```
SHOW DATABASES;

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 WHERE
DEPT = "FINANCE";

SELECT m.EMP_ID, m.FIRST_NAME,m.LAST_NAME,m.ROLE,
m.EXP,COUNT(e.EMP_ID) as "EMP_COUNT"
FROM emp_record_table m
INNER JOIN emp_record_table e
ON m.EMP_ID = e.MANAGER_ID
GROUP BY m.EMP_ID
ORDER BY m.EMP_ID;

SELECT EMP_ID,FIRST_NAME,LAST_NAME,DEPT FROM emp_record_table
WHERE DEPT = "HEALTHCARE"
UNION
SELECT EMP_ID,FIRST_NAME,LAST_NAME,DEPTFROM emp_record_table
WHERE DEPT = "FINANCE"
ORDER BY DEPT, EMP_ID;

SELECT
m.EMP_ID,m.FIRST_NAME,LAST_NAME,m.ROLE,m.DEPT,m.EMP_RATING,max(m.EMP_RATIN
G)
OVER(PARTITION BY m.DEPT)
AS "MAX_DEPT_RATING"
FROM emp_record_table m
ORDER BY DEPT;

SELECT EMP_ID, FIRST_NAME, LAST_NAME, ROLE, MAX(SALARY), 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;

SELECT EMP_ID,FIRST_NAME,LAST_NAME,EXP,
RANK() OVER(ORDER BY EXP) EXP_RANK
FROM emp_record_table;

CREATE VIEW employees_in_vaeious_countries AS
SELECT EMP_ID,FIRST_NAME,LAST_NAME,COUNTRY,SALARY
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FROM emp_record_table
WHERE SALARY > 6000;
SELECT * FROM employees_in_vaeious_countries;

SELECT EMP_ID,FIRST_NAME,LAST_NAME,EXP FROM emp_record_table
WHERE EMP_ID IN(SELECT manager_id FROM emp_record_table);


DELIMITER &&
CREATE PROCEDURE get_experiance_deatils()
BEGIN
SELECT EMP_ID,FIRST_NAME,LAST_NAME, EXP FROM emp_record_table WHERE EXP>3;
END &&
CALL get_experiance_deatils();

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";
END IF;
RETURN (Employee_ROLE);
END &&

SELECT EXP,Employee_ROLE(EXP)
FROM data_science_team;

CREATE INDEX idx_first_name
ON emp_record_table(FIRST_NAME(20));
SLECT * FROM emp_record_table
WHERE FIRST_NAME = 'Eric';

UPDATE emp_record_table SET salary = (SELECT salary +(SELECT
salary*0.05*EMP_RATING));
SELECT * FROM emp_record_table;

SELECT EMP_ID,FIRST_NAME,LAST_NAME,SLARY,COUNTRY,CONTINENT,
AVG(salary)OVER(PARTITION BY COUNTRY)AVG_salary_IN_COUNTRY,
AVG(salary)OVER(PARTITION BY CONTINENT)AVG_salary_IN_CONTINENT,
COUNT(*)OVER(PARTITION BY COUNTRY)COUNT_IN_COUNTRY,
COUNT(*)OVER(PARTITION BY CONTINENT)COUNT_IN_CONTINENT
```

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FROM emp_record_table;
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