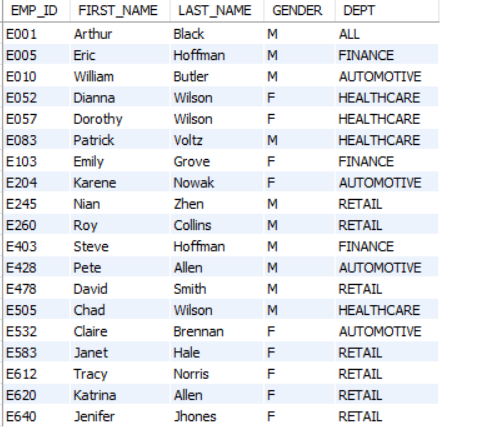
SCIENCE QTECH PROJECT SOLUTION:

CREATE DATABASE employee ;

USE EMPLOYEE;

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

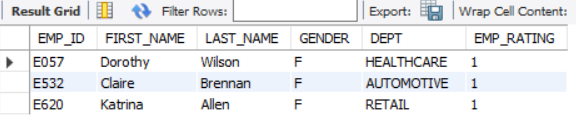
FROM emp\_record\_table;



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

FROM emp\_record\_table

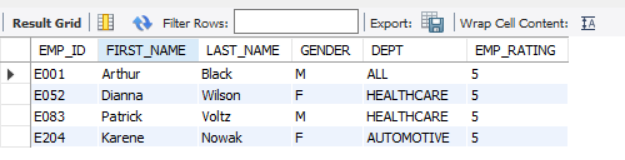
WHERE EMP\_RATING <2 ;



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

FROM emp\_record\_table

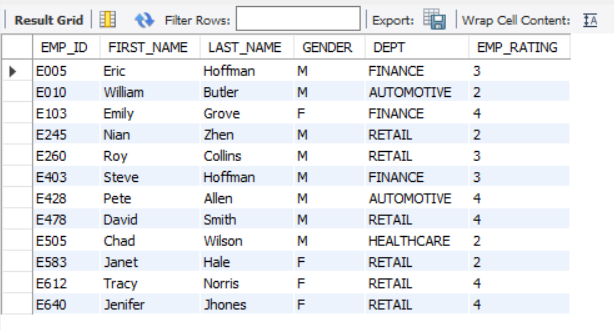
WHERE EMP\_RATING > 4 ;



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

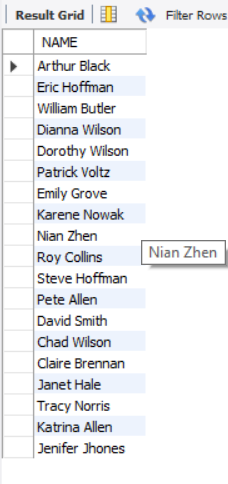
FROM emp\_record\_table

WHERE EMP\_RATING BETWEEN 2 AND 4 ;



SELECT concat(FIRST\_NAME,' ',LAST\_NAME) AS NAME

FROM emp\_record\_table;



SELECT \*

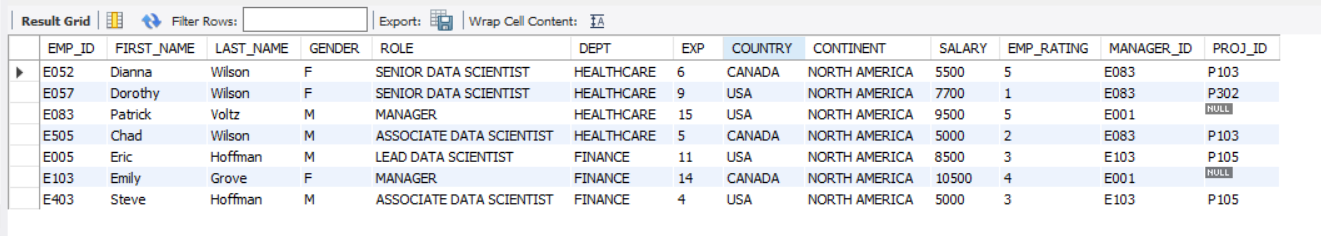
from emp\_record\_table WHERE (DEPT = 'healthcare')

UNION

SELECT \*

from emp\_record\_table

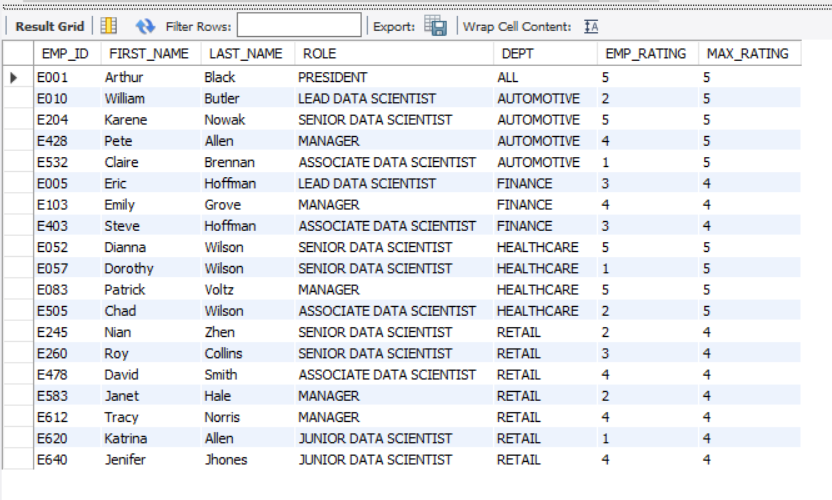
WHERE (DEPT = 'finance');



