**MySQL PROJECT**

**ScienceQtech Employee Performance Mapping**

**Dataset description:**

**emp\_record\_table:** It contains the information of all the employees.

* EMP\_ID – ID of the employee
* FIRST\_NAME – First name of the employee
* LAST\_NAME – Last name of the employee
* GENDER – Gender of the employee
* ROLE – Post of the employee
* DEPT – Field of the employee
* EXP – Years of experience the employee has
* COUNTRY – Country in which the employee is presently living
* CONTINENT – Continent in which the country is
* SALARY – Salary of the employee
* EMP\_RATING – Performance rating of the employee
* MANAGER\_ID – The manager under which the employee is assigned
* PROJ\_ID – The project on which the employee is working or has worked on

**Proj\_table:** It contains information about the projects.

* PROJECT\_ID – ID for the project
* PROJ\_Name – Name of the project
* DOMAIN – Field of the project
* START\_DATE – Day the project began
* CLOSURE\_DATE – Day the project was or will be completed
* DEV\_QTR – Quarter in which the project was scheduled
* STATUS – Status of the project currently

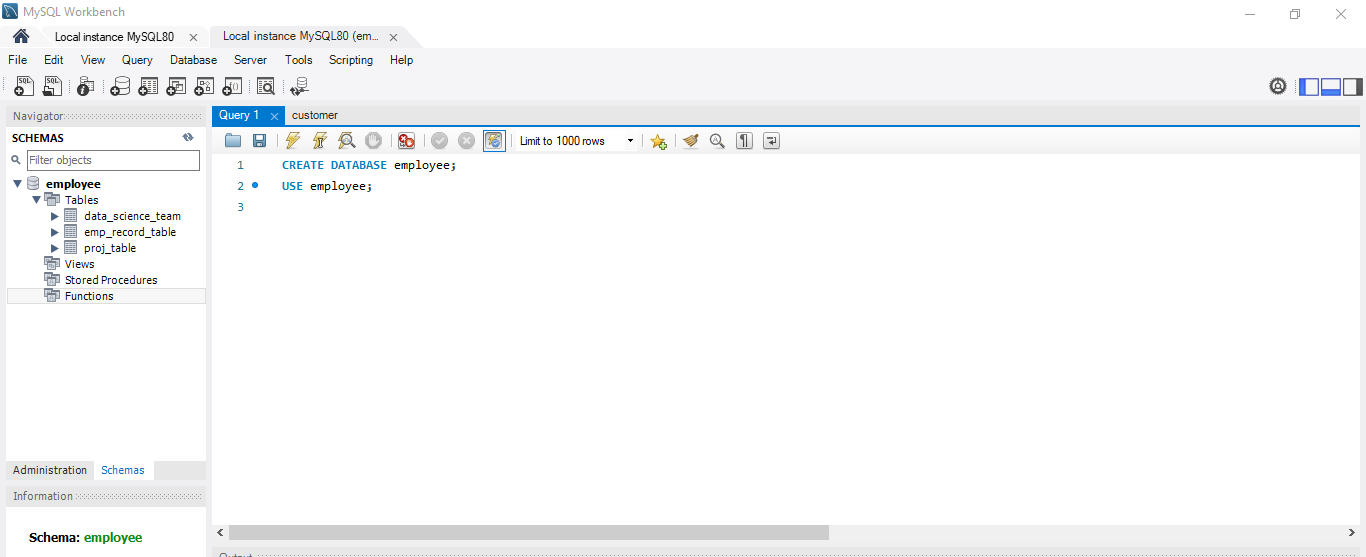
**Data\_science\_team:** It contains information about all the employees in the Data Science team.

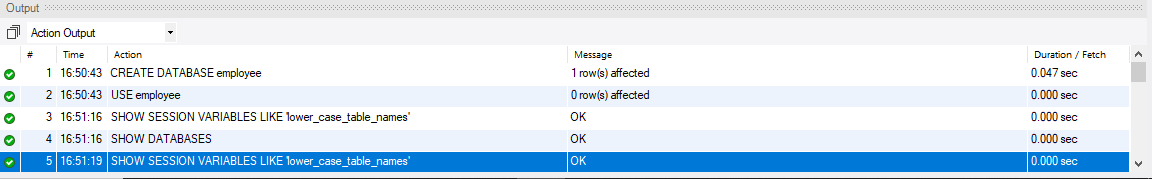
* EMP\_ID – ID of the employee
* FIRST\_NAME – First name of the employee
* LAST\_NAME – Last name of the employee
* GENDER – Gender of the employee
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* CONTINENT – Continent in which the country is

**The task to be performed:**

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.

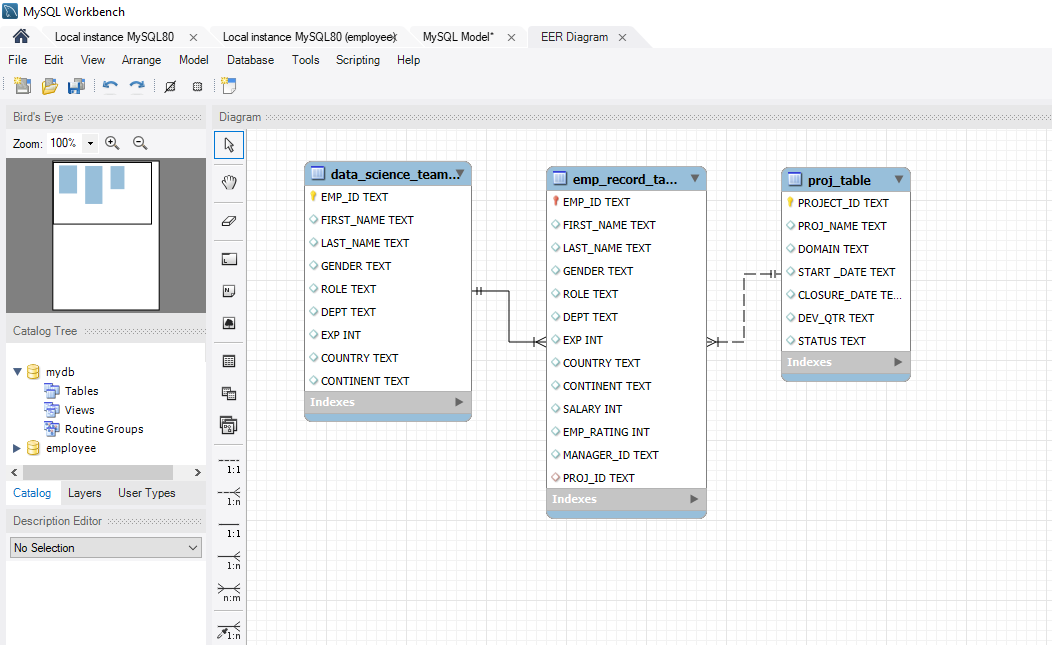
CODE AND OUTPUT :





