```
USE employee_data;
```

-- 1) 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

SELECT emp\_id, first\_name, last\_name, gender, dept

FROM emp record table ORDER BY emp id ASC;

- -- 2) Write a query to fetch EMP\_ID, FIRST\_NAME, LAST\_NAME, GENDER, DEPARTMENT, and EMP\_RATING if the EMP\_RATING is:
- -- Less than 2

SELECT emp\_id, first\_name, last\_name, gender, dept, emp\_rating from emp\_record\_table WHERE emp\_rating < 2;

-- Greater than 2

select emp\_id, first\_name, last\_name, gender, dept, emp\_rating from emp\_record where emp\_rating > 4;

-- Between 2 & 4

select emp\_id, first\_name, last\_name, gender, dept, emp\_rating from emp\_record where emp\_rating > 2 and emp\_rating < 4;

-- 3) 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

SELECT concat(first\_name, ' ', last\_name) AS NAME

FROM emp\_record\_table WHERE dept = 'Finance';

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

SELECT manager\_id, count(emp\_id)

FROM emp\_record\_table

WHERE manager\_id IS NOT NULL

GROUP BY manager\_id ORDER BY manager\_id ASC;

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

SELECT \* FROM emp record table WHERE dept = 'healthcare'

UNION

SELECT \* FROM emp record table WHERE dept = 'finance';

-- 6) Write 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, AVG(emp\_rating)

FROM emp\_record\_table GROUP BY dept;

- -- 7) Write a query to calculate the minimum and the maximum salary of the employees in each role SELECT role, min(emp\_rating), max(emp\_rating) FROM emp\_record\_table GROUP BY role;
- -- 8) Write a query to assign ranks to each employee based on their experience SELECT emp\_id, first\_name, last\_name, exp, rank() OVER (ORDER BY exp DESC) AS 'Rank' FROM emp\_record\_table;
- -- 9) Write a query to create a view that displays employees in various countries whose salary is more than six thousand

CREATE VIEW Test AS SELECT emp\_id, first\_name, last\_name, country, salary FROM emp\_record\_table WHERE salary > 6000;

-- 10) Write a nested query to find employees with experience of more than ten years

SELECT \* FROM Test;

SELECT \* FROM (SELECT \* FROM emp\_record\_table WHERE exp>10) AS tab;

-- 11) Write a query to create a stored procedure to retrieve the details of the employees whose experience is more than three years

DELIMITER //

CREATE PROCEDURE 3PlusExp()

**BEGIN** 

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SELECT * FROM emp_record_table WHERE exp>3;
END //
delimiter;
Call 3PlusExp();
-- 12) 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
delimiter $$
CREATE FUNCTION check_job_role(exp integer)
RETURNS VARCHAR(40)
DETERMINISTIC
BEGIN
DECLARE chck VARCHAR(40);
if exp < 2 THEN SET chck = "JUNIOR DATA SCIENTIST";
elseif exp >= 2 AND exp < 5 THEN SET chck = "ASSOCIATE DATA SCIENTIST";
elseif exp >=5 AND exp < 10 THEN SET chck = "SENIOR DATA SCIENTIST";
elseif exp >= 10 AND exp < 12 THEN SET chck = "LEAD DATA SCIENTIST";
elseif exp >= 12 THEN SET chck = "MANAGER";
end if; RETURN (chck);
END $$
delimiter;
-- Checking Data Science Team
SELECT emp_id, first_name, last_name, role, check_job_role(exp)
FROM data_science_team WHERE ROLE != check_job_role(exp);
-- 13) Create an index to improve the cost and performance of the guery to find the employee whose
FIRST_NAME is 'Eric' in the employee table after checking the execution plan
CREATE INDEX FirstName ON emp_record_table (FIRST_NAME(10));
```

-- 14) 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)

SELECT EMP\_ID, FIRST\_NAME, LAST\_NAME, SALARY, EMP\_RATING, sum((0.05\*salary)\*emp\_rating)

AS comm FROM emp\_record\_table GROUP BY emp\_id ORDER BY emp\_id ASC;

- -- 15) Write a query to calculate the average salary distribution based on the continent and country
- -- Write a query to calculate the average salary distribution based on the continent and country. Take data from the employee record table.
- -- Continent select CONTINENT, avg(SALARY) as AVG\_SALARY from emp\_record group by CONTINENT;