

## ScienceQtech Employee Performance Mapping- SQL Project

**Q1) 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.**

**Ans.** #Create the employee database if it doesn't exist

CREATE DATABASE IF NOT EXISTS employee;

#Switch to the employee database

USE employee;

#Show tables in the employee database

SHOW TABLES;

The screenshot displays the MySQL Workbench interface. The 'Query' tab is active, showing the following SQL script:

```
1 #Q1) 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 the employee database if it doesn't exist
3 CREATE DATABASE IF NOT EXISTS employee;
4
5 -- Switch to the employee database
6 USE employee;
7
8 -- Show tables in the employee database
9 SHOW TABLES;
10
```

The 'Result Grid' shows the output of the queries:

Tables_in_employee
data_science_team
emp_record_table
proj_table

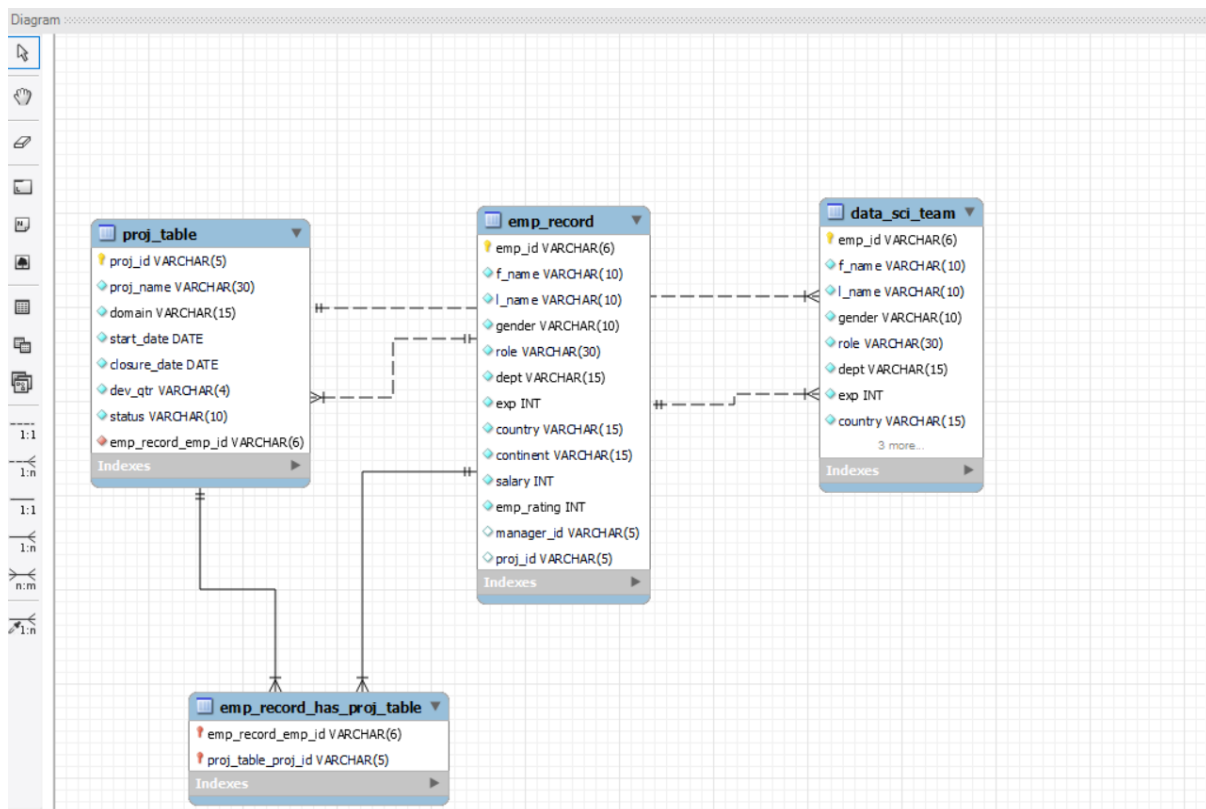
The 'Action Output' tab shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	18:20:29	CREATE DATABASE IF NOT EXISTS employee	1 row(s) affected, 1 warning(s): 1007 Can't create database 'employee'; database exists	0.031 sec
2	18:20:29	USE employee	0 row(s) affected	0.000 sec
3	18:20:29	SHOW TABLES	3 row(s) returned	0.000 sec / 0.000 sec

The status bar at the bottom indicates 'Query Completed'.

**Q2) Create an ER diagram for the given employee database.**

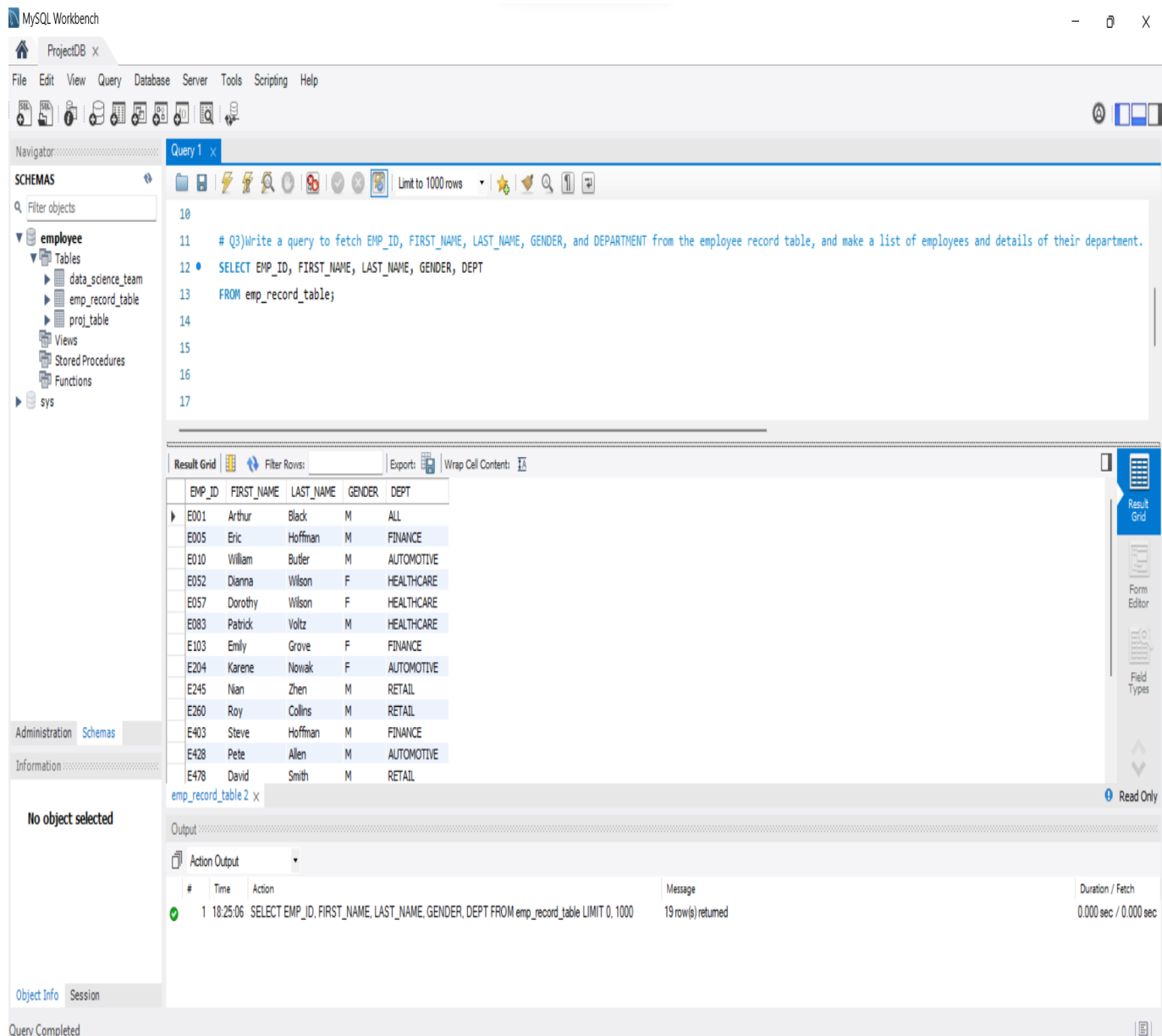
Ans.