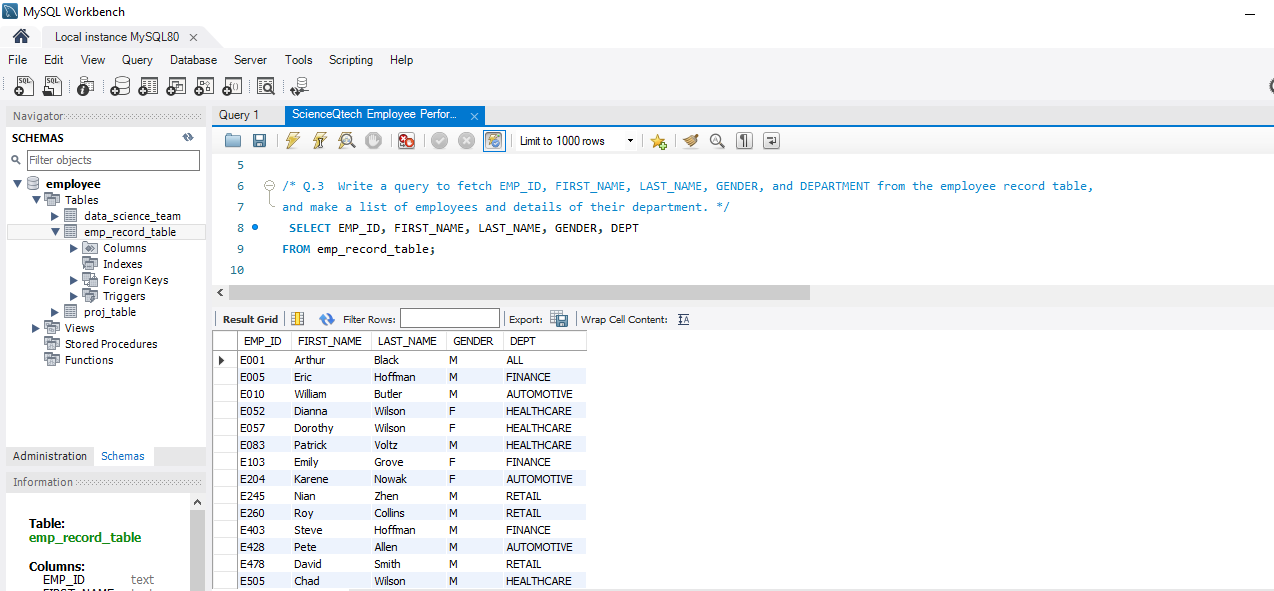
1. Create an ER diagram for the given **employee** database.

OUTPUT :



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

CODE AND OUTPUT :



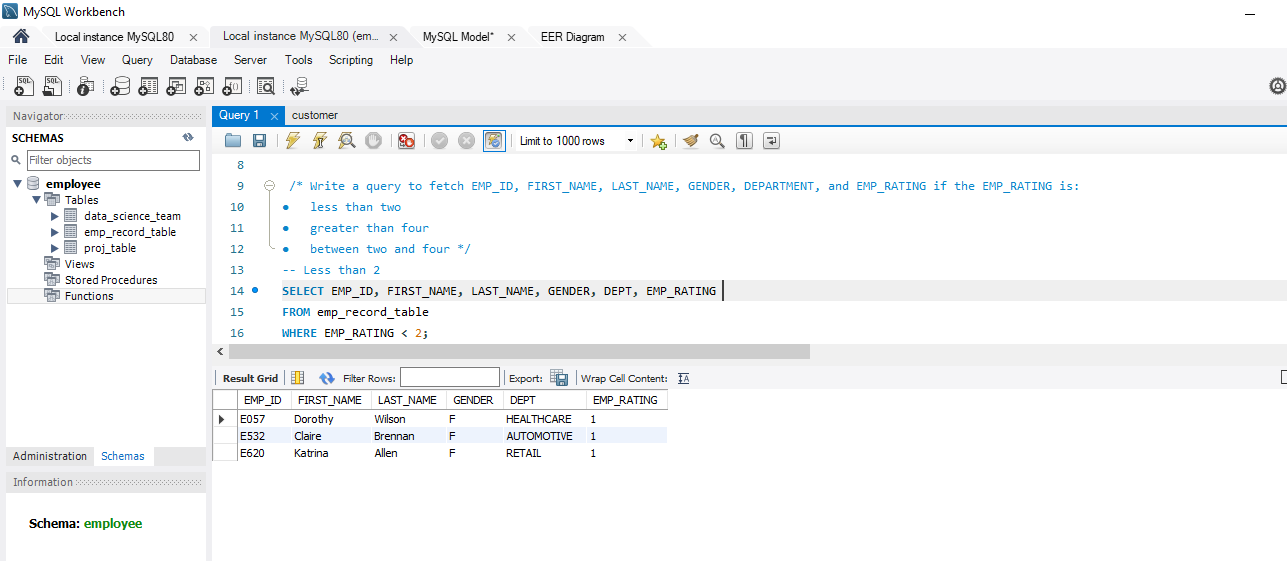


1. Write a query to fetch EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPARTMENT, and EMP\_RATING if the EMP\_RATING is:

* less than two
* greater than four
* between two and four

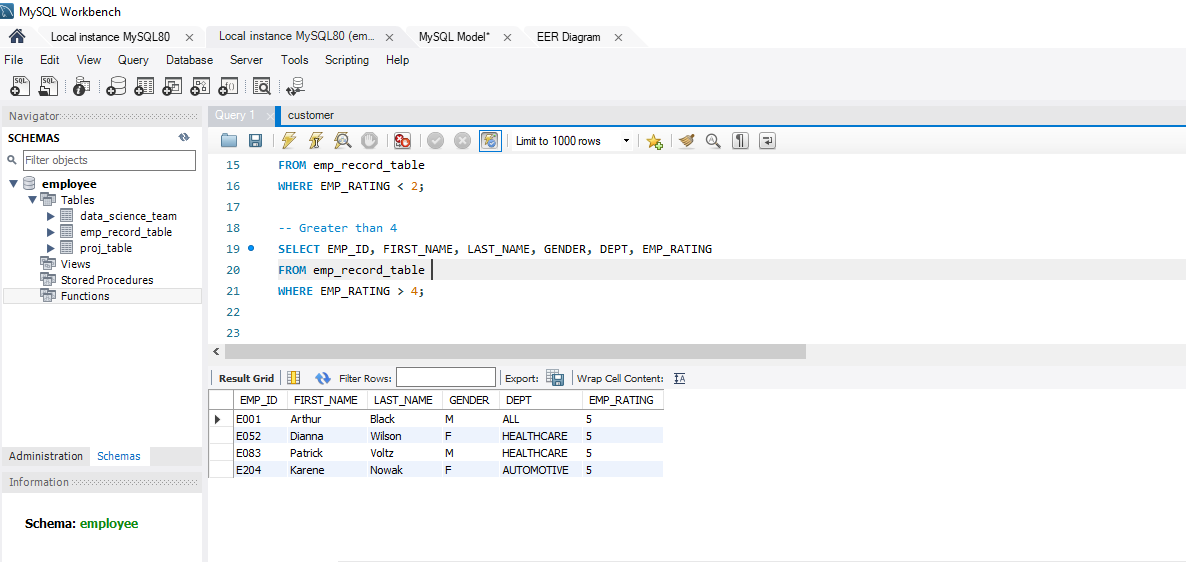
CODE AND OUTPUT :

Less than two



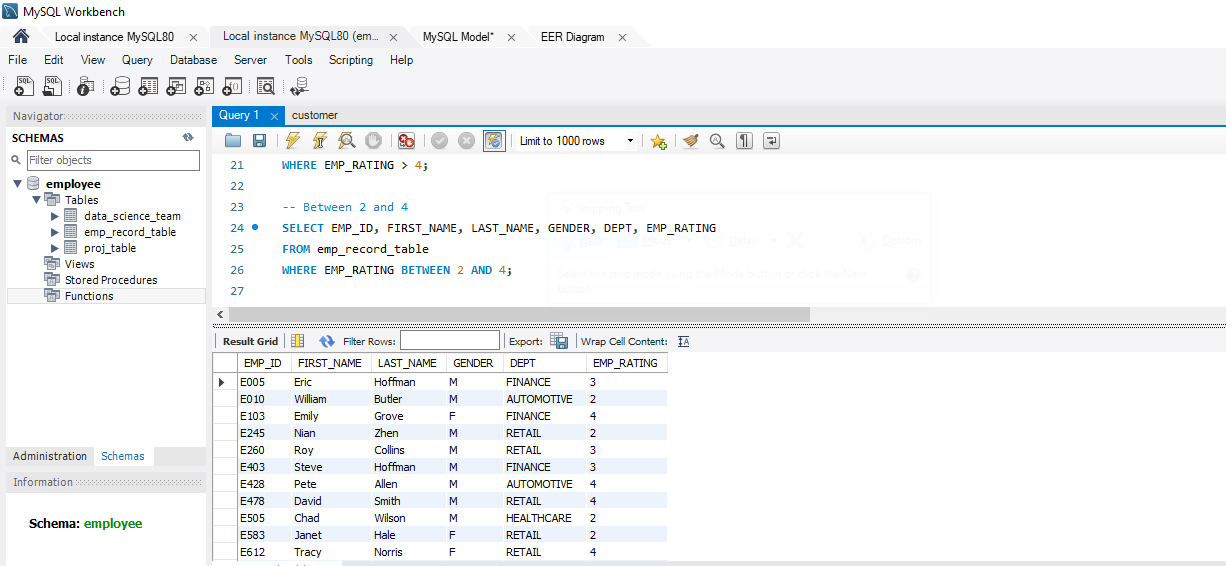


Greater than two





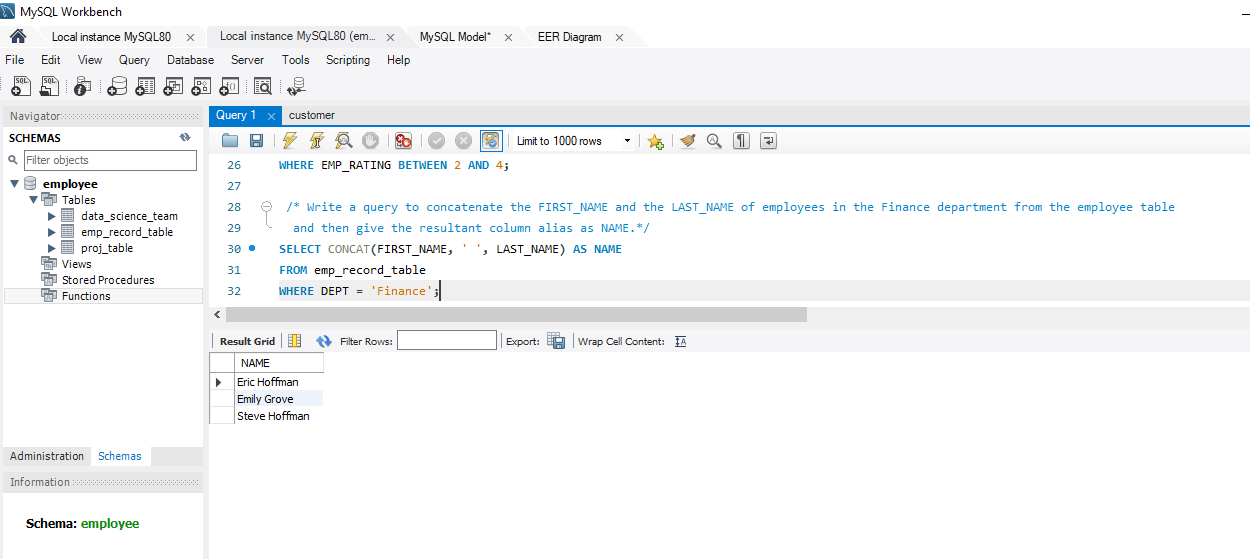
Between two and four





1. 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.

