### LIBRARY MANAGEMENT SYSYTEM

## Topic: Library Management System

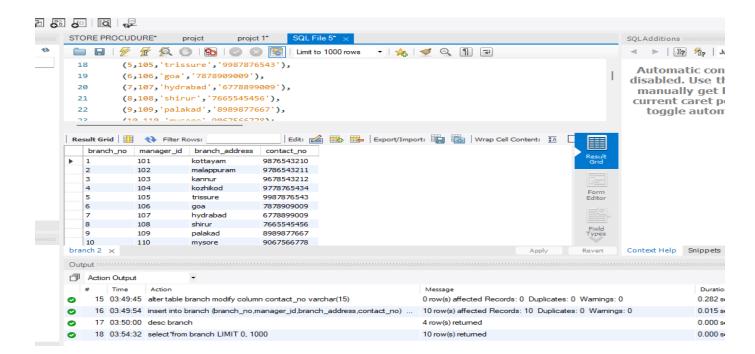
You are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

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

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

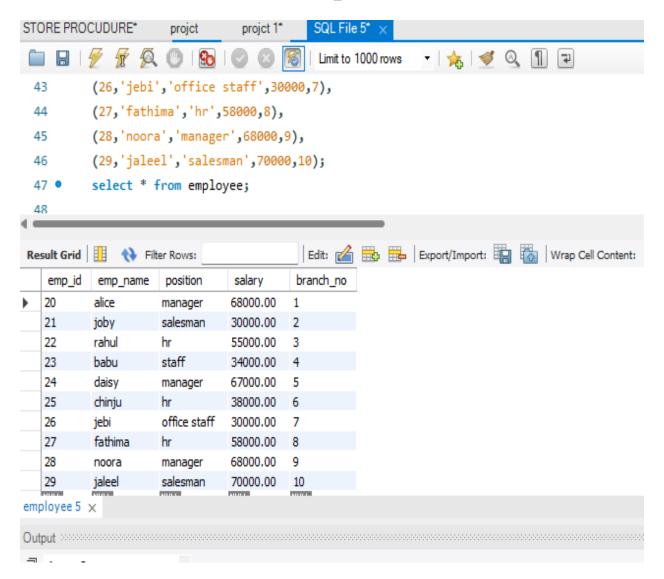
#### Attributes for the tables:

- 1. Branch
- Branch no
  - Set as PRIMARY KEY
    - Manager\_Id
    - Branch address
    - Contact\_no



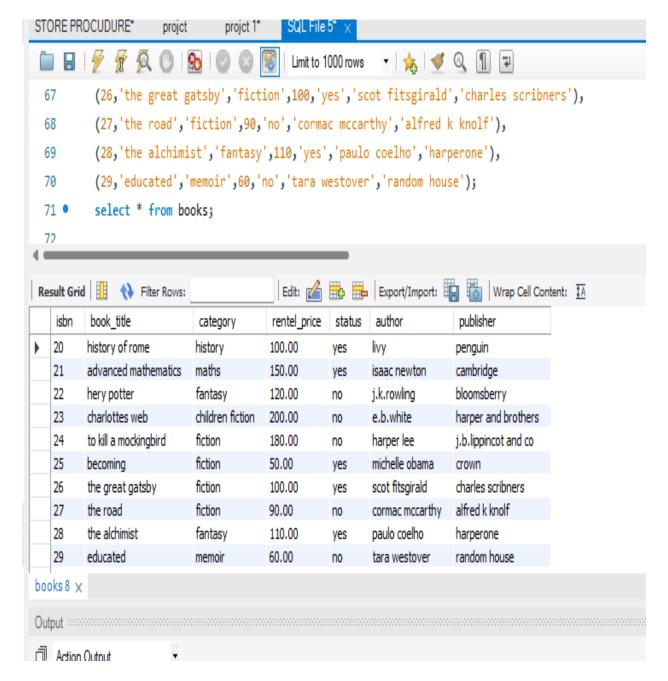
# 2. Employee

- Emp\_Id Set as PRIMARY KEY
- Emp name
- Position
- Salary
- Branch\_no
  - Set as FOREIGN KEY and it refer Branch\_no in Branch table