**Q3) 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

FROM emp\_record\_table;



**Q4) 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

**Ans. a) less than two:** Employees with EMP\_RATING less than two:

```

SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
FROM emp_record_table
WHERE EMP_RATING < 2;

```

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

Tables

data\_science\_team

emp\_record\_table

proj\_table

Views

Stored Procedures

Functions

sys

Query 1 x

Limit to 1000 rows

20

21 #Q4)Write a query to fetch EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPARTMENT, and EMP\_RATING if the EMP\_RATING is: a) less than two b) greater than four c) between two and four

22 #a) less than two: Employees with EMP\_RATING less than two:

23

24 • SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPT, EMP\_RATING

25 FROM emp\_record\_table

26 WHERE EMP\_RATING < 2;

27

28

29

30

31

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
E057	Dorothy	Wilson	F	HEALTHCARE	1
ES32	Claire	Brennan	F	AUTOMOTIVE	1
E620	Katrina	Allen	F	RETAIL	1

Administration Schemas

Information

No object selected

emp\_record\_table 3 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:25:06	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
2	18:30:25	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table W...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

**b) greater than four:** Employees with EMP\_RATING greater than four:

SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPT, EMP\_RATING

FROM emp\_record\_table

WHERE EMP\_RATING > 4;

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

SCHEMAS

Filter objects

employee

Tables

data\_science\_team

emp\_record\_table

proj\_table

Views

Stored Procedures

Functions

sys

Query 1 x

Limit to 1000 rows

```

29
30
31 #Q4)Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
32 #b) greater than four: Employees with EMP_RATING greater than four:
33 • SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
34 FROM emp_record_table
35 WHERE EMP_RATING > 4;
36
37
38
39
40

```

Result Grid

Filter Rows: Export: Wrap Cell Content:

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
E001	Arthur	Black	M	ALL	5
E052	Dianna	Wilson	F	HEALTHCARE	5
E083	Patrick	Voltz	M	HEALTHCARE	5
E204	Karene	Nowak	F	AUTOMOTIVE	5

Administration Schemas

Information

No object selected

emp\_record\_table 4 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:25:06	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT FROM emp_record_table LIMIT 0, 1000	19 row(s) returned	0.000 sec / 0.000 sec
2	18:30:25	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table W...	3 row(s) returned	0.000 sec / 0.000 sec
3	18:33:31	SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING FROM emp_record_table W...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

**c) between two and four:** Employees with EMP\_RATING between two and four:

SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPT, EMP\_RATING

FROM emp\_record\_table

WHERE EMP\_RATING >= 2 AND EMP\_RATING <= 4;

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

Limit to 1000 rows

SCHEMAS

Filter objects

employee

- Tables
  - data\_science\_team
  - emp\_record\_table
  - proj\_table
- Views
- Stored Procedures
- Functions

sys

Query 1

```

36 #Q4)Write a query to fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING if the EMP_RATING is:
37 #b) between two and four:Employees with EMP_RATING between two and four:
38 SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
39 FROM emp_record_table
40 WHERE EMP_RATING >= 2 AND EMP_RATING <= 4;
41
42
43
44
45

```

Result Grid

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
E005	Eric	Hoffman	M	FINANCE	3
E010	William	Butler	M	AUTOMOTIVE	2
E103	Emily	Grove	F	FINANCE	4
E245	Nian	Zhen	M	RETAIL	2
E260	Roy	Collins	M	RETAIL	3
E403	Steve	Hoffman	M	FINANCE	3
E428	Pete	Allen	M	AUTOMOTIVE	4
E478	David	Smith	M	RETAIL	4
E505	Chad	Wilson	M	HEALTHCARE	2
E583	Janet	Hale	F	RETAIL	2
E612	Tracy	Norris	F	RETAIL	4
E640	Jenifer	Jhones	F	RETAIL	4