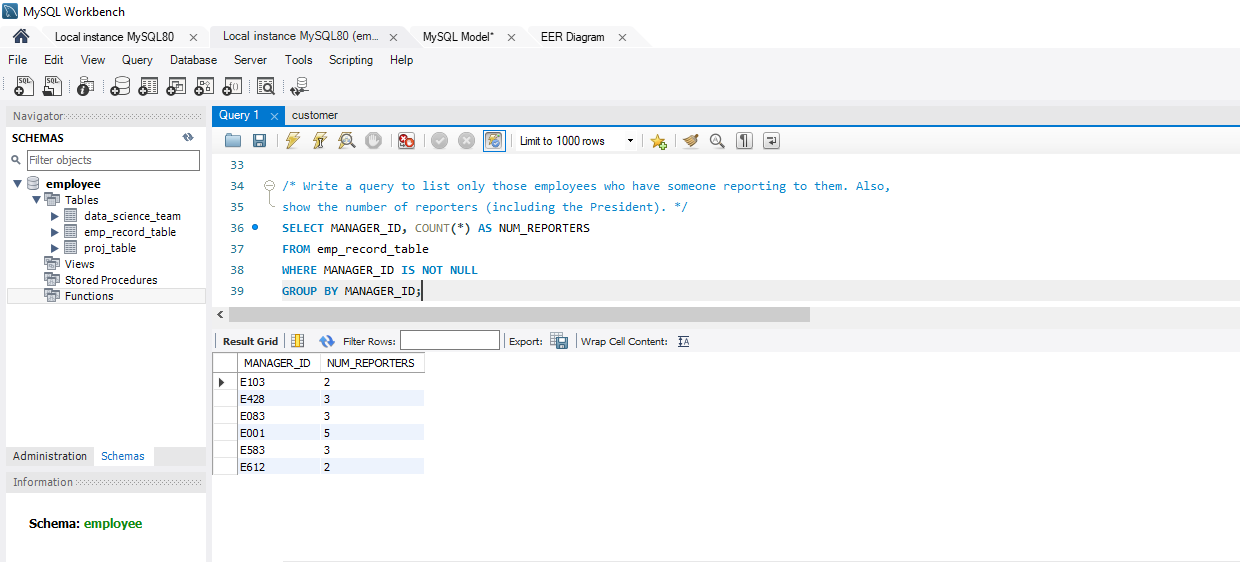
CODE AND OUTPUT:





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

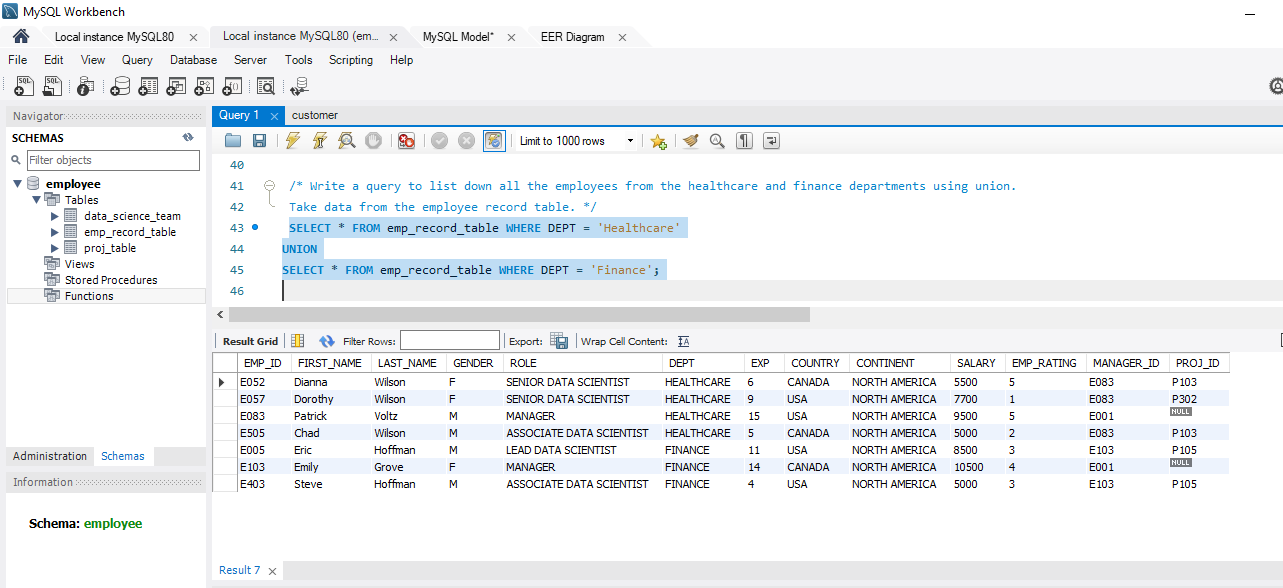
CODE AND OUTPUT :





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

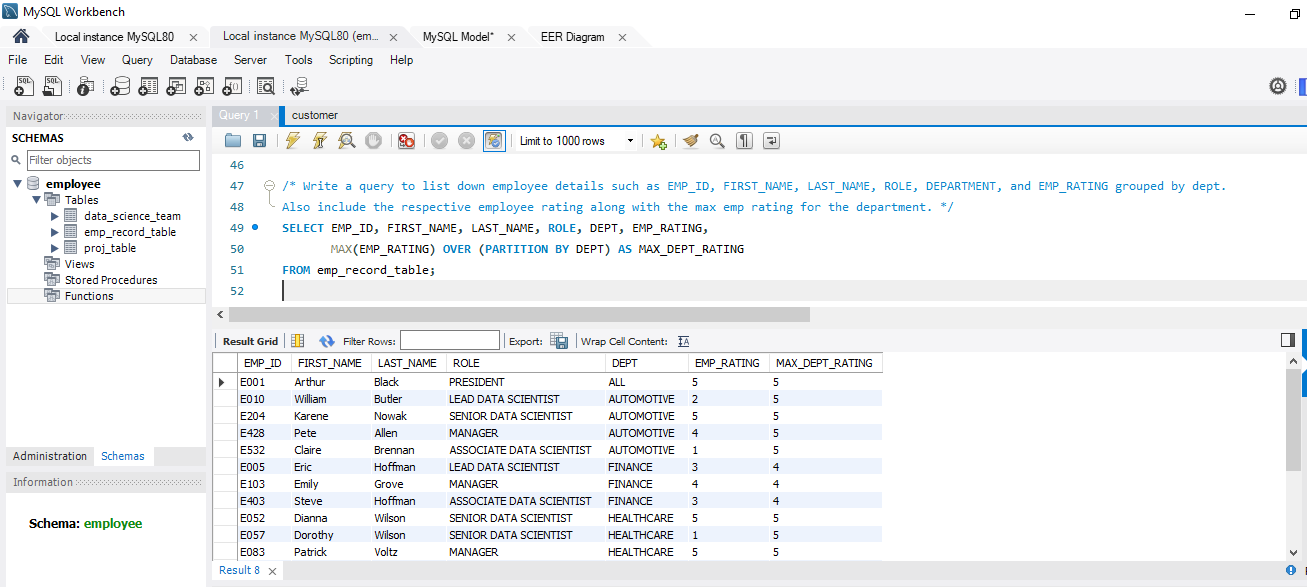
CODE AND OUTPUT :





1. 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.

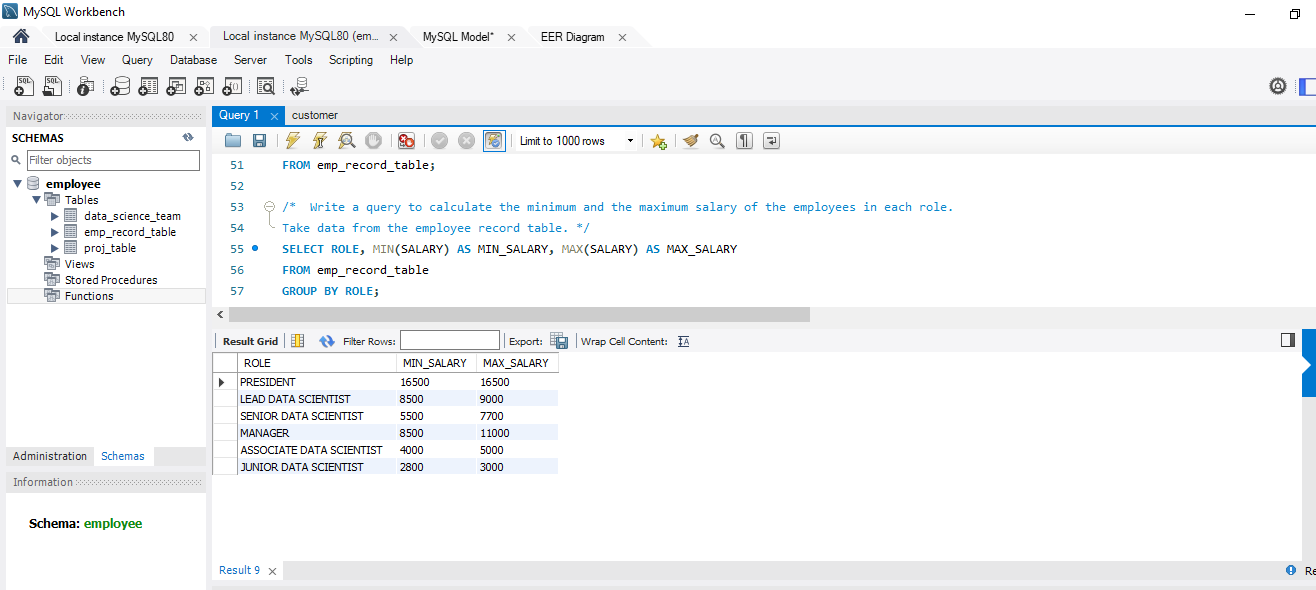
CODE AND OUTPUT:





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

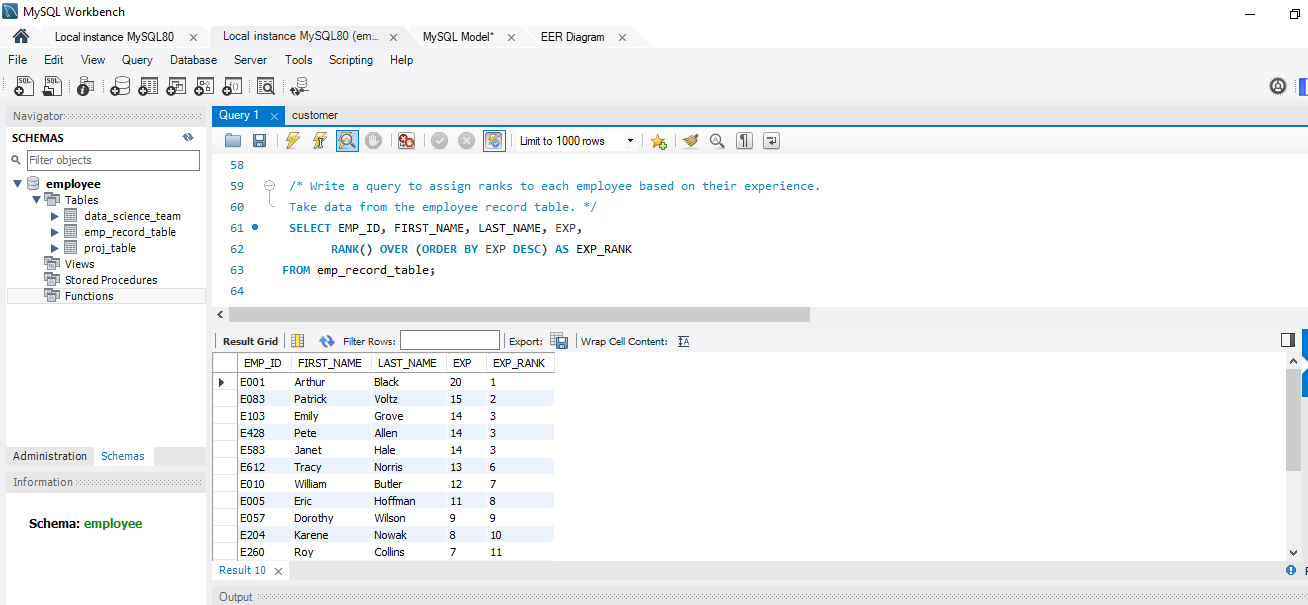
CODE AND OUTPUT :





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

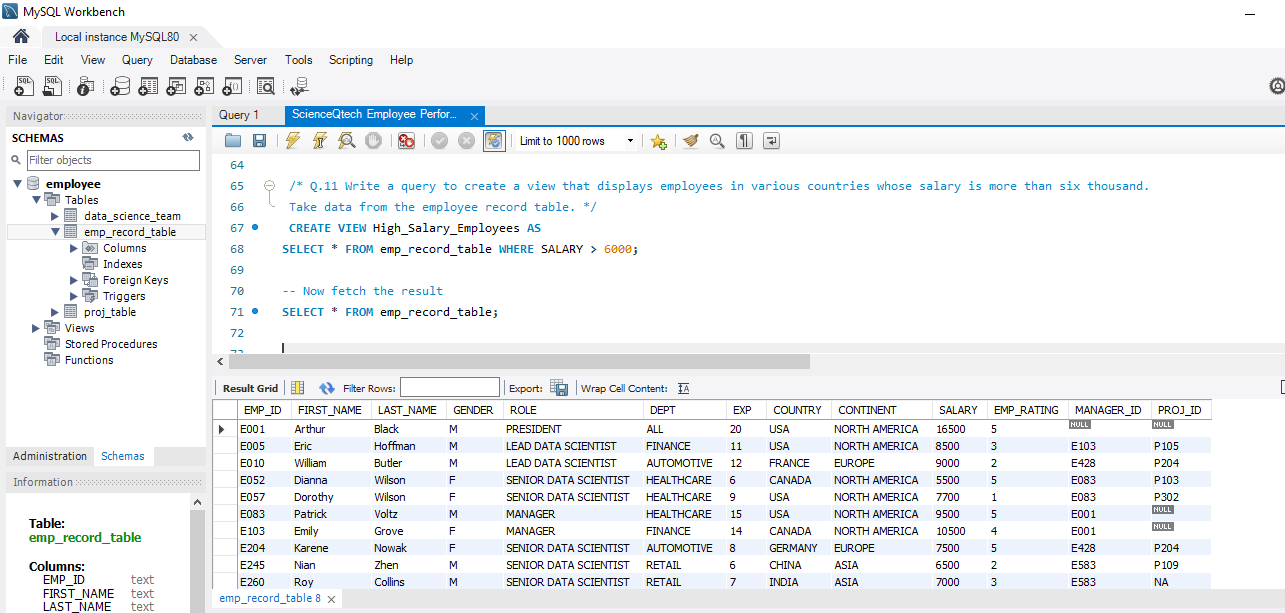
CODE AND OUTPUT :





1. 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.

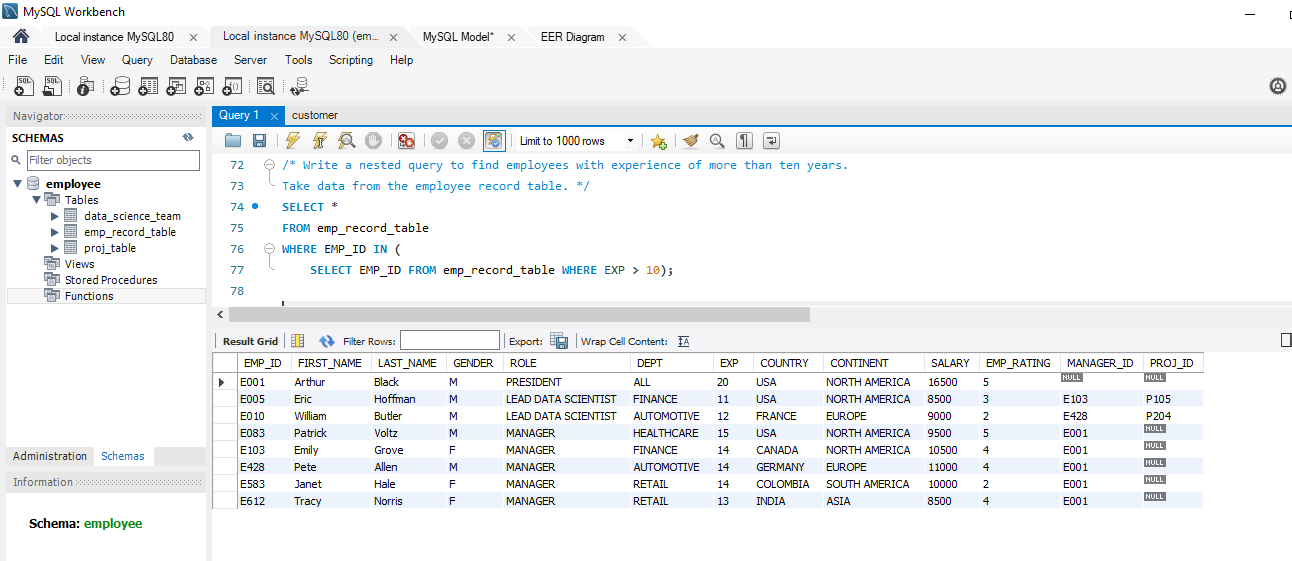
CODE AND OUTPUT:





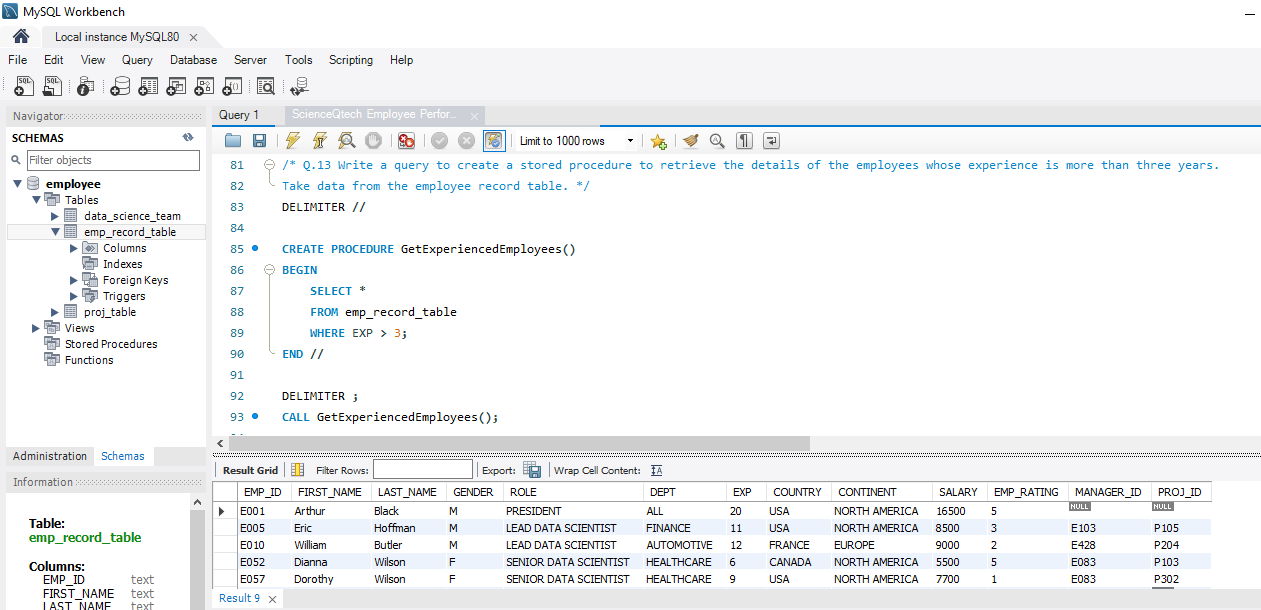
1. Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.

CODE AND OUTPUT:



1. 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.

CODE AND OUTPUT :





1. 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:

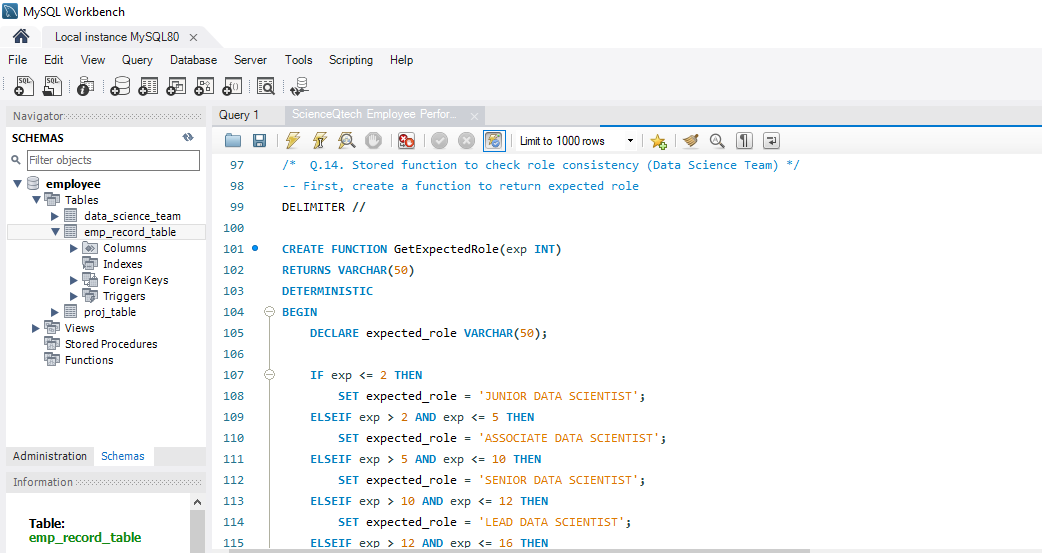
For an employee with experience less than or equal to 2 years assign 'JUNIOR DATA SCIENTIST',

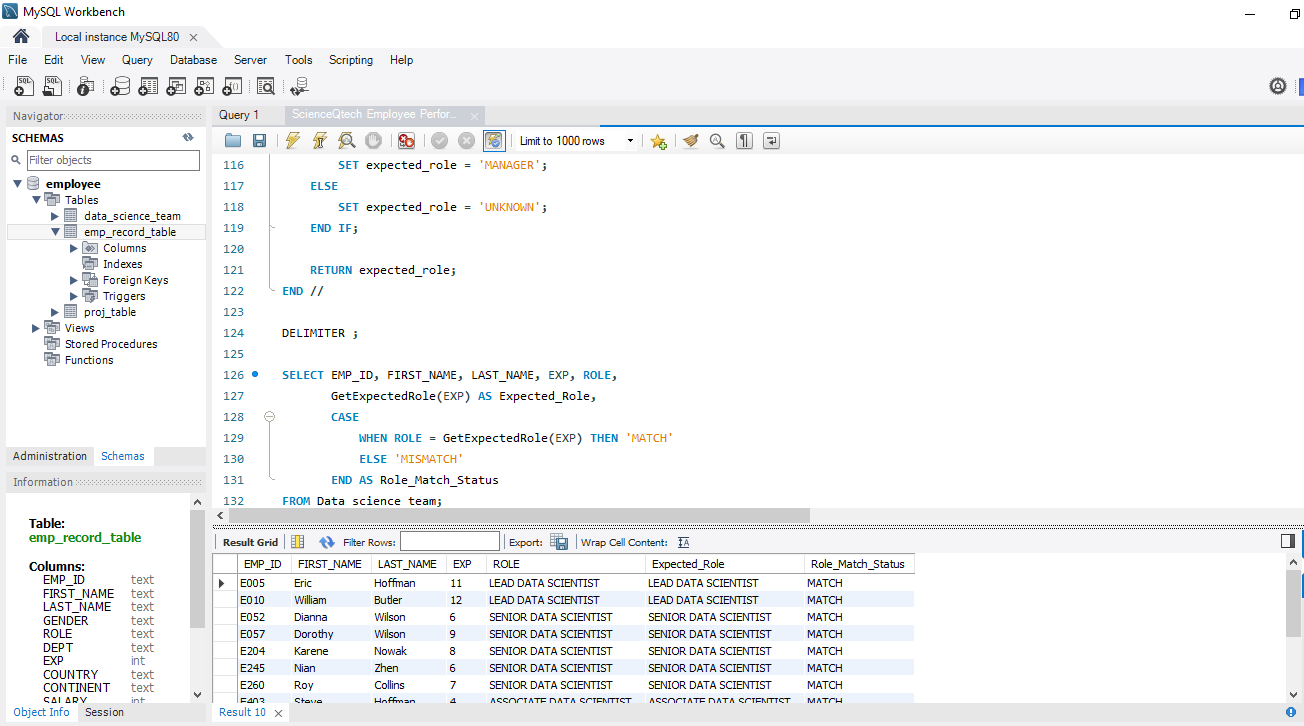
For an employee with the experience of 2 to 5 years assign 'ASSOCIATE DATA SCIENTIST',

