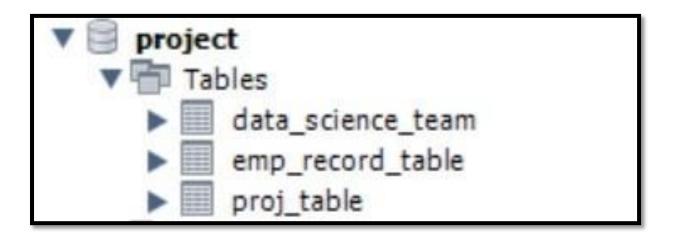
Title: Science Qtech Employee Performance Mapping

Submitted By: Iti Aggarwal

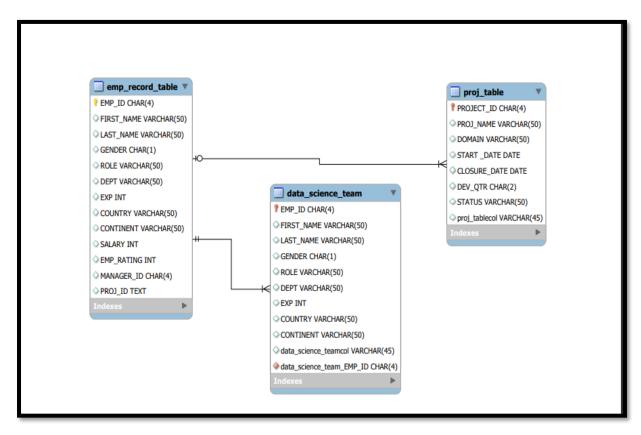
Submitted to: Simplilearn Data Analytics IIT Kanpur

Screenshots

Ans 1.



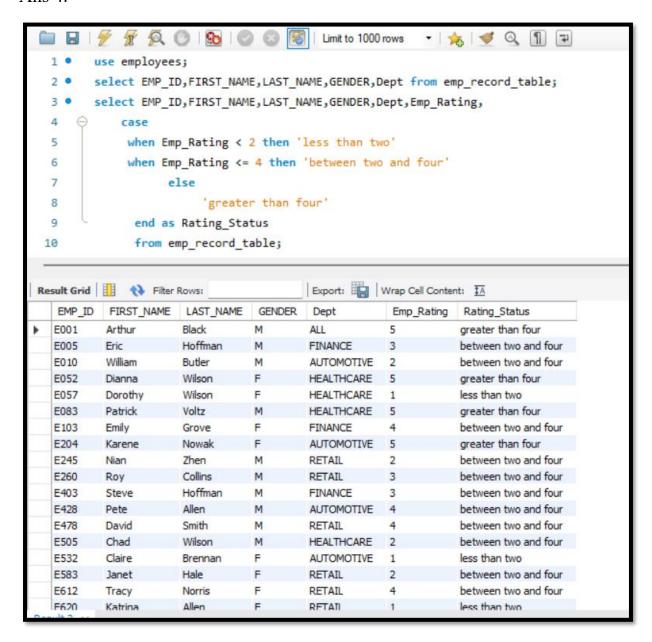
Ans 2.