emp\_record\_table 5 x

Output

Action Output

Object Info Session

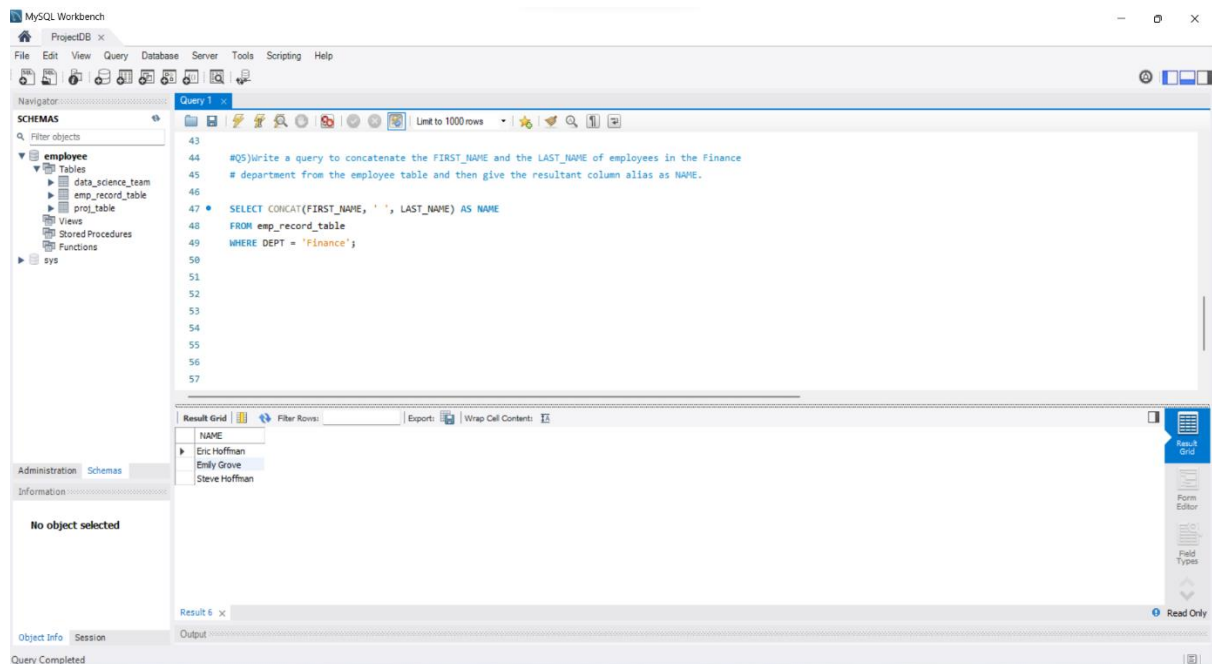
Query Completed

**Q5) 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.**

**Ans.** SELECT CONCAT(FIRST\_NAME, ' ', LAST\_NAME) AS NAME

FROM emp\_record\_table

WHERE DEPT = 'Finance';



**Q6) Write a query to list only those employees who have someone reporting to them. Also, show the number of reporters (including the President).**

**Ans.** SELECT E.EMP\_ID, E.FIRST\_NAME, E.LAST\_NAME, E.ROLE, E.EXP,

(SELECT COUNT(\*)

FROM emp\_record\_table R

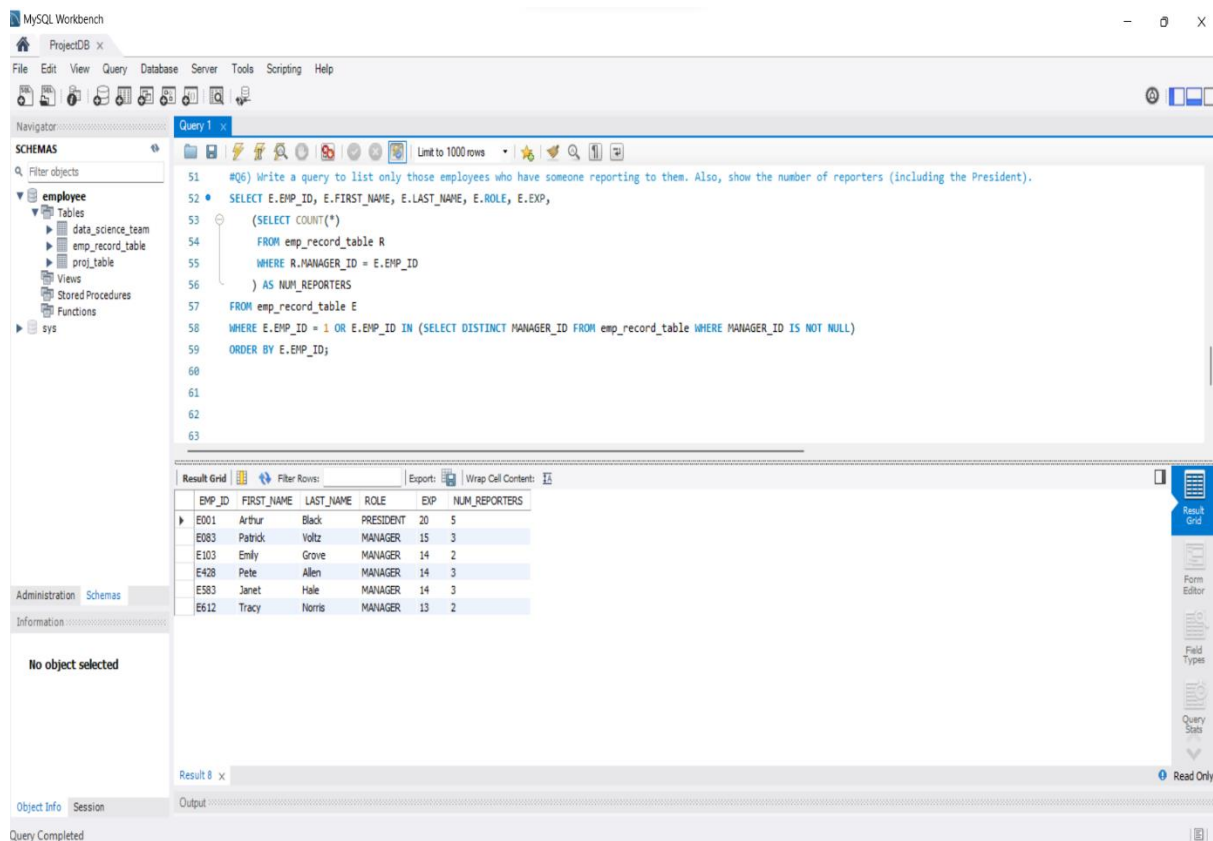
WHERE R.MANAGER\_ID = E.EMP\_ID

) AS NUM\_REPORTERS

FROM emp\_record\_table E

WHERE E.EMP\_ID = 1 OR E.EMP\_ID IN (SELECT DISTINCT MANAGER\_ID FROM emp\_record\_table  
WHERE MANAGER\_ID IS NOT NULL)

ORDER BY E.EMP\_ID;



**Q7) Write a query to list down all the employees from the healthcare and finance departments using union. Take data from the employee record table.**

**Ans.** SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, DEPT

FROM emp\_record\_table

WHERE DEPT = 'HEALTHCARE'

