**LIBRARY MANAGEMENT**

**(AN SQL PROJECT)**

/\*Display all the tables and Write the queries for the following :\*/

SELECT \* from Branch;

SELECT \* FROM EMPLOYEE;

SELECT \* FROM BOOKS;

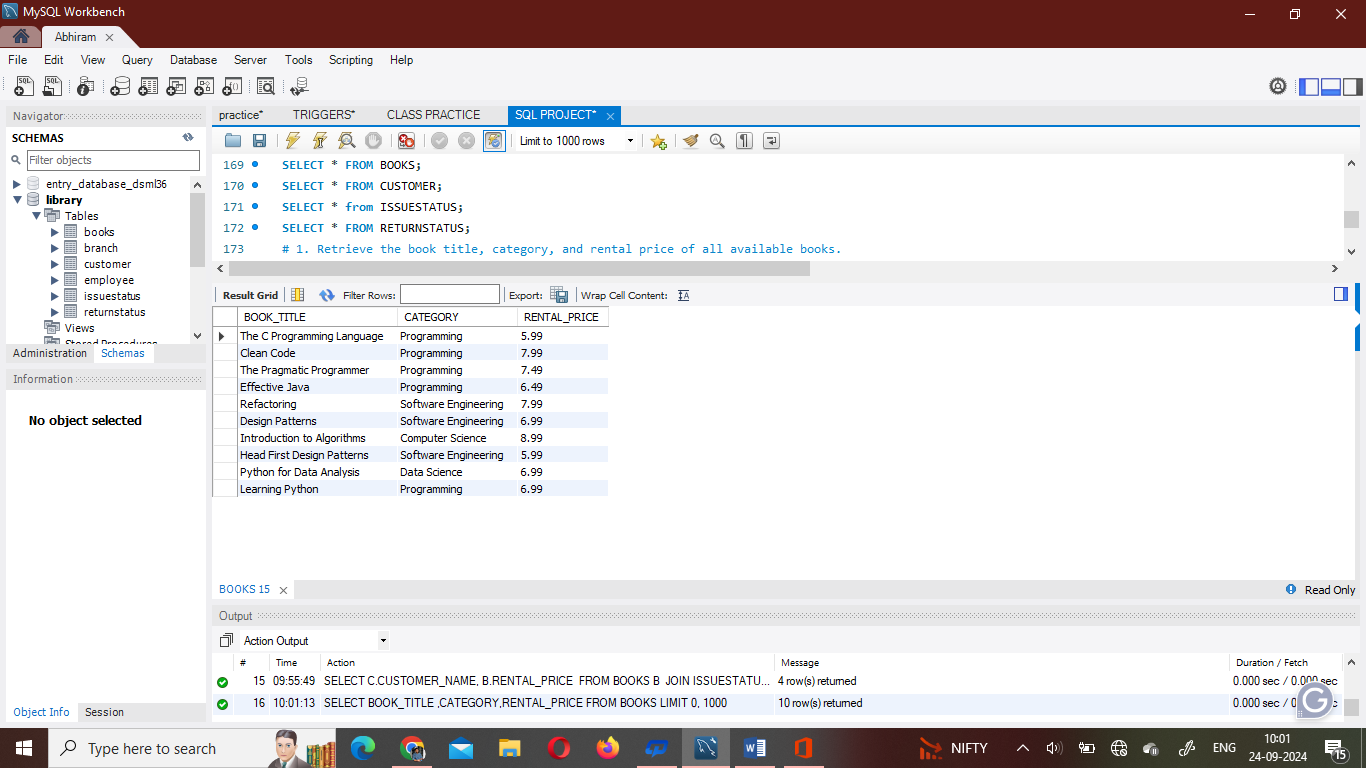
SELECT \* FROM CUSTOMER;

SELECT \* from ISSUESTATUS;

SELECT \* FROM RETURNSTATUS;

