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CREATE DATABASE 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,DEPT FROM emp_record_table
WHERE DEPT = "FINANCE"
ORDER BY DEPT,EMP_ID;

SELECT  m.EMP_ID,m.FIRST_NAME,m.LAST_NAME,m.ROLE,m.DEPT,m.EMP_RATING,max(m.EMP_RATING)
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_various_countries AS
SELECT EMP_ID,FIRST_NAME,LAST_NAME,COUNTRY,SALARY
FROM emp_record_table
WHERE SALARY>6000;

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