

Project Description

This MySQL project is a small scale model of Library Management systems and its database name is **library** its six table are:

1. Branch 2. Employee 3. Books 4. Customer 5. IssueStatus 6. ReturnStatus

Issue_date

1. Branch	2. <u>Employee</u>	3. <u>Books</u>
Branch_no Set as PRIMARY KEY Manager_Id Branch_address Contact_no	Emp_Id Set as PRIMARY KEY Emp_name Position Salary Branch_no Set as FOREIGN KEY and it refer Branch_no in Branch table	ISBN Set as PRIMARY KEY Book_title Category Rental_Price Status [Give yes if book available and no if book not available] Author Publisher
4. <u>Customer</u>	5. <u>IssueStatus</u>	6. <u>ReturnStatus</u>
Customer_Id Set as PRIMARY KEY Customer_name Customer_address Reg_date	Issue_Id Set as PRIMARY KEY Issued_cust Set as FOREIGN KEY and it refer customer_id in CUSTOMER table Issued_book_name	Return_Id Set as PRIMARY KEY Return_cust Return_book_name Return_date

Isbn_book Set as FOREIGN KEY and it

should refer isbn in **BOOKS** table

Isbn_book2 Set as FOREIGN KEY and

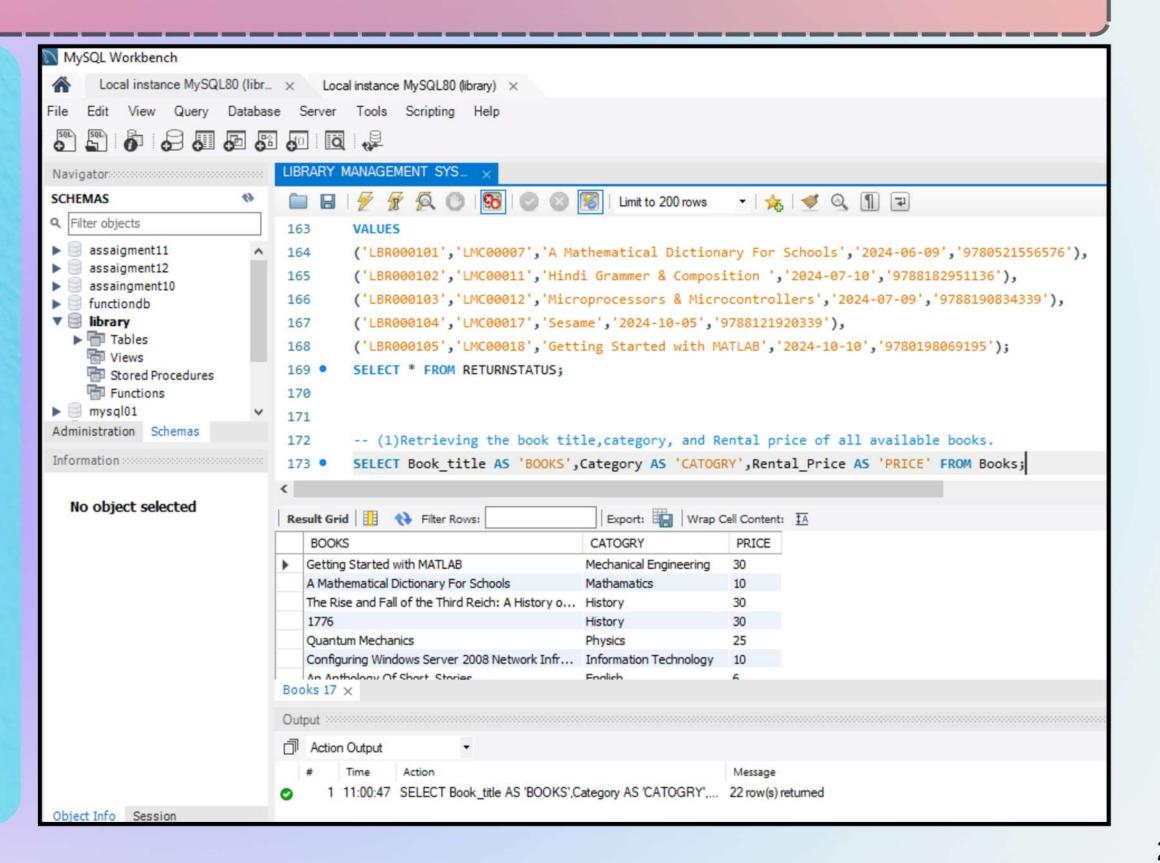
it should refer isbn in **BOOKS** table



SELECT Book_title AS 'BOOKS', Category AS 'CATOGRY', Rental_Price AS 'PRICE' FROM Books;

