```
create schema employee;
use employee;
-- 3. A query to fetch EMP ID, FIRST NAME, LAST NAME, GENDER, and
DEPARTMENT from the employee record table
SELECT
 EMP ID, FIRST NAME, LAST NAME, GENDER, DEPT
FROM
 emp record table;
-- 4. EMPLOYEE RATING<2
SELECT
 EMP ID, FIRST NAME, LAST NAME, GENDER, DEPT, EMP RATING
FROM
 emp record table
WHERE
 EMP RATING < 2;
-- EMPLOYEE RATING>4
SELECT
 EMP ID, FIRST NAME, LAST NAME, GENDER, DEPT, EMP RATING
FROM
 emp record table
WHERE
 EMP RATING > 4;
-- EMPLOYEE RATING BETWEEN 2 AND 4
SELECT
 EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
FROM
```

```
emp_record_table
WHERE
  EMP_RATING > 2 AND EMP_RATING < 4;
-- 5. A query to concatenate the FIRST NAME and the LAST NAME of employees in the
Finance department from the employee table
SELECT
  CONCAT(FIRST NAME, '',LAST NAME) AS NAME
FROM
  emp_record_table
WHERE
  DEPT = 'FINANCE';
-- 6 A query to list only those employees who have someone reporting to them
SELECT
  t1.EMP ID, t1.FIRST NAME, t1.LAST NAME, t1.ROLE,
  COUNT(t2.EMP ID) AS 'EMP COUNT'
FROM
  emp record table t1
   INNER JOIN
  emp record table t2 ON t1.EMP ID = t2.MANAGER ID
                  GROUP BY t1.EMP ID, t1.FIRST NAME, t1.LAST NAME,
t1.ROLE
      ORDER BY EMP COUNT DESC;
-- 7. A query to list down all the employees from the healthcare and finance departments using
union
SELECT
  EMP ID, FIRST NAME, LAST NAME, DEPT
```

```
FROM
 emp record table T1
WHERE
 DEPT = 'HEALTHCARE'
UNION SELECT
 EMP ID, FIRST NAME, LAST NAME, DEPT
FROM
 emp record table T1
WHERE
 DEPT = 'FINANCE';
-- 8. A query to list down employee details such as EMP_ID, FIRST_NAME, LAST_NAME,
ROLE, DEPARTMENT, and EMP RATING grouped by dept
SELECT
     EMP ID, FIRST NAME, LAST NAME, ROLE, DEPT,
                                                             EMP RATING,
max(EMP RATING)
OVER
     (PARTITION BY DEPT) AS MAX_EMP_RATING
FROM
     emp record table
     ORDER BY DEPT;
-- 9. A query to calculate the minimum and the maximum salary of the employees in each role
SELECT
```

DISTINCT(ROLE), MAX(SALARY) OVER (PARTITION BY ROLE) AS MAX SALARY, MIN(SALARY) OVER (PARTITION BY ROLE) AS MIN SALARY **FROM**

emp record table;

-- A query to assign ranks to each employee based on their experience

SELECT EMP ID, FIRST NAME, LAST NAME, ROLE, DEPT, EXP, RANK() OVER(ORDER BY EXP DESC) as OVER ALL RANK FROM emp record table;

```
more than six thousand
CREATE VIEW emp salary view AS
  SELECT
    EMP ID, FIRST NAME, LAST NAME, COUNTRY, SALARY
  FROM
    emp_record_table
  WHERE
    SALARY > 6000;
SELECT
FROM
  emp_salary_view;
-- 12. A nested query to find employees with experience of more than ten years
SELECT
  EMP_ID, FIRST_NAME, LAST_NAME, EXP
FROM
  emp_record_table
WHERE
  EXP IN (SELECT
      EXP
    FROM
      emp_record_table
    WHERE
      EXP > 10
ORDER BY EXP DESC;
```

-- 11. A query to create a view that displays employees in various countries whose salary is

experience is more than three years **DELIMITER &&** CREATE PROCEDURE EXP OVER 3() **BEGIN SELECT*** FROM emp record table WHERE EXP>3;**END &&** CALL EXP_OVER_3(); -- 14. 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. DELIMITER && CREATE FUNCTION Employee ROLE(EXP int) RETURNS VARCHAR(40) **DETERMINISTIC BEGIN** DECLARE Employee ROLE VARCHAR(40); IF EXP>12 AND 16 THEN SET Employee ROLE="MANAGER"; ELSEIF EXP>10 AND 12 THEN SET Employee ROLE ="LEAD DATA SCIENTIST"; ELSEIF EXP>5 AND 10 THEN SET Employee ROLE ="SENIOR DATA SCIENTIST"; ELSEIF EXP>2 AND 5 THEN SET Employee ROLE ="ASSOCIATE DATA SCIENTIST"; ELSEIF EXP<=2 THEN SET Employee ROLE ="JUNIOR DATA SCIENTIST";

-- 13. A query to create a stored procedure to retrieve the details of the employees whose

```
END IF;
RETURN (Employee ROLE);
END &&
SELECT EMP ID, FIRST NAME, LAST NAME, DEPT, EXP, Employee ROLE(EXP)
FROM data science team;
-- 15. 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.
SELECT
FROM
  emp record table
WHERE
  FIRST NAME = 'ERIC';
create index emp_name_index on emp_record_table(FIRST_NAME(50));
EXPLAIN SELECT EMP ID, FIRST NAME, LAST NAME FROM emp record table
WHERE FIRST_NAME = 'ERIC';
-- 16. A query to calculate the bonus for all the employees, based on their ratings and salaries
(Use the formula: 5% of salary * employee rating).
SELECT
  *, ROUND(0.05 * SALARY * EMP RATING, 0) AS BONUS
FROM
  emp record table;
-- 17. A query to calculate the average salary distribution based on the continent and country
SELECT DISTINCT(COUNTRY), CONTINENT,
```

OVER(PARTITION

BY

COUNTRY),2)

AS

ROUND(AVG(SALARY)

AVG SALARY IN COUNTRY,

ROUND(AVG(SALARY) OVER(PARTITION BY CONTINENT),2) AS AVG_SALARY_IN_CONTINENT

FROM

emp_record_table;