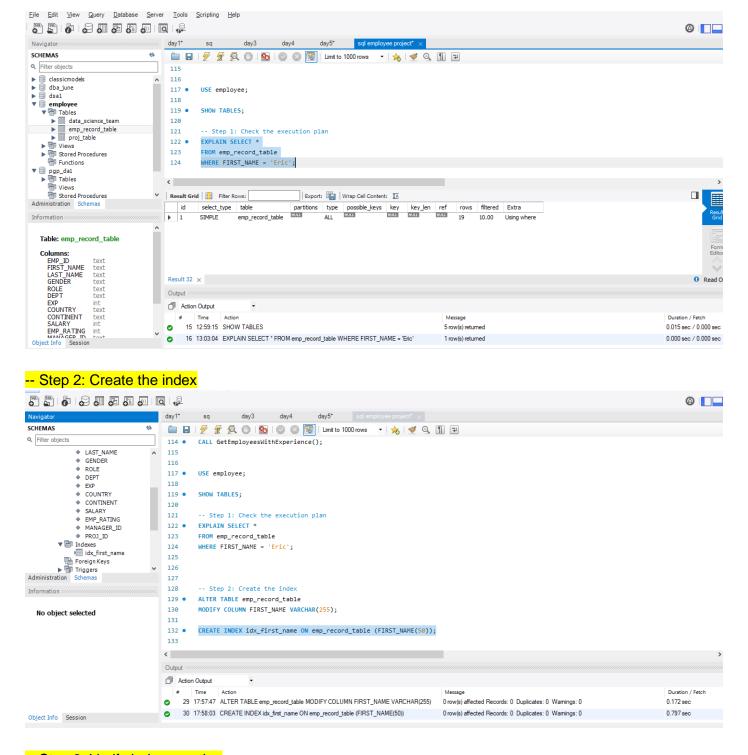
For an employee with the experience of 2 to 5 years assign 'ASSOCIATE DATA SCIENTIST', For an employee with the experience of 5 to 10 years assign 'SENIOR DATA SCIENTIST', For an employee with the experience of 10 to 12 years assign 'LEAD DATA SCIENTIST', For an employee with the experience of 12 to 16 years assign 'MANAGER'.



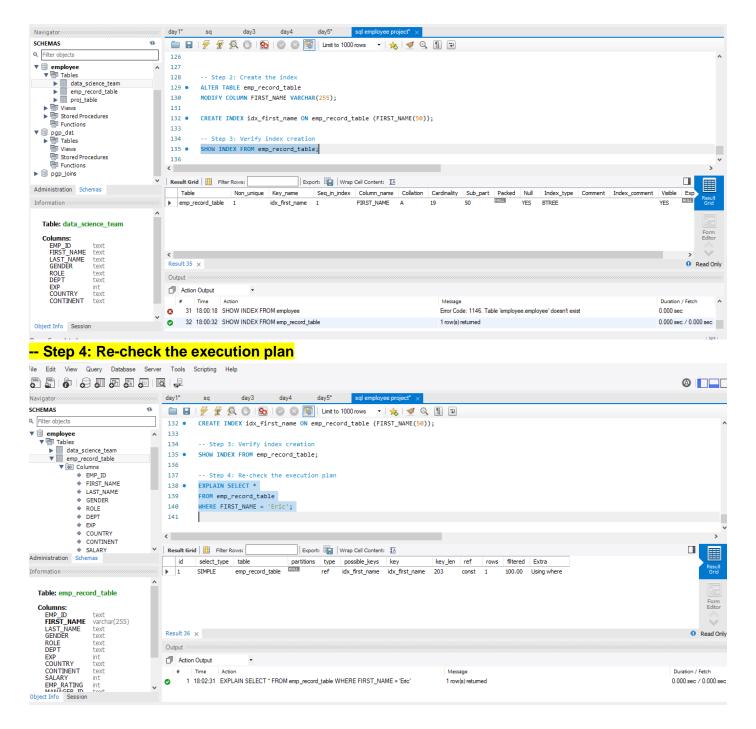
Usage Example:



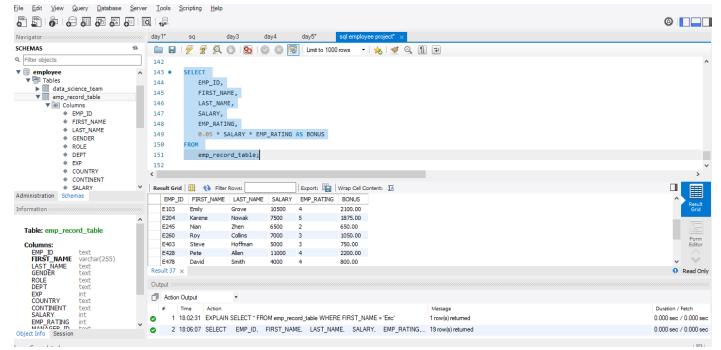
15.Create an index to improve the cost and performance of the query to find the employe whose FIRST_NAME is 'Eric' in the employee table after checking the execution plan. Step 1: Check the execution plan	e



-- Step 3: Verify index creation



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).



17. Write a query to calculate the average salary distribution based on the continent and country.