UNION

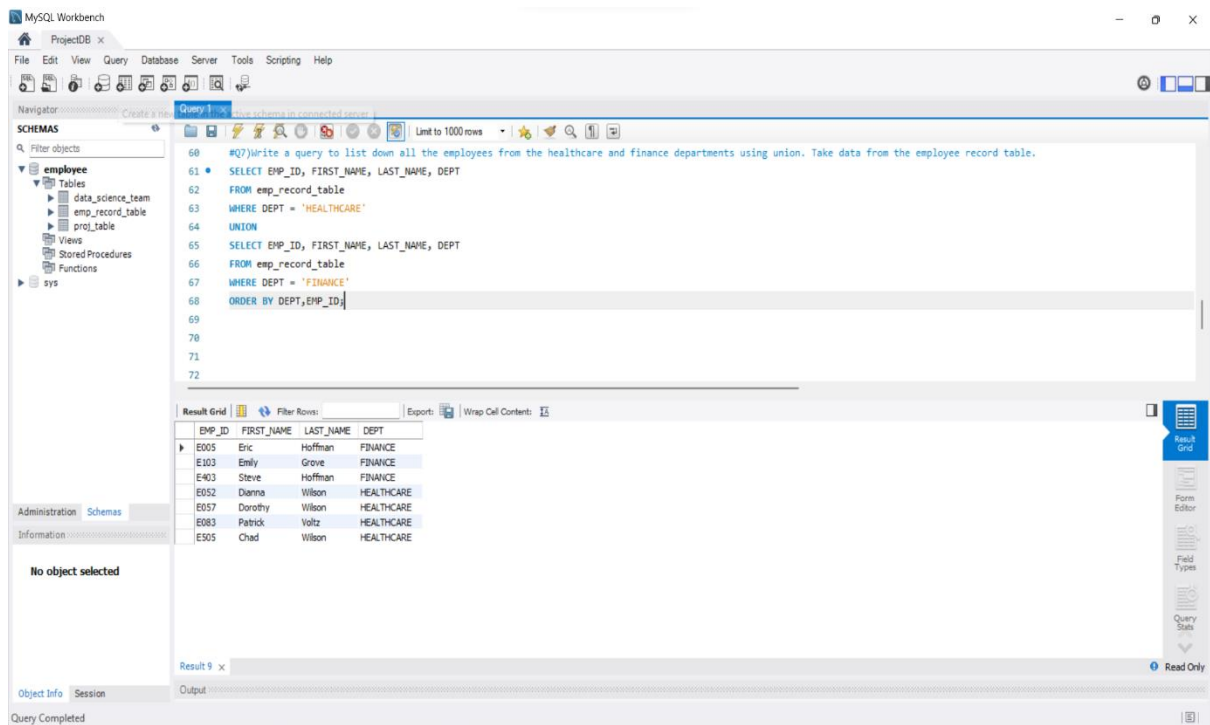
SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, DEPT

FROM emp\_record\_table

WHERE DEPT = 'FINANCE'

ORDER BY DEPT,EMP\_ID;





**Q8) 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.**

**Ans.**

SELECT

EMP\_ID,

FIRST\_NAME,

LAST\_NAME,

ROLE,

DEPT,

EMP\_RATING,

MAX(EMP\_RATING) OVER (PARTITION BY DEPT) AS MAX\_DEPT\_RATING

FROM

emp\_record\_table

ORDER BY

DEPT;

The screenshot shows the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'employee' database selected, with tables like 'data\_science\_team', 'emp\_record\_table', and 'prod\_table'. The main query editor displays the following SQL query:

```

71 #Q8)Write a query to list down employee details such as EMP_ID, FIRST_NAME, LAST_NAME, ROLE, DEPARTMENT, and EMP_RATING grouped by dept.
72 #Also include the respective employee rating along with the max emp rating for the department.
73
74 • SELECT
75     EMP_ID,
76     FIRST_NAME,
77     LAST_NAME,
78     ROLE,
79     DEPT,
80     EMP_RATING,
81     MAX(EMP_RATING) OVER (PARTITION BY DEPT) AS MAX_DEPT_RATING
82 FROM
83     emp_record_table
84 ORDER BY
85     DEPT;

```

Below the query editor, the 'Result Grid' shows the output of the query. It displays 13 rows of employee data, grouped by department. The columns are EMP\_ID, FIRST\_NAME, LAST\_NAME, ROLE, DEPT, EMP\_RATING, and MAX\_DEPT\_RATING.

EMP_ID	FIRST_NAME	LAST_NAME	ROLE	DEPT	EMP_RATING	MAX_DEPT_RATING
E001	Arthur	Black	PRESIDENT	ALL	5	5
E010	William	Butler	LEAD DATA SCIENTIST	AUTOMOTIVE	2	5
E204	Karene	Nowak	SENIOR DATA SCIENTIST	AUTOMOTIVE	5	5
E428	Pete	Allen	MANAGER	AUTOMOTIVE	4	5
E532	Claire	Brennan	ASSOCIATE DATA SCIENTIST	AUTOMOTIVE	1	5
E005	Eric	Hoffman	LEAD DATA SCIENTIST	FINANCE	3	4
E103	Emily	Grove	MANAGER	FINANCE	4	4
E403	Steve	Hoffman	ASSOCIATE DATA SCIENTIST	FINANCE	3	4
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	5	5
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	HEALTHCARE	1	5
E083	Patrick	Voltz	MANAGER	HEALTHCARE	5	5
E505	Chad	Wilson	ASSOCIATE DATA SCIENTIST	HEALTHCARE	2	5

**Q9) Write a query to calculate the minimum and the maximum salary of the employees in each role. Take data from the employee record table.**

**Ans.** SELECT ROLE, MAX(SALARY) AS MAX\_SALARY, MIN(SALARY) AS MIN\_SALARY

FROM emp\_record\_table

WHERE ROLE IN ('PRESIDENT', 'LEAD DATA SCIENTIST', 'SENIOR DATA SCIENTIST', 'MANAGER', 'ASSOCIATE DATA SCIENTIST', 'JUNIOR DATA SCIENTIST')

GROUP BY ROLE;

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

Tables

data\_science\_team

emp\_record\_table

proj\_table

Views

Stored Procedures

Functions

sys

Query 1 x

Limit to 1000 rows

87

88 #Q9) Write a query to calculate the minimum and the maximum salary of the employees in each role. Take data from the employee record table.