Ans 3.

```
1 •
         use employees;
         select EMP ID, FIRST NAME, LAST NAME, GENDER, Dept from emp record table;
 2 •
  3
                                              Export: Wrap Cell Content: IA
Result Grid 🔢 🙌 Filter Rows:
   EMP_ID FIRST_NAME LAST_NAME
                                     GENDER Dept
                        Black
                                               ALL
  E001
           Arthur
                        Hoffman
  E005
           Eric
                                     Μ
                                              FINANCE
           William
                        Butler
  E010
                                     M
                                               AUTOMOTIVE
  E052
           Dianna
                        Wilson
                                     F
                                              HEALTHCARE
                        Wilson
  E057
           Dorothy
                                     F
                                              HEALTHCARE
  E083
           Patrick
                        Voltz
                                     Μ
                                              HEALTHCARE
  E103
           Emily
                        Grove
                                     F
                                              FINANCE
                                     F
  E204
           Karene
                        Nowak
                                              AUTOMOTIVE
  E245
           Nian
                        Zhen
                                               RETAIL
                                     Μ
  E260
                        Collins
                                              RETAIL
           Roy
                                     Μ
  E403
           Steve
                        Hoffman
                                     Μ
                                              FINANCE
                        Allen
  E428
           Pete
                                               AUTOMOTIVE
  E478
           David
                        Smith
                                     Μ
                                               RETAIL
  E505
           Chad
                        Wilson
                                              HEALTHCARE
                                     F
  E532
           Claire
                        Brennan
                                               AUTOMOTIVE
  E583
           Janet
                        Hale
                                     F
                                              RETAIL
  E612
           Tracy
                        Norris
                                     F
                                               RETAIL
                                     F
                                              RETAIL
           Katrina
                        Allen
  E620
  E640
           Jenifer
                        Jhones
                                     F
                                              RETAIL
```

Ans 4.



Ans 5.

```
🕶 | 🚖 | 🥩 🍳 削 🖘
       select EMP_ID,FIRST_NAME,LAST_NAME,GENDER,Dept,Emp_Rating,
 4
           case
            when Emp_Rating < 2 then 'less than two'
  5
            when Emp_Rating <= 4 then 'between two and four'
  6
 7
                 else
                      'greater than four'
  8
 9
            end as Rating_Status
 10
            from emp_record_table;
       select concat(FIRST_NAME,' ',LAST_NAME) as Name from emp_record_table
 11
           where DEPT= 'FINANCE';
 12
                                   Export: Wrap Cell Content: IA
Name
  Eric Hoffman
  Emily Grove
  Steve Hoffman
```

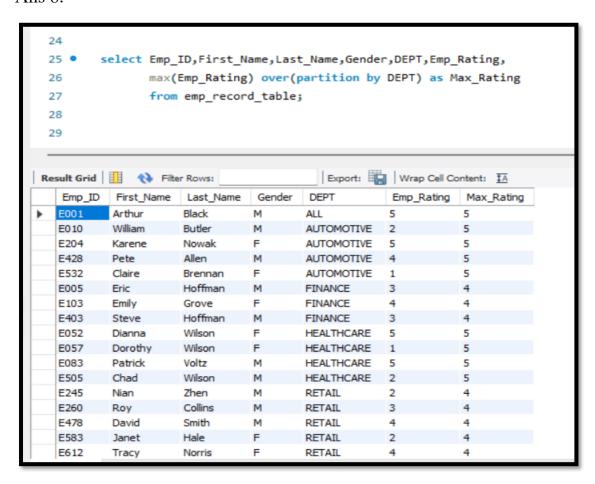
Ans 6.

```
16
             select m.First_name as ManagerName , e.Emp_ID,e.First_Name,
                     count(*) over(partition by m.First_Name) as No_of_Reporting
18
 19
                     from emp_record_table e join emp_record_table m on m.Emp_id = e.manager_id;
 20
Export: Wrap Cell Content: IA
   ManagerName
               Emp_ID
                        First_Name
                                   No_of_Reporting
  Arthur
                E612
                        Janet
  Arthur
                E583
                                    5
                E428
  Arthur
                        Pete
  Arthur
                E103
                        Emily
                                    5
                E083
  Arthur
                        Patrick
  Emily
                E403
                        Steve
                                    2
  Emily
                E005
                        Eric
                E478
                        David
  Janet
  Janet
                E260
                        Roy
                E245
                                    3
                        Nian
  Janet
  Patrick
                E505
                        Chad
  Patrick
                E057
                        Dorothy
                                    3
  Patrick
                E052
                        Dianna
  Pete
                E532
                        Claire
  Pete
                E204
                        Karene
                E010
                                    3
  Pete
                        William
                E640
  Tracy
                                    2
  Tracy
                E620
                        Katrina
```