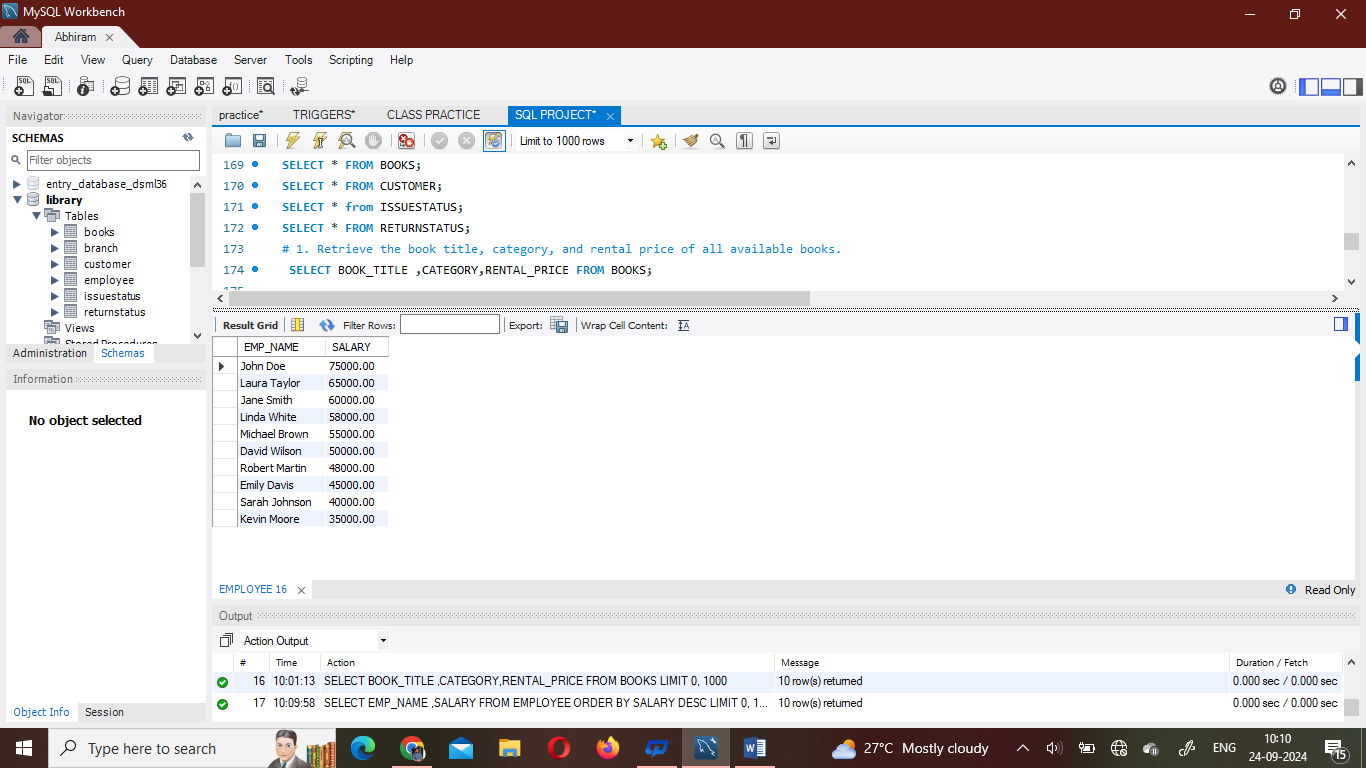
# 1. Retrieve the book title, category, and rental price of all available books.

SELECT BOOK\_TITLE ,CATEGORY,RENTAL\_PRICE FROM BOOKS;



# 2. List the employee names and their respective salaries in descending order of salary.

SELECT EMP\_NAME ,SALARY FROM EMPLOYEE ORDER BY SALARY DESC ;



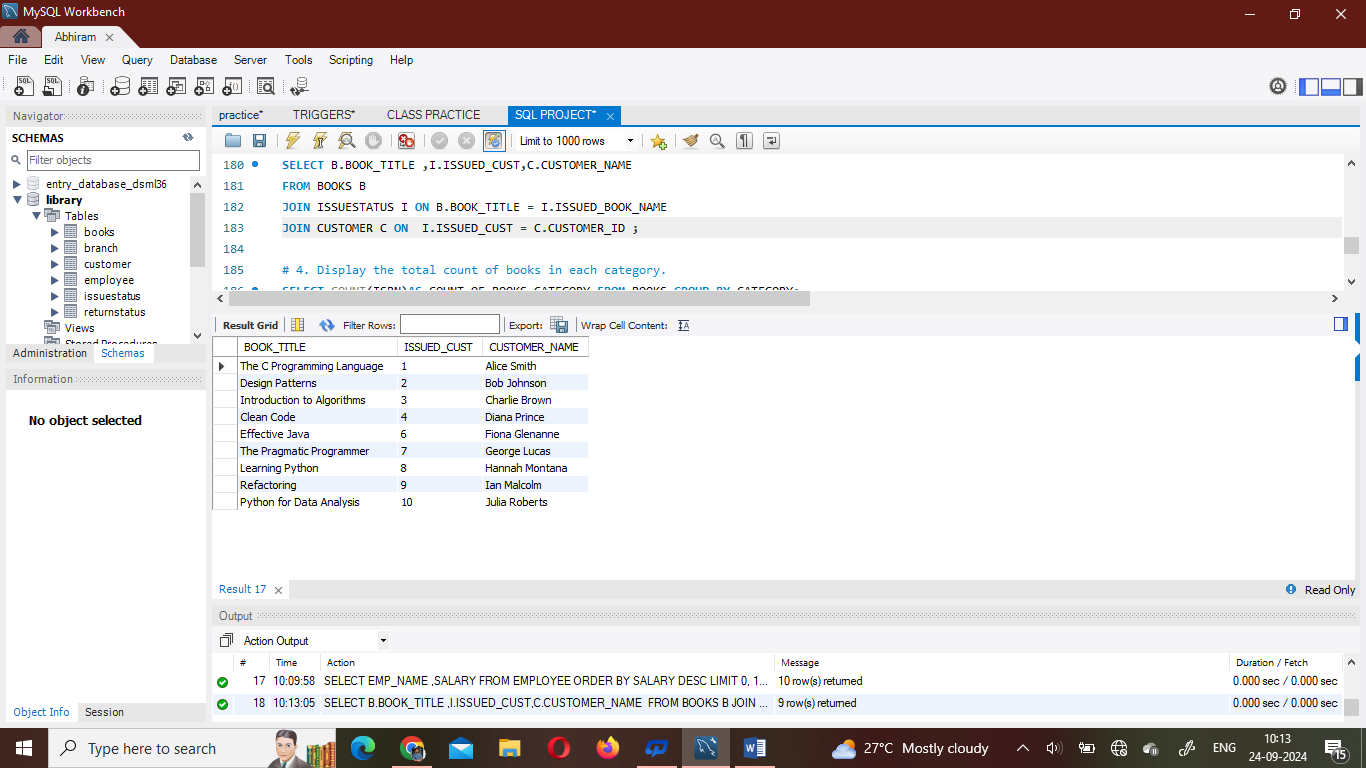
# 3. Retrieve the book titles and the corresponding customers who have issued those books.