89 • SELECT ROLE, MAX(SALARY) AS MAX\_SALARY, MIN(SALARY) AS MIN\_SALARY

90 FROM emp\_record\_table

91 WHERE ROLE IN ('PRESIDENT', 'LEAD DATA SCIENTIST', 'SENIOR DATA SCIENTIST', 'MANAGER', 'ASSOCIATE DATA SCIENTIST', 'JUNIOR DATA SCIENTIST')

92 GROUP BY ROLE;

93

94

95

96

97

98

99

100

101

Result Grid

Filter Rows: Export: Wrap Cell Content: 15

ROLE	MAX_SALARY	MIN_SALARY
PRESIDENT	16500	16500
LEAD DATA SCIENTIST	9000	8500
SENIOR DATA SCIENTIST	7700	5500
MANAGER	11000	8500
ASSOCIATE DATA SCIENTIST	5000	4000
JUNIOR DATA SCIENTIST	3000	2800

Administration Schemas

Information

No object selected

Object Info Session

Output

Query Completed

**Q10) Write a query to assign ranks to each employee based on their experience. Take data from the employee record table.**

**Ans.** SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, EXP,  
RANK() OVER (ORDER BY EXP) AS EXP\_RANK  
FROM emp\_record\_table;

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

employee

Tables

data\_science\_team

emp\_record\_table

proj\_table

Views

Stored Procedures

Functions

sys

Query 1 x

Limit to 1000 rows

93

94 #Q10) Write a query to assign ranks to each employee based on their experience. Take data from the employee record table.

95 • SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, EXP,

96 RANK() OVER (ORDER BY EXP) AS EXP\_RANK

97 FROM emp\_record\_table;

98

99

100

Result Grid

Filter Rows: Export: Wrap Cell Content: 15

EMP_ID	FIRST_NAME	LAST_NAME	EXP	EXP_RANK
E640	Jenifer	Jhones	1	1
E620	Katrina	Allen	2	2
E478	David	Smith	3	3
E532	Clare	Brennan	3	3
E403	Steve	Hoffman	4	5
E505	Chad	Wilson	5	6
E052	Dianna	Wilson	6	7
E245	Nian	Zhen	6	7
E260	Roy	Collins	7	9
E204	Karene	Nowak	8	10
E057	Dorothy	Wilson	9	11
E005	Eric	Hoffman	11	12
E010	William	Butler	12	13
E612	Tracy	Norris	13	14
E103	Emily	Grove	14	15
E428	Pete	Allen	14	15
E583	Janet	Hale	14	15
E083	Patrick	Voltz	15	18
E001	Arthur	Black	20	19

Administration Schemas

Information

No object selected

Object Info Session

Output

Query Completed

**Q11) 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.**

**Ans.** CREATE VIEW employees\_in\_various\_countries AS

SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, COUNTRY, SALARY

FROM emp\_record\_table

WHERE SALARY > 6000;

SELECT \*FROM employees\_in\_various\_countries;

The screenshot shows the MySQL Workbench interface. The 'Query 1' editor contains the following SQL code:

```
100
101 #Q11)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.
102 CREATE VIEW employees_in_various_countries AS
103 SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SALARY
104 FROM emp_record_table
105 WHERE SALARY > 6000;
106
107 SELECT *FROM employees_in_various_countries;
108
```

The 'Result Grid' displays the following data:

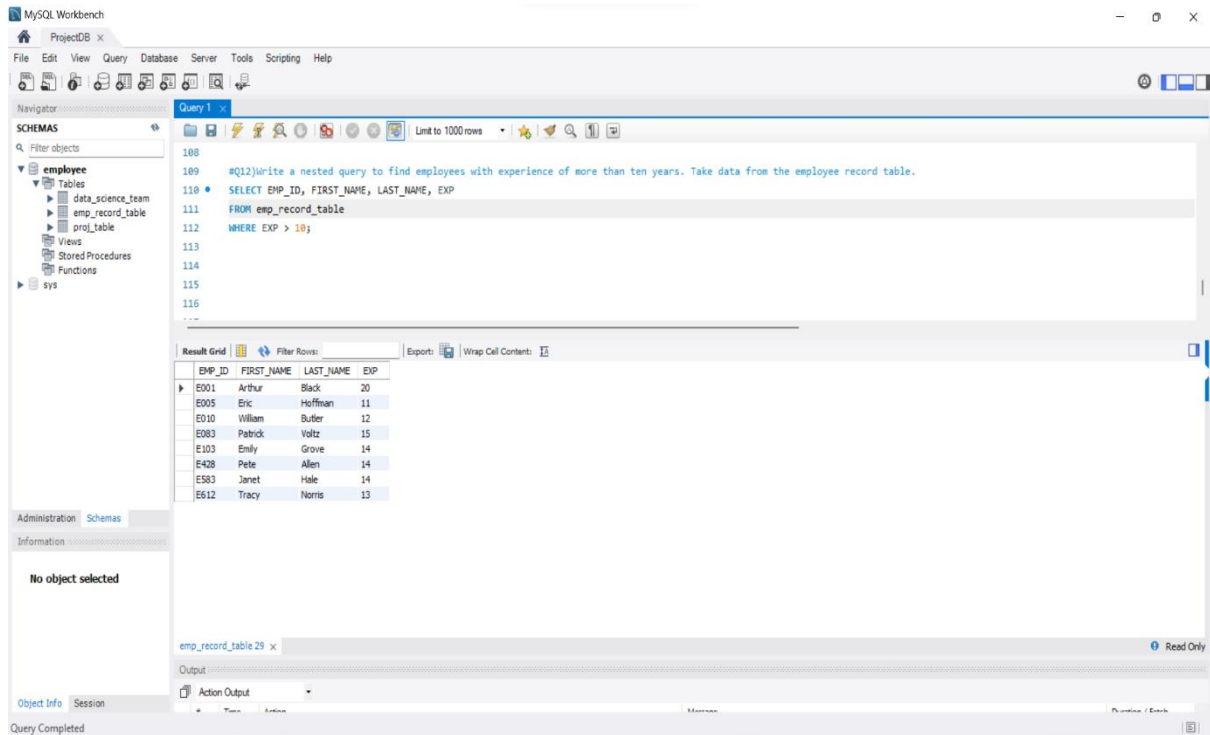
EMP_ID	FIRST_NAME	LAST_NAME	COUNTRY	SALARY
E001	Arthur	Black	USA	16500
E005	Eric	Hoffman	USA	8500
E010	William	Butler	FRANCE	9000
E057	Dorothy	Wilson	USA	7700
E083	Patrick	Voltz	USA	9500
E103	Emily	Grove	CANADA	10500
E204	Karene	Nowak	GERMANY	7500
E245	Nian	Zhen	CHINA	6500
E260	Roy	Collins	INDIA	7000
E428	Pete	Allen	GERMANY	11000
E583	Janet	Hale	COLOMBIA	10000
E612	Tracy	Norris	INDIA	8500

