```
CREATE DATABASE employee;
use employee;
show tables;
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";
SET GLOBAL sql_mode=(SELECT REPLACE(@@sql_mode,'ONLY_FULL_GROUP_BY',''));
SHOW VARIABLES LIKE 'sql_mode';
set global sql_mode='NO_ENGINE_SUBSTITUTION';
set @@global.sql_mode := replace(@@global.sql_mode, 'ONLY_FULL_GROUP_BY',
'');
set @@global.sql_mode := replace(@@global.sql_mode, 'ONLY_FULL_GROUP_BY',
'');
SET GLOBAL sql_mode = (SELECT
REPLACE(@@sql_mode,'ONLY_FULL_GROUP_BY',''));
SET SESSION sql_mode = (SELECT
REPLACE(@@sql_mode,'ONLY_FULL_GROUP_BY',''));
SELECT @@sql_mode;
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,DEPT FROM emp_record_table WHERE DEPT =
"FINANCE"
GROUP BY DEPT,EMP_ID;

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

SELECT DISTINCT ROLE FROM emp_record_table;
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 DESC) EXP_RANK FROM emp_record_table;

CREATE VIEW employees_in_various_countries AS
SELECT EMP_ID,FIRST_NAME,LAST_NAME,COUNTRY,SALARY
FROM emp_record_table
```

```
WHERE SALARY>6000 order by SALARY DESC;
SELECT *FROM employees_in_various_countries;

SELECT * FROM  emp_record_table;
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_experience_details()
BEGIN
SELECT EMP_ID,FIRST_NAME,LAST_NAME,EXP FROM emp_record_table WHERE EXP>3;
END &&
CALL get_experience_details();

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 index_first_name
ON emp_record_table(FIRST_NAME(20));

SELECT * FROM emp_record_table
WHERE FIRST_NAME='Eric';

update emp_record_table
set salary=(select salary +(select salary*.05*EMP_RATING));

SELECT *FROM emp_record_table;

SELECT EMP_ID,FIRST_NAME,LAST_NAME,SALARY,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
FROM emp_record_table;
```