SELECT B.BOOK\_TITLE ,I.ISSUED\_CUST,C.CUSTOMER\_NAME

FROM BOOKS B

JOIN ISSUESTATUS I ON B.BOOK\_TITLE = I.ISSUED\_BOOK\_NAME

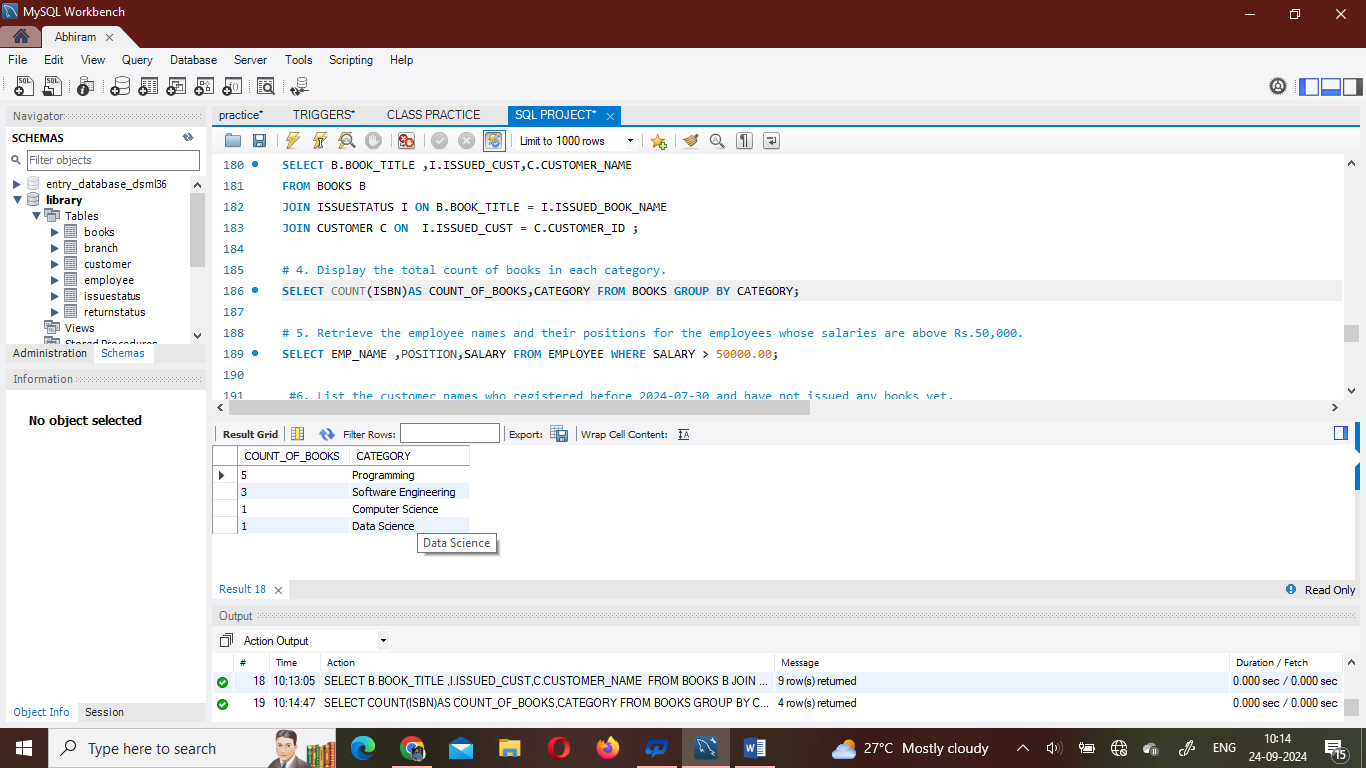
JOIN CUSTOMER C ON I.ISSUED\_CUST = C.CUSTOMER\_ID ;



# 4. Display the total count of books in each category.

SELECT COUNT(ISBN)AS COUNT\_OF\_BOOKS,CATEGORY FROM BOOKS

GROUP BY CATEGORY;