Ans 7.

```
18 •
        select * from emp_record_table where dept='healthcare'
 19
        union
 20
         select * from emp_record_table where dept='finance';
 21
 22
Export: Wrap Cell Content: 1A
          FIRST_NAME LAST_NAME GENDER
                                                                                                                   EMP_RATING MANAGER_ID PROJ_ID
   EMP_ID
                                          ROLE
                                                                                   COUNTRY
                                                                                             CONTINENT
                                          SENIOR DATA SCIENTIST
  E052
          Dianna
                      Wilson
                                                                 HEALTHCARE 6
                                                                                   CANADA
                                                                                            NORTH AMERICA
                                                                                                           5500
                                                                                                                   5
                                                                                                                               E083
                                                                                                                                           P103
  E057
          Dorothy
                      Wilson
                                          SENIOR DATA SCIENTIST
                                                                HEALTHCARE 9
                                                                                   USA
                                                                                            NORTH AMERICA 7700
                                                                                                                               E083
                                                                                                                                           P302
                                                                                                                                           HULL
  E083
          Patrick
                                          MANAGER
                                                                 HEALTHCARE 15
                                                                                            NORTH AMERICA
                                                                                                                               E001
  E505
                                          ASSOCIATE DATA SCIENTIST HEALTHCARE 5
                                                                                                                               E083
                                                                                                                                           P103
          Chad
                      Wilson
                                                                                   CANADA
                                                                                            NORTH AMERICA
                                                                                                           5000
                                                                                                                  2
  E005
                      Hoffman
                                                                                                                                           P105
          Eric
                                         LEAD DATA SCIENTIST
                                                                FINANCE
                                                                                   USA
                                                                                            NORTH AMERICA
                                                                                                           8500
                                                                                                                               E103
                                                                             11
                                                                                                                                           NULL
                                                                                                                               E001
  E103
          Emily
                      Grove
                                         MANAGER
                                                                 FINANCE
                                                                            14
                                                                                   CANADA
                                                                                            NORTH AMERICA
                                                                                                                  4
                                                                                                           10500
  E403
          Steve
                      Hoffman
                                          ASSOCIATE DATA SCIENTIST FINANCE
                                                                                   USA
                                                                                            NORTH AMERICA
                                                                                                           5000
                                                                                                                               E103
                                                                                                                                           P105
```

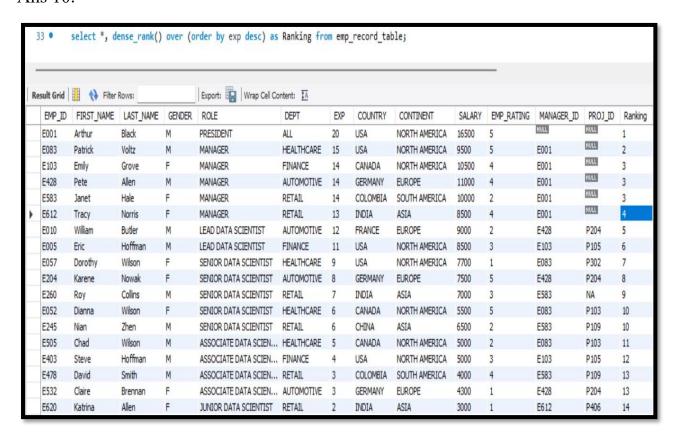
Ans 8.



