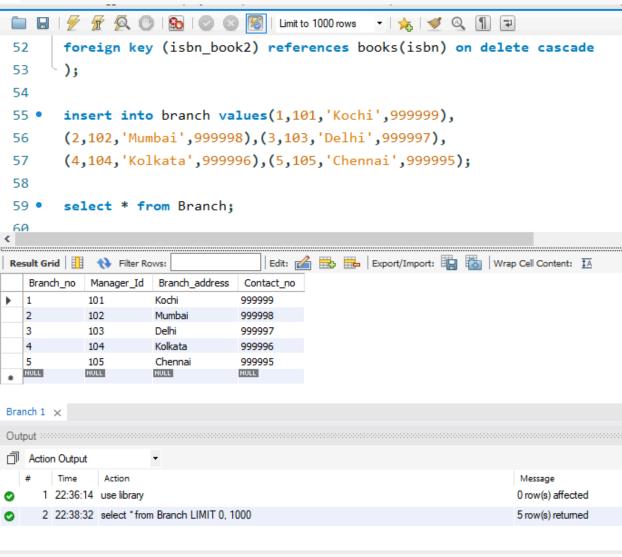
MySQL PROJECT

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

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

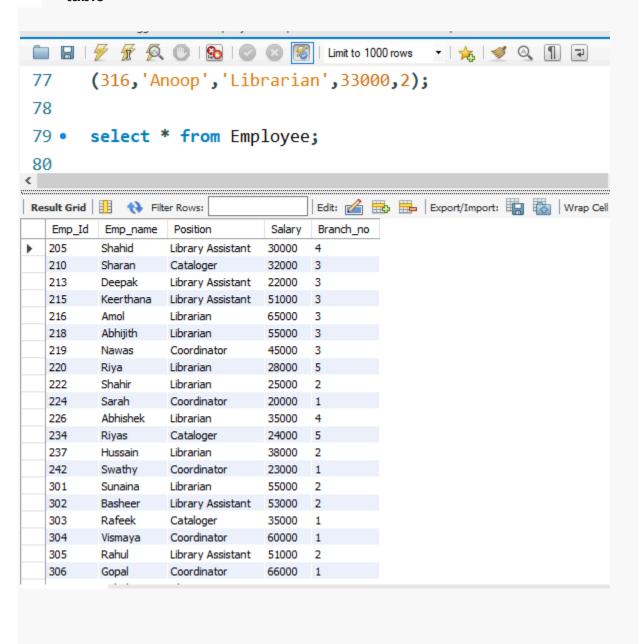
Attributes for the tables:

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



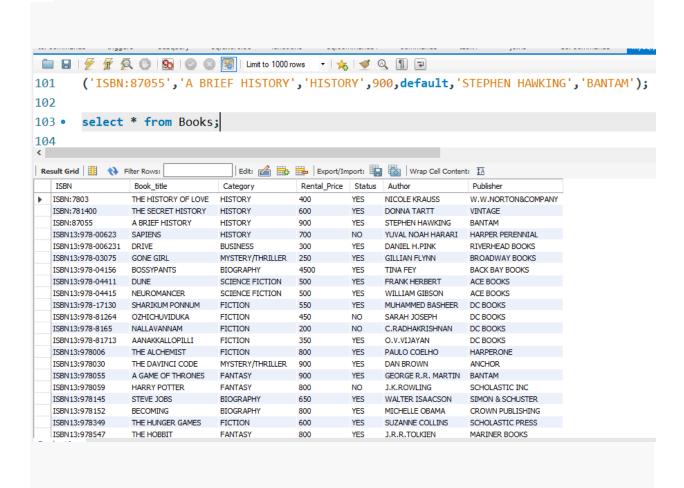
2. Employee

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



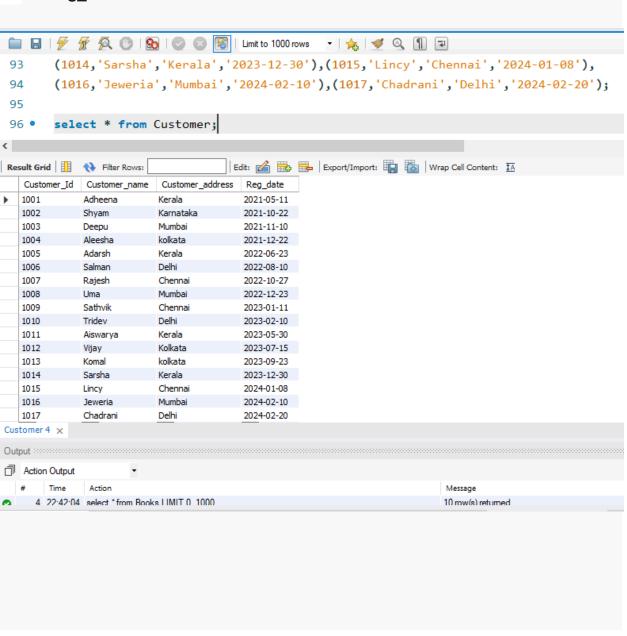
3. Books

- ISBN Set as PRIMARY KEY
- Book_title
- Category
- Rental Price
- Status [Give yes if book available and no if book not available]
- Author
- Publisher



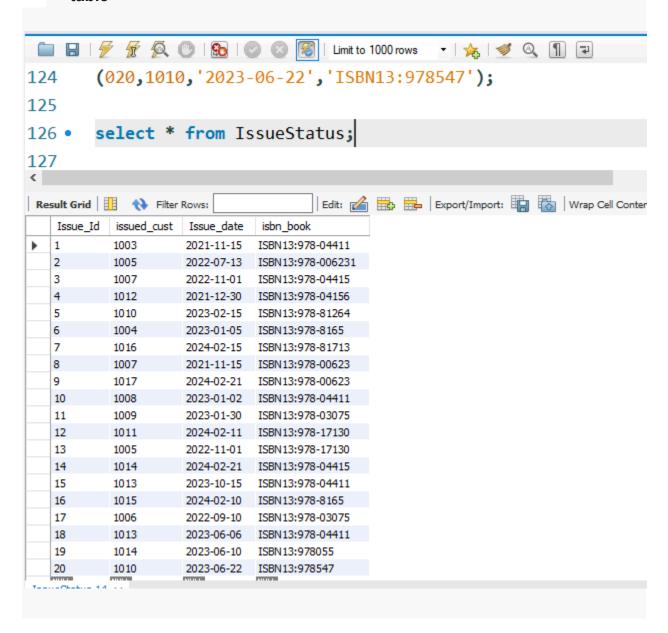
4. Customer

- Customer Id Set as PRIMARY KEY
- Customer_name
- Customer_address
- Reg_date



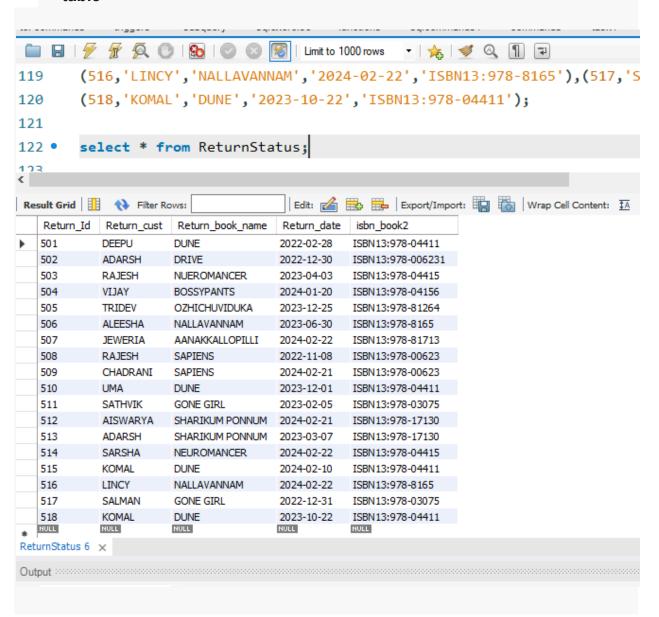
5. IssueStatus

- 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



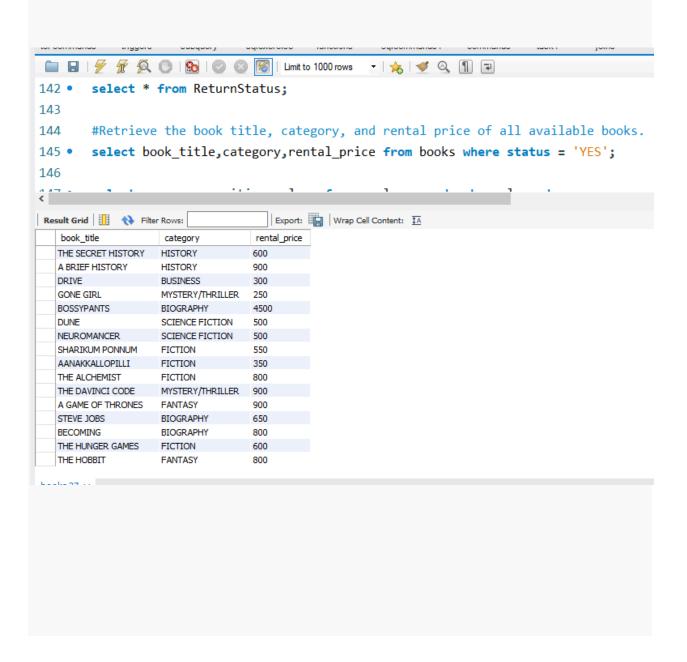
6. ReturnStatus

- 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

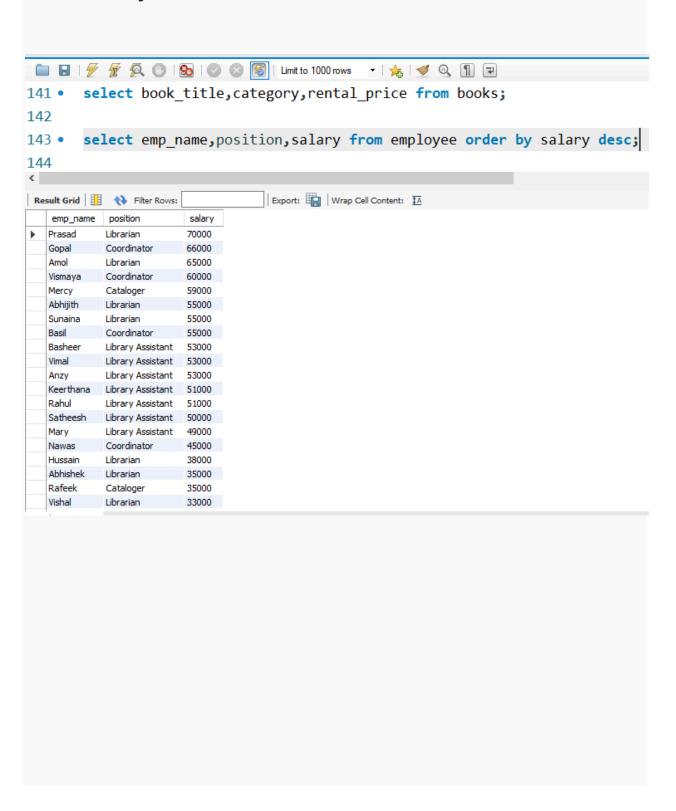


Display all the tables and Write the queries for the following:

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

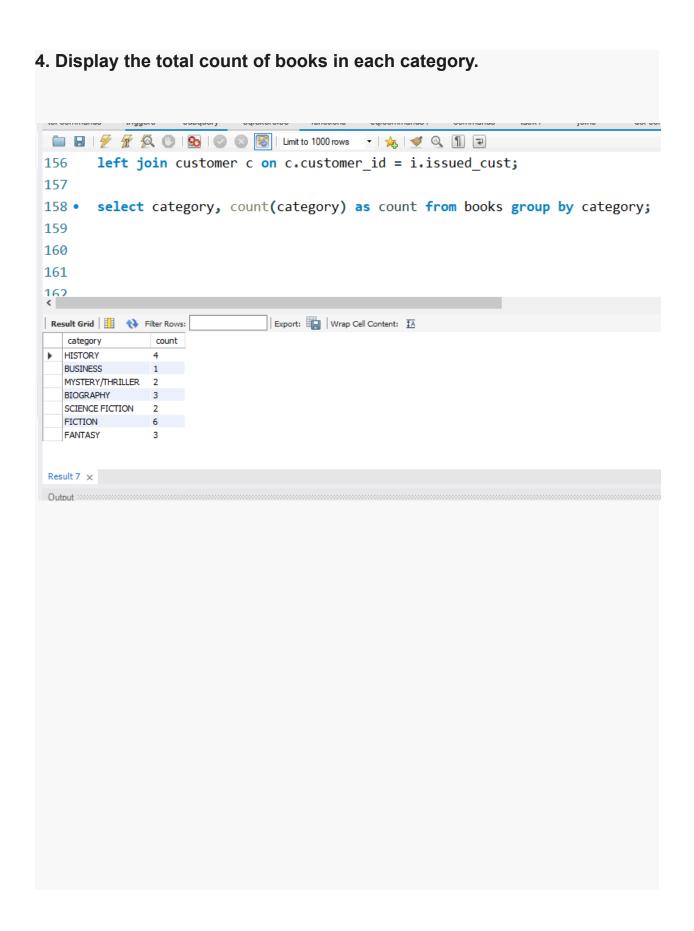


2. List the employee names and their respective salaries in descending order of salary.



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

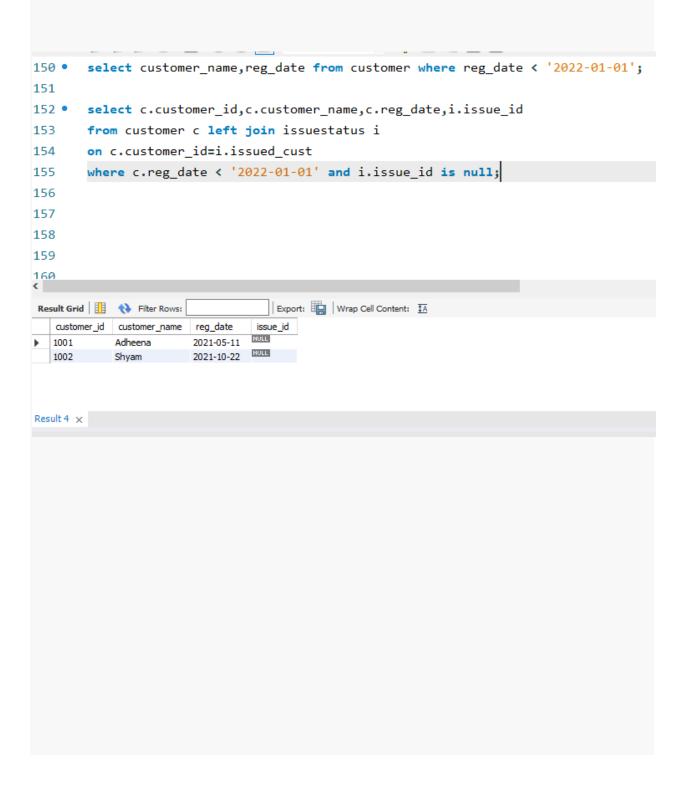




5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



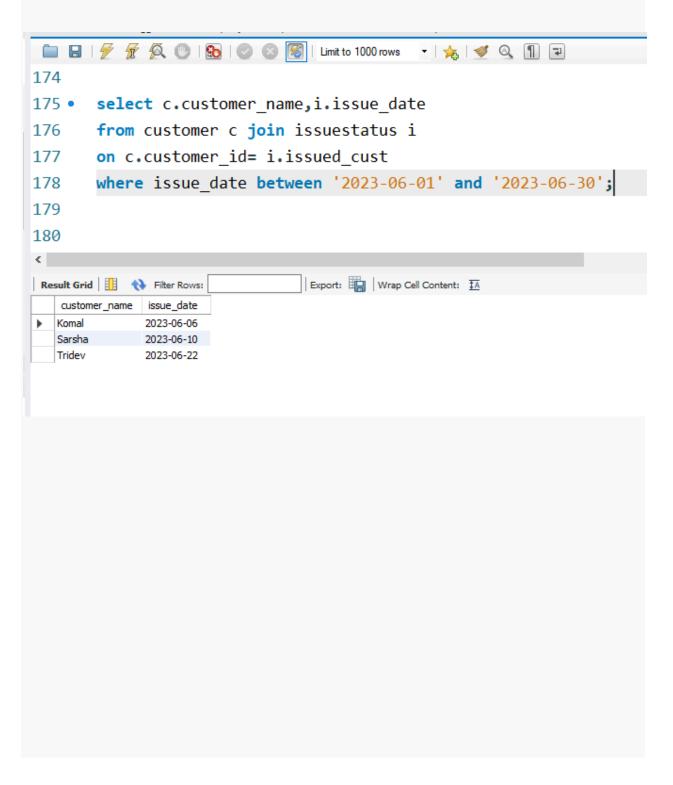
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.



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.

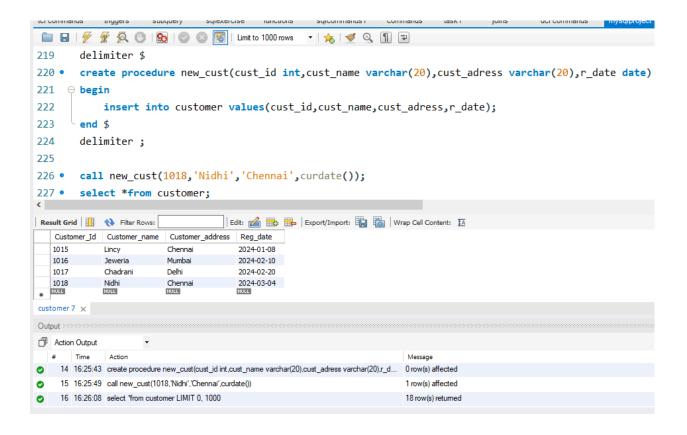


9. Retrieve book_title from book table containing history. □ □ □ | \(\frac{\nagger}{\psi} \) \(\frac{\nagger}{\psi} \) \(\frac{\nagger}{\psi} \) | \(\frac{\nagger}{\nagger} \) | \(\frac{\na 193 194 • select book_title from books where category = 'History'; 195 • select book_title from books where book_title like "% History" or book_title like "% History %"; 196 197 198 199 Export: Wrap Cell Content: 🟗 book_title ▶ THE HISTORY OF LOVE THE SECRET HISTORY A BRIEF HISTORY books 11 ×

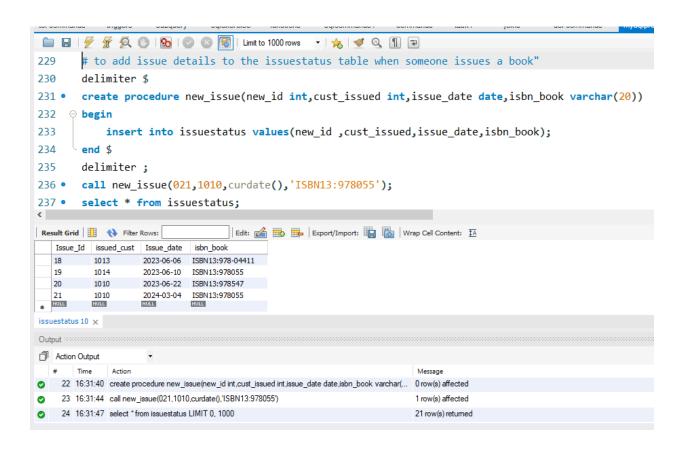
10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees

```
□ □ □ | \( \frac{\tau}{\tau} \) \( \frac{\tau}{\tau} \) \( \frac{\tau}{\tau} \) | \( \frac{\
199 • create view countemp 5 as
 200
                                       select b.branch_no,b.branch_address,e.emp_name
 201
                                       from branch b join employee e
                                       on b.branch no=e.branch no;
 202
                                      select * from countemp 5;
 203 •
 204
                                       select branch no,branch address,count(emp name) as"count"
 205 •
 206
                                       from countemp 5
                                       group by branch no
 207
                                       having count(emp name)>5;
 208
 209
                                                                                                                                                                      Export: Wrap Cell Content: IA
 branch_no branch_address count
                                                      Mumbai
              2
                                                      Delhi
```