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

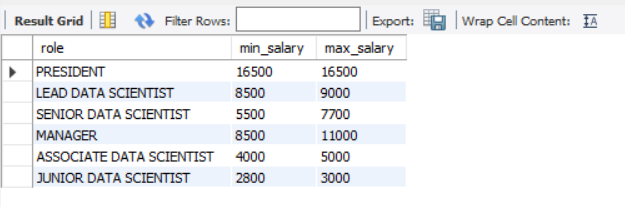
MAX(EMP\_RATING) OVER (PARTITION BY DEPT) AS MAX\_RATING

FROM emp\_record\_table;



SELECT role, MIN(salary) AS min\_salary, MAX(salary) AS max\_salary

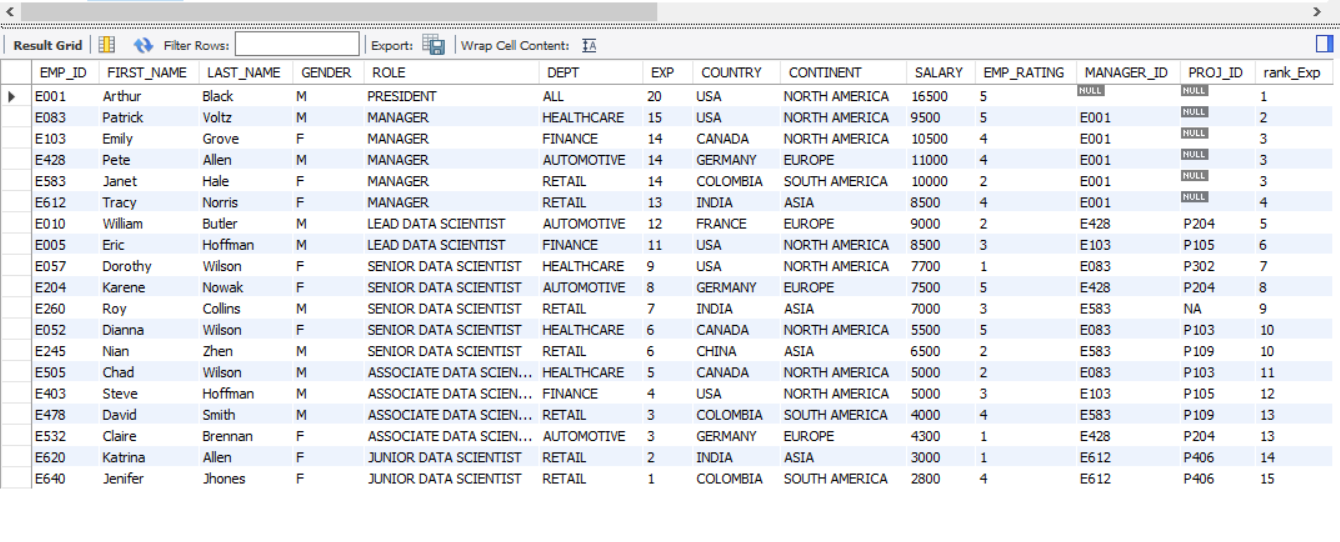
FROM emp\_record\_table GROUP BY role;



SELECT \*,

DENSE\_RANK() OVER (ORDER BY EXP DESC) AS rank\_Exp

FROM emp\_record\_table;



DROP VIEW empl\_salary;

CREATE VIEW empl\_salary AS SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, SALARY, COUNTRY

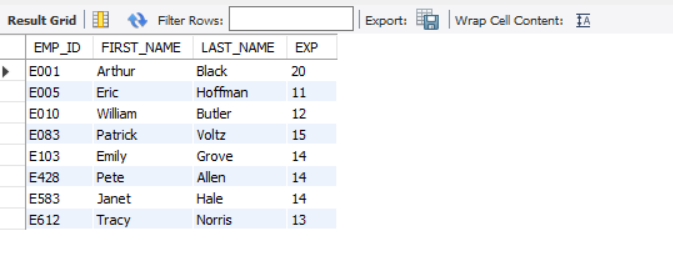
FROM emp\_record\_table

WHERE SALARY > 6000;

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

FROM emp\_record\_table

WHERE (SELECT EXP > 10) ;



DROP PROCEDURE emp\_exp\_Three;