**Q12) Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.**

**Ans.** SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, EXP

FROM emp\_record\_table

WHERE EXP > 10;



**Q13) 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.**

**Ans. DELIMITER &&**

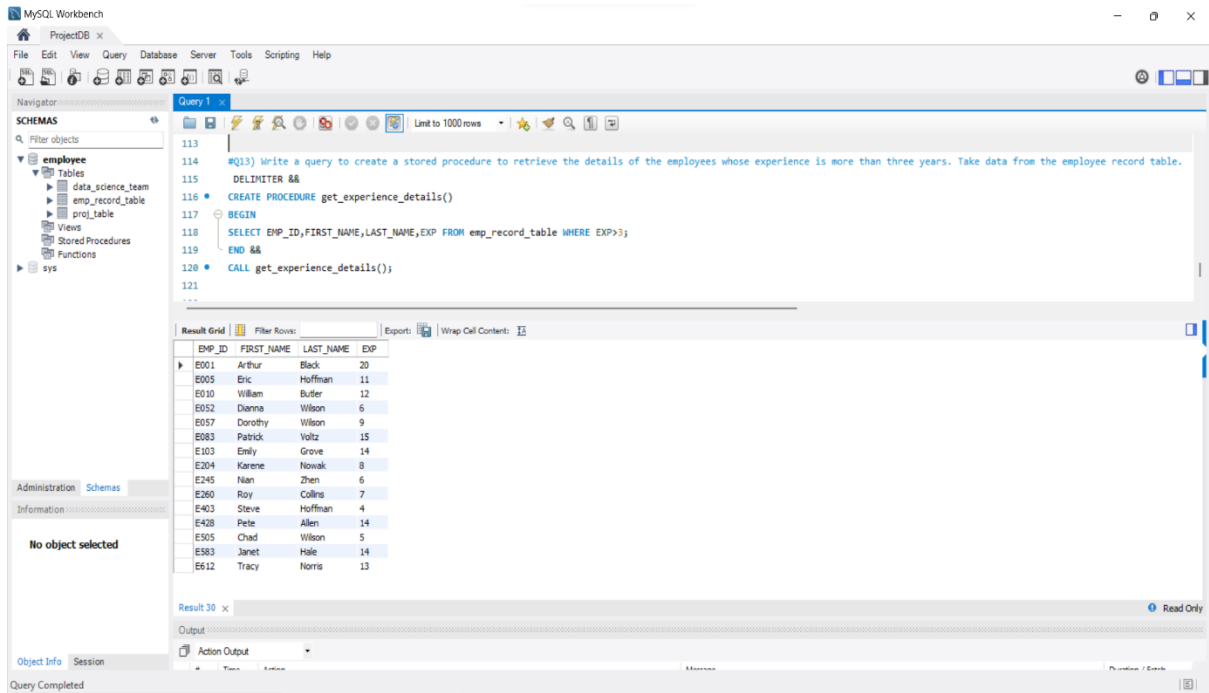
**CREATE PROCEDURE get\_experience\_details()**

**BEGIN**

**SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, EXP FROM emp\_record\_table WHERE EXP > 3;**

**END &&**

**CALL get\_experience\_details();**



**Q14) 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'.**

**Ans. DELIMITER //**

**CREATE FUNCTION Employee\_ROLE(EXP INT)**

**RETURNS VARCHAR(40)**

**DETERMINISTIC**

**BEGIN**

**DECLARE EmployeeRole VARCHAR(40);**

**IF EXP <= 2 THEN**

**SET EmployeeRole = 'JUNIOR DATA SCIENTIST';**

**ELSEIF EXP > 2 AND EXP <= 5 THEN**

**SET EmployeeRole = 'ASSOCIATE DATA SCIENTIST';**

```

ELSEIF EXP > 5 AND EXP <= 10 THEN

    SET EmployeeRole = 'SENIOR DATA SCIENTIST';

ELSEIF EXP > 10 AND EXP <= 12 THEN

    SET EmployeeRole = 'LEAD DATA SCIENTIST';

ELSEIF EXP > 12 AND EXP <= 16 THEN

    SET EmployeeRole = 'MANAGER';

ELSE

    SET EmployeeRole = 'UNKNOWN';

END IF;

RETURN EmployeeRole;

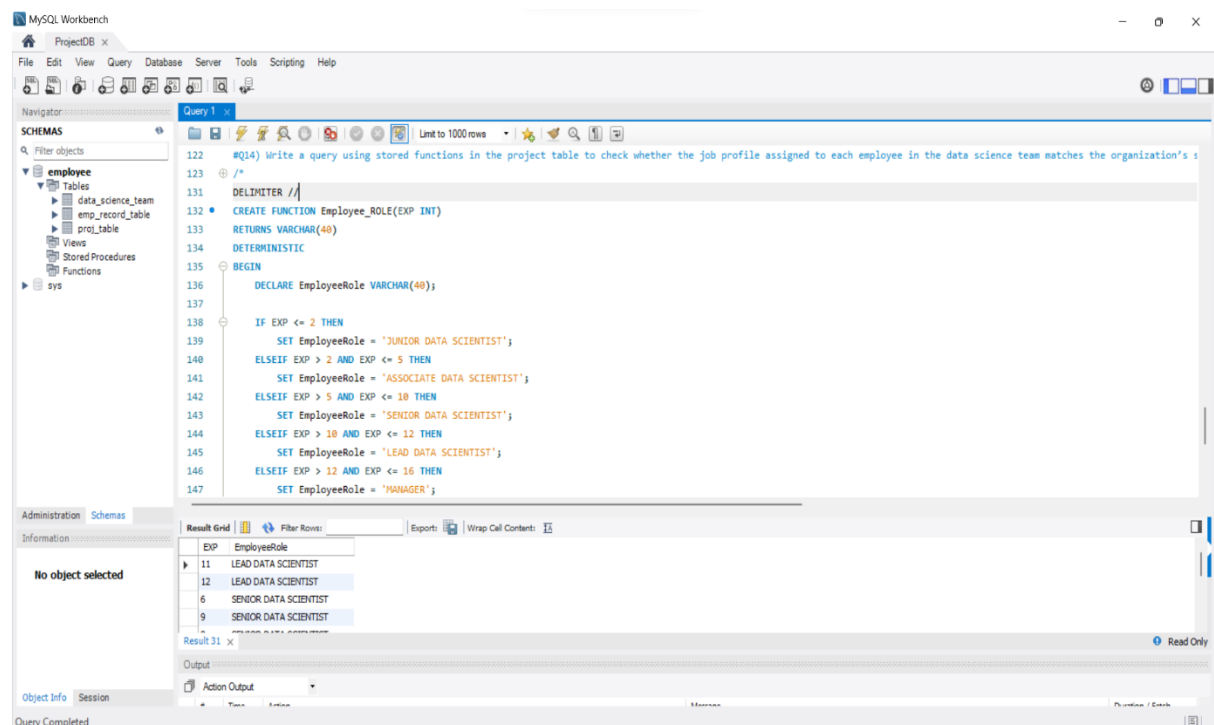
END //