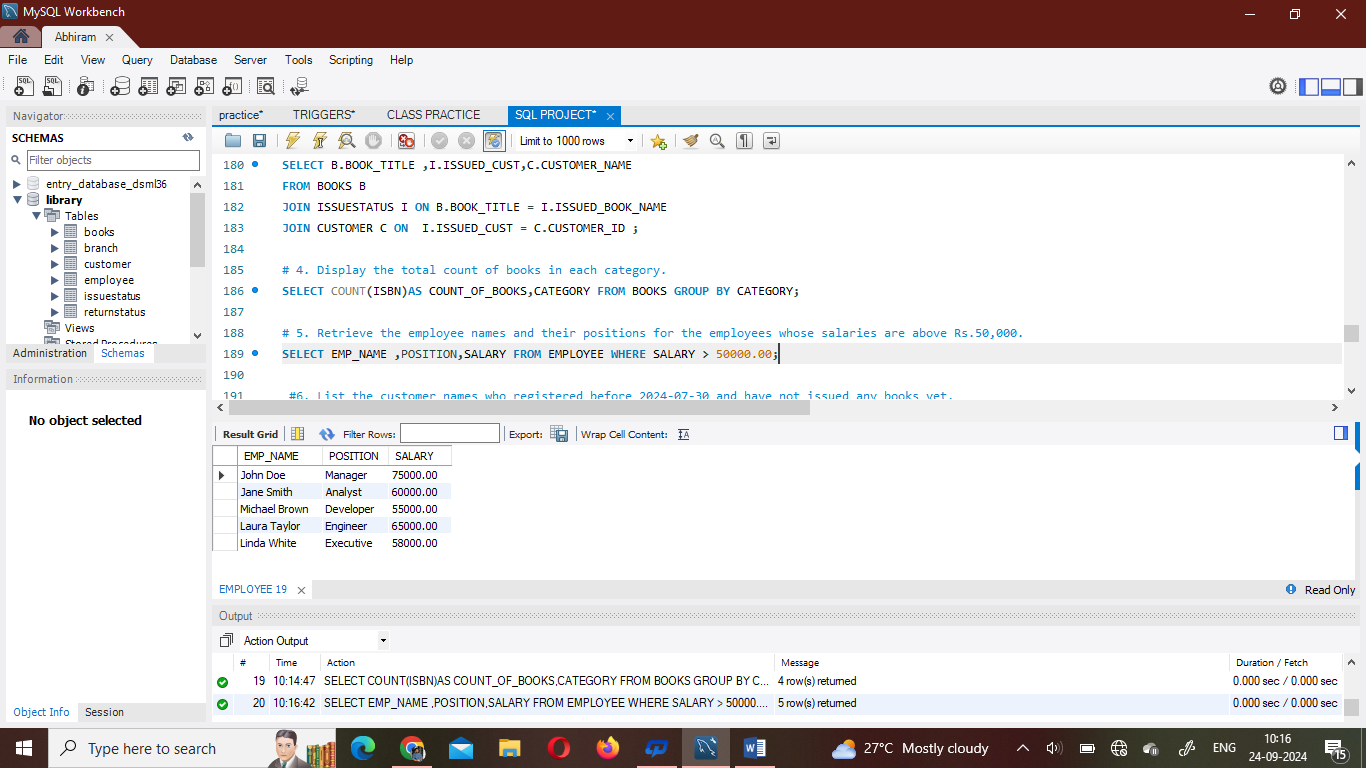


# 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.

SELECT EMP\_NAME ,POSITION,SALARY FROM EMPLOYEE

WHERE

SALARY > 50000.00;



#6. List the customer names who registered before 2024-07-30 and have not issued any books yet.

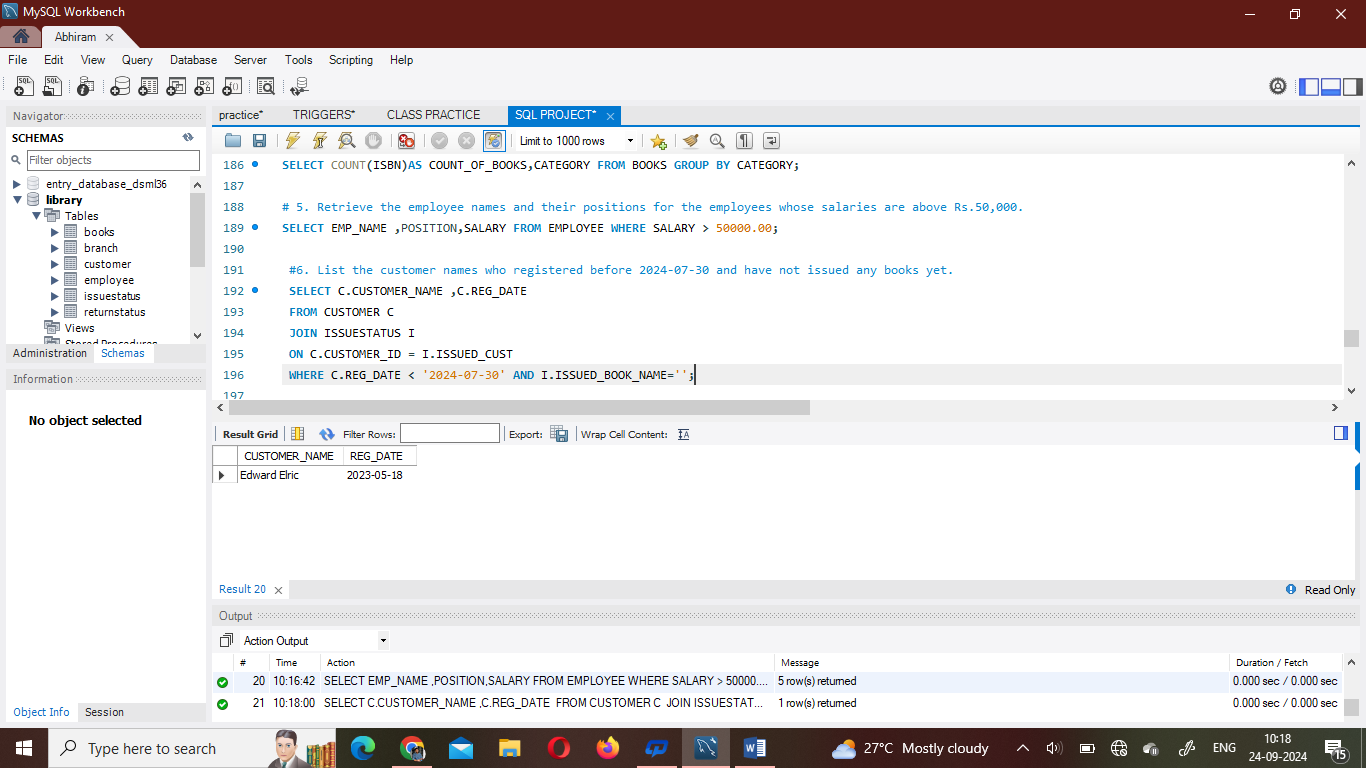
SELECT C.CUSTOMER\_NAME ,C.REG\_DATE

FROM CUSTOMER C

JOIN ISSUESTATUS I

ON C.CUSTOMER\_ID = I.ISSUED\_CUST

WHERE C.REG\_DATE < '2024-07-30' AND I.ISSUED\_BOOK\_NAME='';



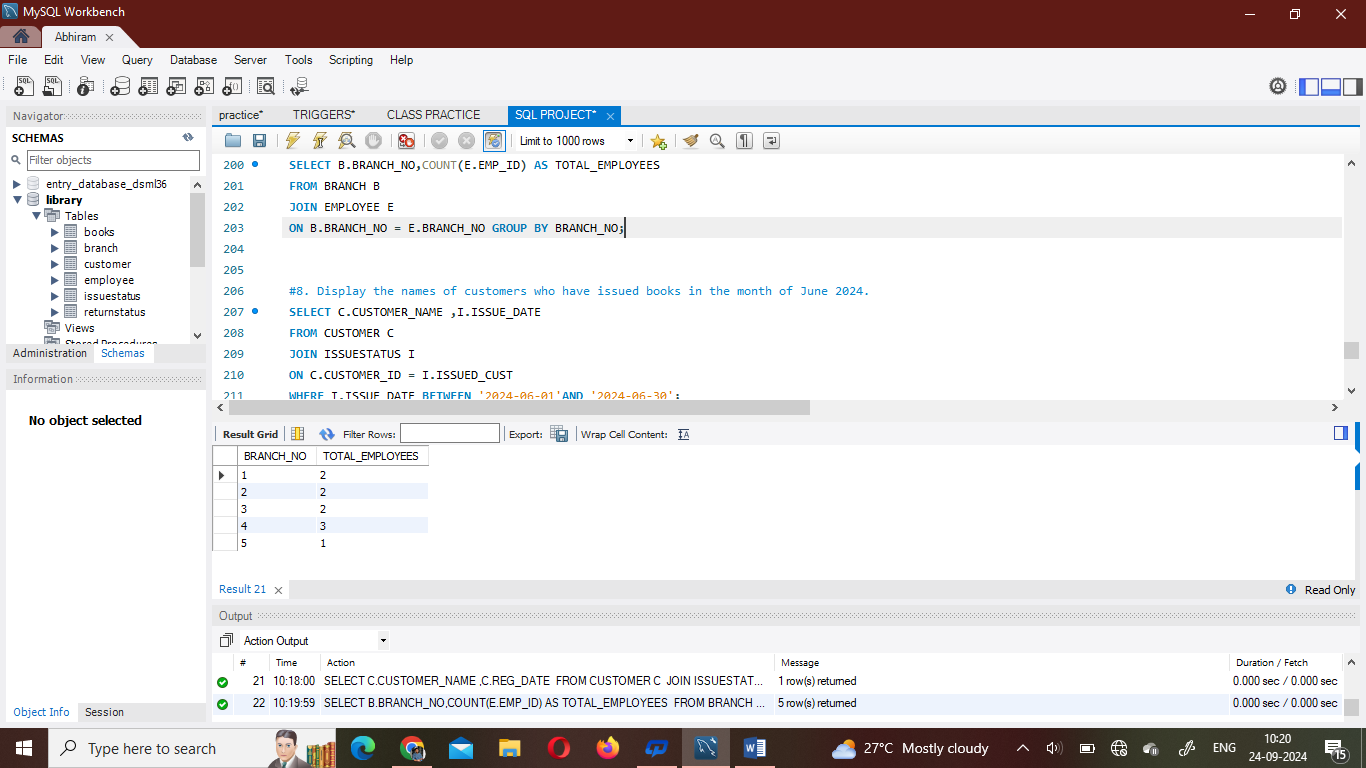
#7. Display the branch numbers and the total count of employees in each branch.

SELECT B.BRANCH\_NO,COUNT(E.EMP\_ID) AS TOTAL\_EMPLOYEES

FROM BRANCH B

JOIN EMPLOYEE E

ON B.BRANCH\_NO = E.BRANCH\_NO GROUP BY BRANCH\_NO;



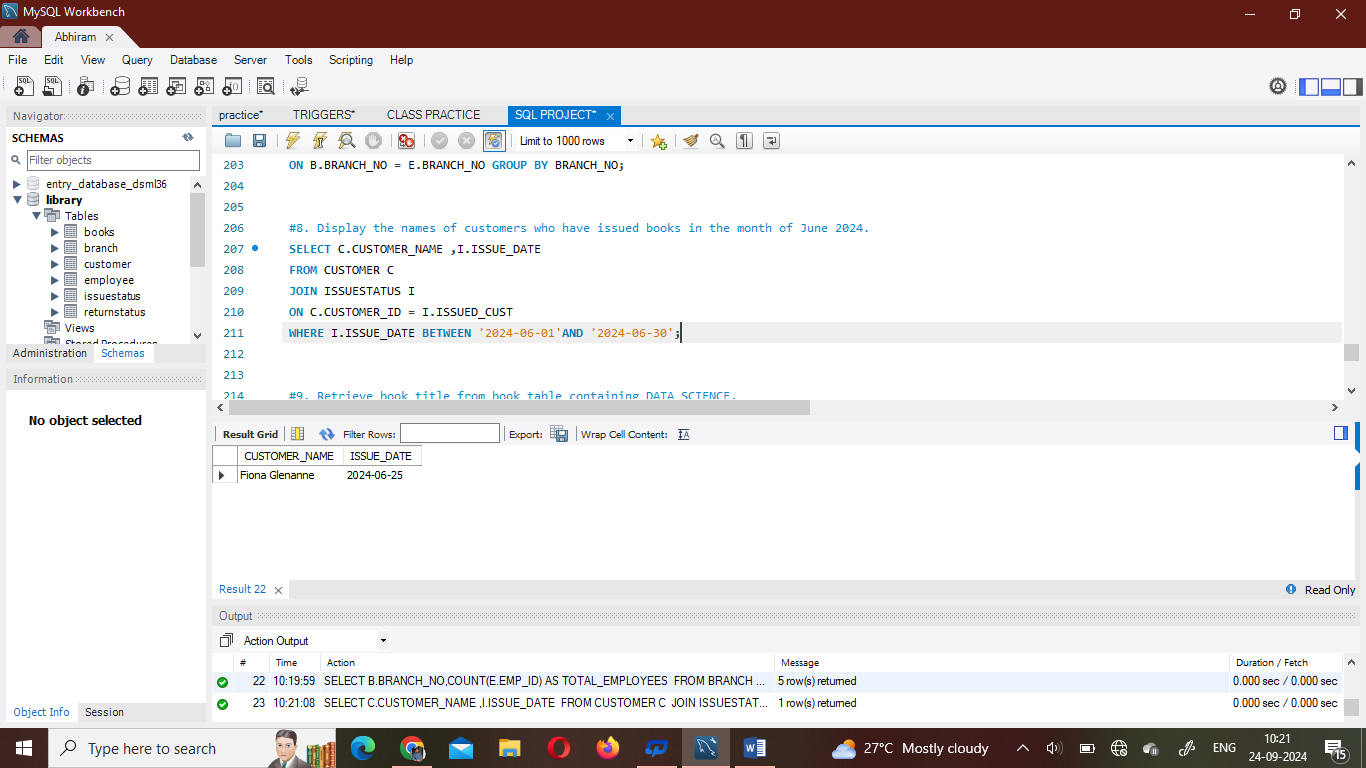
#8. Display the names of customers who have issued books in the month of June 2024.

SELECT C.CUSTOMER\_NAME ,I.ISSUE\_DATE

FROM CUSTOMER C

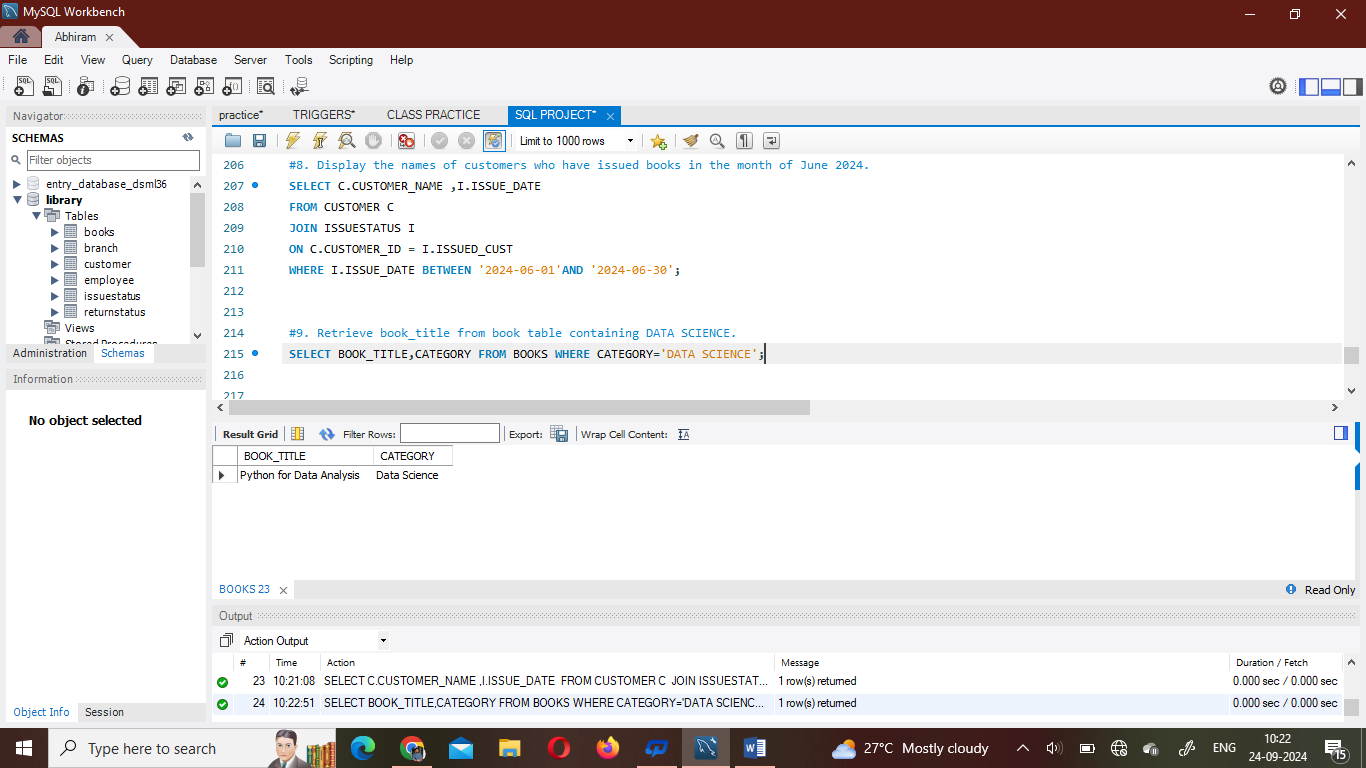
JOIN ISSUESTATUS I

ON C.CUSTOMER\_ID = I.ISSUED\_CUST WHERE I.ISSUE\_DATE BETWEEN '2024-06-01'AND '2024-06-30';



#9. Retrieve book\_title from book table containing DATA SCIENCE.

SELECT BOOK\_TITLE,CATEGORY FROM BOOKS

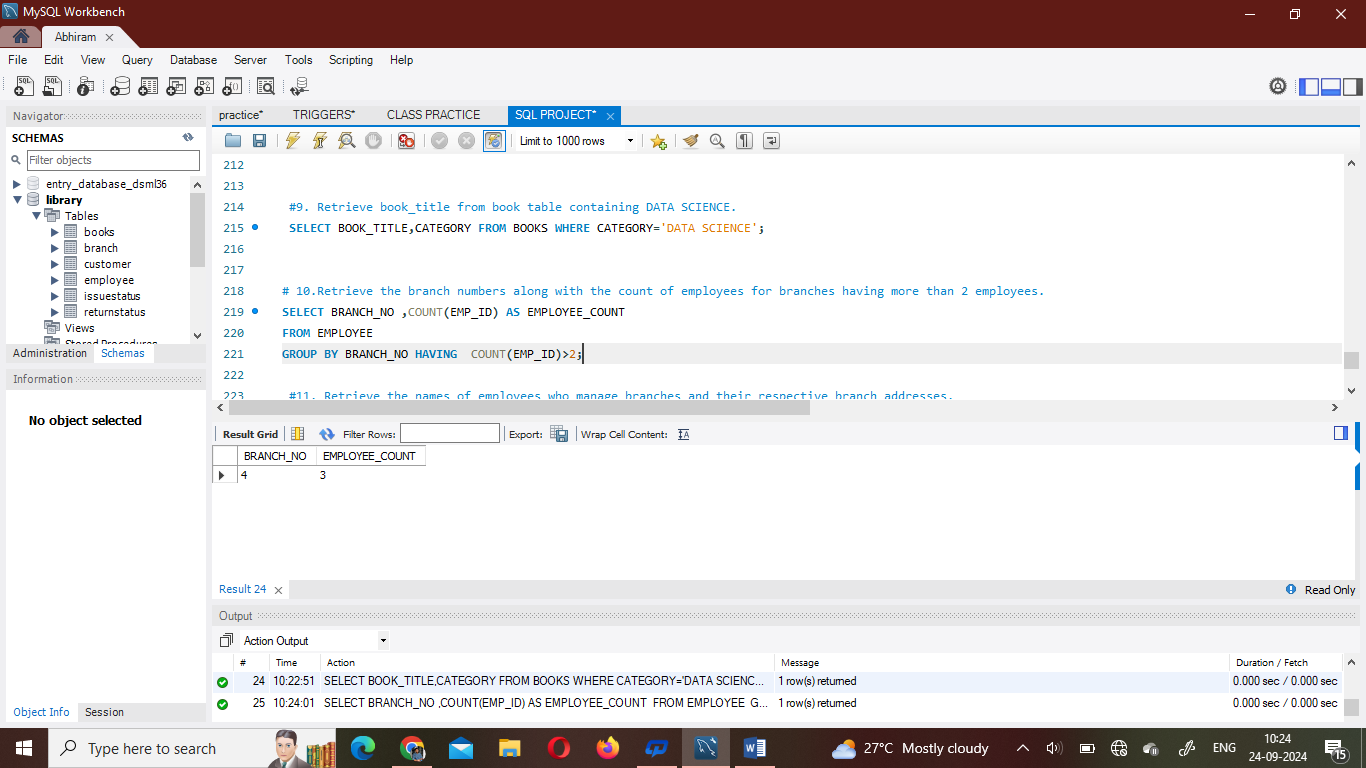
WHERE CATEGORY='DATA SCIENCE';

# 10.Retrieve the branch numbers along with the count of employees for branches having more than 2 employees.

SELECT BRANCH\_NO ,COUNT(EMP\_ID) AS EMPLOYEE\_COUNT

FROM EMPLOYEE

GROUP BY BRANCH\_NO HAVING COUNT(EMP\_ID)>2;



#11. Retrieve the names of employees who manage branches and their respective branch addresses.

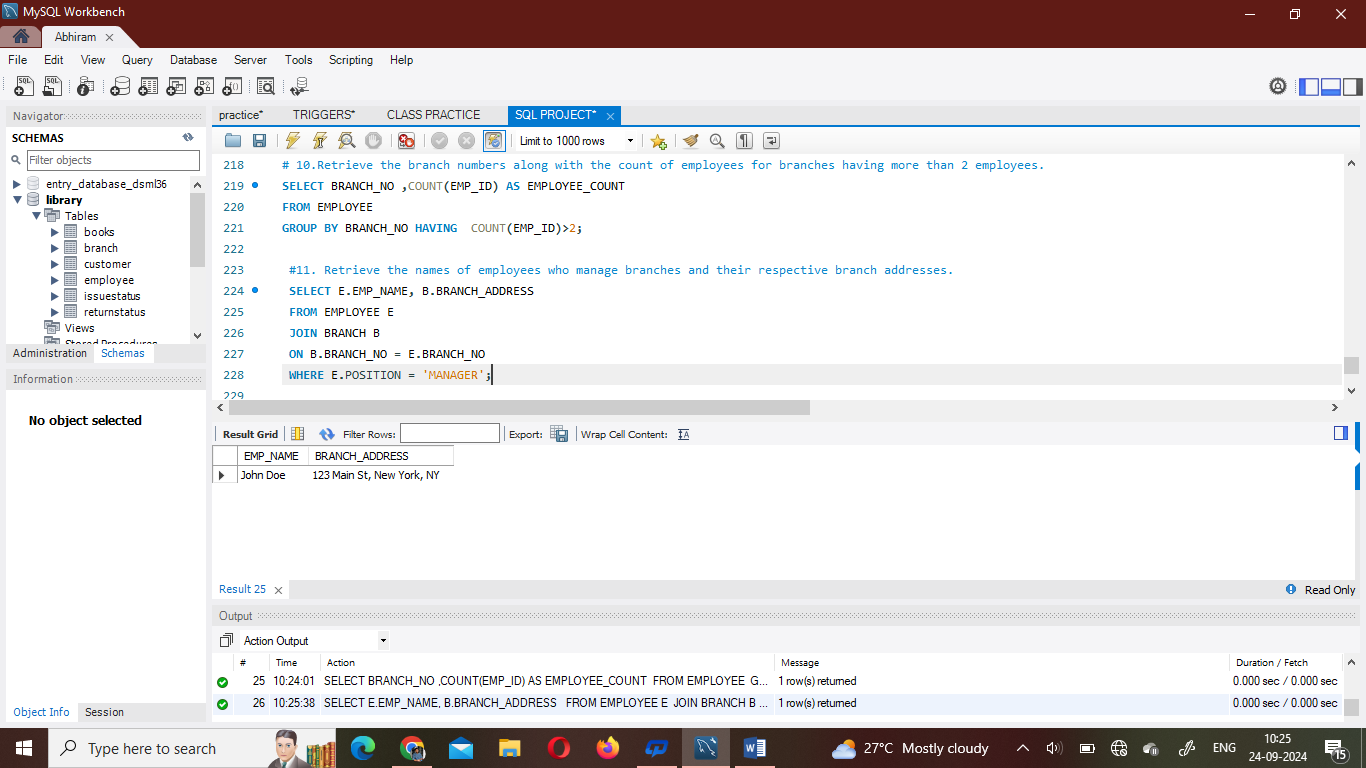
SELECT E.EMP\_NAME, B.BRANCH\_ADDRESS

FROM EMPLOYEE E

JOIN BRANCH B

ON B.BRANCH\_NO = E.BRANCH\_NO

WHERE E.POSITION = 'MANAGER';



#12. Display the names of customers who have issued books with a rental price higher than Rs.7.

SELECT C.CUSTOMER\_NAME, B.RENTAL\_PRICE

FROM BOOKS B

JOIN ISSUESTATUS I ON B.BOOK\_TITLE = I.ISSUED\_BOOK\_NAME

JOIN CUSTOMER C ON I.ISSUED\_CUST = C.CUSTOMER\_ID

WHERE B.RENTAL\_PRICE > 7;