DELIMITER &&

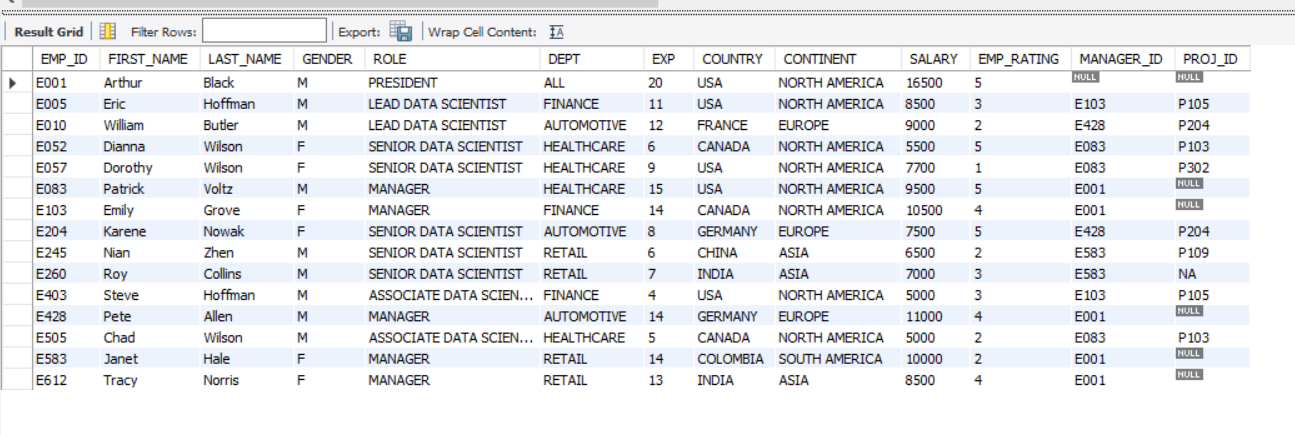
CREATE PROCEDURE emp\_exp\_Three ()

BEGIN

SELECT \* FROM emp\_record\_table WHERE EXP > 3 ;

END &&

CALL emp\_exp\_Three ();



DROP FUNCTION emrol ;

DELIMITER //

CREATE FUNCTION emrol(EXP INT)

RETURNS VARCHAR(40)

DETERMINISTIC

BEGIN

DECLARE emp\_role VARCHAR(40) ;

IF EXP BETWEEN 12 AND 16 THEN

SET emp\_role = 'MANAGER' ;

ELSEIF EXP BETWEEN 10 AND 12 THEN

SET emp\_role = 'LEAD\_DATA\_SCIENTIST';

ELSEIF EXP BETWEEN 5 AND 10 THEN

SET emp\_role ='SENIOR\_DATA\_SCIENTIST';

ELSEIF EXP BETWEEN 2 AND 5 THEN

SET emp\_role ='ASSOCIATE\_DATA\_SCIENTIST' ;

ELSEIF EXP<= 2 THEN

SET emp\_role ='JUNOR\_DATA\_SCIENTIST';

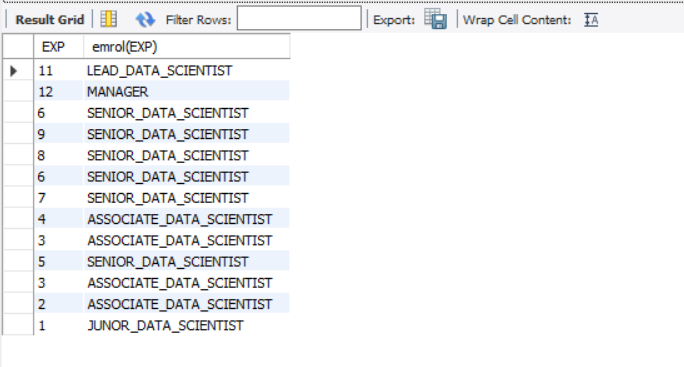
END IF ;

RETURN (emp\_role);

END //

SELECT EXP, emrol(EXP)

FROM data\_science\_team;

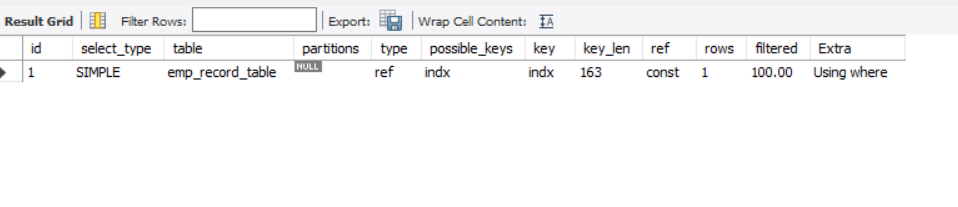


DROP INDEX indx ON emp\_record\_table;

CREATE INDEX indx ON emp\_record\_table (FIRST\_NAME(40));

EXPLAIN SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME FROM emp\_record\_table WHERE

FIRST\_NAME = 'ERIC';



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

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

FROM emp\_record\_table;



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

AVG(SALARY) OVER (PARTITION BY COUNTRY) AS avg\_sal\_cntry ,

AVG(SALARY) OVER (PARTITION BY CONTINENT) AS avg\_sal\_cont,

COUNT(\*) OVER (PARTITION BY COUNTRY) AS count\_in\_country ,

COUNT(\*) OVER (PARTITION BY CONTINENT) AS count\_in\_continent

FROM emp\_record\_table;