Ans 9.

```
27
          select role, min(salary) as Min_salary , max(salary) as Max_salary from emp_record_table
 28 •
 29
          group by role;
 30
                                            Export: Wrap Cell Content: 1A
Result Grid | Filter Rows:
                                       Max_salary
   role
                            Min_salary
  PRESIDENT
                            16500
                                       16500
  LEAD DATA SCIENTIST
                                       9000
                            8500
  SENIOR DATA SCIENTIST
                            5500
                                       7700
                            8500
                                       11000
  MANAGER
   ASSOCIATE DATA SCIENTIST
                            4000
                                       5000
  JUNIOR DATA SCIENTIST
                            2800
                                       3000
```

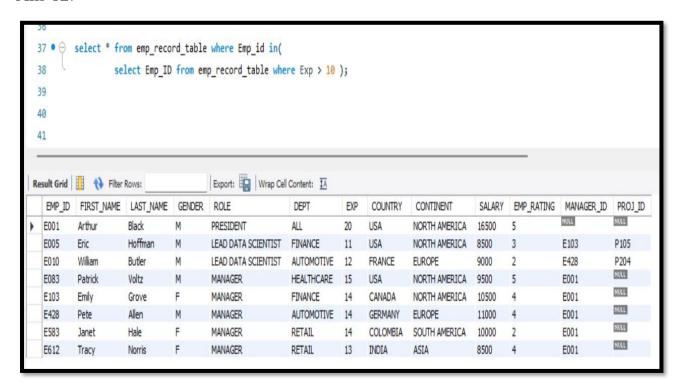
Ans 10.



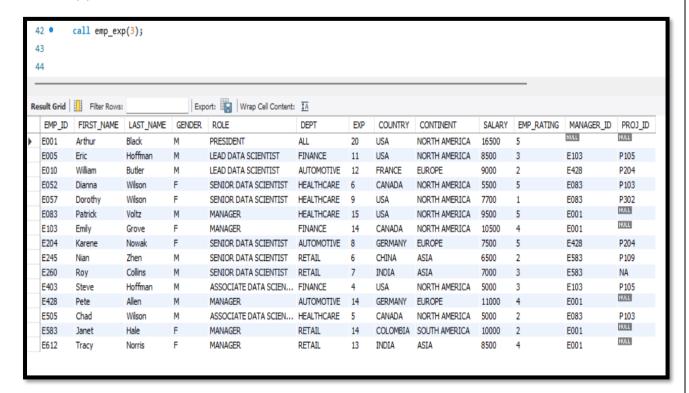
Ans 11.

```
34 •
          create view SALARY_Emp
 35
          as
          select First_name,Last_name,country,salary from emp_record_table where salary>6000;
 36
 38 •
          select First_Name,salary,country from SALARY_Emp;
                                         Export: Wrap Cell Content: IA
First_name
             salary
                    country
   Arthur
             16500
                    USA
   Eric
             8500
                    USA
   William
             9000
                    FRANCE
  Dorothy
             7700
                   USA
   Patrick
             9500
                    USA
   Emily
             10500 CANADA
   Karene
             7500
                    GERMANY
                    CHINA
  Nian
             6500
             7000
   Roy
                    INDIA
   Pete
             11000 GERMANY
   Janet
             10000
                    COLOMBIA
  Tracv
             8500
                    INDIA
SALARY_Emp 19 ×
```

Ans 12.



Ans 13(a)



Ans 13(b)

```
Name: emp_exp

DDL:

1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `emp_exp`(e int)

2 ⊖ BEGIN

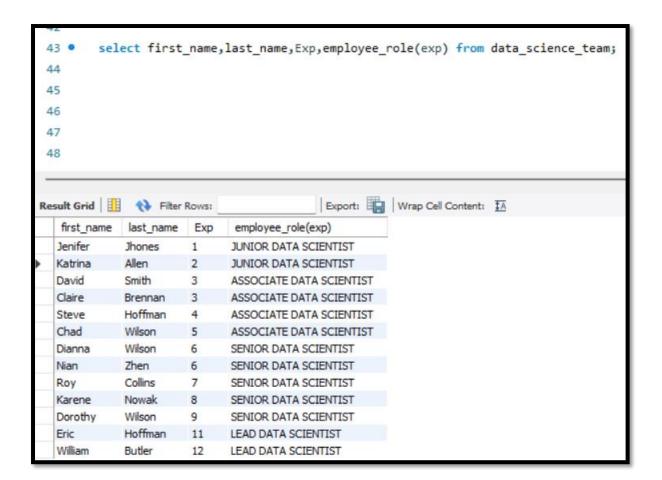
3 select * from emp_record_table where exp > e;

4 END
```

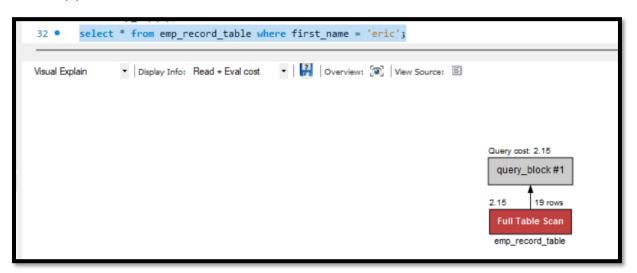
Ans 14(a)

```
The name of the routine is parsed automatatement. The DDL is parsed automatatement.
      Employee_Role
Name:
 DDL:
        CREATE DEFINER='root'@'localhost' FUNCTION 'Employee_Role'(exp int) RETURNS varchar(50) CHARSET utf8mb4
                    DETERMINISTIC
         2
         3 ⊖ BEGIN
         4
                declare Employee_Role varchar(50);
             ♦ If exp>12 and 16 then
         5
                set Employee_Role = 'MANAGER';
         6
         7
                elseif exp>10 and 12 then
         8
                set Employee_Role = 'LEAD DATA SCIENTIST';
         9
                elseif exp>5 and 10 then
                set Employee_Role = 'SENIOR DATA SCIENTIST';
         10
                elseif exp>2 and 5 then
         11
        12
                set Employee_Role = 'ASSOCIATE DATA SCIENTIST';
        13
                elseif exp<=2 then
                set Employee_Role = 'JUNIOR DATA SCIENTIST';
        14
        15
               end if;
                RETURN Employee_Role;
        16
        17
```

Ans 14(b)

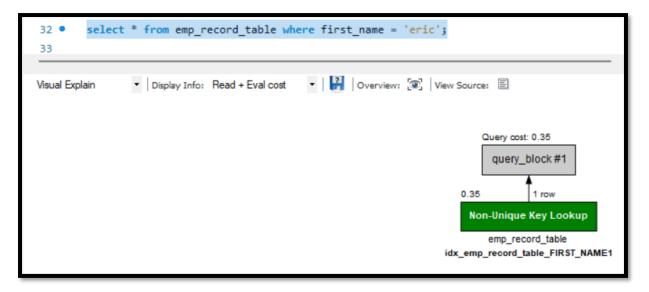


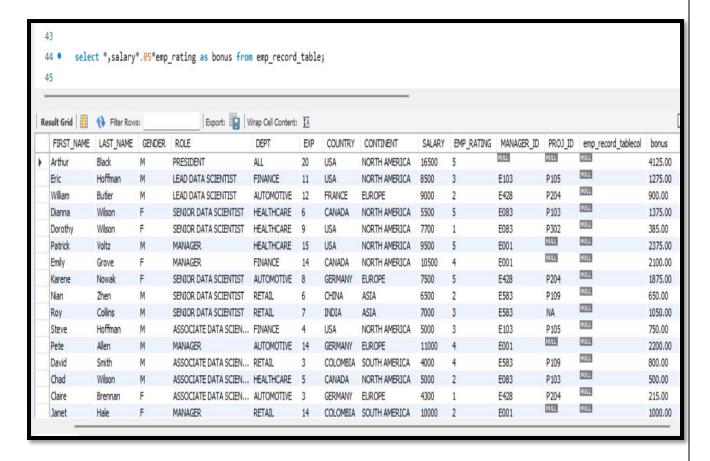
Ans 15(a)





Ans 15(c)





Ans 17.

