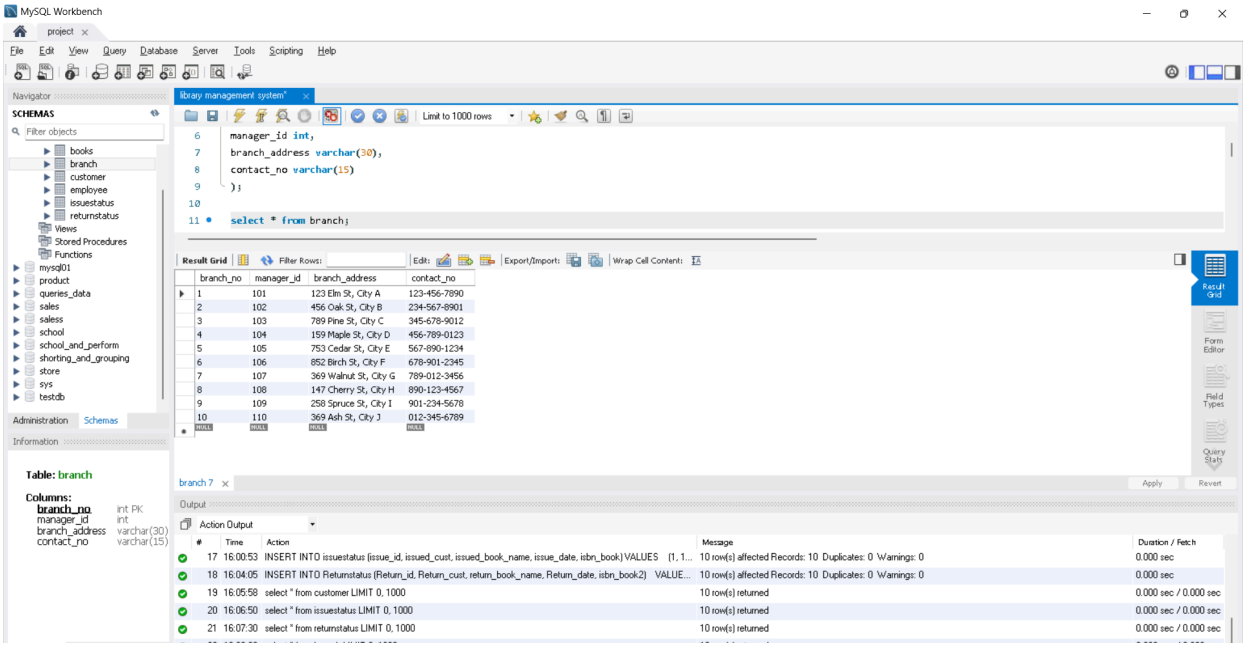
Library Management System

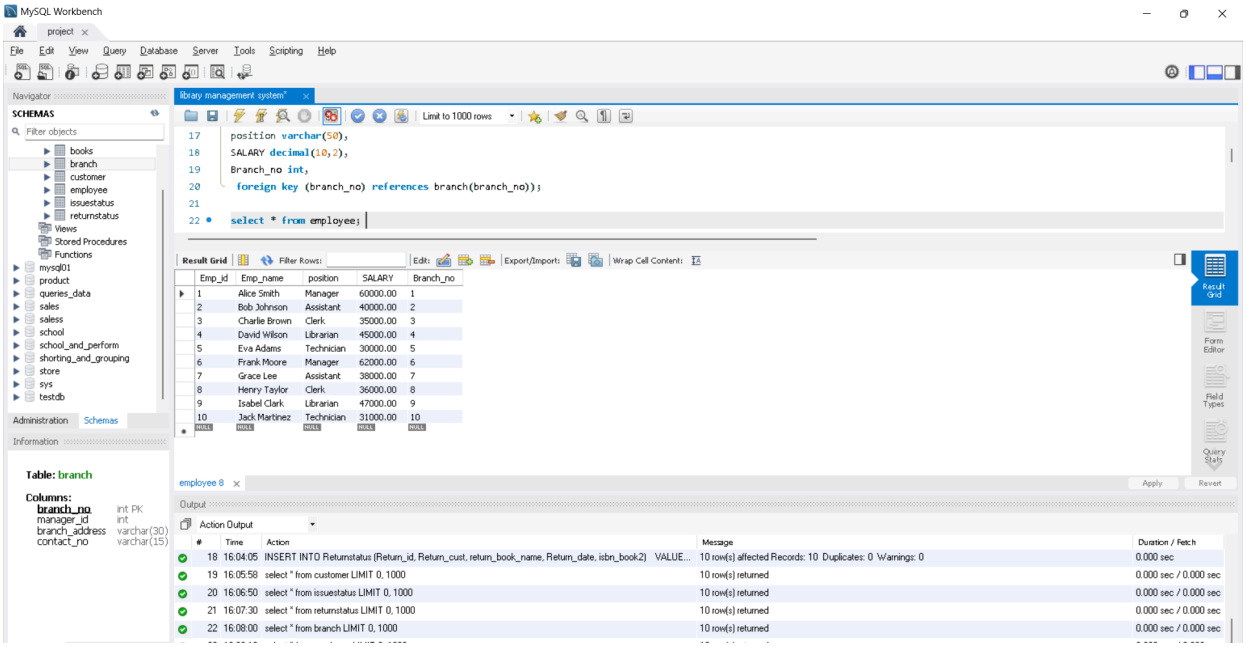
Topic : Library Management System You are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library. Create a database named library and following TABLES in the database:

1. Branch
2. Employee
3. Books
4. Customer
5. IssueStatus
6. ReturnStatus Attributes for the tables:

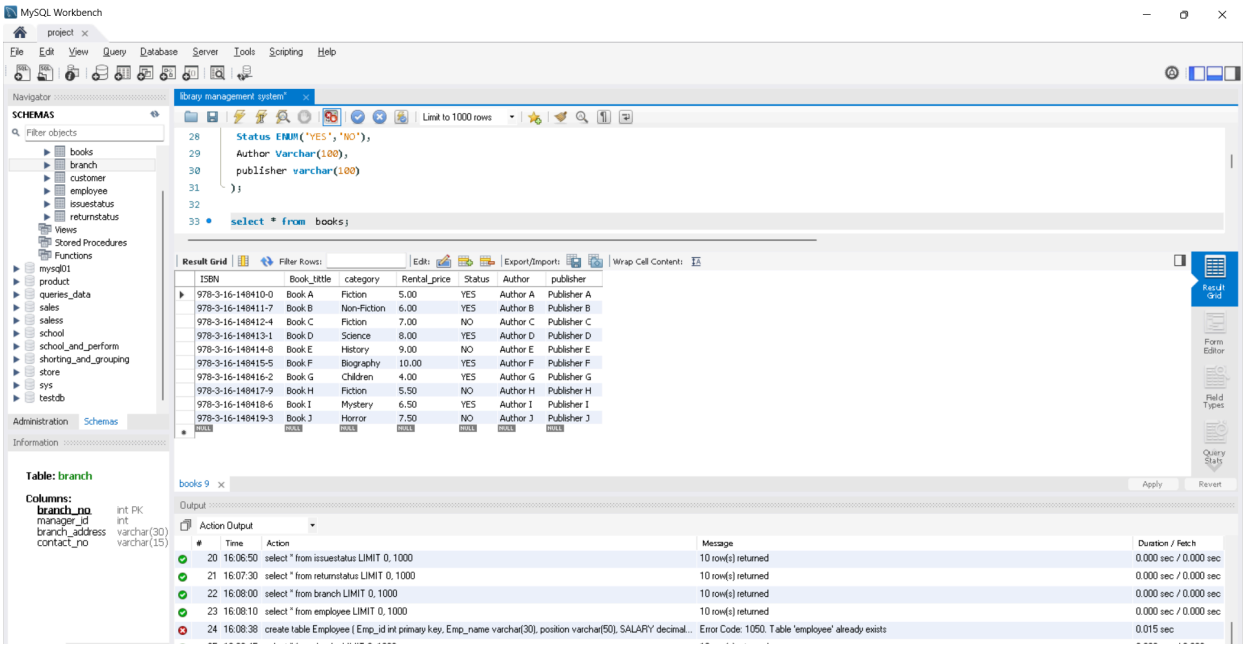
1. Branch Branch_no - Set as PRIMARY KEY Manager_Id Branch_address Contact_no



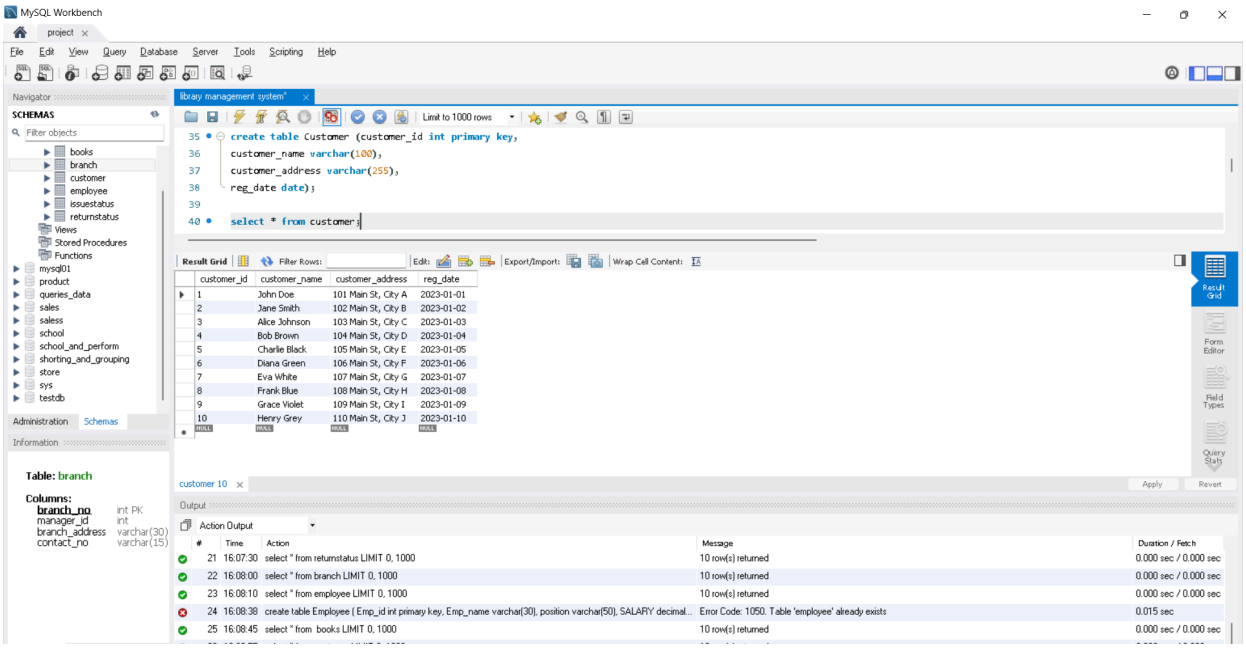
2. Employee Emp_Id – Set as PRIMARY KEY Emp_name Position Salary Branch_no - Set as FOREIGN KEY and it refer Branch_no in Branch table



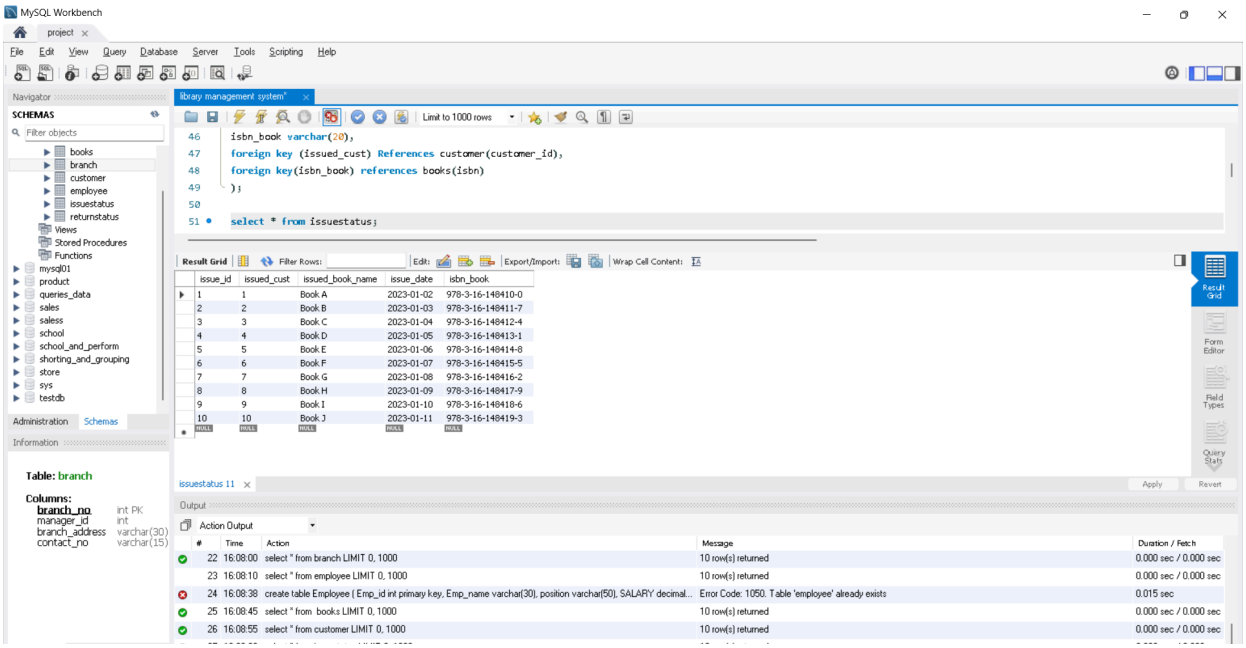
3. Books ISBN - Set as PRIMARY KEY Book_title Category Rental_Price Status [Give yes if book available and no if book not available] Author Publisher



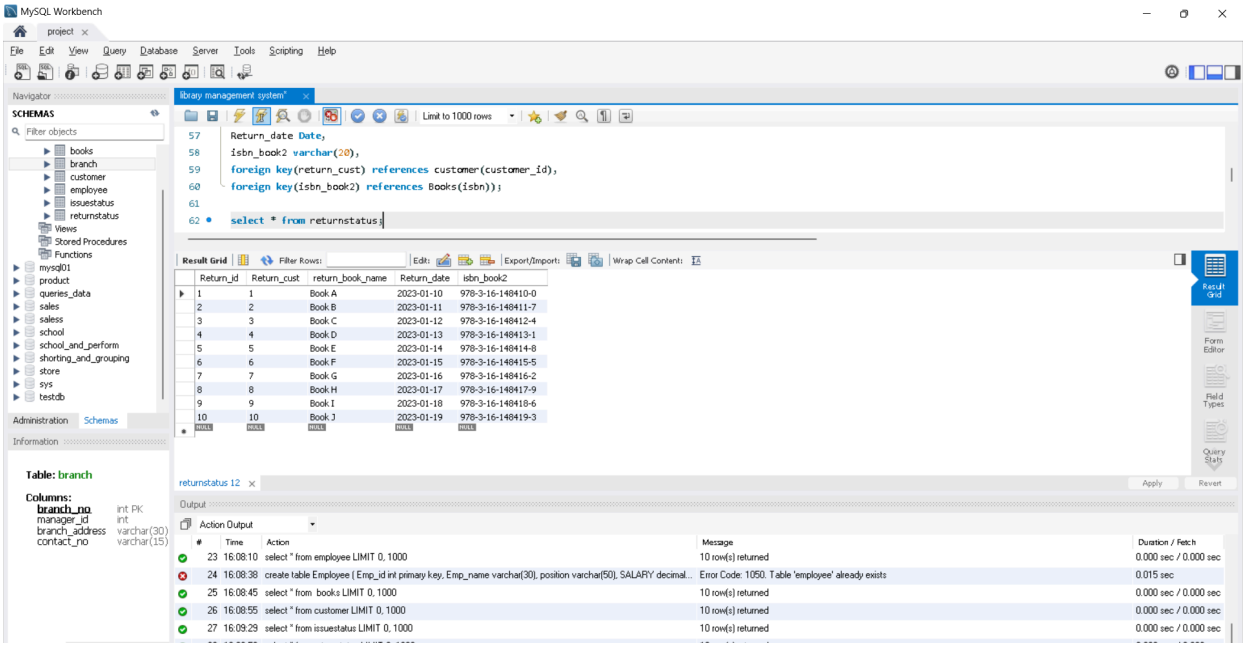
4. Customer Customer_Id - Set as PRIMARY KEY Customer_name Customer_address Reg_date



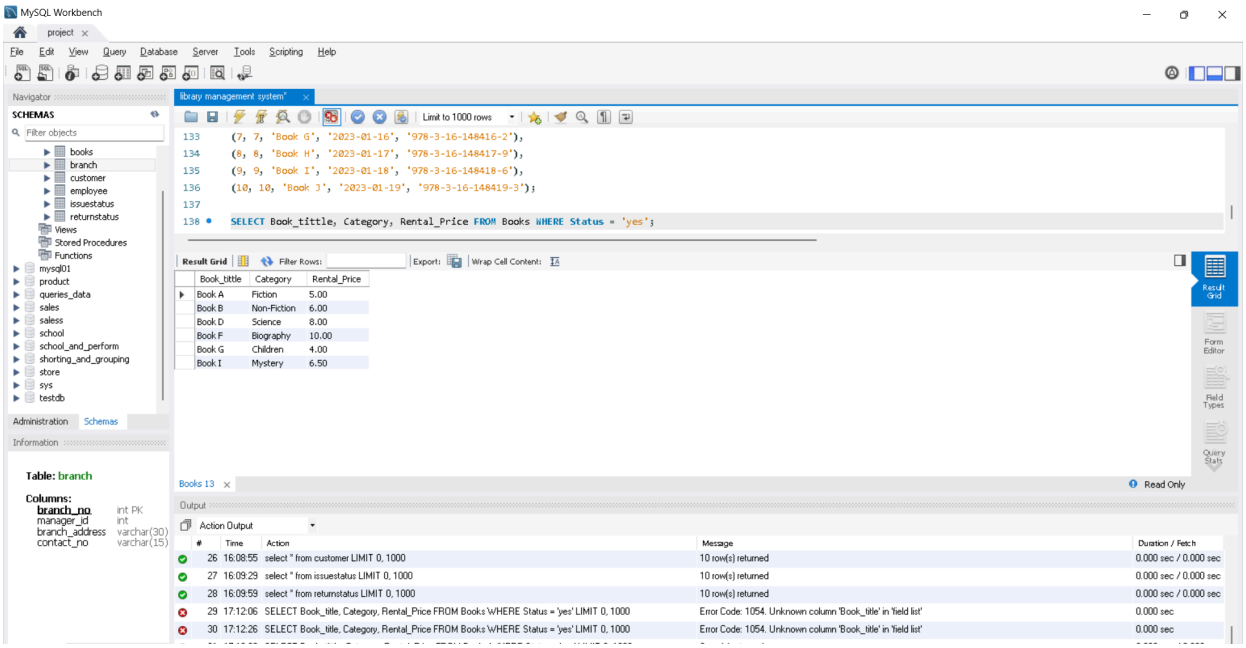
5. IssueStatus Issue_Id - Set as PRIMARY KEY Issued_cust – Set as FOREIGN KEY and it refer customer_id in CUSTOMER table Issued_book_name Issue_date Isbn_book – Set as FOREIGN KEY and it should refer isbn in BOOKS table



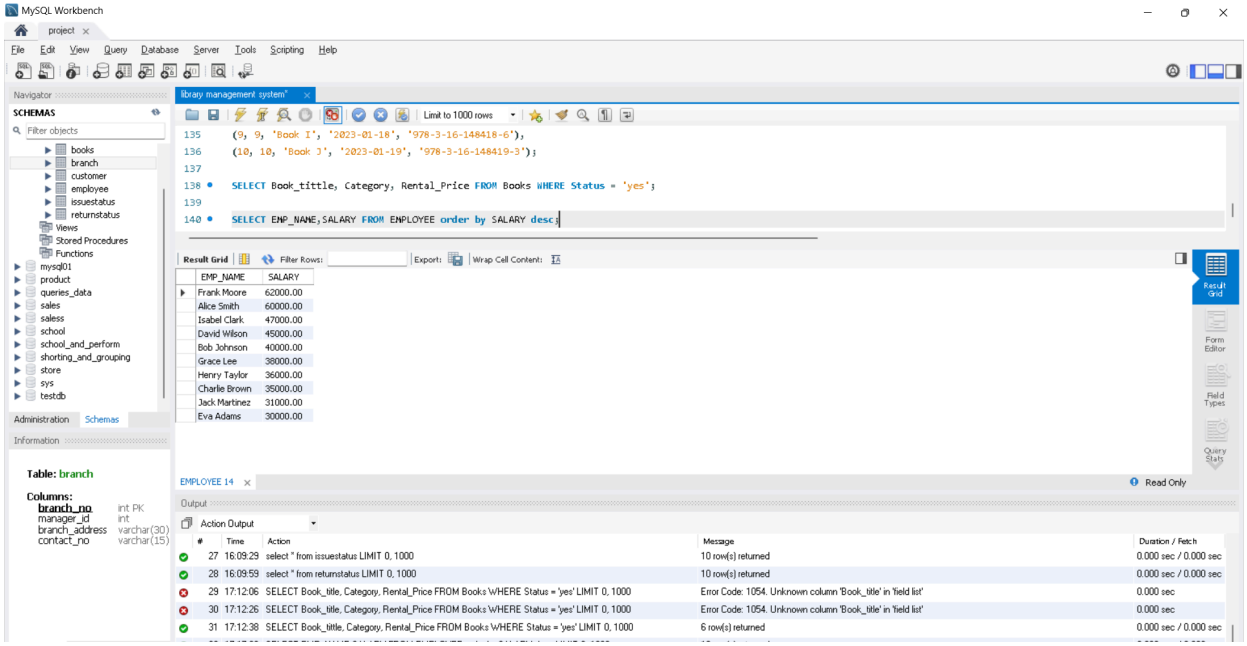
6. ReturnStatus Return_Id - Set as PRIMARY KEY Return_cust Return_book_name Return_date Isbn_book2 - Set as FOREIGN KEY and it should refer isbn in BOOKS table Display all the tables and Write the queries for the following :



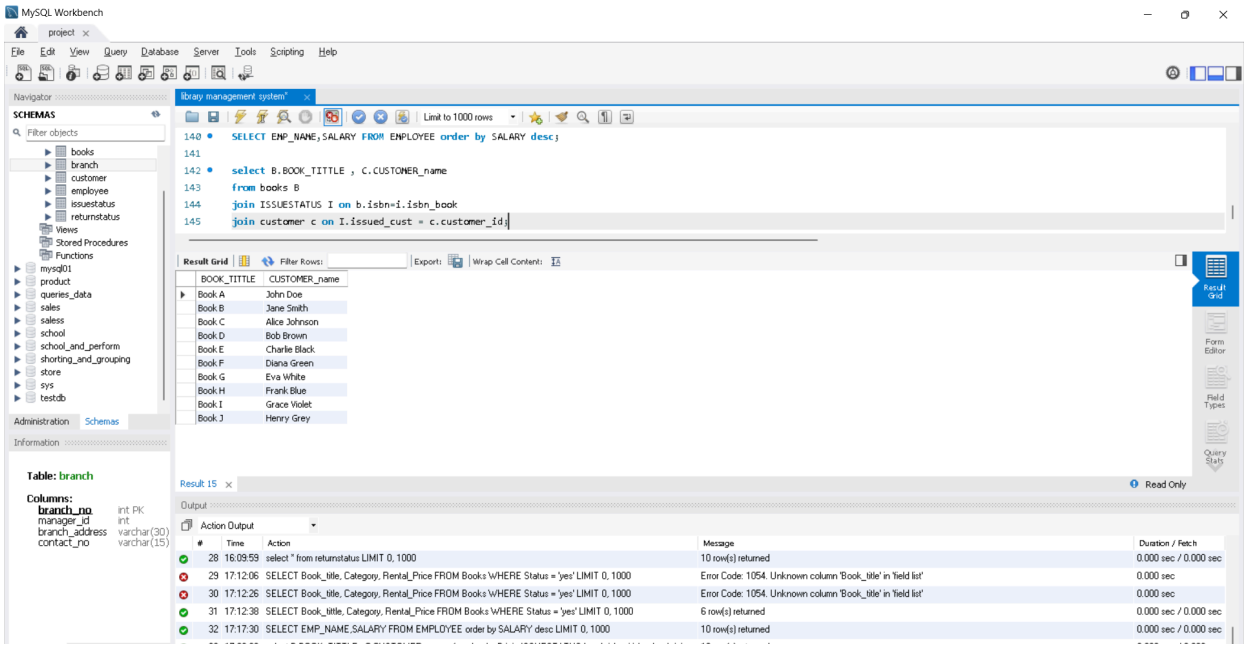
1. Retrieve the book title, category, and rental price of all available books.



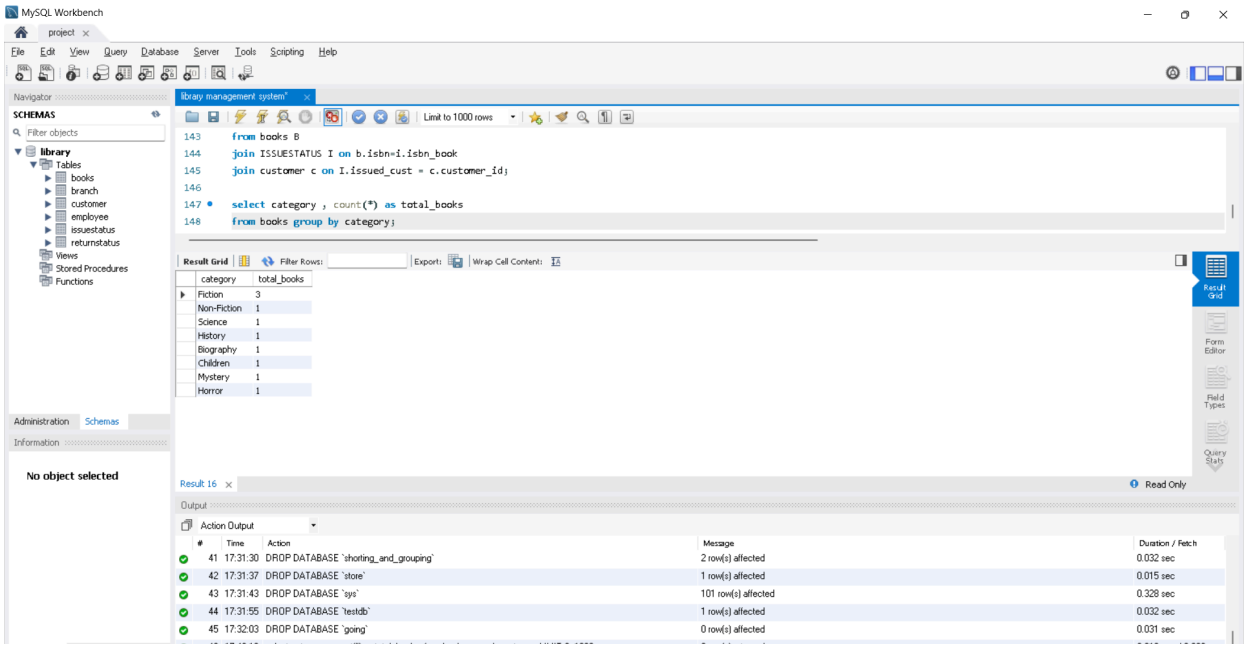
2. List the employee names and their respective salaries in descending order of salary.



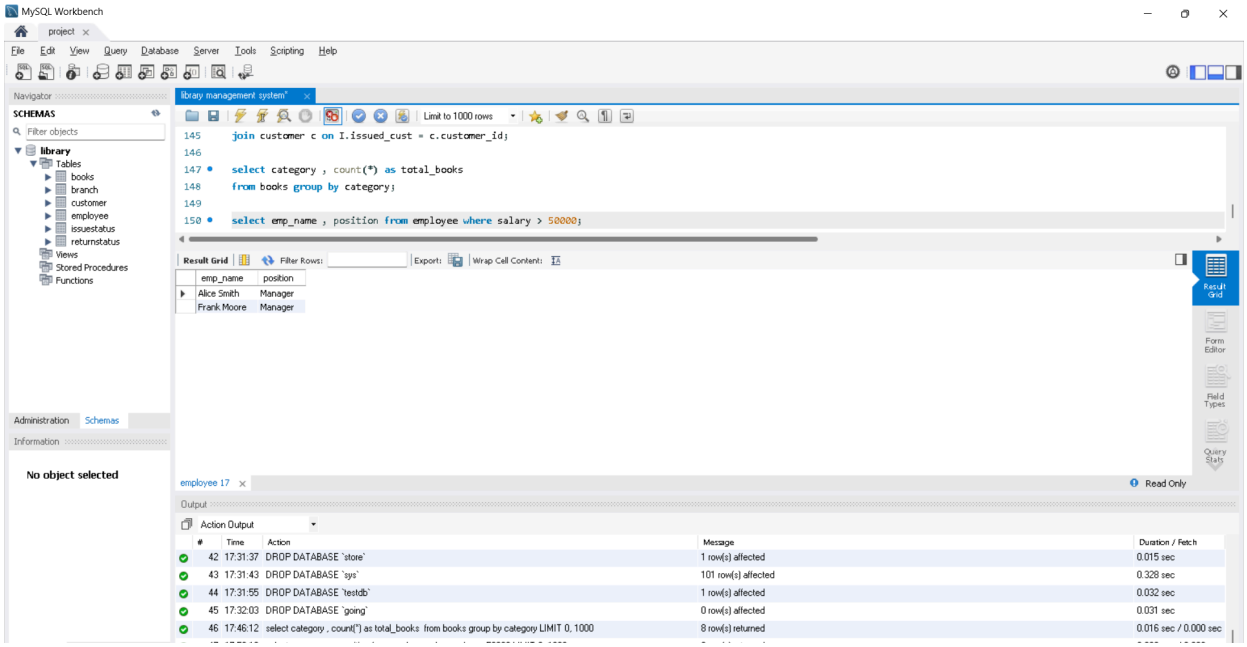
3. Retrieve the book titles and the corresponding customers who have issued those books.



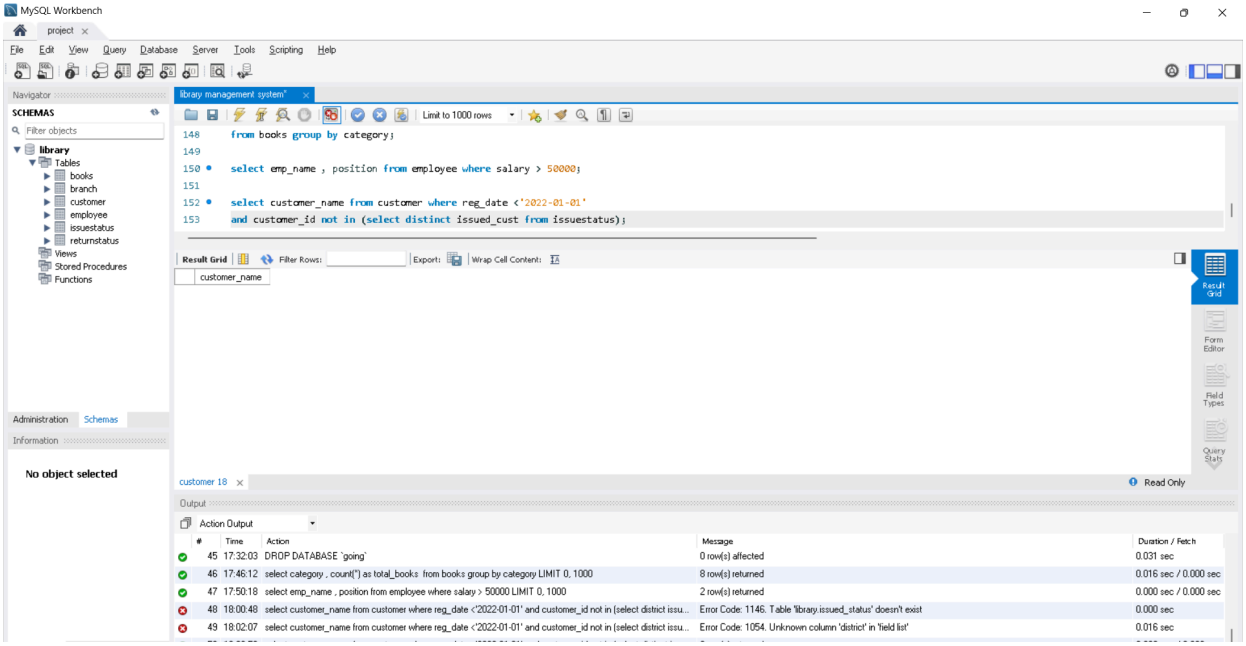
4. Display the total count of books in each category.



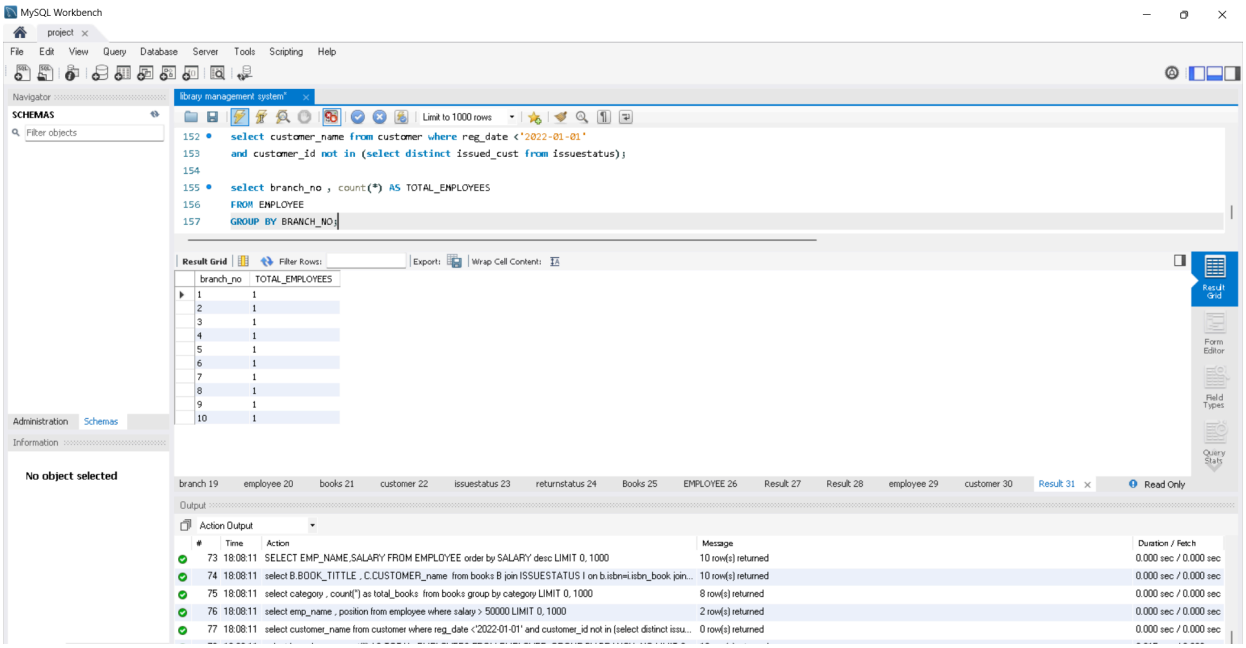
5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



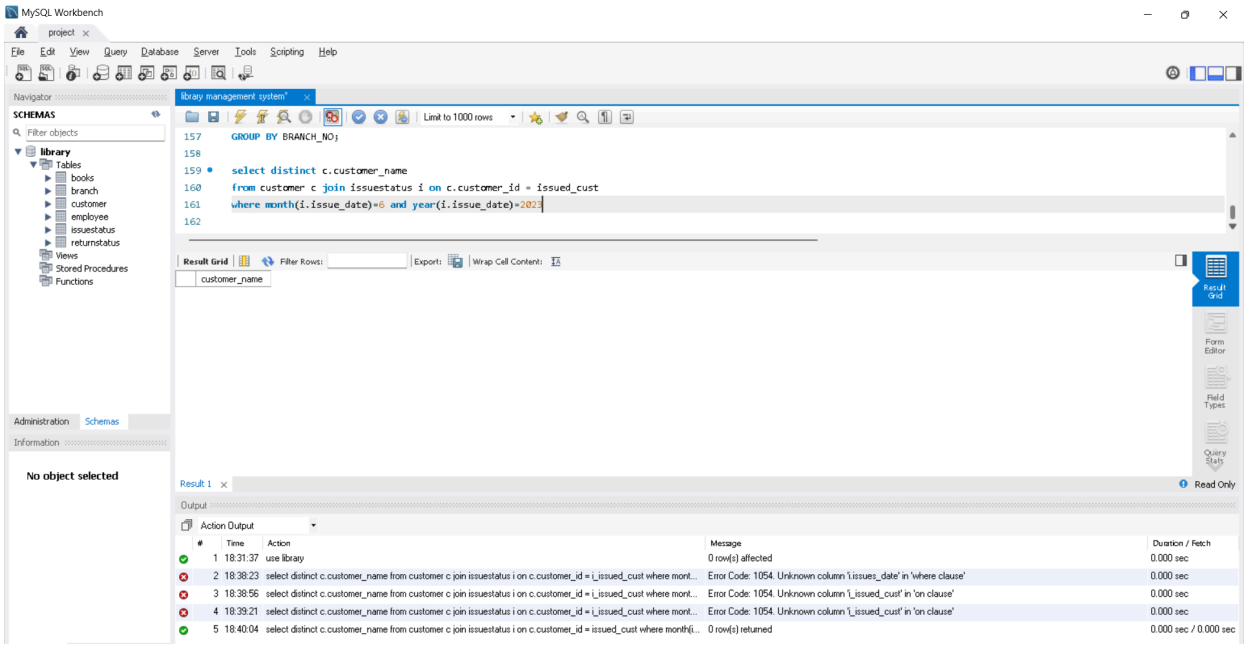
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

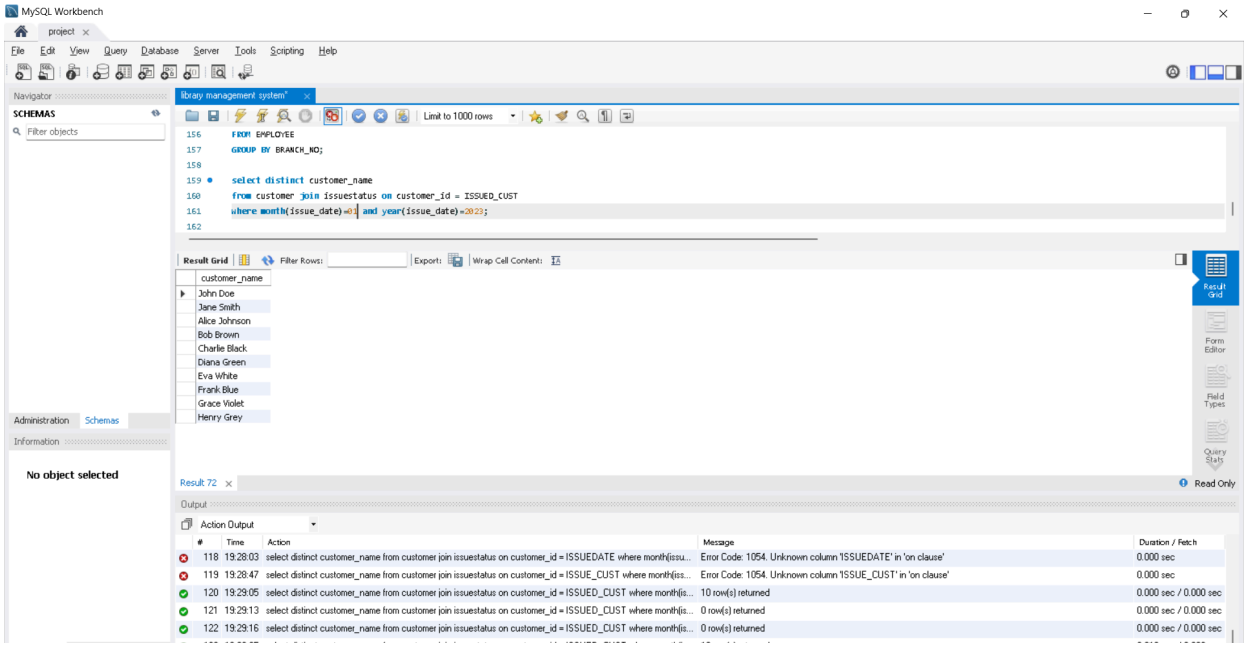


7. Display the branch numbers and the total count of employees in each branch.

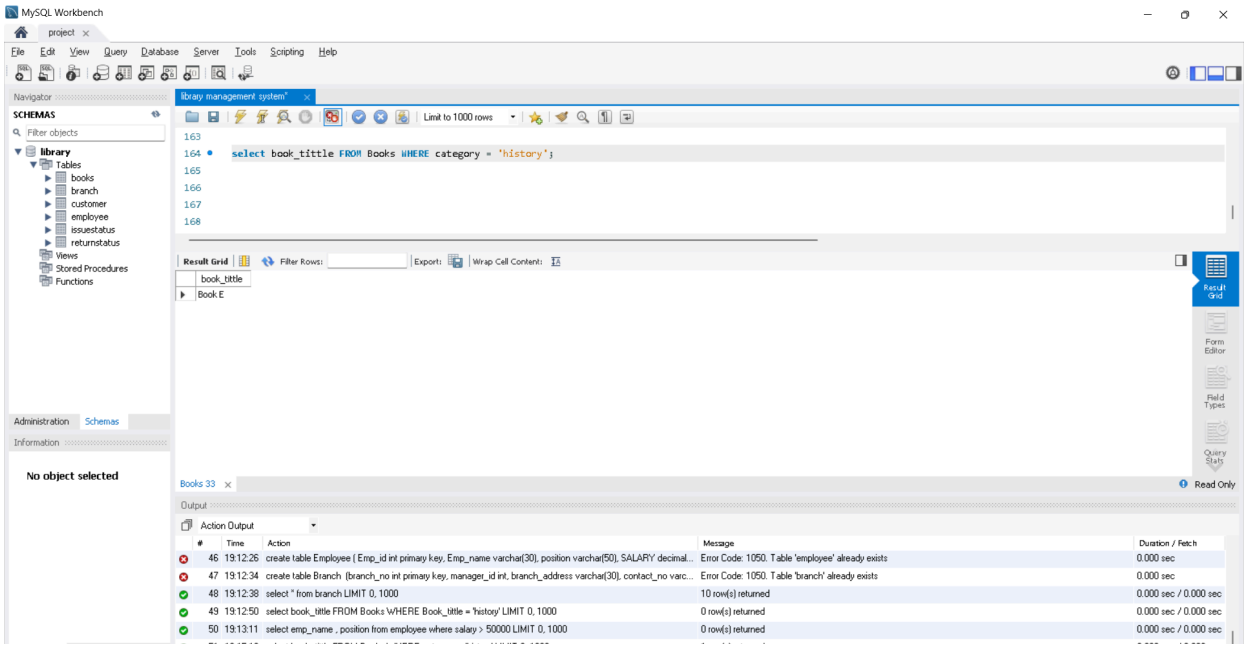


8. Display the names of customers who have issued books in the month of June 2023.

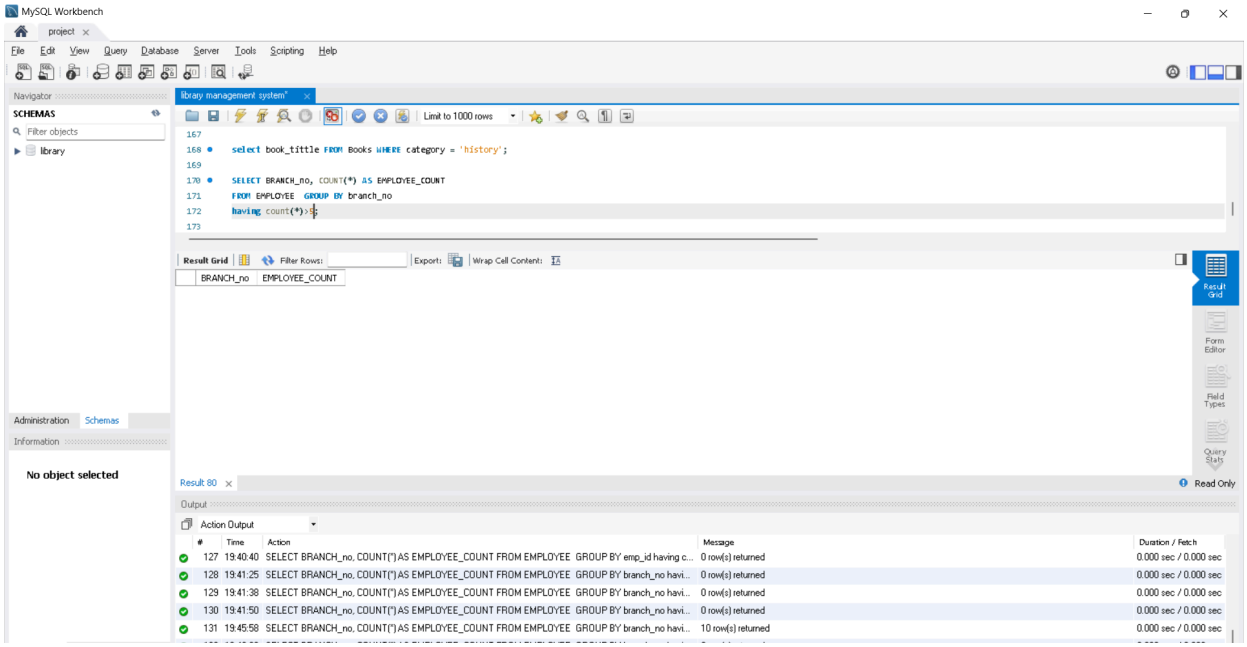


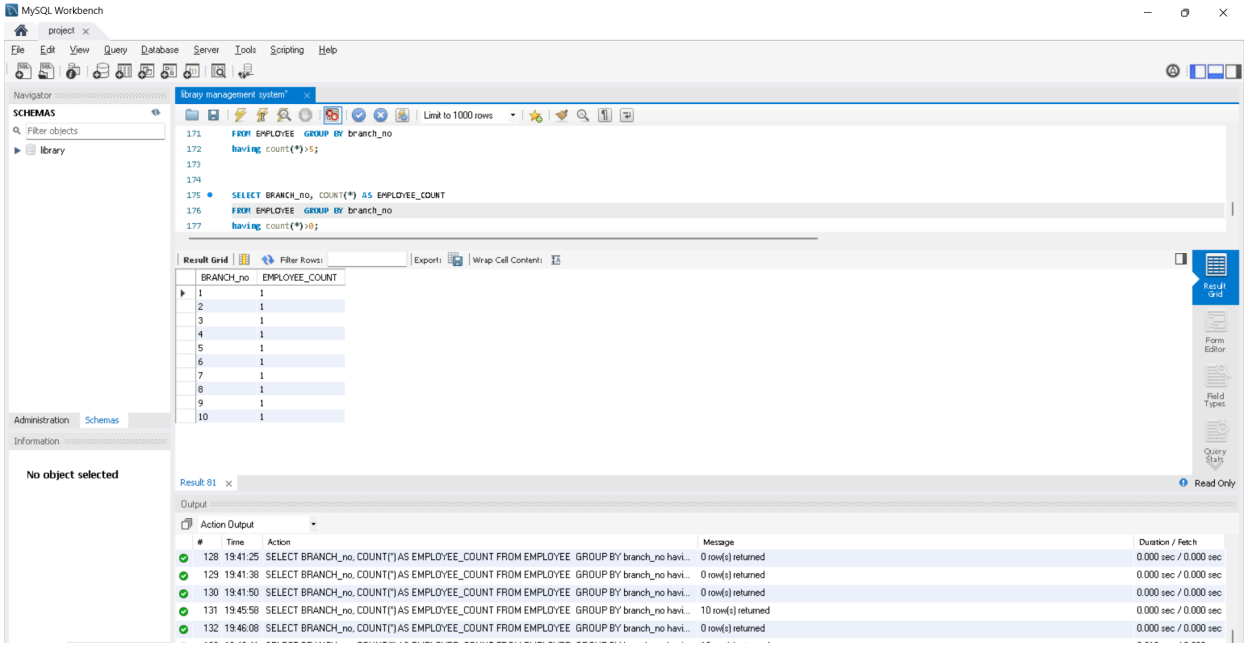


9. Retrieve book_title from book table containing history.

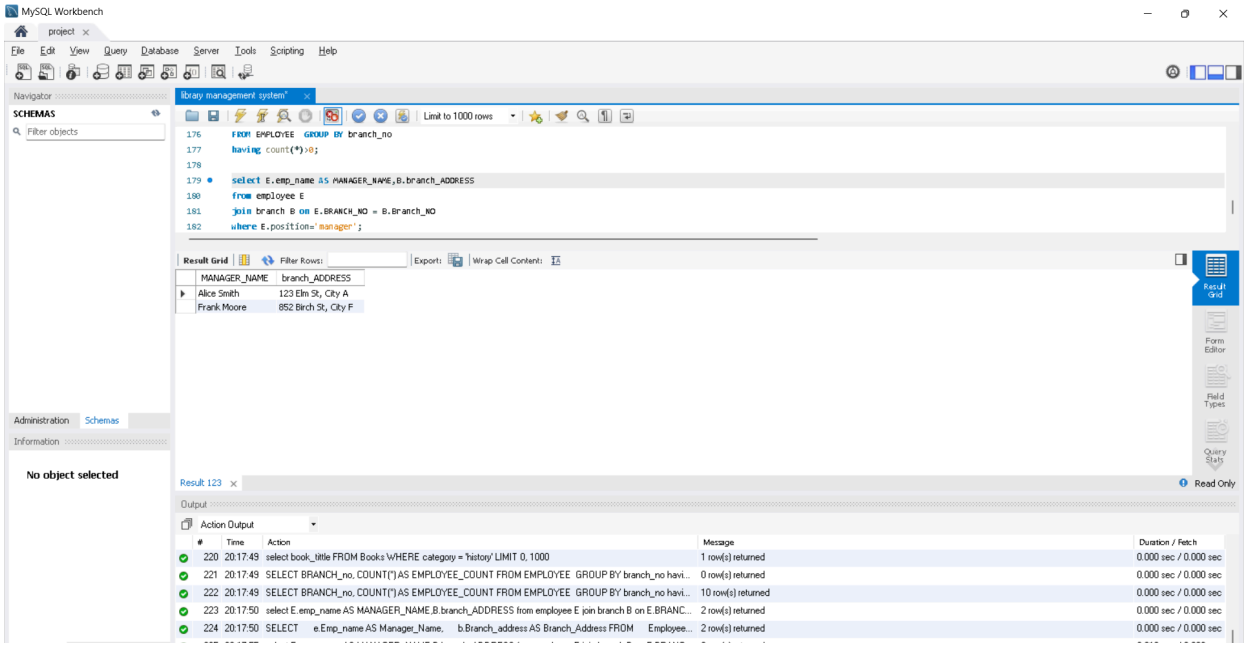


10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees

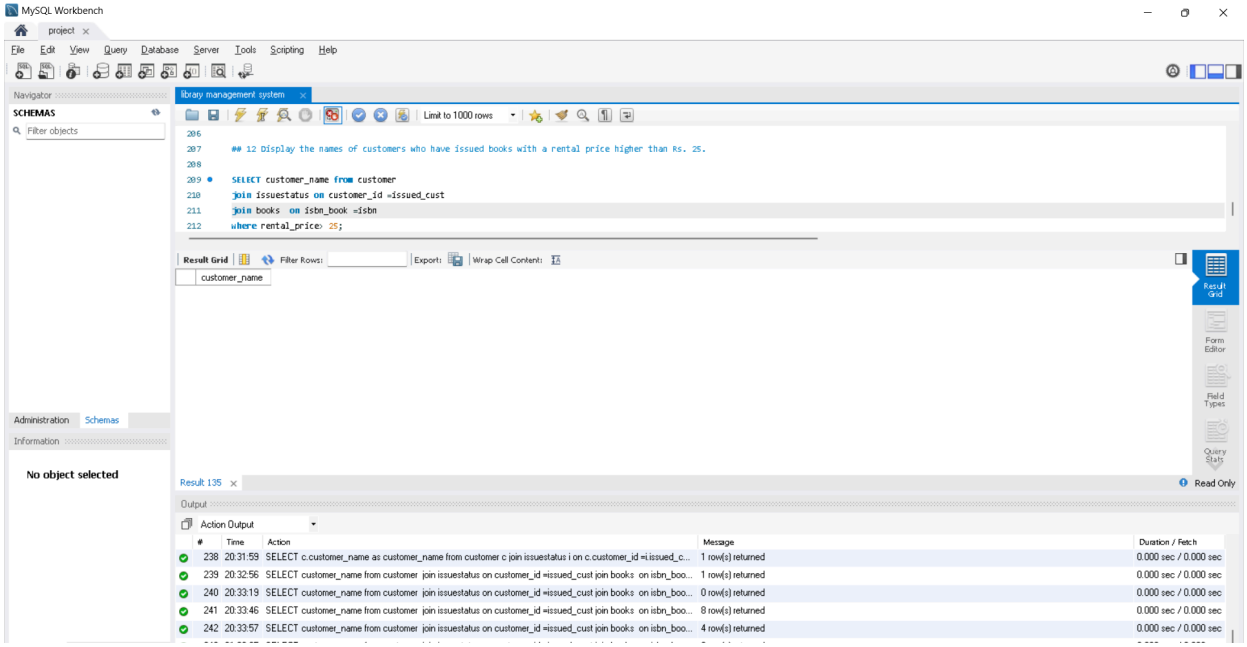


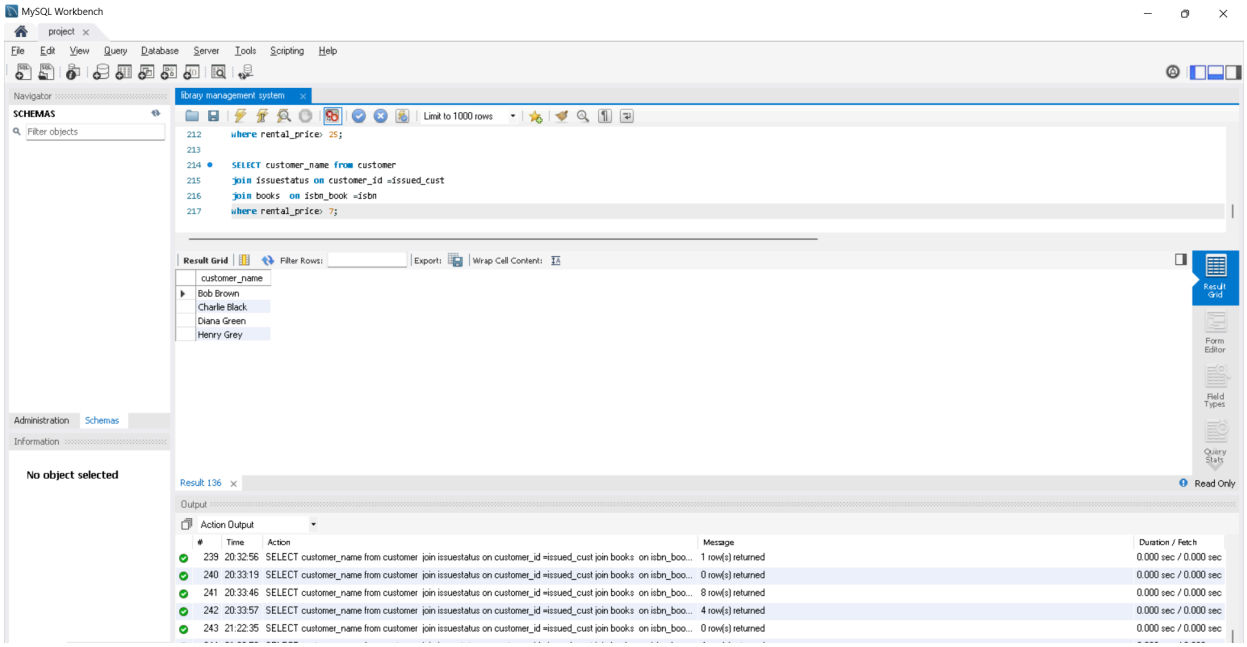


11. Retrieve the names of employees who manage branches and their respective branch addresses.



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


MySQL Workbench
project
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
library management system
Limit to 1000 rows
206
207 ## 12 Display the names of customers who have issued books with a rental price higher than Rs. 25.
208
209 SELECT customer_name from customer
210 join issuestatus on customer_id =issued_cust
211 join books on isbn_book =isbn
212 where rental_price> 25;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_name
Result Grid
Form Editor
Field Types
Query Stats
Administration
Schemas
Information
No object selected
Result 135
Read Only
Output
Action Output
Time Action Message Duration / Fetch
238 20:31:59 SELECT c.customer_name as customer_name from customer c join issuestatus i on c.customer_id =issued_c... 1 row(s) returned 0.000 sec / 0.000 sec
239 20:32:56 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 1 row(s) returned 0.000 sec / 0.000 sec
240 20:33:19 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 0 row(s) returned 0.000 sec / 0.000 sec
241 20:33:46 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 8 row(s) returned 0.000 sec / 0.000 sec
242 20:33:57 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 4 row(s) returned 0.000 sec / 0.000 sec


MySQL Workbench
project
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
library management system
Limit to 1000 rows
212 where rental_price> 25;
213
214 SELECT customer_name from customer
215 join issuestatus on customer_id =issued_cust
216 join books on isbn_book =isbn
217 where rental_price> 7;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_name
Bob Brown
Charlie Black
Diana Green
Henry Grey
Result Grid
Form Editor
Field Types
Query Stats
Administration
Schemas
Information
No object selected
Result 136
Read Only
Output
Action Output
Time Action Message Duration / Fetch
239 20:32:56 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 1 row(s) returned 0.000 sec / 0.000 sec
240 20:33:19 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 0 row(s) returned 0.000 sec / 0.000 sec
241 20:33:46 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 8 row(s) returned 0.000 sec / 0.000 sec
242 20:33:57 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 4 row(s) returned 0.000 sec / 0.000 sec
243 21:22:35 SELECT customer_name from customer join issuestatus on customer_id =issued_cust join books on isbn_boo... 0 row(s) returned 0.000 sec / 0.000 sec