```

DELIMITER ;

SELECT EXP, Employee\_ROLE(EXP) AS EmployeeRole

FROM data\_science\_team;



The screenshot shows the MySQL Workbench interface. The main window displays a SQL query for creating a stored function and selecting data. The query is as follows:

```

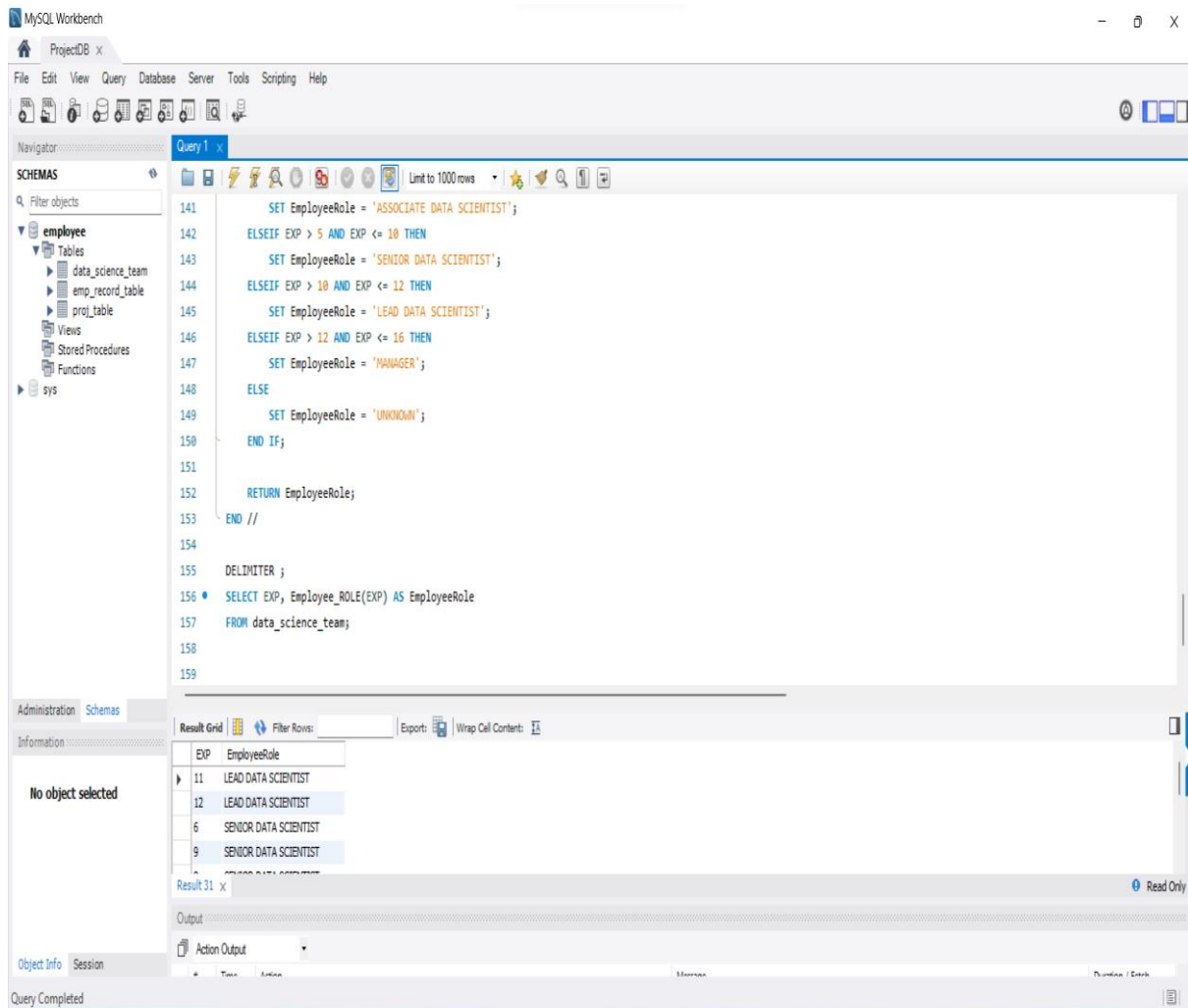
--Q14) Write a query using stored functions in the project table to check whether the job profile assigned to each employee in the data science team matches the organization's
/*
DELIMITER //
CREATE FUNCTION Employee_ROLE(EXP INT)
RETURNS VARCHAR(40)
DETERMINISTIC
BEGIN
    DECLARE EmployeeRole VARCHAR(40);
    IF EXP <= 2 THEN
        SET EmployeeRole = 'JUNIOR DATA SCIENTIST';
    ELSEIF EXP > 2 AND EXP <= 5 THEN
        SET EmployeeRole = 'ASSOCIATE DATA SCIENTIST';
    ELSEIF EXP > 5 AND EXP <= 10 THEN
        SET EmployeeRole = 'SENIOR DATA SCIENTIST';
    ELSEIF EXP > 10 AND EXP <= 12 THEN
        SET EmployeeRole = 'LEAD DATA SCIENTIST';
    ELSEIF EXP > 12 AND EXP <= 16 THEN
        SET EmployeeRole = 'MANAGER';
    ELSE
        SET EmployeeRole = 'UNKNOWN';
    END IF;
    RETURN EmployeeRole;
END //
DELIMITER ;
SELECT EXP, Employee_ROLE(EXP) AS EmployeeRole
FROM data_science_team;

```

The left sidebar shows the 'SCHEMAS' panel with a tree view of the database structure. The 'data\_science\_team' table is selected. The bottom panel shows the 'Result Grid' with the following data:

EXP	EmployeeRole
11	LEAD DATA SCIENTIST
12	LEAD DATA SCIENTIST
6	SENIOR DATA SCIENTIST
9	SENIOR DATA SCIENTIST

The status bar at the bottom indicates 'Query Completed'.