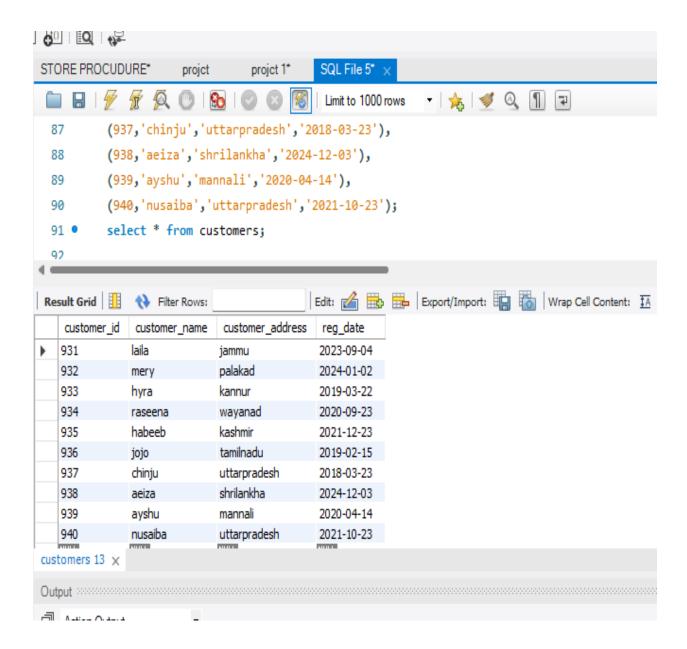
- 3. Books
- ISBN

- Set as PRIMARY KEY
  - · Book title
  - Category
  - Rental\_Price
  - Status [Give yes if book available and no if book not available]
  - Author
  - Publisher



- 4. Customer
- Customer Id

- Set as PRIMARY KEY
  - Customer name
  - Customer address
  - Reg date

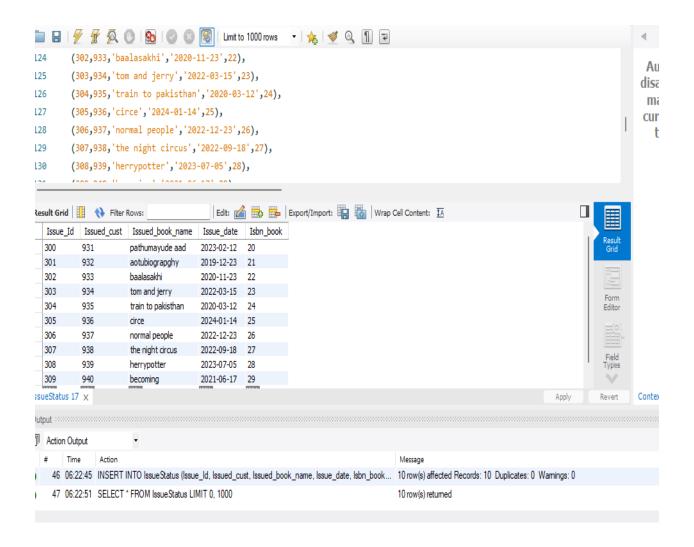


### 5. IssueStatus

- Issue Id
  - Set as PRIMARY KEY
    - Issued\_cust Set as FOREIGN KEY and it refer customer\_id in CUSTOMER

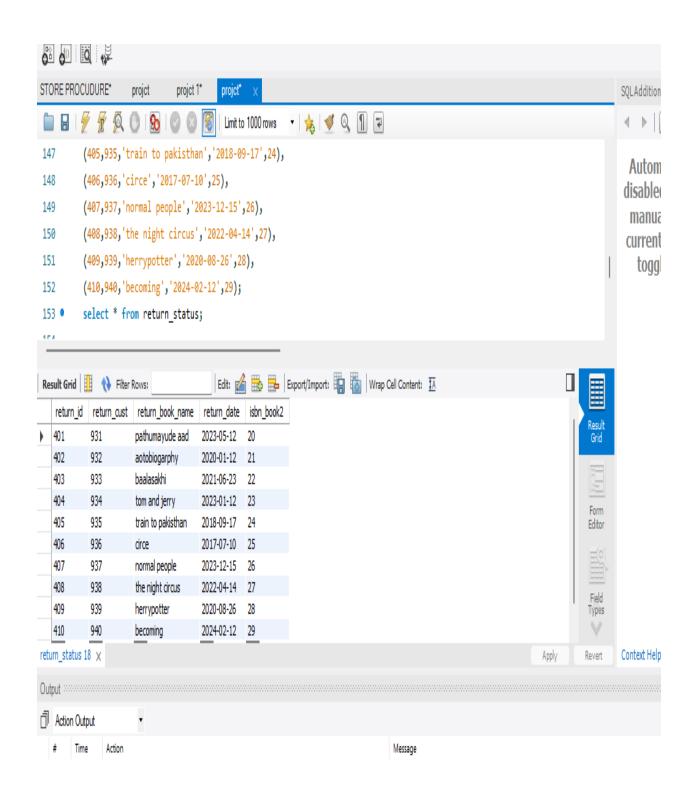
table Issued book name

- Issue date
- Isbn\_book Set as FOREIGN KEY and it should refer isbn in BOOKS table

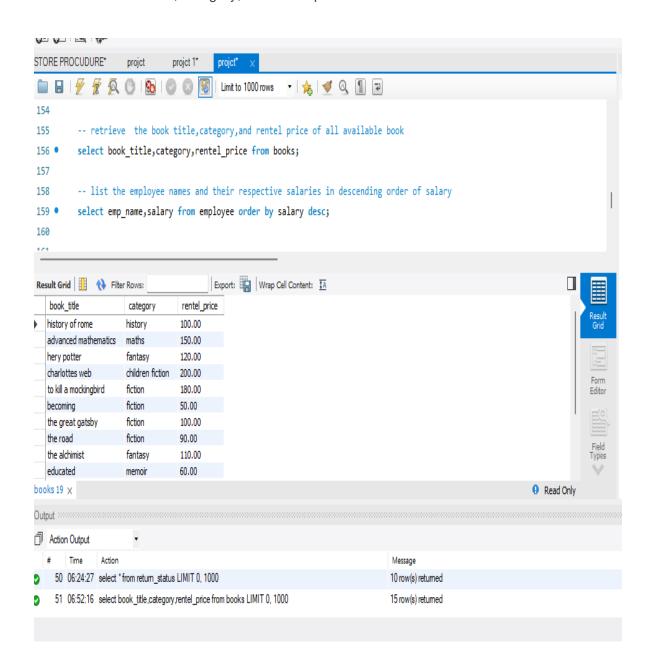


### 6. ReturnStatus

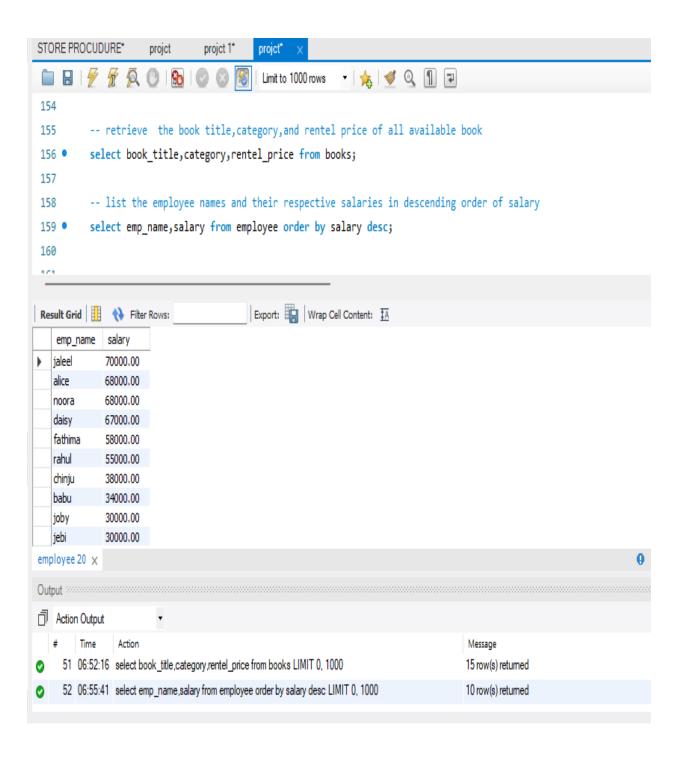
- Return Id
  - Set as PRIMARY KEY
    - Return cust
    - Return\_book\_name
    - Return\_date
    - Isbn book2
  - Set as FOREIGN KEY and it should refer isbn in BOOKS table



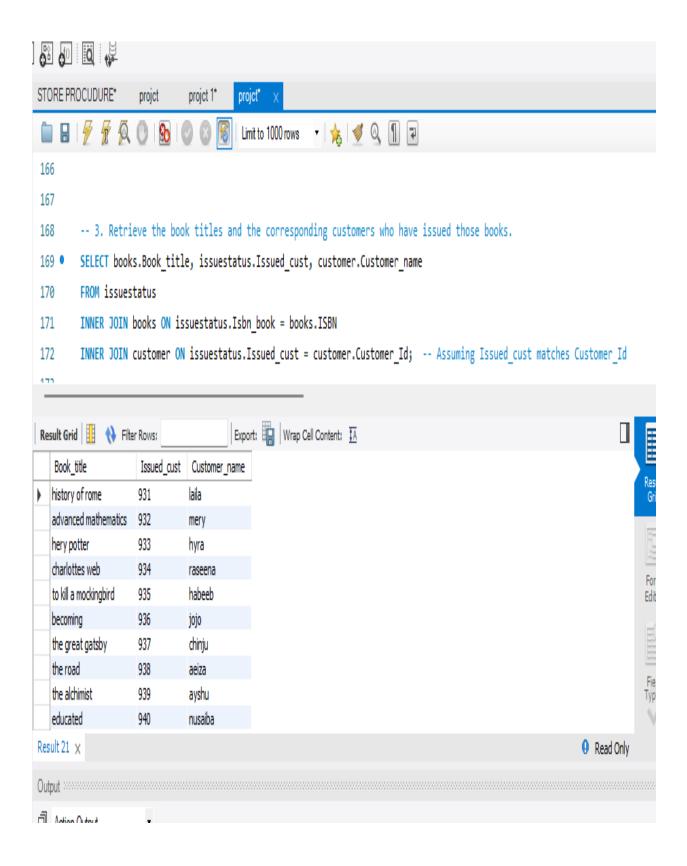
1. Retrieve the book title, category, and rental price of all available books.



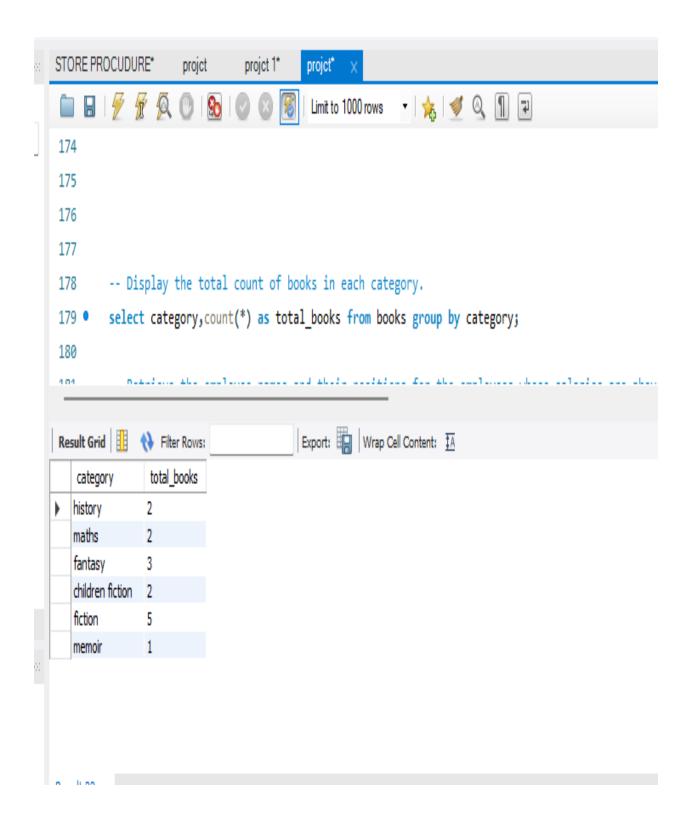
2. List the employee names and their respective salaries in descending order of salary.



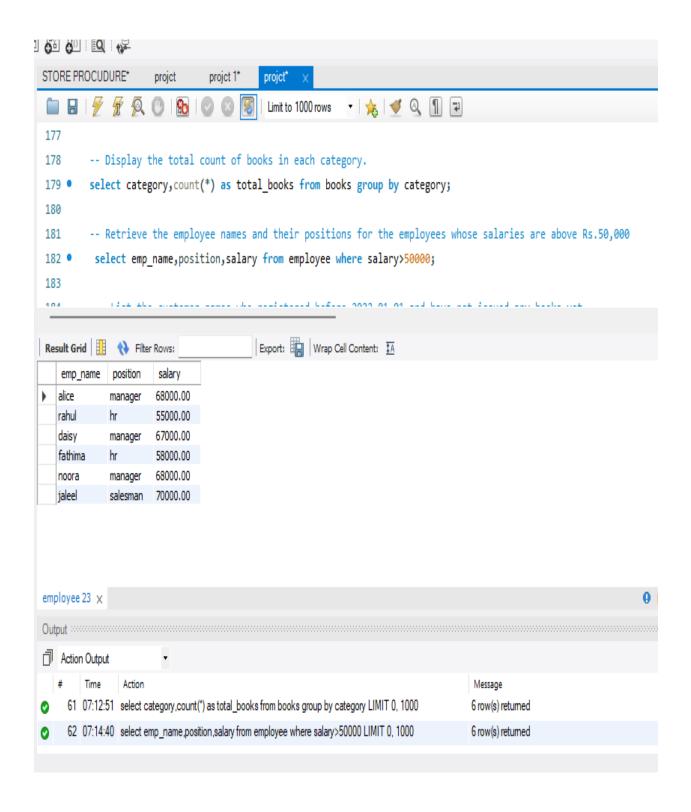
3. Retrieve the book titles and the corresponding customers who have issued those books.



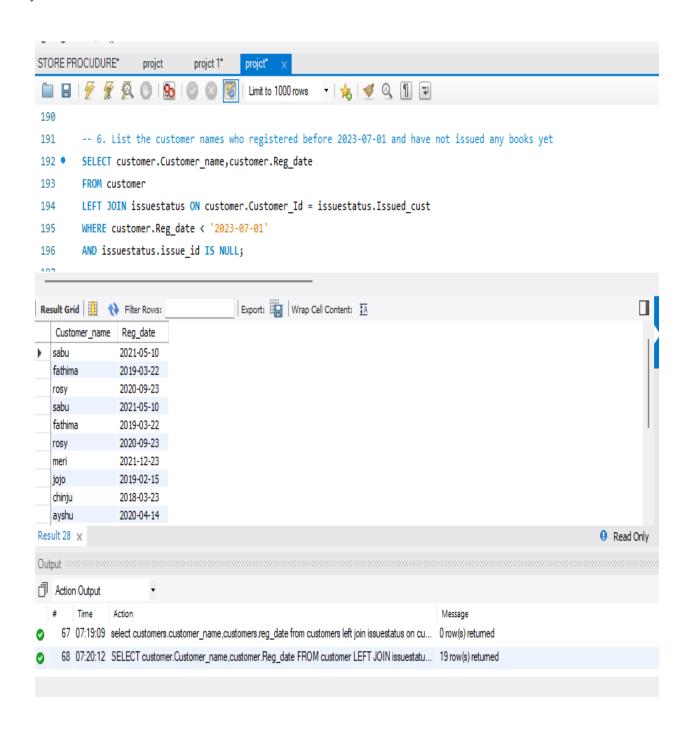
4. Display the total count of books in each category.



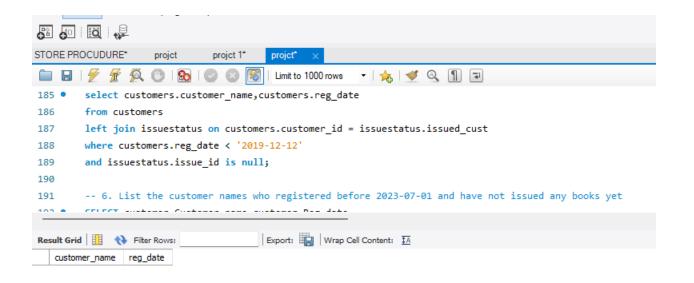
5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



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

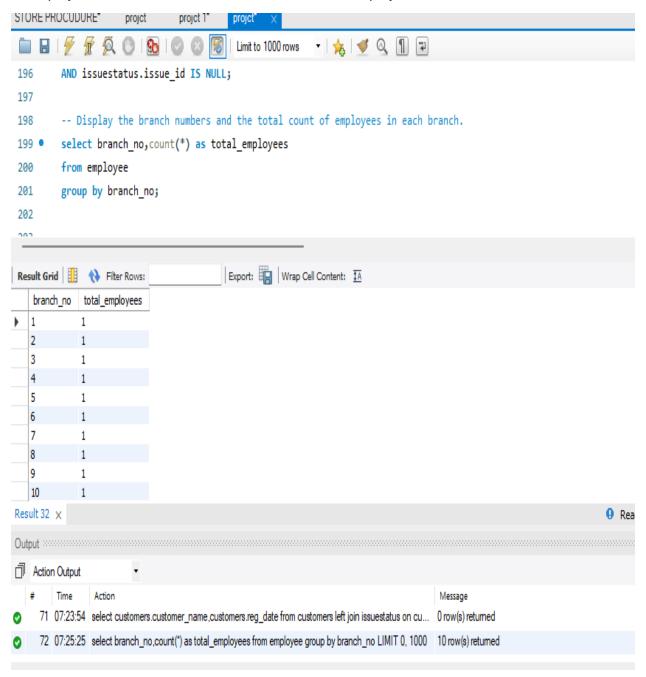


However, books has been issued to all the customers.

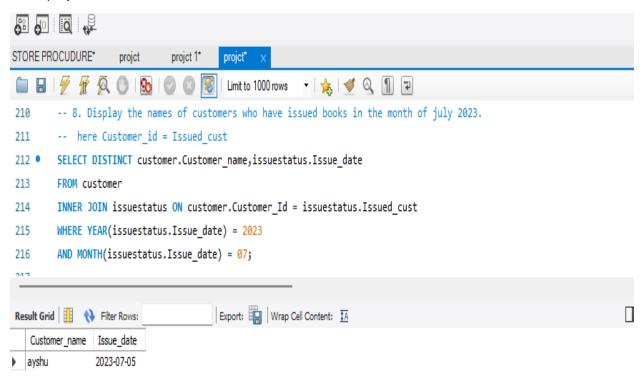


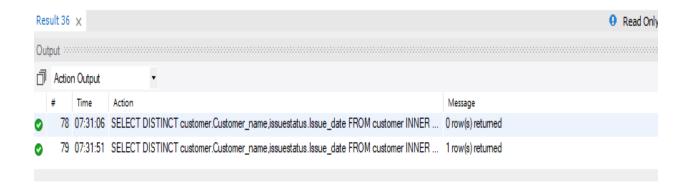


7. Display the branch numbers and the total count of employees in each branch.

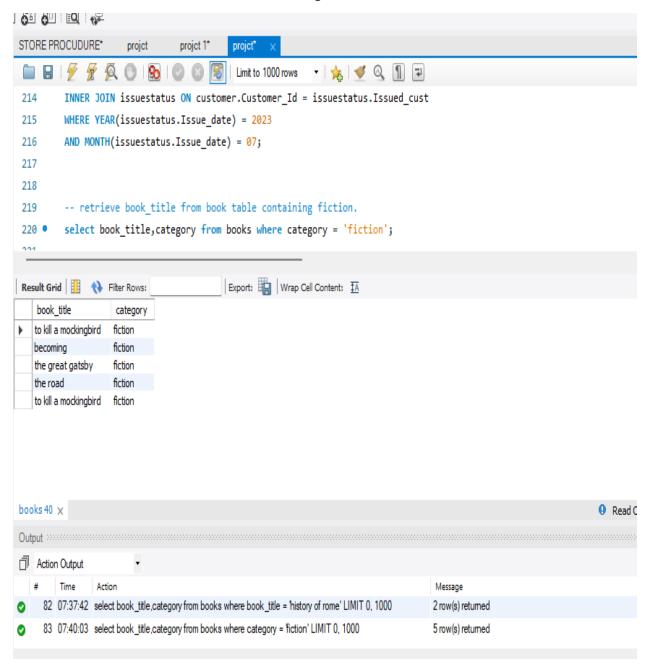


8. Display the names of customers who have issued books in the month of June 2023.

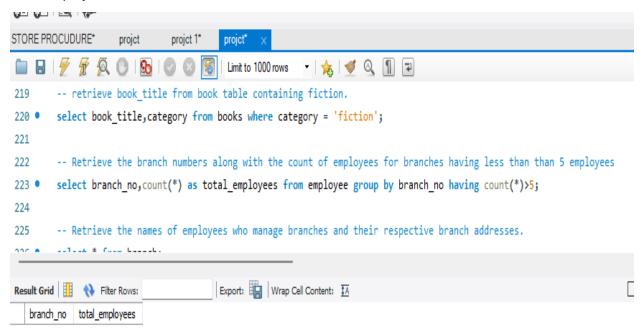




9. Retrieve book\_title from book table containing fiction.

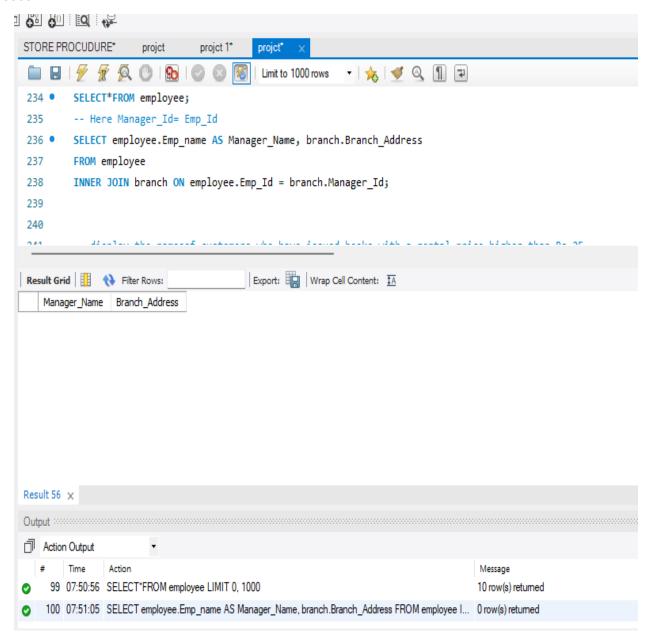


10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees.





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



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