MySQL Query Exercise

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

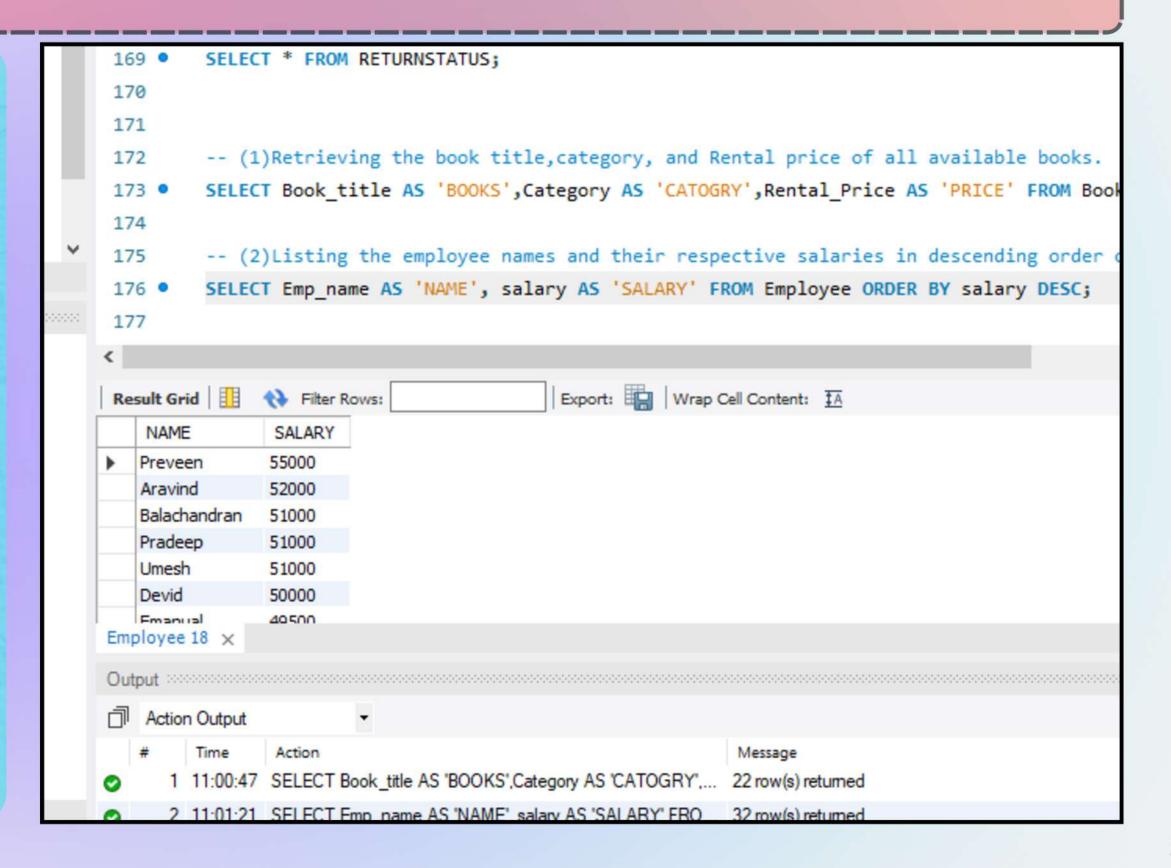




SELECT Emp_name AS 'NAME', salary AS 'SALARY' FROM Employee ORDER BY salary DESC;

MySQL Query Exercise

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



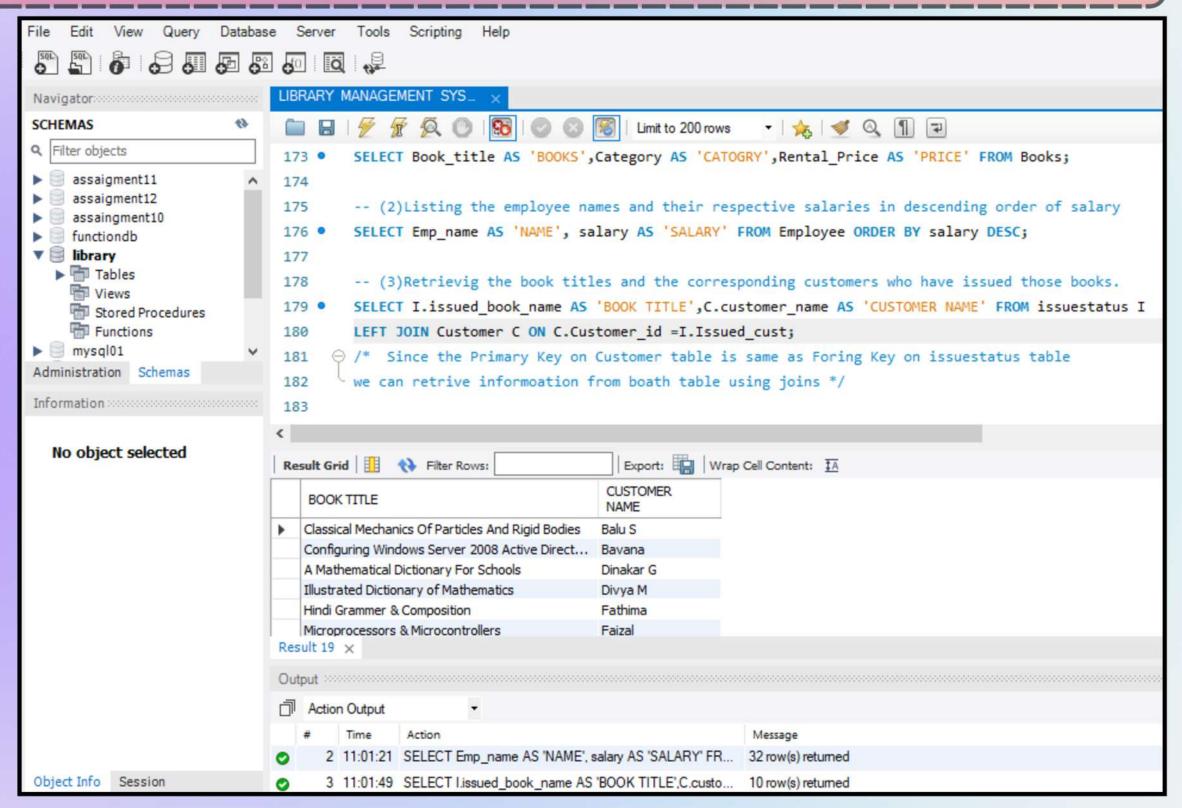


SELECT I.issued_book_name AS 'BOOK TITLE',C.customer_name AS 'CUSTOMER NAME' FROM issuestatus I

LEFT JOIN Customer C ON C.Customer_id =I.Issued_cust;

MySQL Query Exercise

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

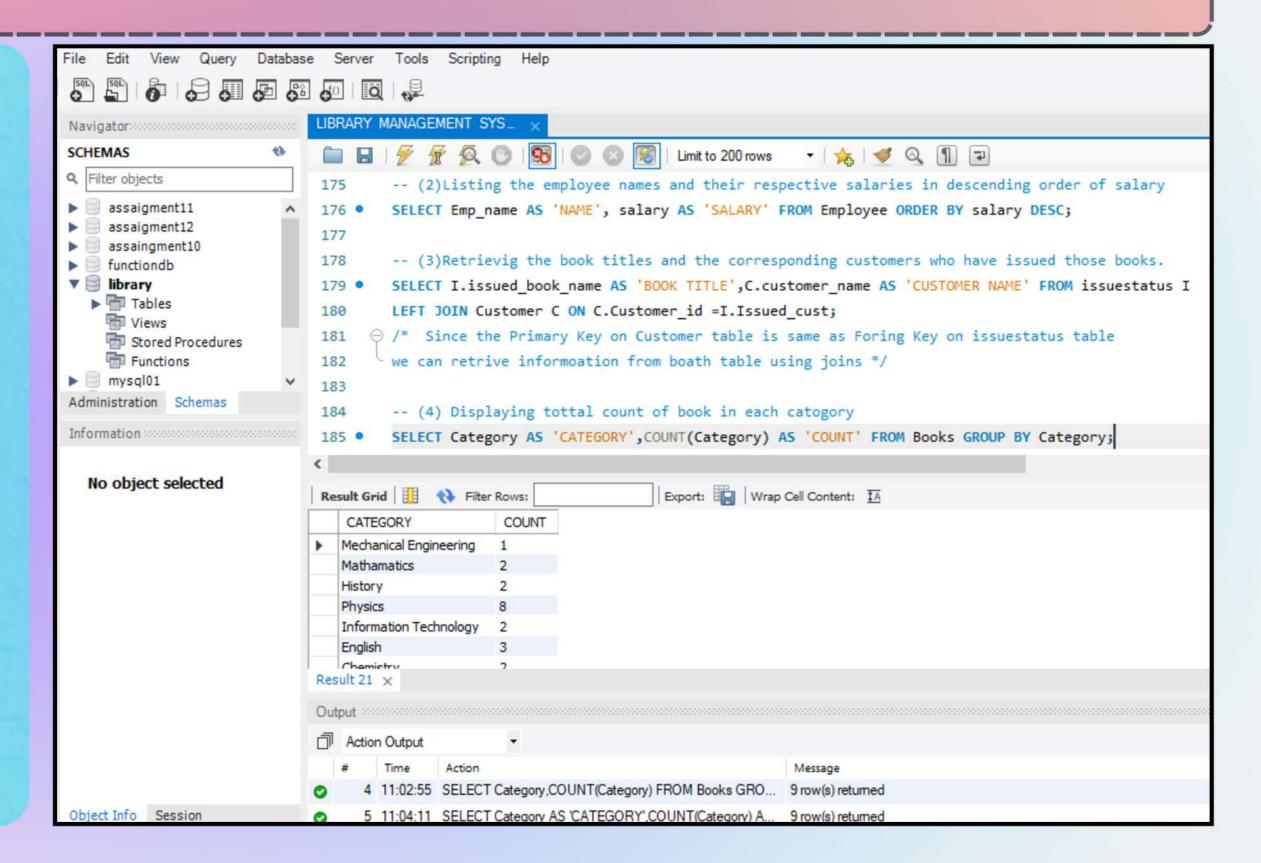




SELECT Category AS 'CATEGORY', COUNT(Category) AS 'COUNT' FROM Books GROUP BY Category;

MySQL Query Exercise

Display the total count of books in each category.

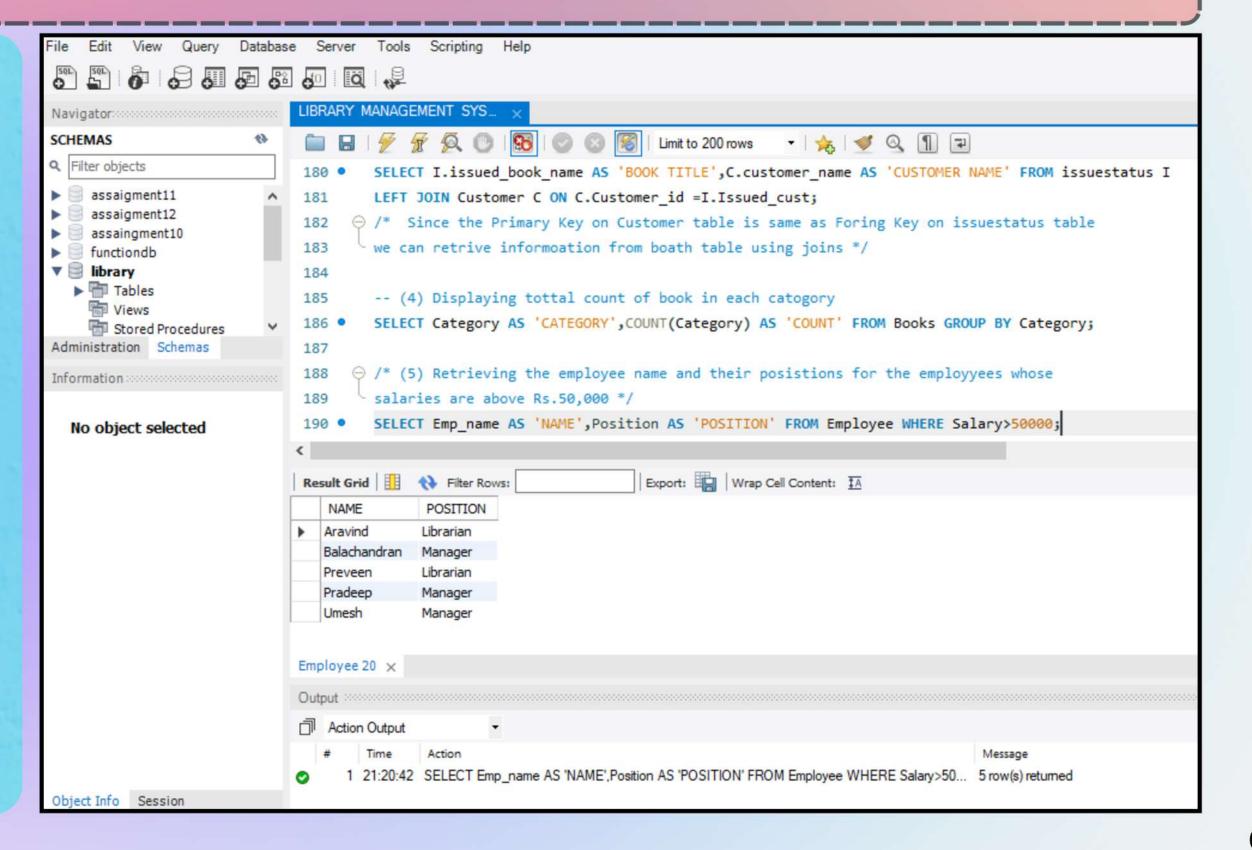




SELECT Emp_name AS 'NAME', Position AS 'POSITION' FROM Employee WHERE Salary>50000;

MySQL Query Exercise

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



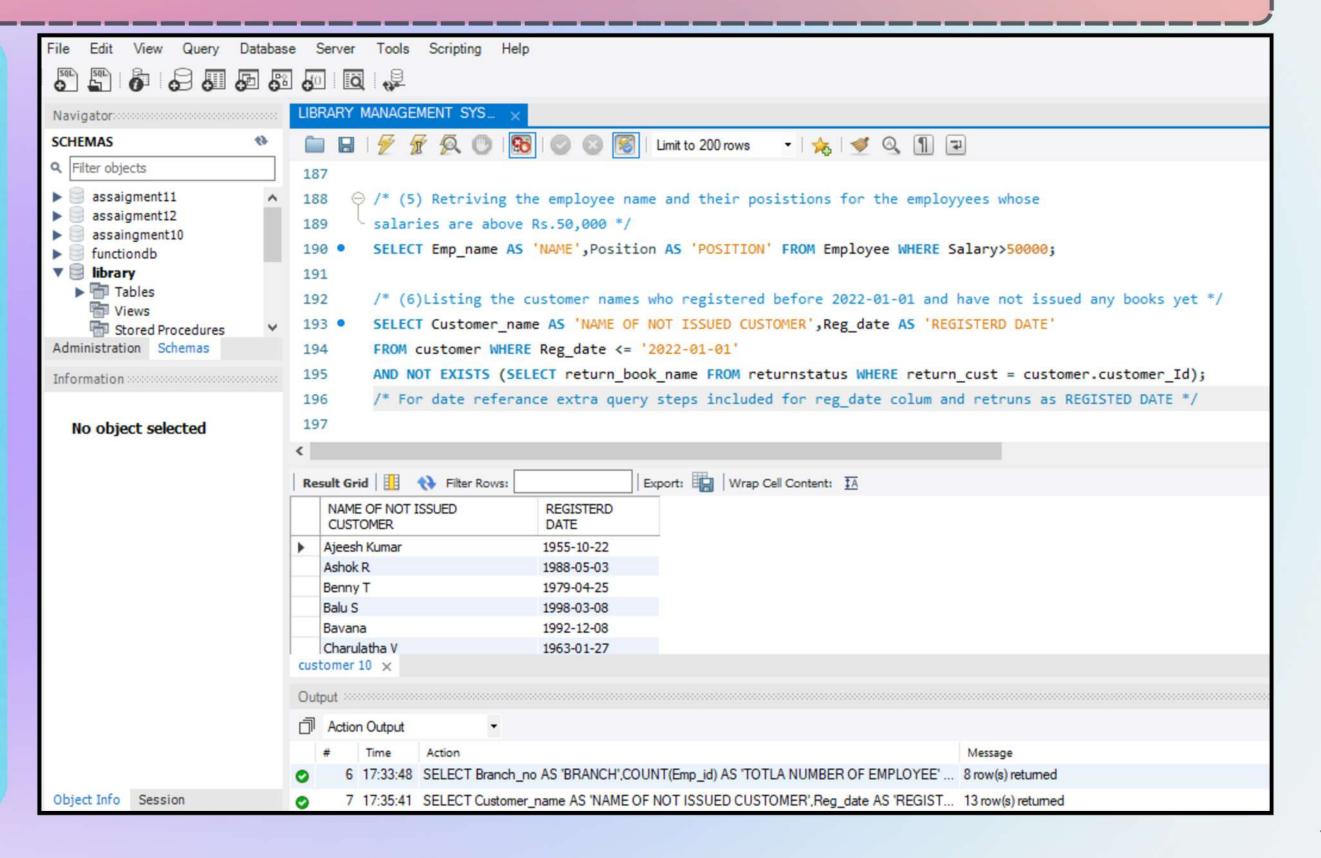


SELECT Customer_name AS 'NAME OF NOT ISSUED CUSTOMER',Reg_date AS 'REGISTERD DATE'
FROM customer WHERE Reg_date <= '2022-01-01'

AND NOT EXISTS (SELECT return_book_name FROM returnstatus WHERE return_cust = customer.customer_Id);

MySQL Query Exercise

List the customer names who registered before 2022-01-01 and have not issued any books yet.



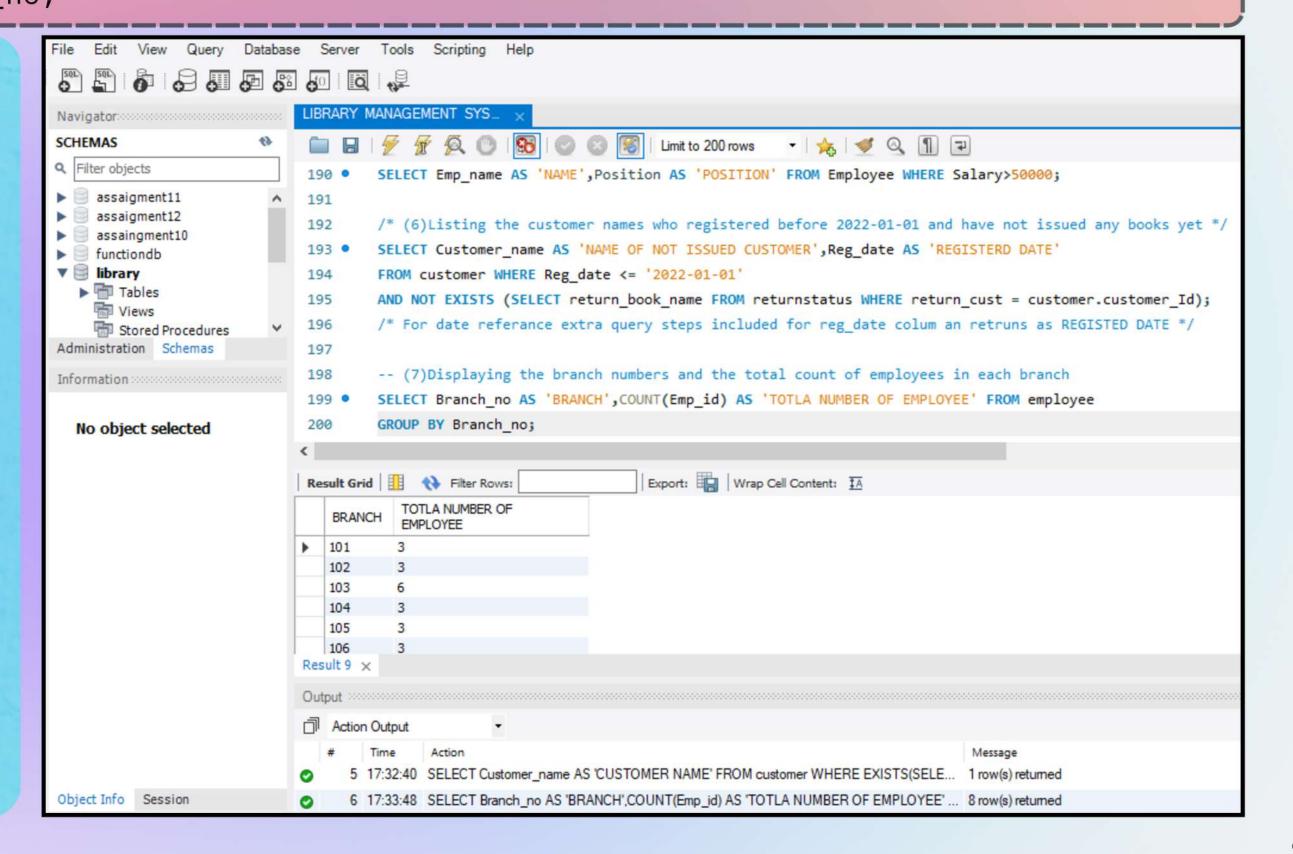


SELECT Branch_no AS 'BRANCH', COUNT(Emp_id) AS 'TOTLA NUMBER OF EMPLOYEE' FROM employee

GROUP BY Branch_no;

MySQL Query Exercise

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





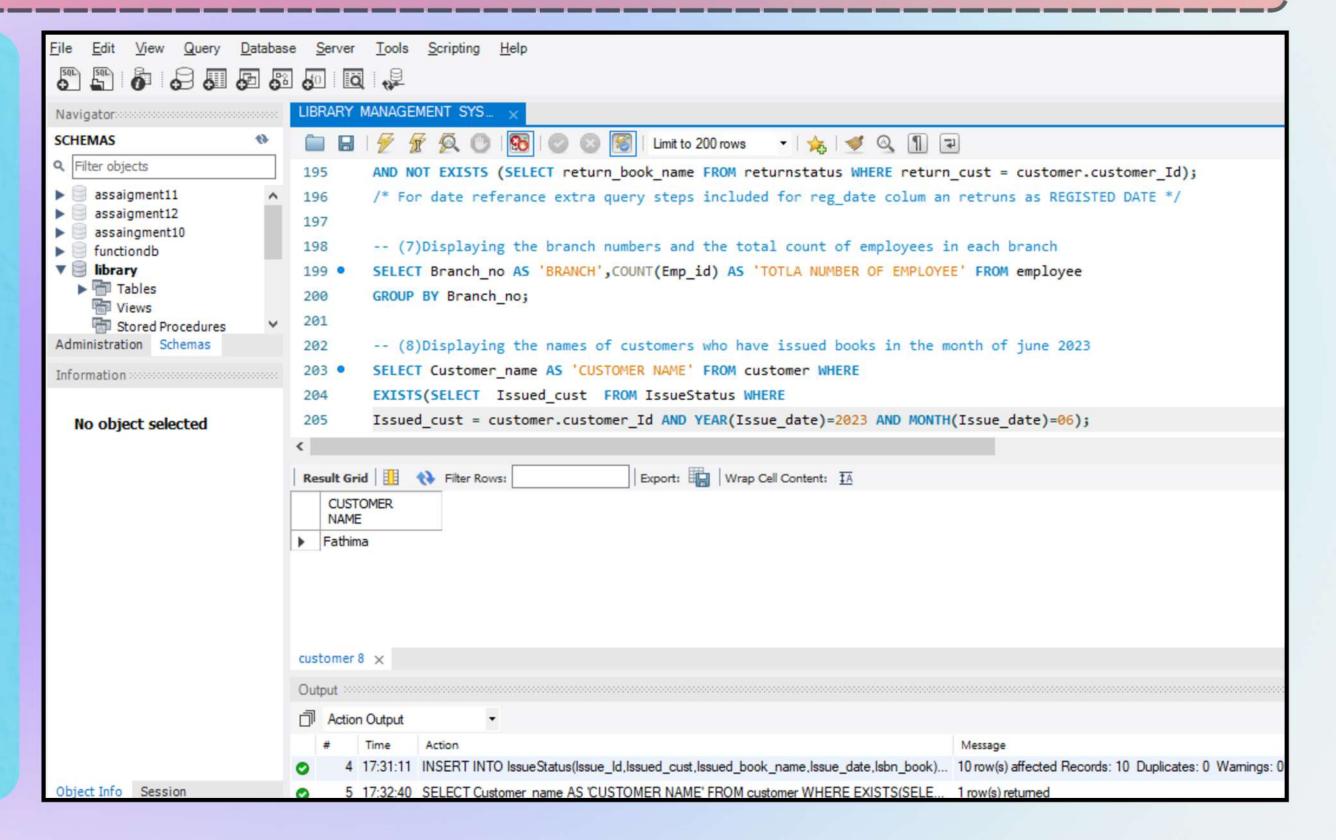
SELECT Customer_name AS 'CUSTOMER NAME' FROM customer WHERE

EXISTS(SELECT Issued_cust FROM IssueStatus WHERE

Issued_cust = customer.customer_Id AND YEAR(Issue_date)=2023 AND MONTH(Issue_date)=06);

MySQL Query Exercise

Display the names of customers who have issued books in the month of June 2023.

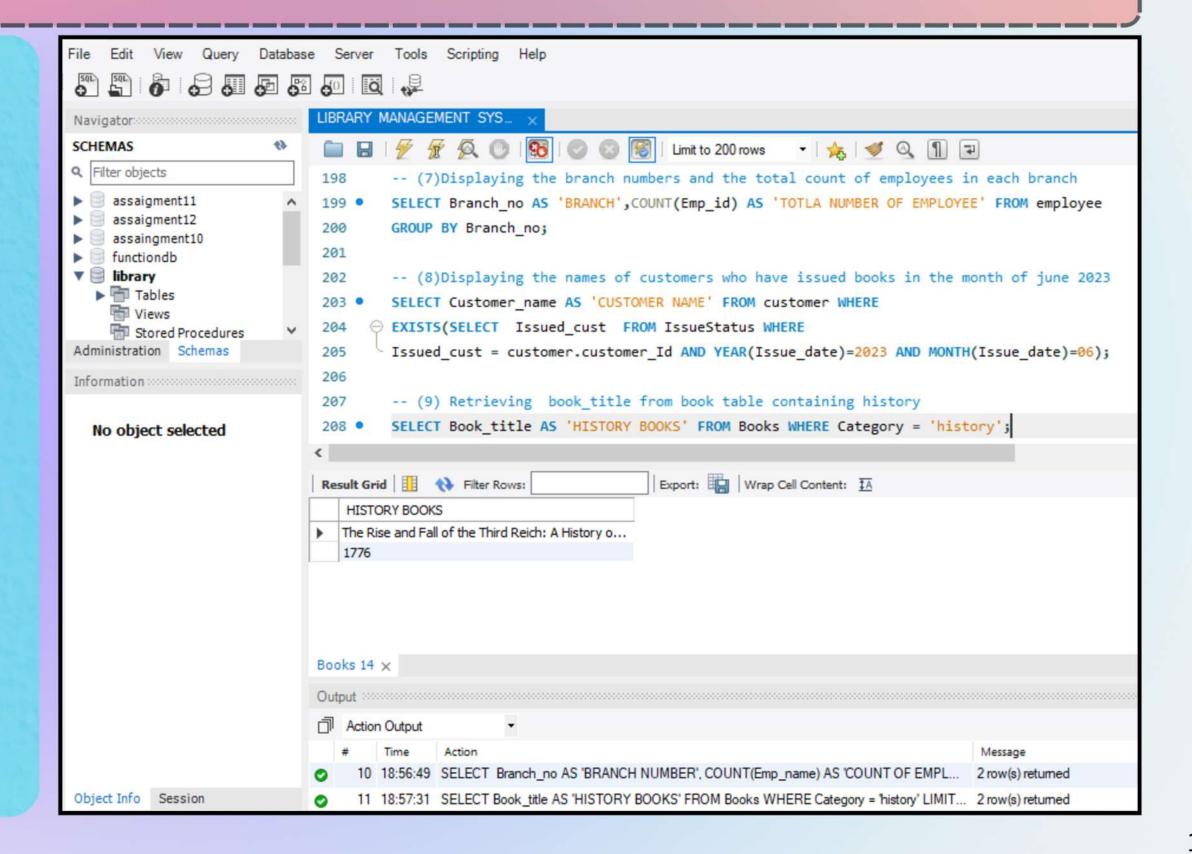




SELECT Book_title AS 'HISTORY BOOKS' FROM Books WHERE Category =
'history';

MySQL Query Exercise

Retrieve book_title from book table containing history.

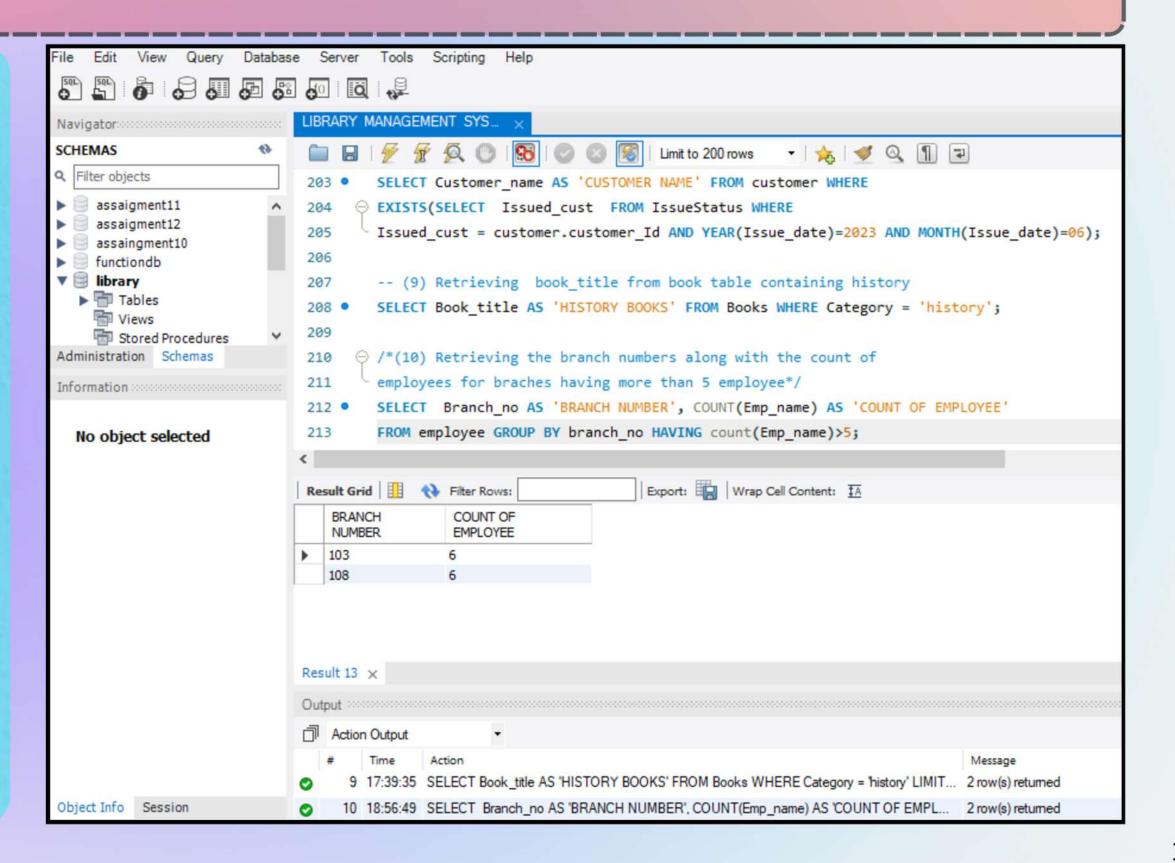




SELECT Branch_no AS 'BRANCH NUMBER', COUNT(Emp_name) AS 'COUNT OF EMPLOYEE' FROM employee GROUP BY branch_no HAVING count(Emp_name)>5;

MySQL Query Exercise

Retrieve the branch numbers along with the count of employees for branches having more than 5 employees



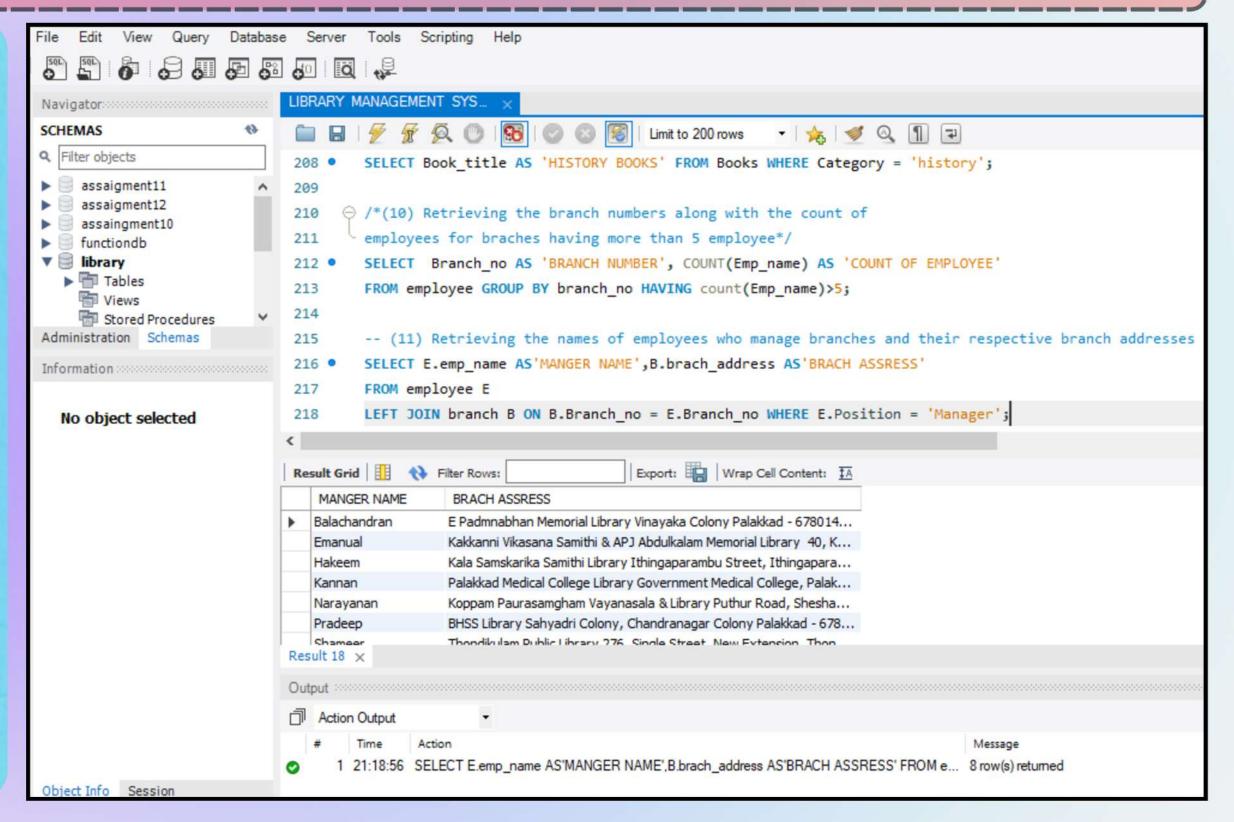


SELECT E.emp_name AS'MANGER NAME',B.brach_address AS'BRACH ASSRESS' FROM employee E

LEFT JOIN branch B ON B.Branch_no = E.Branch_no WHERE E.Position = 'Manager';

MySQL Query Exercise

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

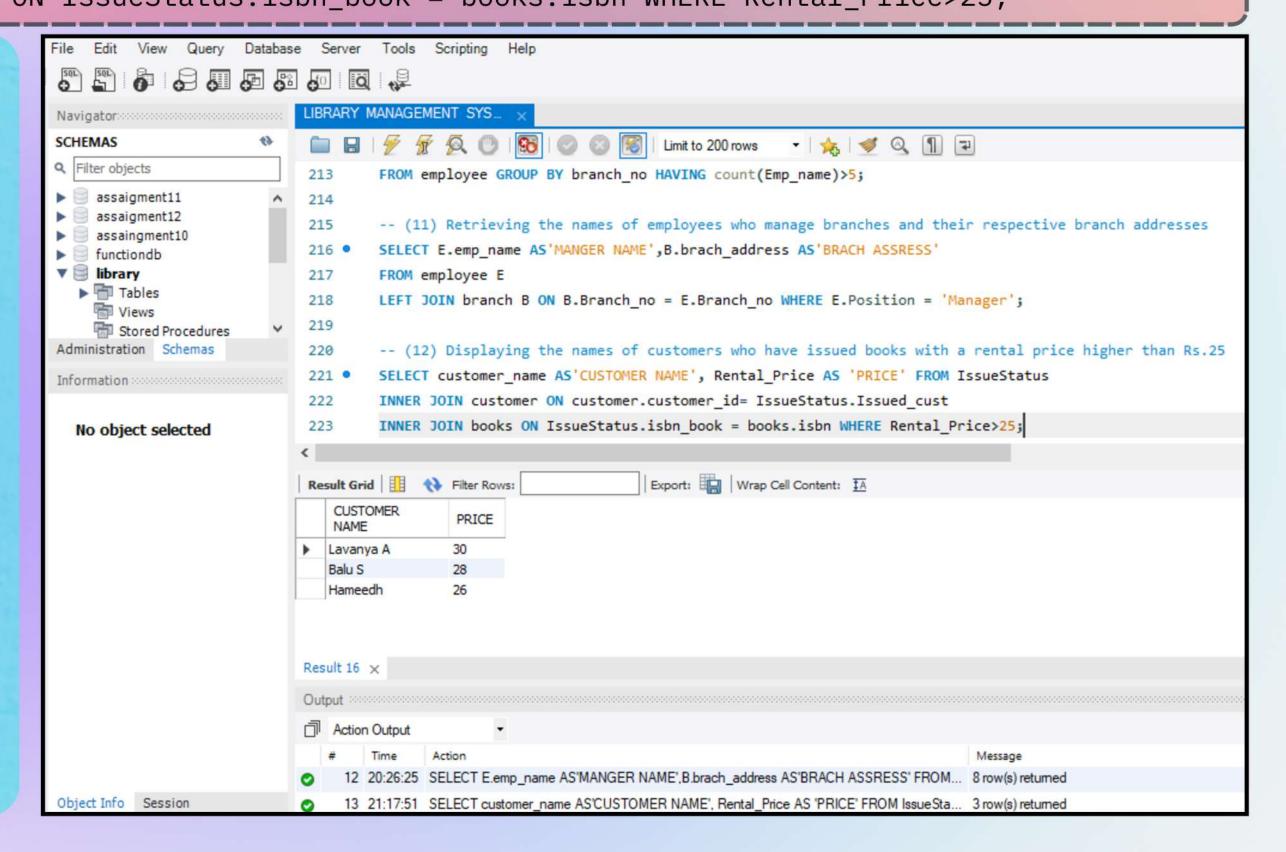




SELECT customer_name AS'CUSTOMER NAME', Rental_Price AS 'PRICE' FROM IssueStatus
INNER JOIN customer ON customer.customer_id= IssueStatus.Issued_cust
INNER JOIN books ON IssueStatus.isbn_book = books.isbn WHERE Rental_Price>25;

MySQL Query Exercise

Display the names of customers who have issued books with a rental price higher than Rs. 25.



THANK YOU

By Sreeprathap



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