**Q15) 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.**

**Ans.**

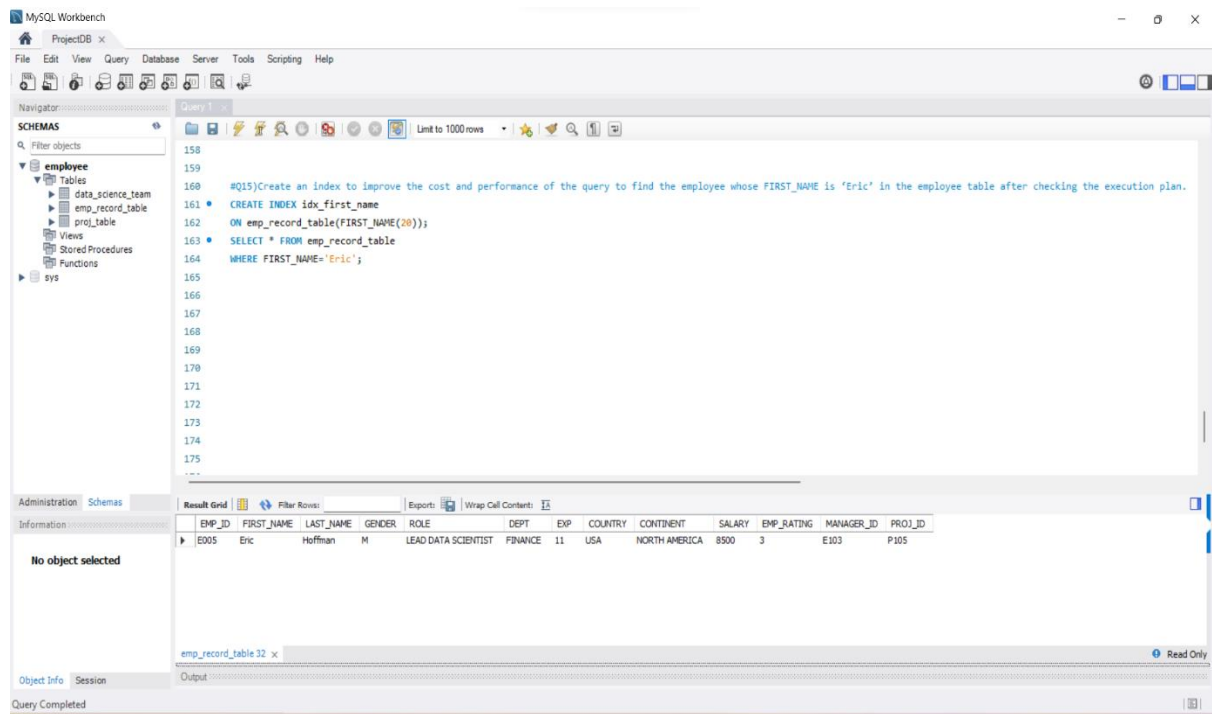
```

CREATE INDEX idx_first_name
ON emp_record_table(FIRST_NAME(20));

SELECT * FROM emp_record_table
WHERE FIRST_NAME='Eric';

```





**Q16) 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).**

**Ans.**

SELECT

EMP\_ID,

FIRST\_NAME,

LAST\_NAME,

SALARY,

EMP\_RATING,

(SALARY \* EMP\_RATING \* 0.05) AS BONUS

FROM

emp\_record\_table;

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'employee' database selected. The 'Query' editor contains the following SQL query:

```

167
168 #Q16)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).
169
170 SELECT
171     EMP_ID,
172     FIRST_NAME,
173     LAST_NAME,
174     SALARY,
175     EMP_RATING,
176     (SALARY * EMP_RATING * 0.05) AS BONUS
177 FROM
178     emp_record_table;
179

```

The 'Result Grid' at the bottom displays the results of the query. It shows columns for EMP\_ID, FIRST\_NAME, LAST\_NAME, SALARY, EMP\_RATING, and BONUS. The results are as follows:

EMP_ID	FIRST_NAME	LAST_NAME	SALARY	EMP_RATING	BONUS
E001	Arthur	Black	16500	5	4125.00
E005	Eric	Hoffman	8500	3	1275.00
E010	William	Butler	9000	2	900.00
E052	Dianna	Wilson	5500	5	1375.00
E057	Dorothy	Wilson	7700	1	385.00
E083	Patrick	Voltz	9500	5	2375.00
E103	Emily	Grove	10500	4	2100.00
E204	Karene	Nowak	7500	5	1875.00
E245	Nan	Zhen	6500	2	650.00
E260	Roy	Collins	7000	3	1050.00
E403	Steve	Hoffman	5000	3	750.00
E428	Pete	Allen	11000	4	2200.00
E478	David	Smith	4000	4	800.00
E505	Chad	Wilson	5000	2	500.00

**Q17) Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.**

**Ans.**

SELECT

CONTINENT,

COUNTRY,

AVG(SALARY) AS AVERAGE\_SALARY

FROM

emp\_record\_table

GROUP BY

CONTINENT, COUNTRY;

MySQL Workbench

ProjectDB x

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHMAS

employee

- Tables
  - data\_science\_team
  - emp\_record\_table
  - proj\_table
- Views
- Stored Procedures
- Functions

sys

Query 1: x

Limit to 1000 rows

```
178 #Q17)write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.
179 SELECT
180     CONTINENT,
181     COUNTRY,
182     AVG(SALARY) AS AVERAGE_SALARY
183 FROM
184     emp_record_table
185 GROUP BY
186     CONTINENT, COUNTRY;
```

Result Grid

CONTINENT	COUNTRY	AVERAGE_SALARY
NORTH AMERICA	USA	9440.0000
EUROPE	FRANCE	9000.0000
NORTH AMERICA	CANADA	7000.0000
EUROPE	GERMANY	7600.0000
ASIA	CHINA	6500.0000
ASIA	INDIA	6166.6667
SOUTH AMERICA	COLOMBIA	5600.0000

Administration Schemas

Information

No object selected

Result 37 x

Read Only

Output

Query Completed