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'.

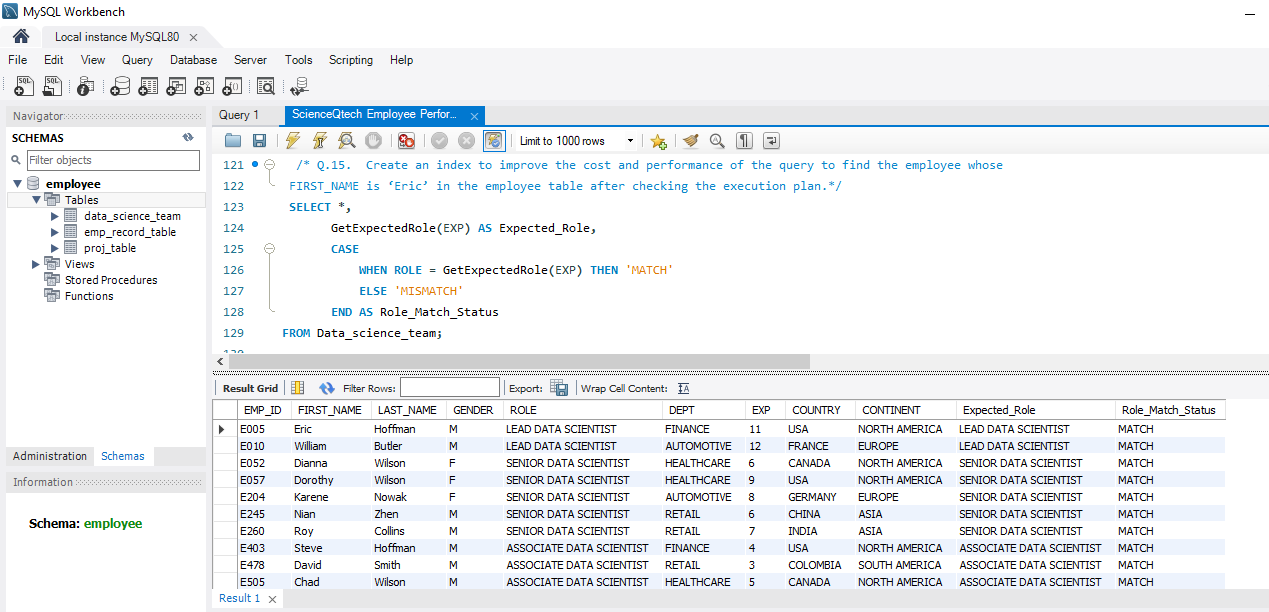






1. Create an index to improve the cost and performance of the query to find the employee whose FIRST\_NAME is ‘Eric’ in the employee table after checking the execution plan.

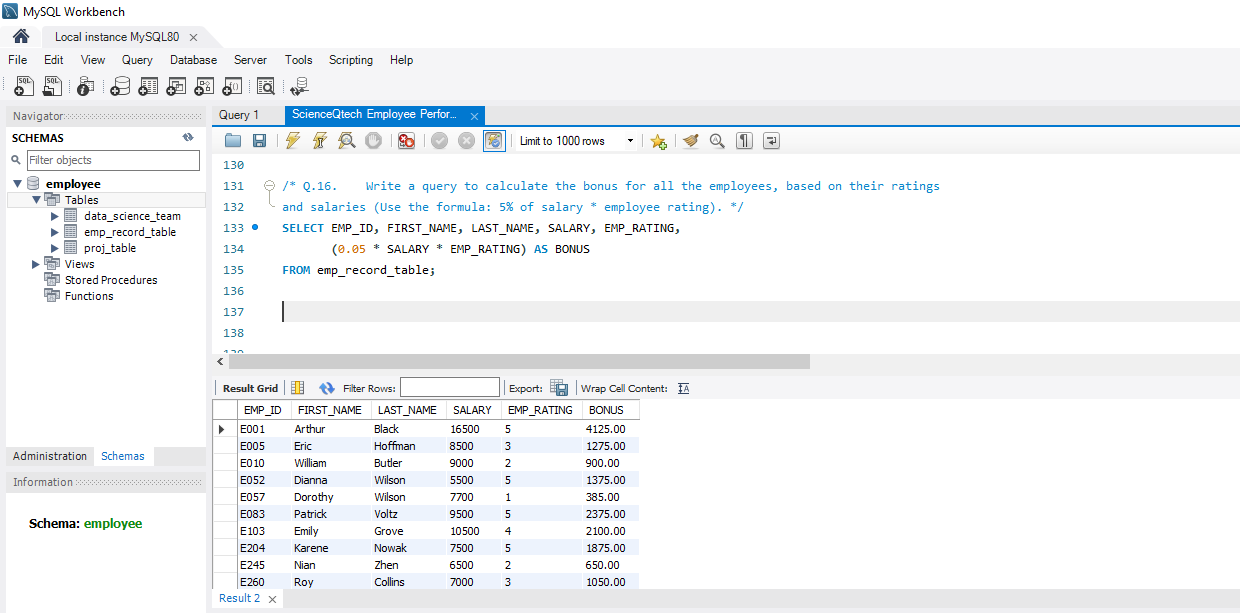
CODE AND OUTPUT:





1. 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).

CODE AND OUTPUT :





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

CODE AND OUTPUT:

