Topic: Library Management System

Question

You are going to build a project based on the Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

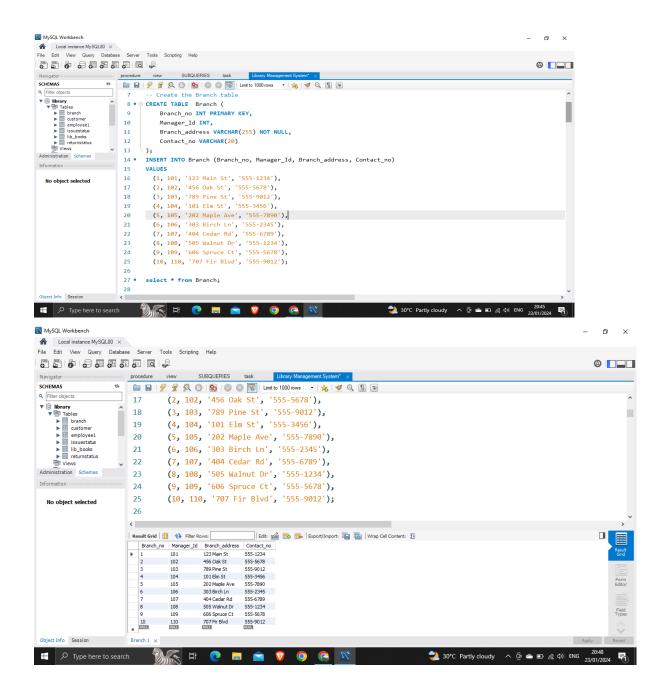
Create a database named library and the following TABLES in the database:

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

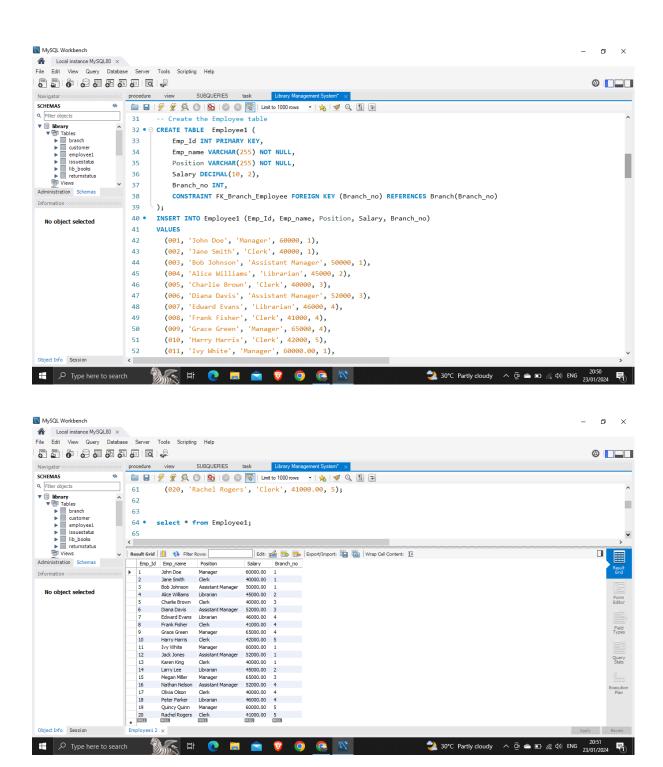
Answer

- 1.Branch Table: Stores information about different branches of the library, including branch numbers, manager IDs, addresses, and contact numbers.
- 2.Employee Table: Manages details of library staff, such as employee IDs, names, positions, salaries, and the branch to which they are assigned.
- 3.Books Table: Contains details about the books available in the library, including ISBN, book title, category, rental price, availability status, author, and publisher.
- 4. Customer Table: Stores information about library patrons, including customer IDs, names, addresses, and registration dates.
- 5.IssueStatus Table: Records details about book issuances, including issuance IDs, customer IDs, issued book names, and issuance dates.
- 6.ReturnStatus Table: Manages information about book returns, including return IDs, customer IDs, returned book names, return dates, and ISBNs.

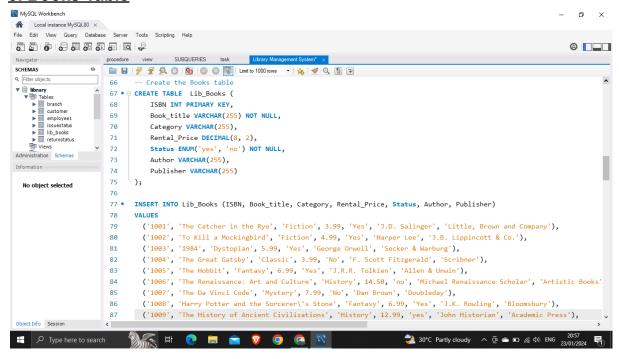
1. Branch Table

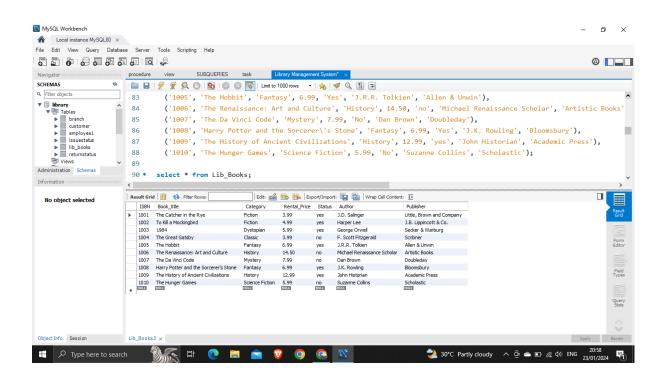


2. Employee Table

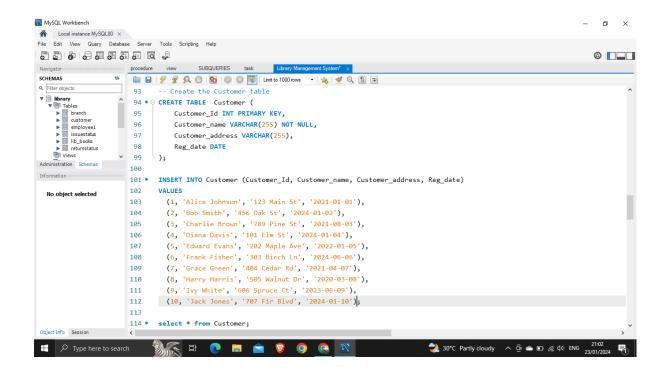


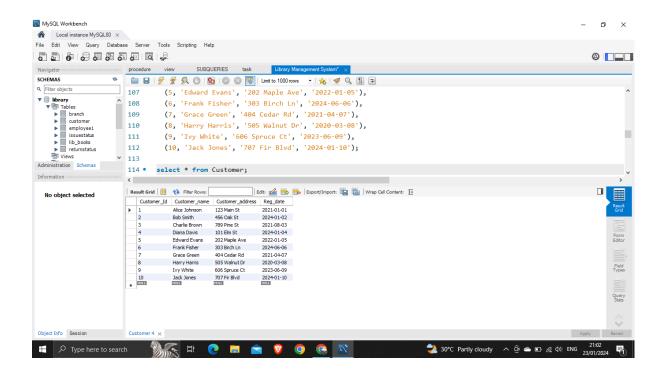
3. Books Table



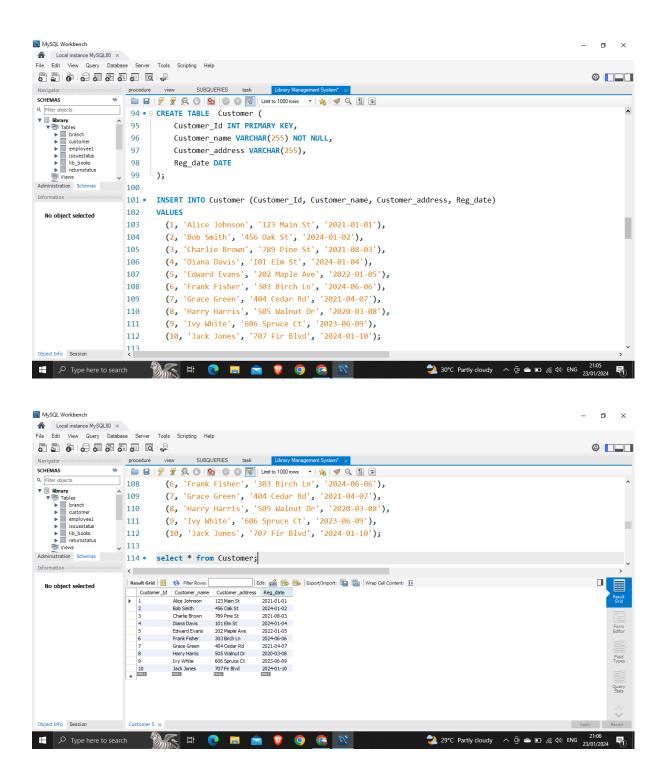


4. Customer Table

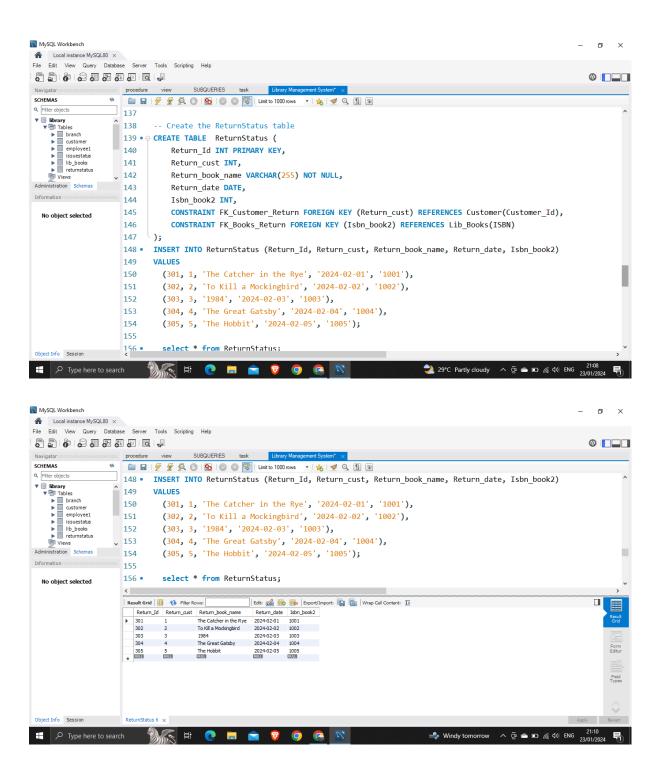




5. IssueStatus Table

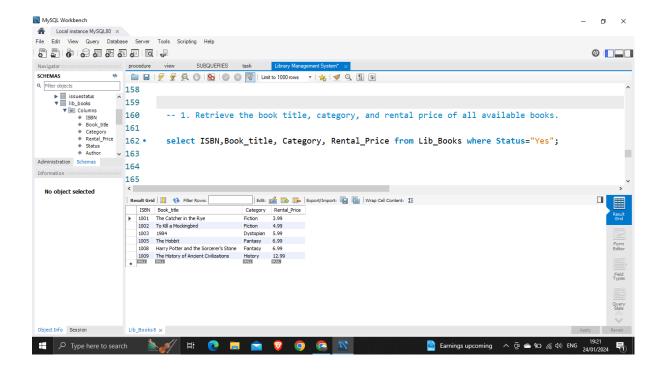


6. ReturnStatus Table

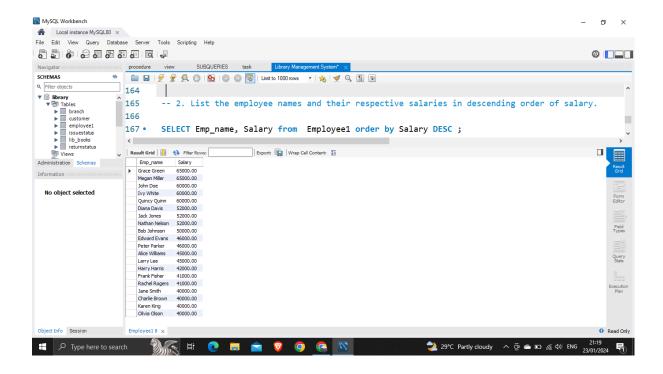


Queries and Answers

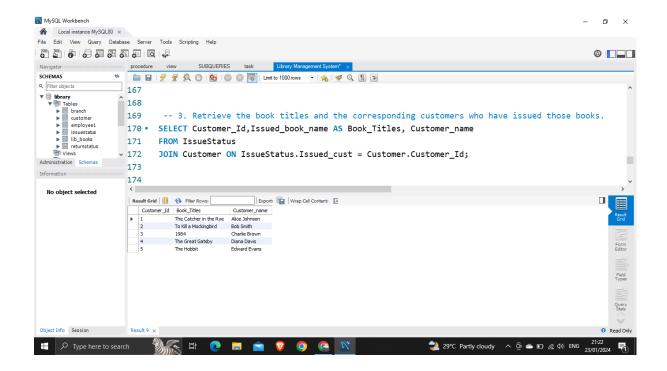
1. Retrieve the book title, category, and rental price of all available books.



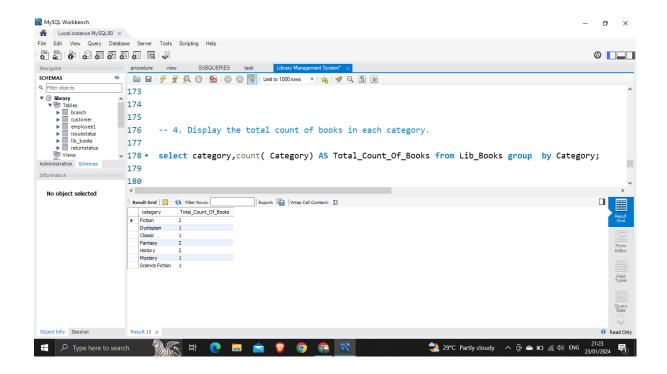
2. List the employee names and their respective salaries in descending order of salary.



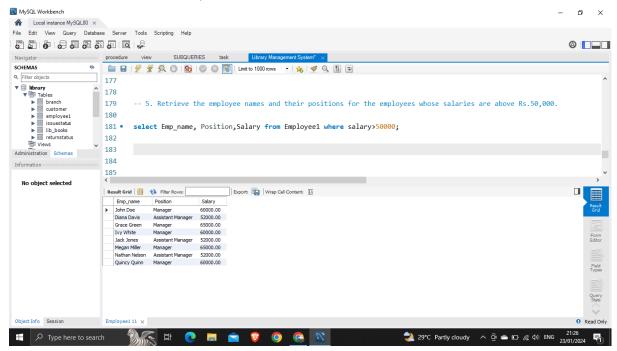
3. Retrieve the book titles and the corresponding customers who have issued those books.



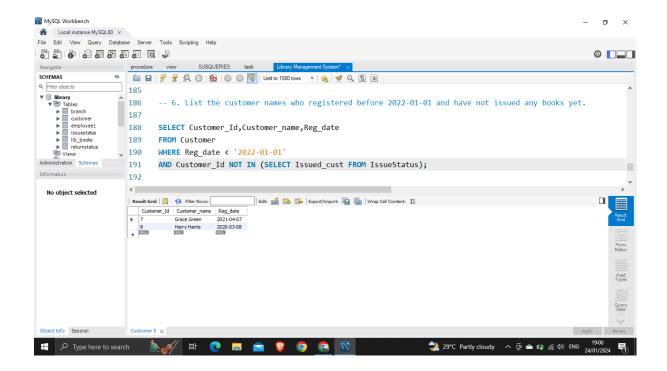
4. Display the total count of books in each category.



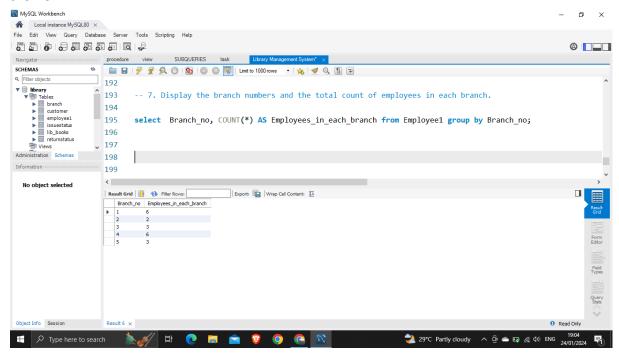
5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



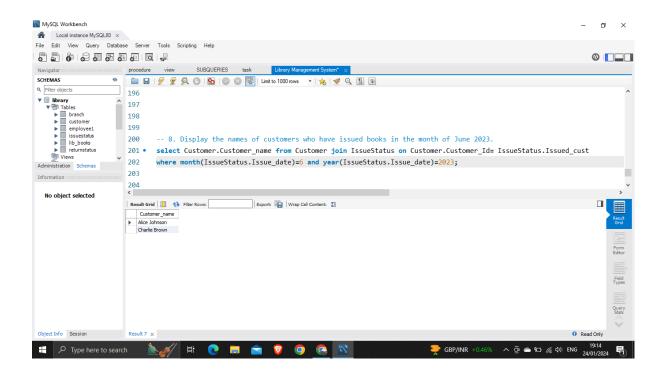
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.



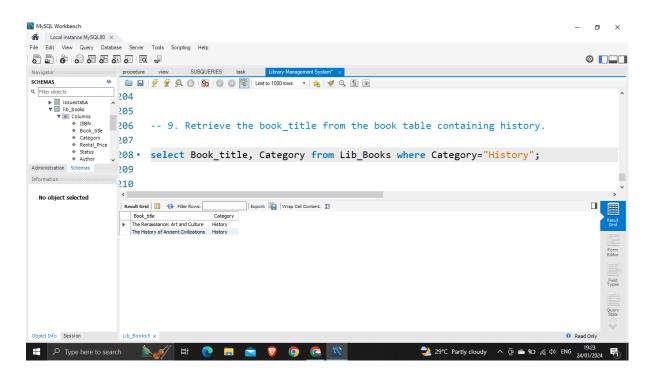
7. Display the branch numbers and the total count of employees in each branch.



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



9. Retrieve the book_title from the book table containing history.



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

