MYSQL CODING CHALLENGE

DAY:02/06/2025

SUBMITTED BY: YUVASHRI. S

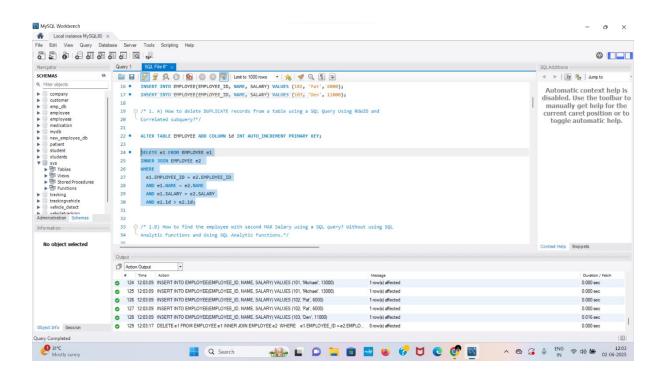
QUESTIONS

1. Consider below EMPLOYEE table as the source data

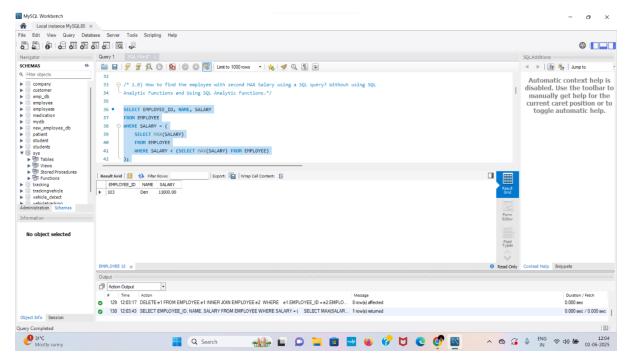
CREATE TABLE

EMPLOYEE (EMPLOYEE_ID INT, NAME VARCHAR2(20), SALARY DECIMAL(8,2));
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(100,'Jennifer',4400);
INSERT INTOEMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(100,'Jennifer',4400);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(101,'Michael',13000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(101,'Michael',13000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(101,'Michael',13000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(102,'Pat',6000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(102,'Pat',6000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(102,'Pat',6000);
INSERT INTO EMPLOYEE(EMPLOYEE_ID,NAME,SALARY) VALUES(103,'Den',11000);

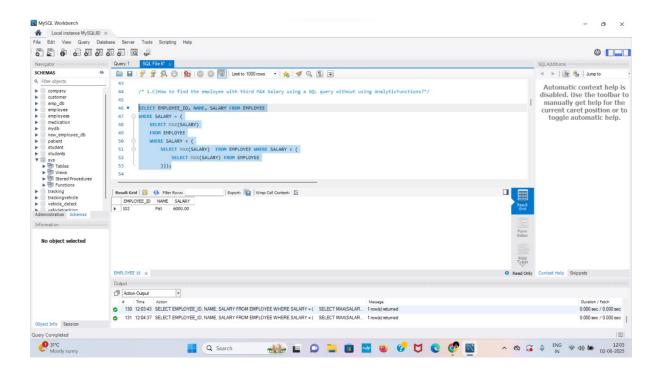
i) How to delete DUPLICATE records from a table using a SQL Query Using ROWID andCorrelated subquery?



1.ii) How to find the employee with second MAX Salary using a SQL query? Without using SQLAnalytic Functions and Using SQL Analytic Functions.



1.iii) How to find the employee with third MAX Salary using a SQL query without using Analytic Functions?



2. CREATE TABLE Departments (Department_ID number, Department_Name varchar(50));

INSERT INTO DEPARTMENTS VALUES('10', 'Administration');

INSERT INTO DEPARTMENTS VALUES('20', 'Marketing');

INSERT INTODEPARTMENTS VALUES('30', 'Purchasing');

INSERT INTO DEPARTMENTS VALUES ('40', 'Human Resources');

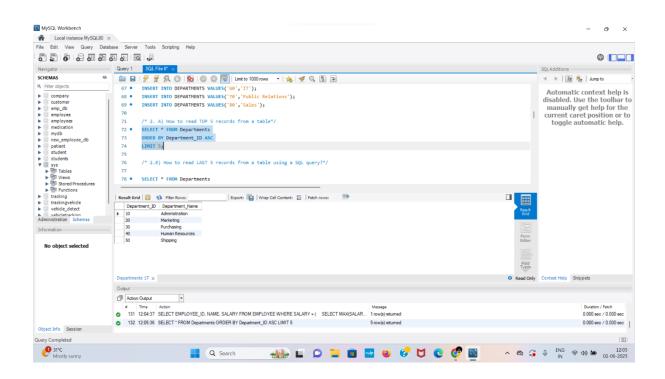
INSERT INTO DEPARTMENTS VALUES ('50', 'Shipping');

INSERT INTO DEPARTMENTS VALUES ('60', 'IT');

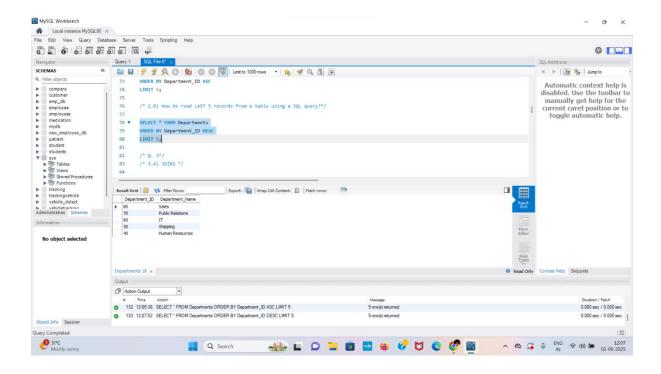
INSERT INTO DEPARTMENTS VALUES('70', 'Public Relations');

INSERT INTO DEPARTMENTS VALUES('80', 'Sales');

i)How to read TOP 5 records from a table using SQL query?

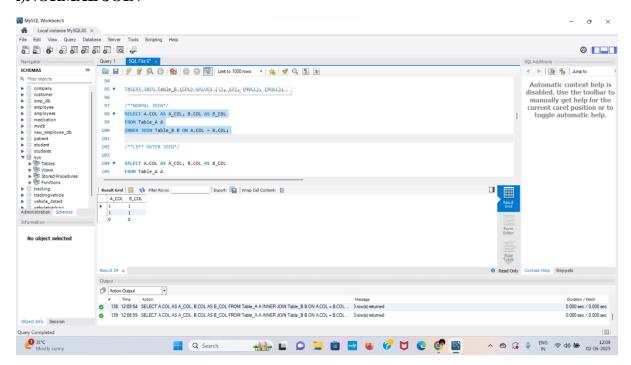


2.ii) How to read LAST 5 records from a table using a SQL query?

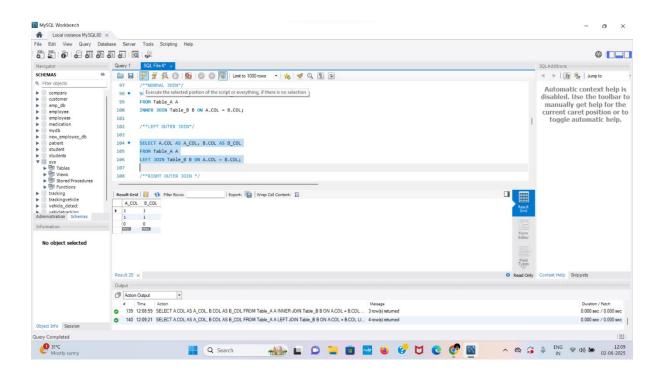


3. What is the result of NORMAL JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN, and FULL OUTER JOIN between tables A & B?

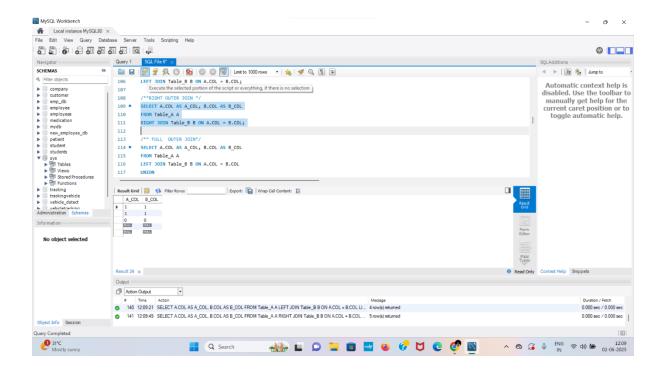
i)NORMAL JOIN



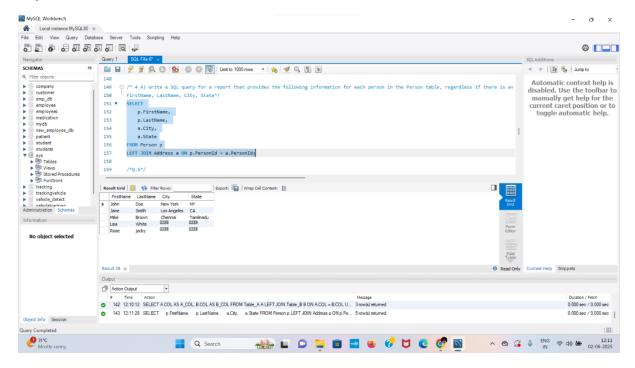
ii) LEFT OUTER JOIN



iii)RIGHT OUTER JOIN

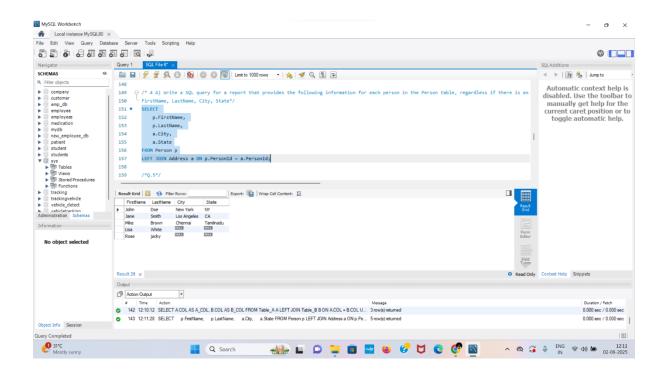


IV) FULL OUTER JOIN

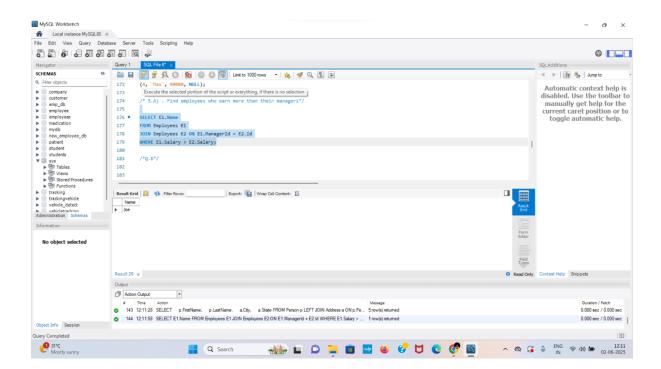


4. Write a SQL query for a report that provides the following information for each person in the Person table, regardless if there is an address for each of those people:

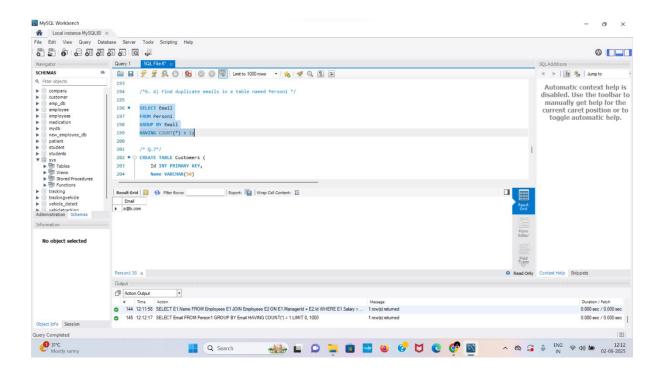
FirstName, LastName, City, State



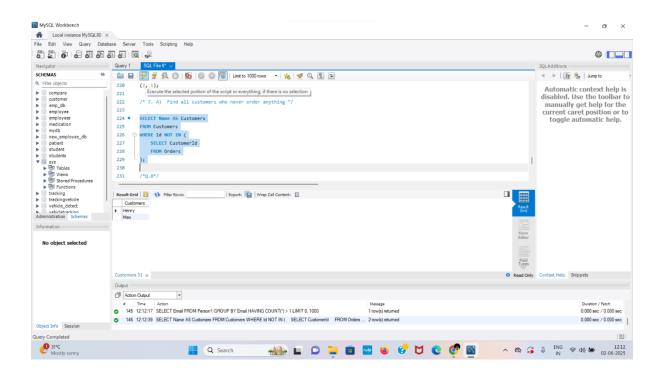
5. write a SQL query that finds out employees who earn more than their managers. For the above table, Joe is the only employee who earns more than his manager.



6. Write a SQL query to find all duplicate emails in a table named Person.



7. Suppose that a website contains two tables, the Customers table and the Orders table. Write a SQL query to find all customers who never order anything.



8. Given the Employee table, write a SQL query that finds out managers with at least 5 direct report. For the above table, your SQL query should return:

