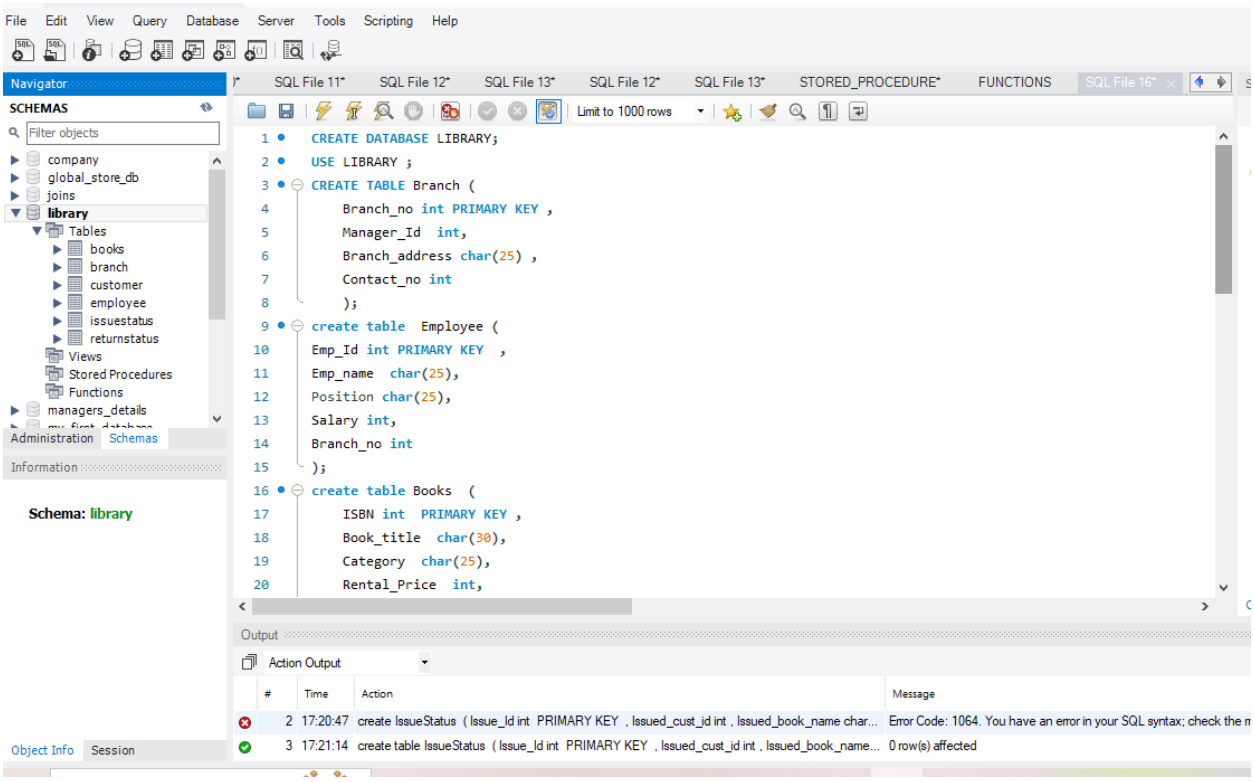
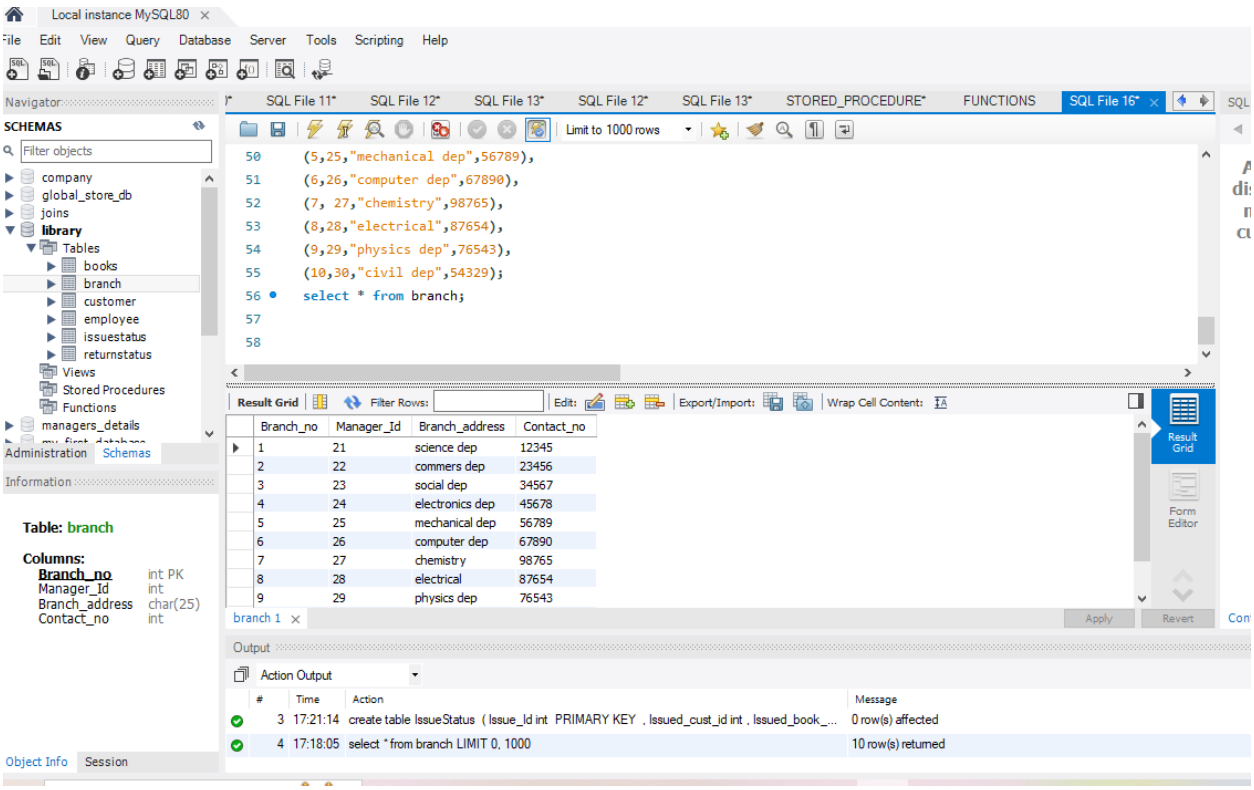
SQL- Topic : Library Management System

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

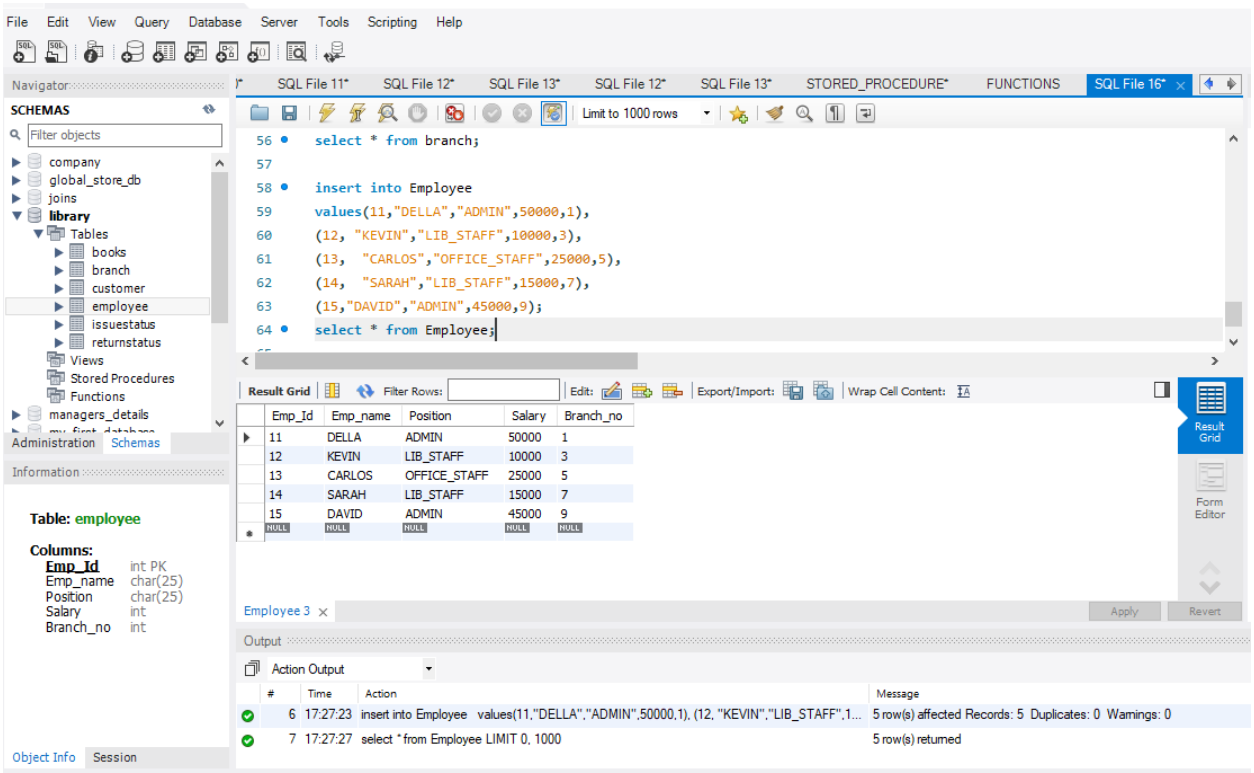


Display all the tables

1.BRANCH


Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
company
global_store_db
joins
library
Tables
books
branch
customer
employee
issuestatus
returnstatus
Views
Stored Procedures
Functions
managers_details
Administration Schemas
Information
Table: branch
Columns:
Branch_no int PK
Manager_Id int
Branch_address char(25)
Contact_no int
Object Info Session
SQL File 11* SQL File 12* SQL File 13* SQL File 12* SQL File 13* STORED_PROCEDURE* FUNCTIONS SQL File 16*
Limit to 1000 rows
50 (5,25,"mechanical dep",56789),
51 (6,26,"computer dep",67890),
52 (7, 27,"chemistry",98765),
53 (8,28,"electrical",87654),
54 (9,29,"physics dep",76543),
55 (10,30,"civil dep",54329);
56 select * from branch;
57
58
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Branch_no Manager_Id Branch_address Contact_no
1 21 science dep 12345
2 22 commers dep 23456
3 23 social dep 34567
4 24 electronics dep 45678
5 25 mechanical dep 56789
6 26 computer dep 67890
7 27 chemistry 98765
8 28 electrical 87654
9 29 physics dep 76543
Result Grid
Form Editor
branch 1
Apply Revert
Output
Action Output
Time Action Message
3 17:21:14 create table IssueStatus (Issue_Id int PRIMARY KEY , Issued_cust_id int , Issued_book_... 0 row(s) affected
4 17:18:05 select * from branch LIMIT 0, 1000 10 row(s) returned

2.EMPLOYEE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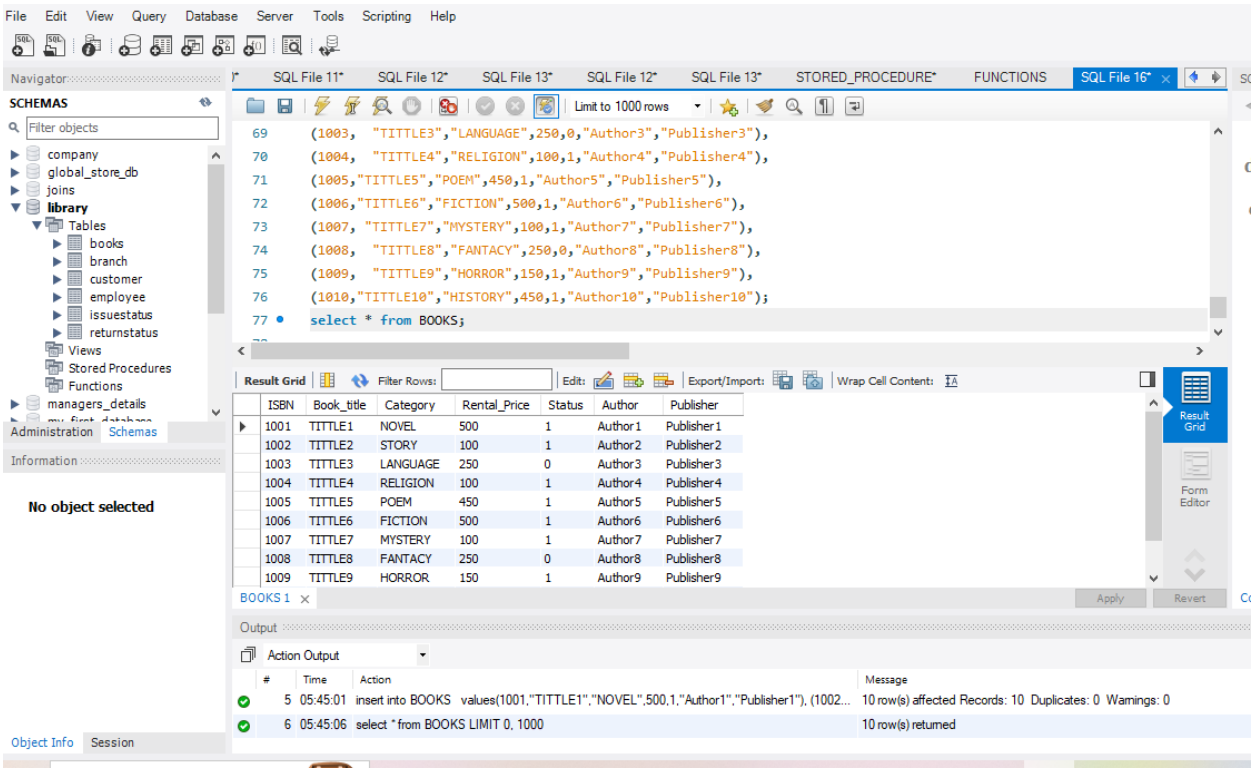
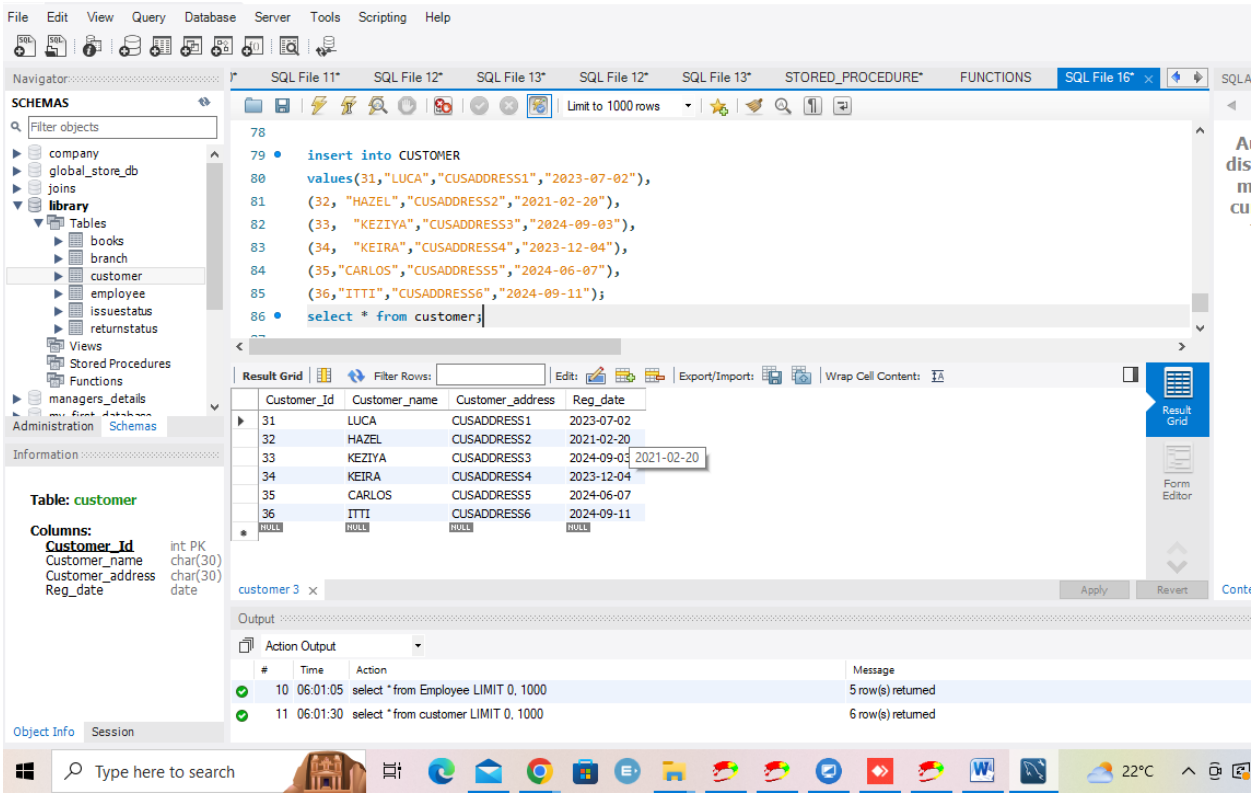
employee
issuestatus
returnstatus
Views
Stored Procedures
Functions
managers_details
Administration Schemas
Information
Table: employee
Columns:
Emp_Id int PK
Emp_name char(25)
Position char(25)
Salary int
Branch_no int
Object Info Session
SQL File 11* SQL File 12* SQL File 13* SQL File 12* SQL File 13* STORED_PROCEDURE* FUNCTIONS SQL File 16*
Limit to 1000 rows
56 select * from branch;
57
58 insert into Employee
59 values(11,"DELLA","ADMIN",50000,1),
60 (12, "KEVIN","LIB_STAFF",10000,3),
61 (13, "CARLOS","OFFICE_STAFF",25000,5),
62 (14, "SARAH","LIB_STAFF",15000,7),
63 (15,"DAVID","ADMIN",45000,9);
64 select * from Employee;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Emp_Id Emp_name Position Salary Branch_no
11 DELLA ADMIN 50000 1
12 KEVIN LIB_STAFF 10000 3
13 CARLOS OFFICE_STAFF 25000 5
14 SARAH LIB_STAFF 15000 7
15 DAVID ADMIN 45000 9
Result Grid
Form Editor
Employee 3
Apply Revert
Output
Action Output
Time Action Message
6 17:27:23 insert into Employee values(11,"DELLA","ADMIN",50000,1), (12, "KEVIN","LIB_STAFF",1... 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
7 17:27:27 select * from Employee LIMIT 0, 1000 5 row(s) returned

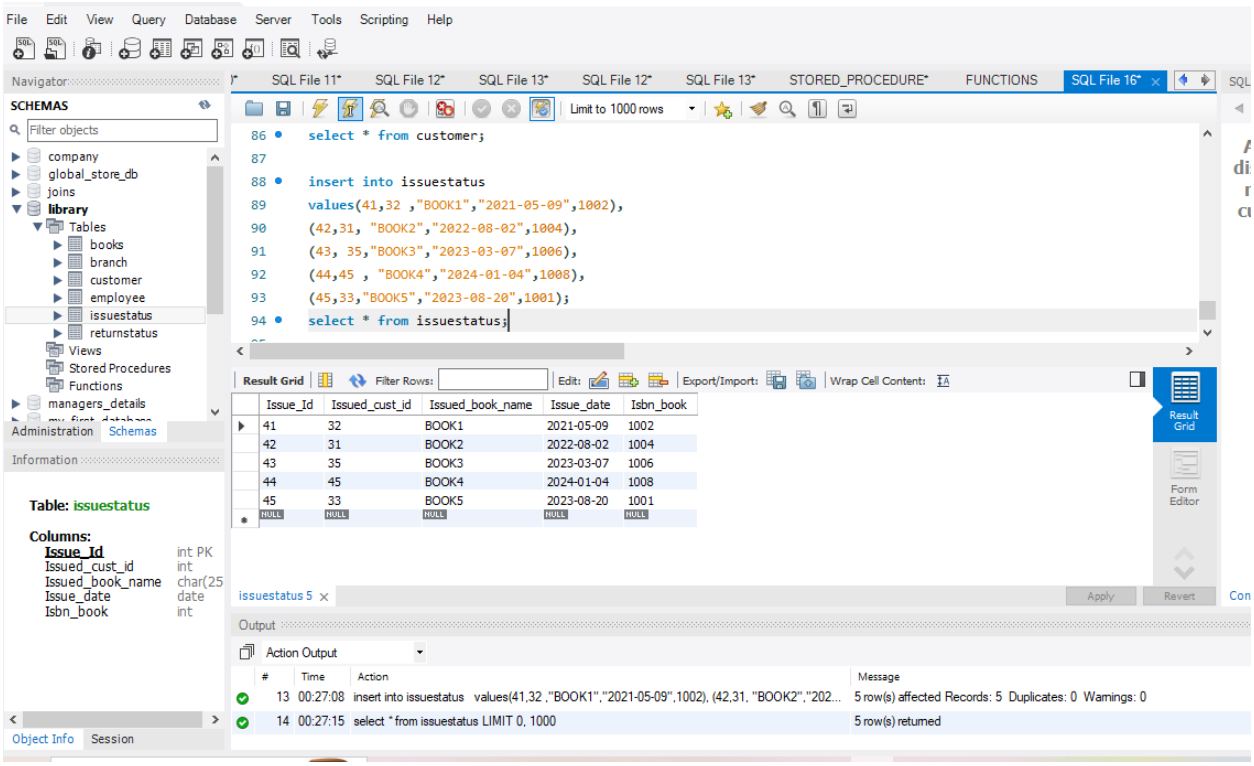
3.BOOKS



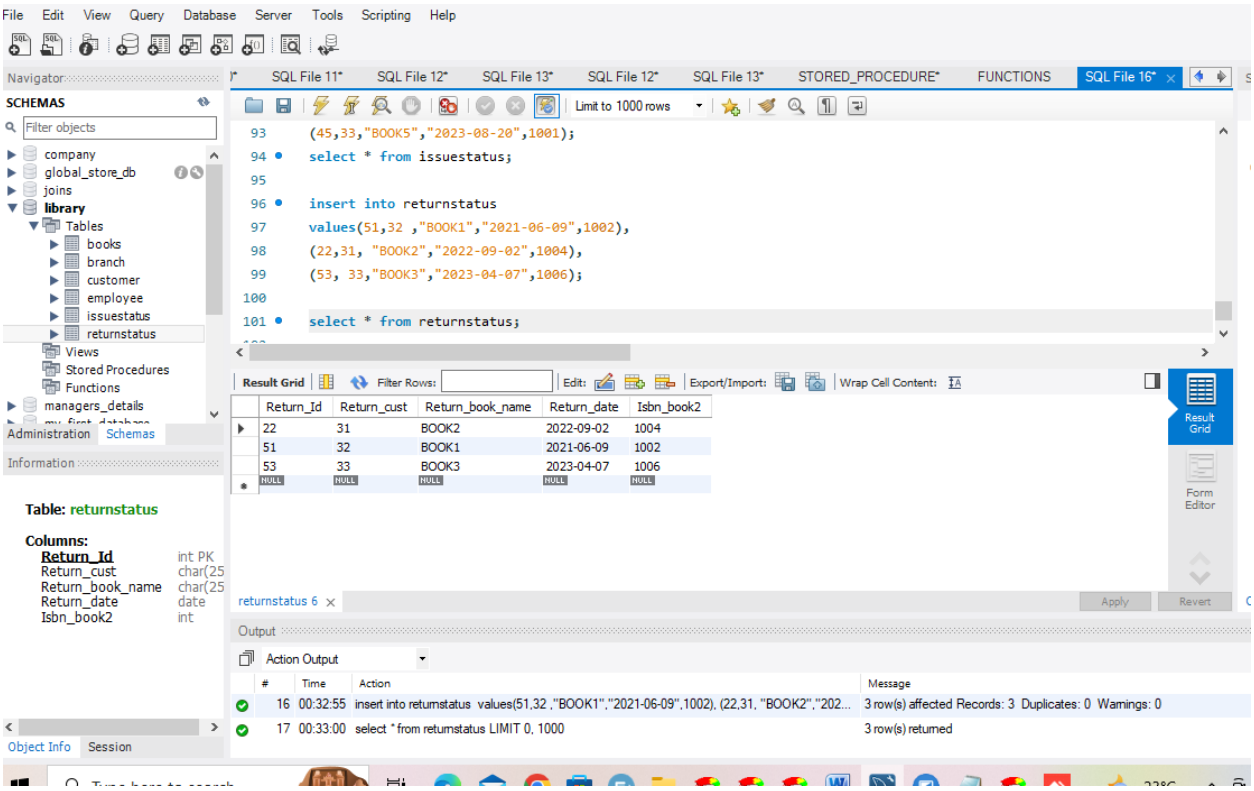
4. Customer



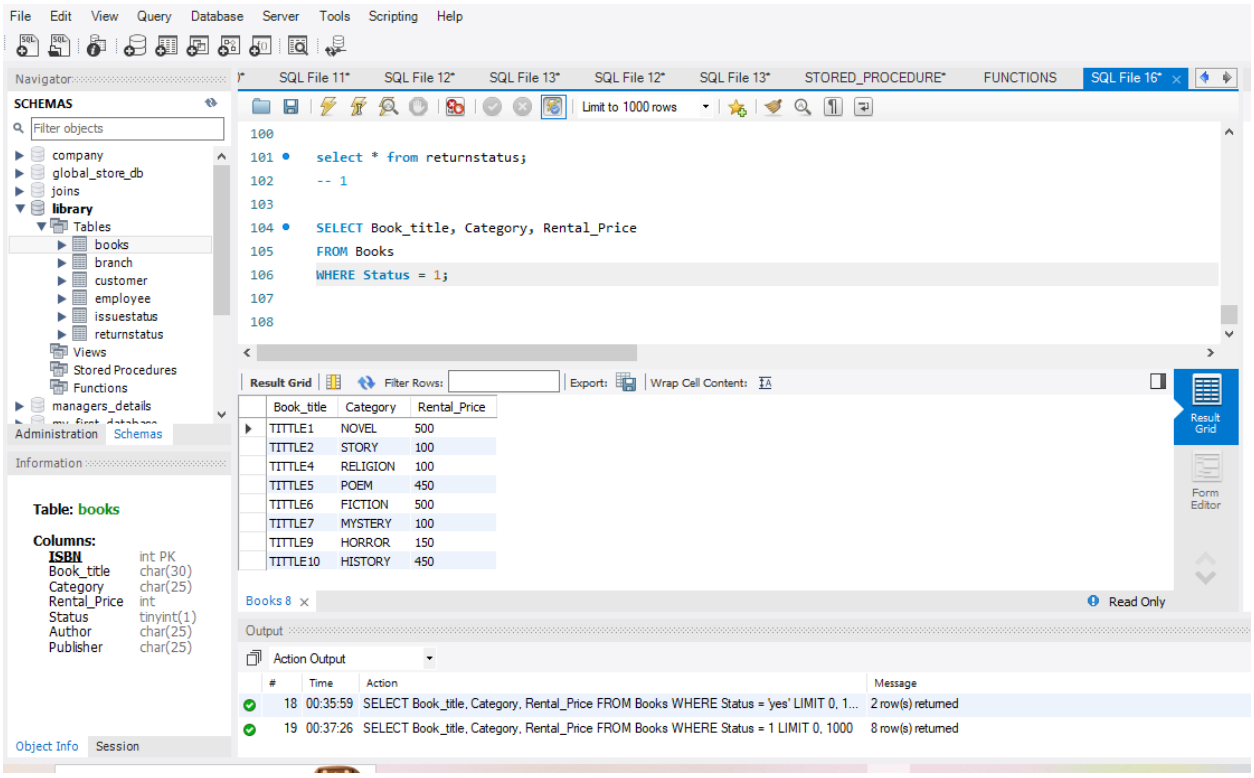
5. IssueStatus



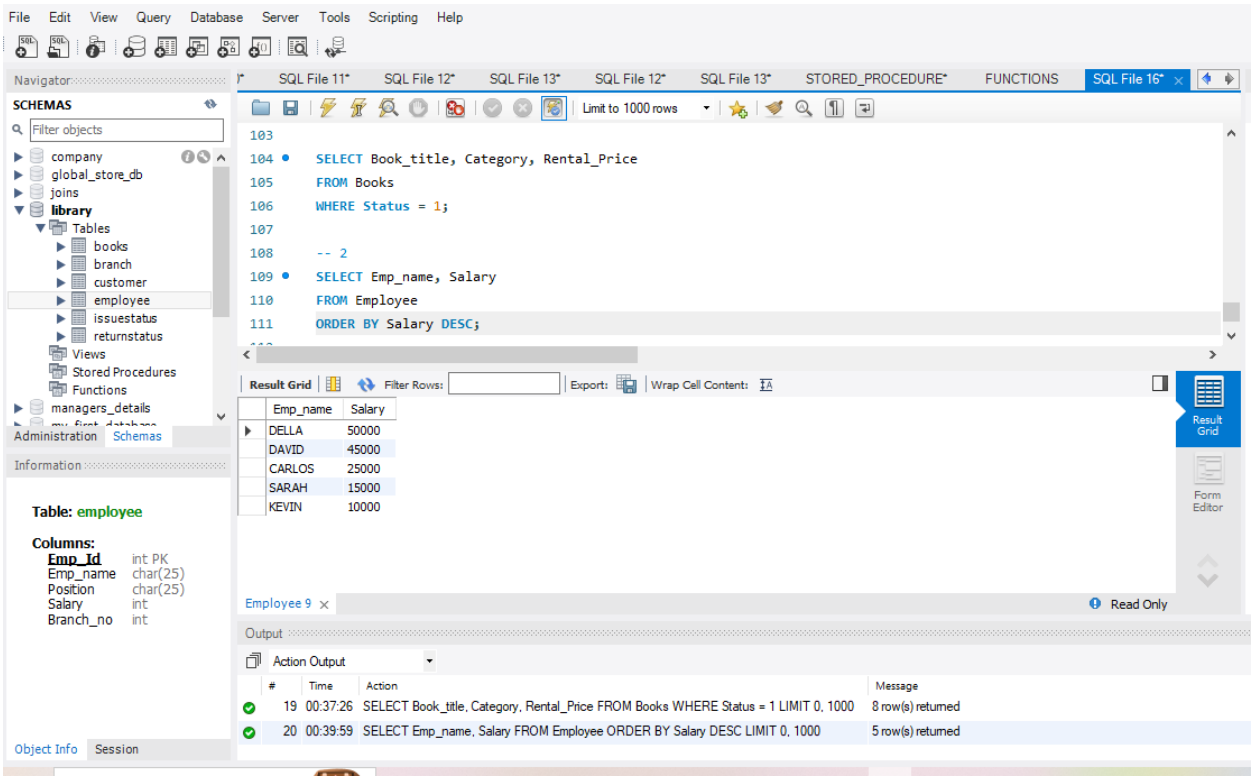
6. ReturnStatus



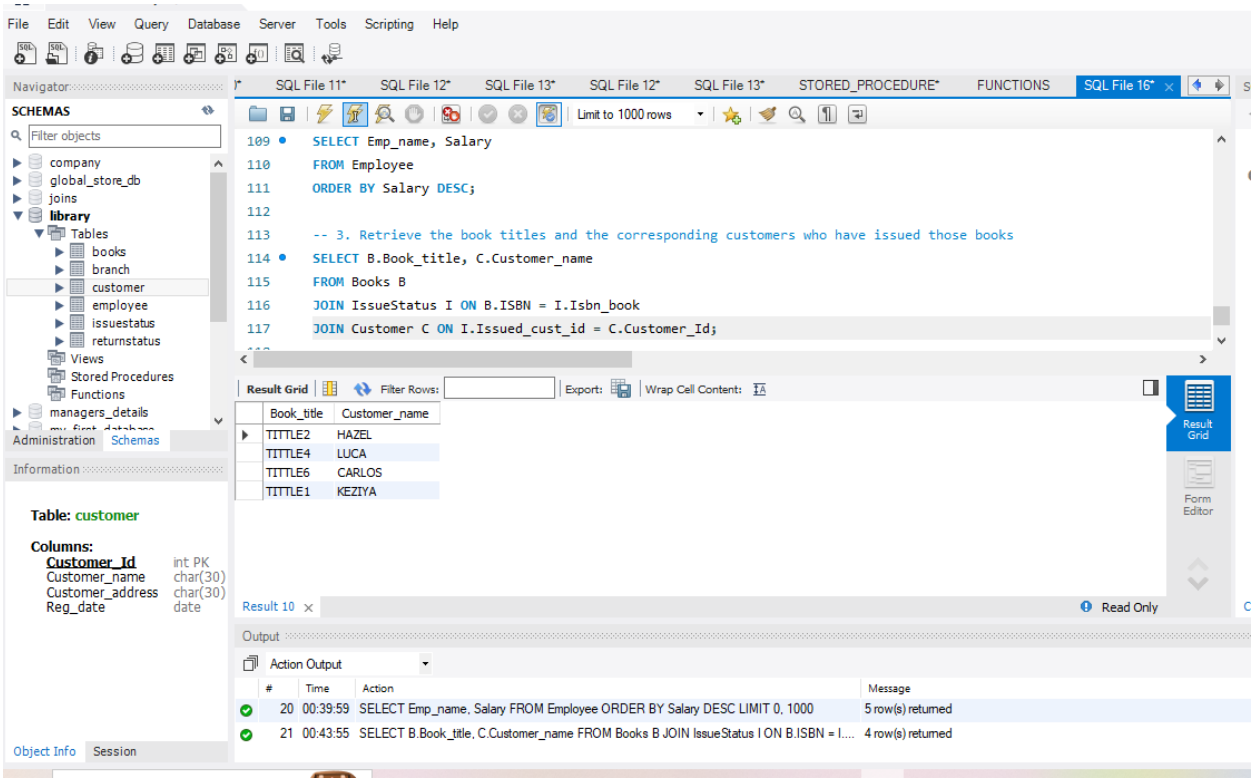
1. Retrieve the book title, category, and rental price of all available books.



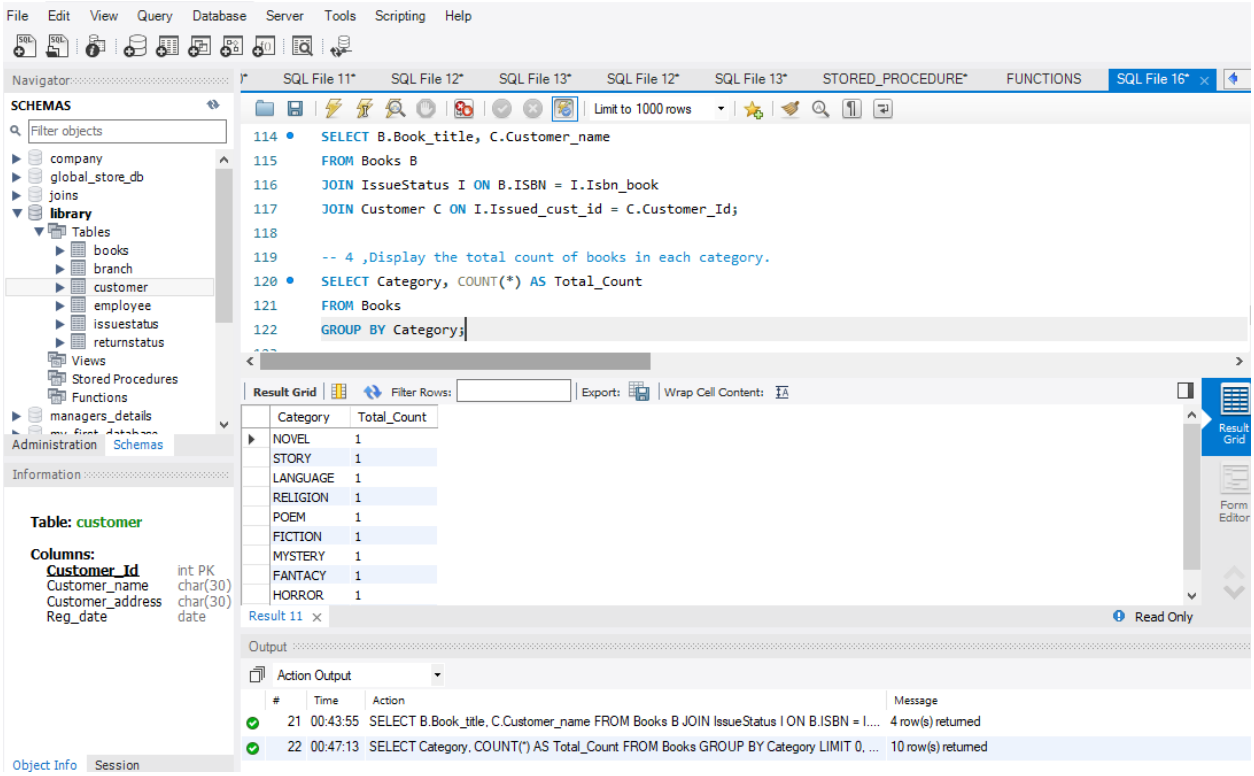
2. List the employee names and their respective salaries in descending order of salary.



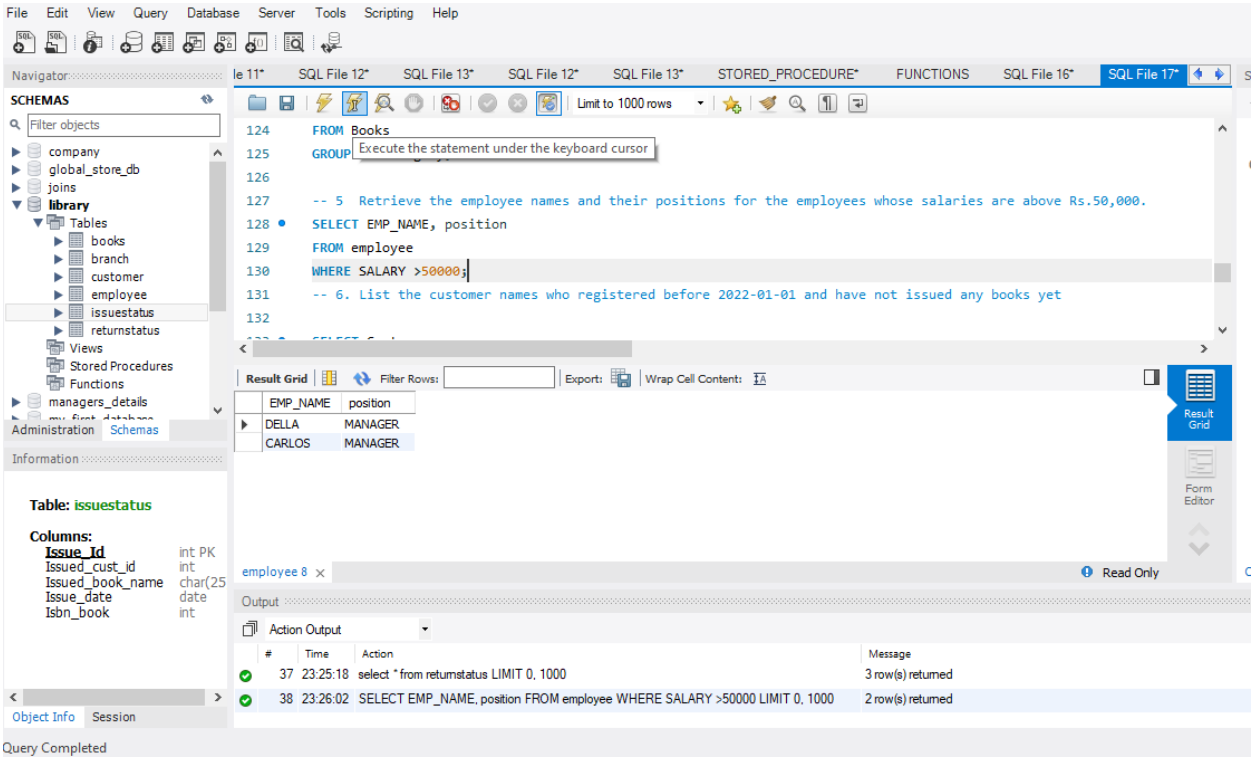
3. Retrieve the book titles and the corresponding customers who have issued those books



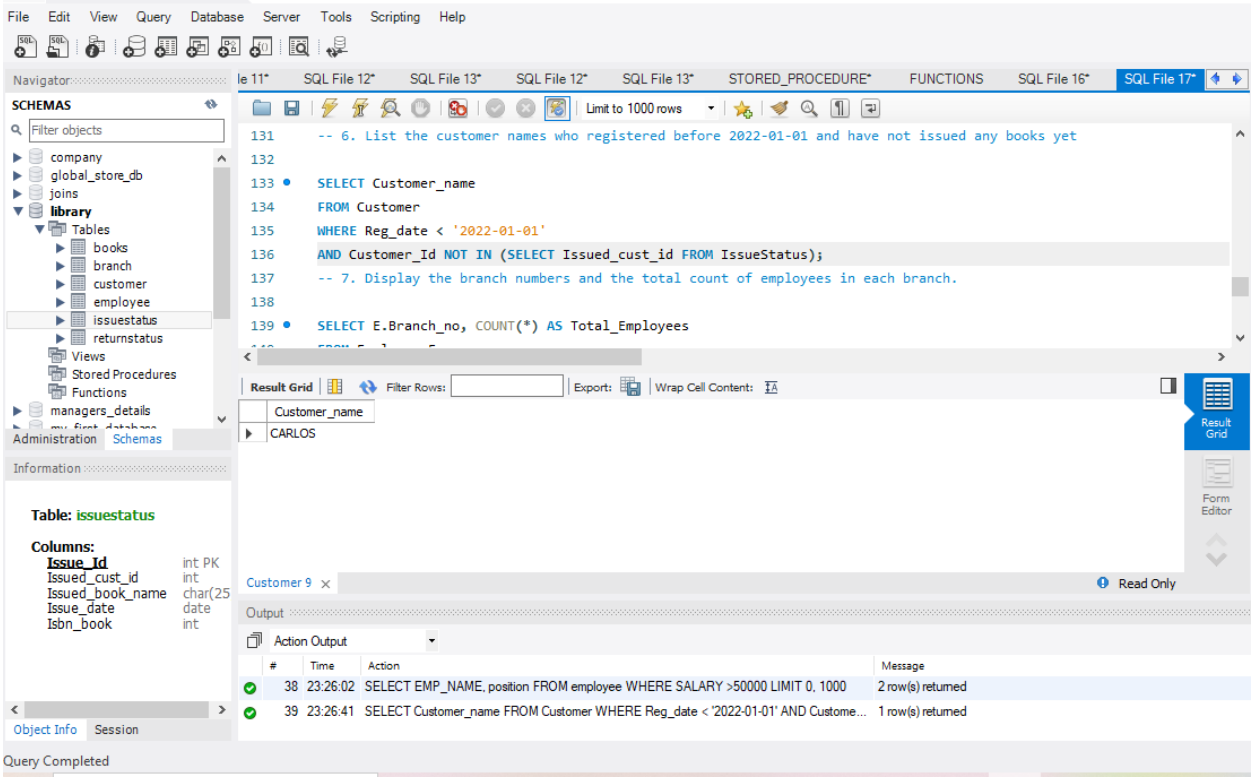
4. Display the total count of books in each category.



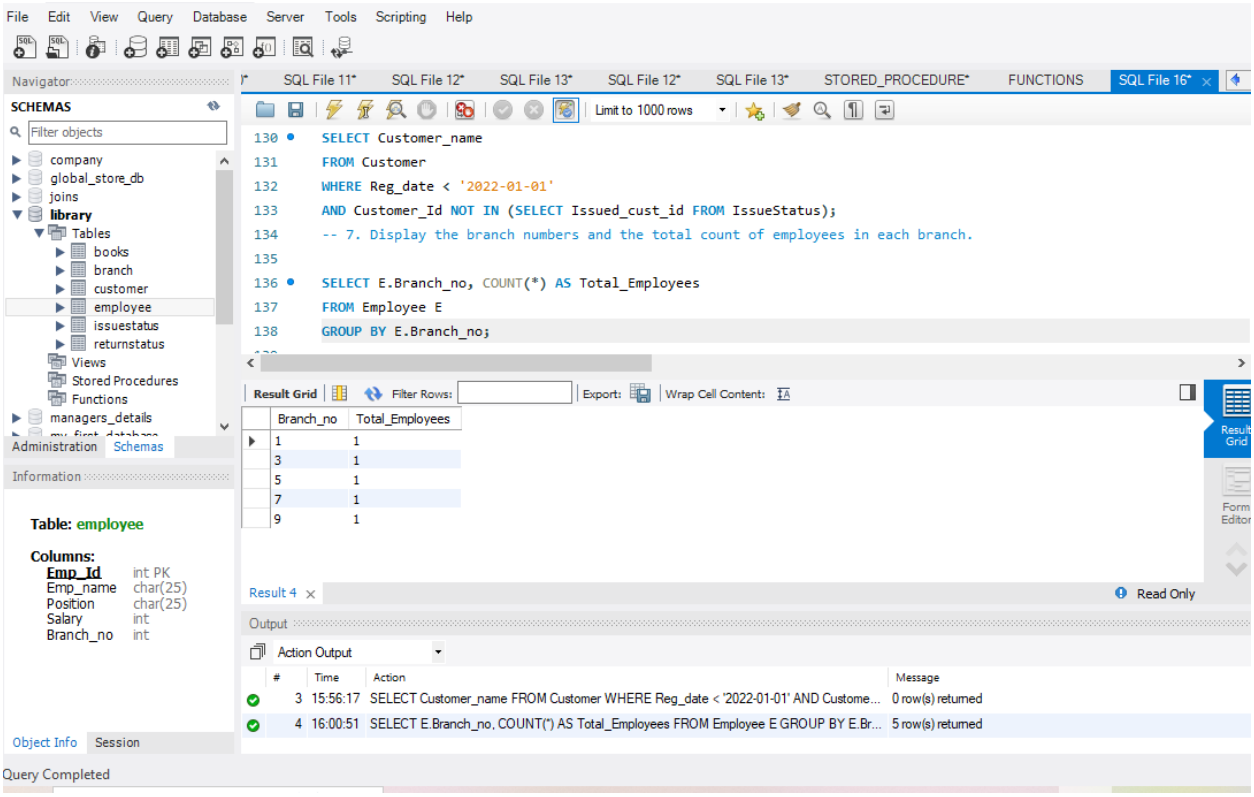
5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



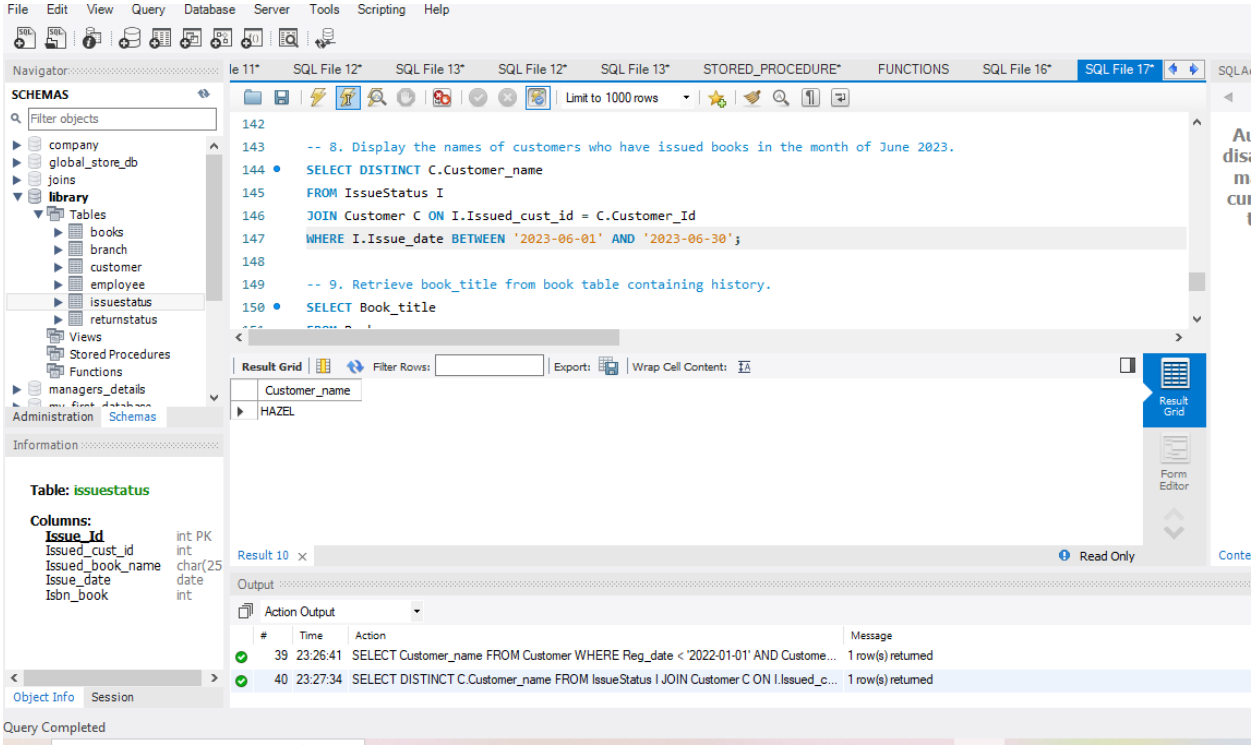
6. List the customer names who registered before 2022-01-01 and have not issued any books yet



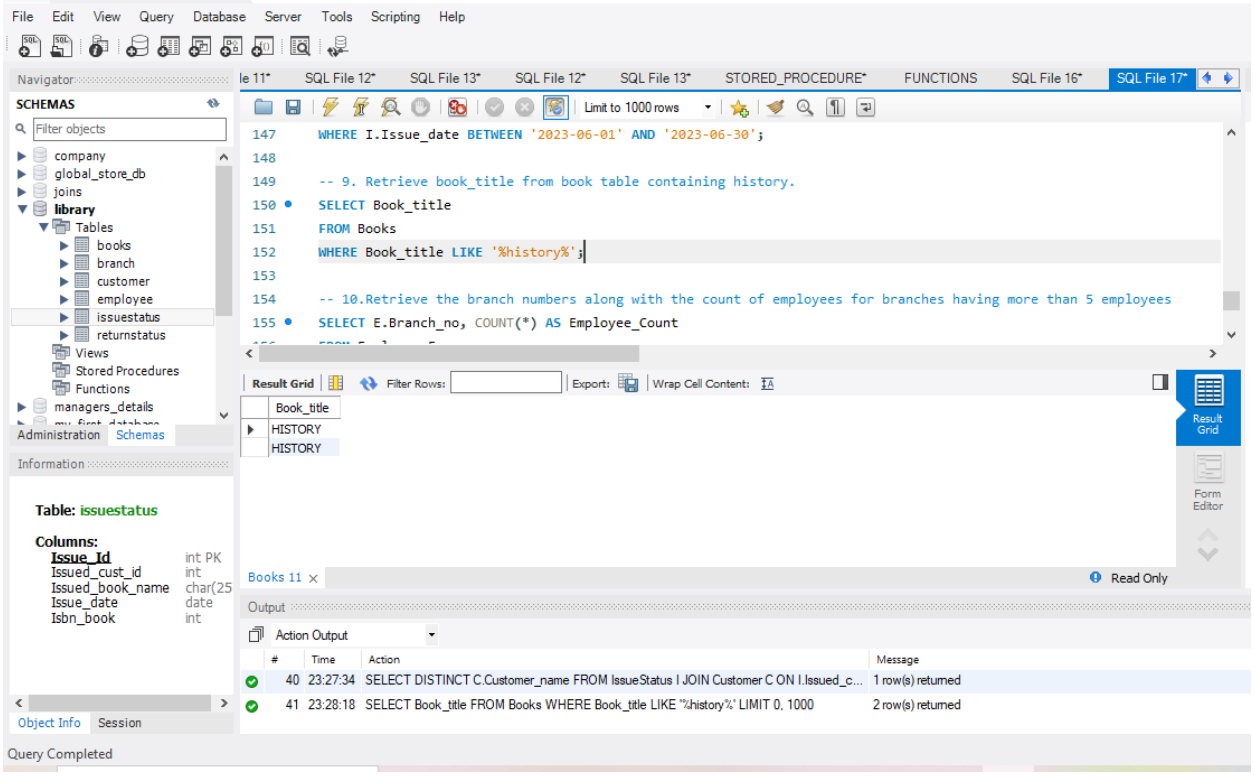
7. Display the branch numbers and the total count of employees in each branch.



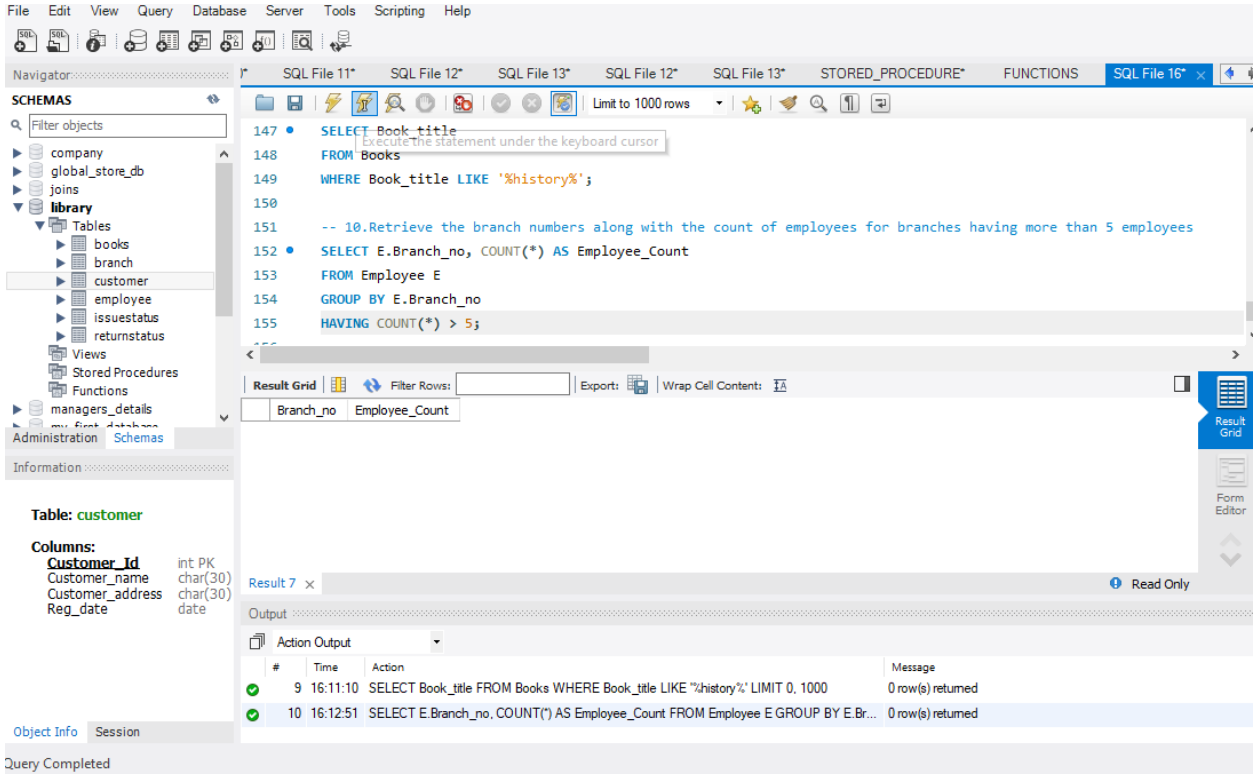
8. Display the names of customers who have issued books in the month of June 2023.



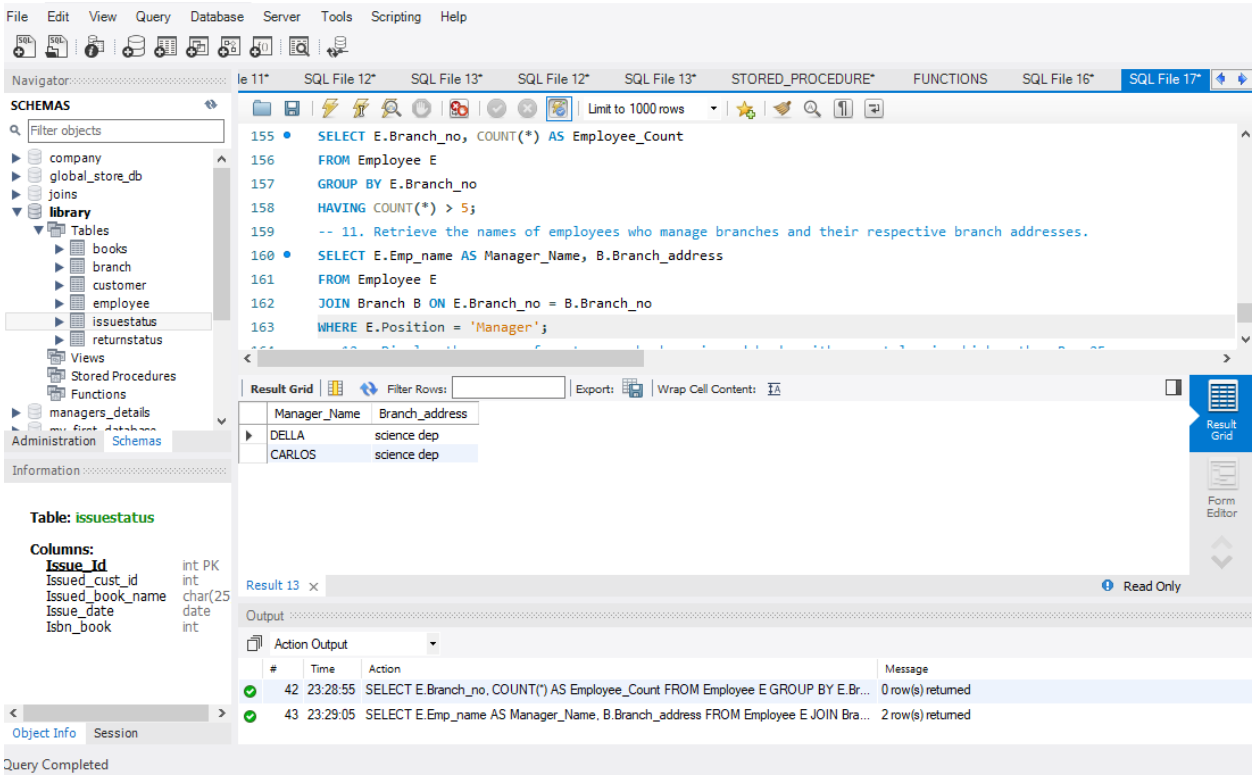
9. Retrieve book_title from book table containing history.



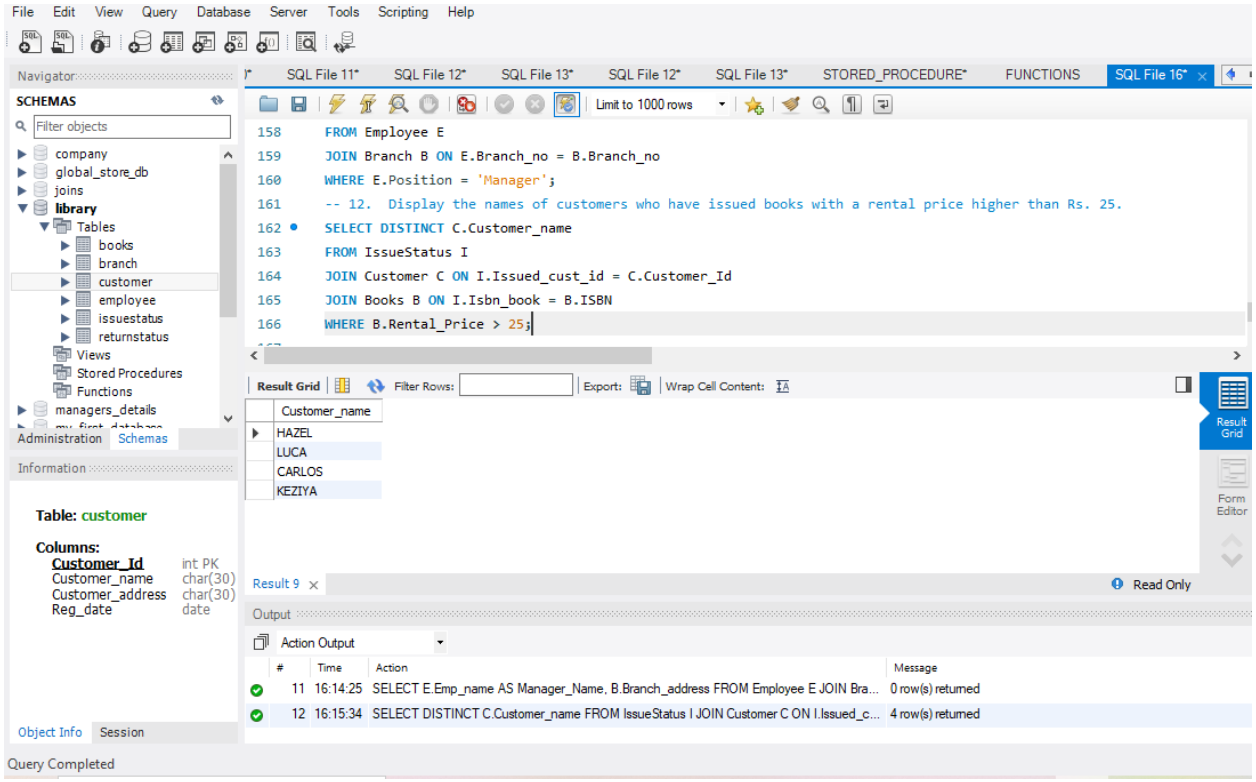
10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees



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.


File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
company
global_store_db
joins
library
Tables
books
branch
customer
employee
issuestatus
returnstatus
Views
Stored Procedures
Functions
managers_details
Administration Schemas
Information
Table: customer
Columns:
Customer_Id int PK
Customer_name char(30)
Customer_address char(30)
Reg_date date
Object Info Session
SQL File 11* SQL File 12* SQL File 13* SQL File 12* SQL File 13* STORED_PROCEDURE* FUNCTIONS SQL File 16*
Limit to 1000 rows
158 FROM Employee E
159 JOIN Branch B ON E.Branch_no = B.Branch_no
160 WHERE E.Position = 'Manager';
161 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
162 SELECT DISTINCT C.Customer_name
163 FROM IssueStatus I
164 JOIN Customer C ON I.Issued_cust_id = C.Customer_Id
165 JOIN Books B ON I.Isbn_book = B.ISBN
166 WHERE B.Rental_Price > 25;
Result Grid Filter Rows: Export: Wrap Cell Content:
Customer_name
HAZEL
LUCA
CARLOS
KEZIYA
Result Grid
Form Editor
Result 9
Read Only
Output
Action Output
Time Action Message
11 16:14:25 SELECT E.Emp_name AS Manager_Name, B.Branch_address FROM Employee E JOIN Bra... 0 row(s) returned
12 16:15:34 SELECT DISTINCT C.Customer_name FROM IssueStatus I JOIN Customer C ON I.Issued_c... 4 row(s) returned
Query Completed