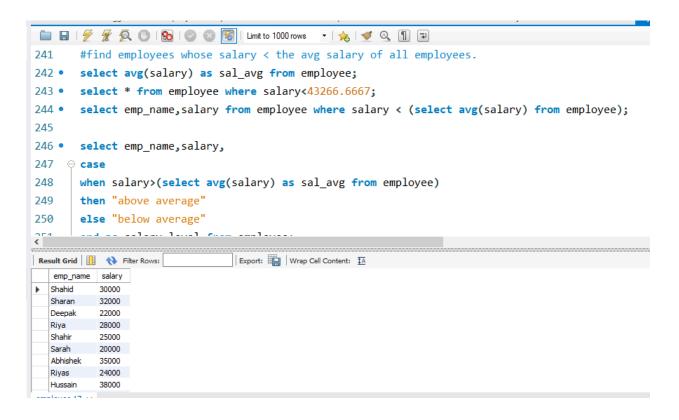
11.To add a new customer to the customer table.



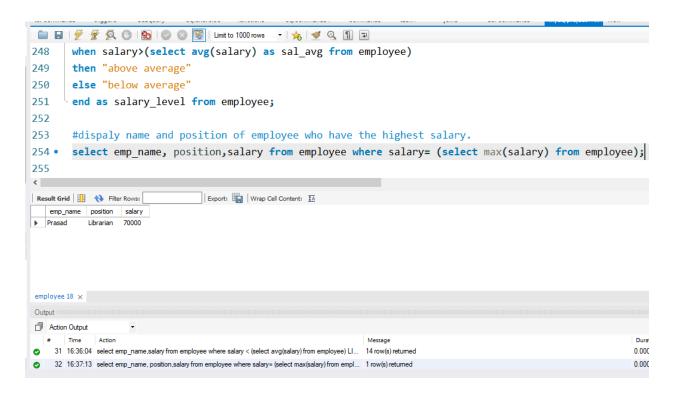
12. To add issue details to the issuestatus table when someone issues a book"



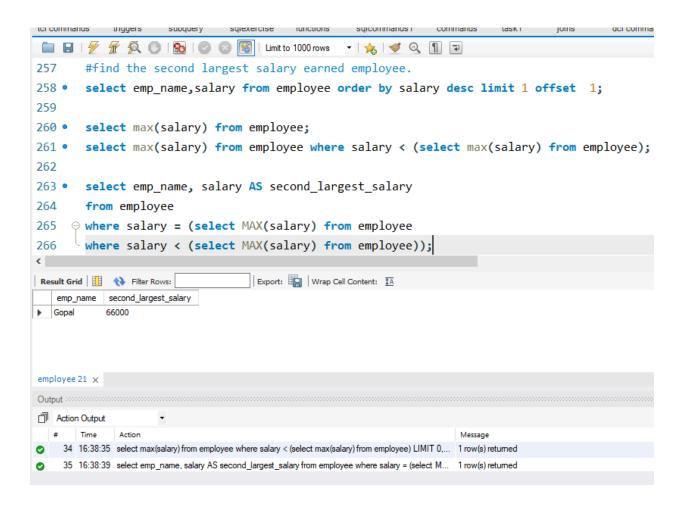
13. Find employees whose salary < the avg salary of all employees?



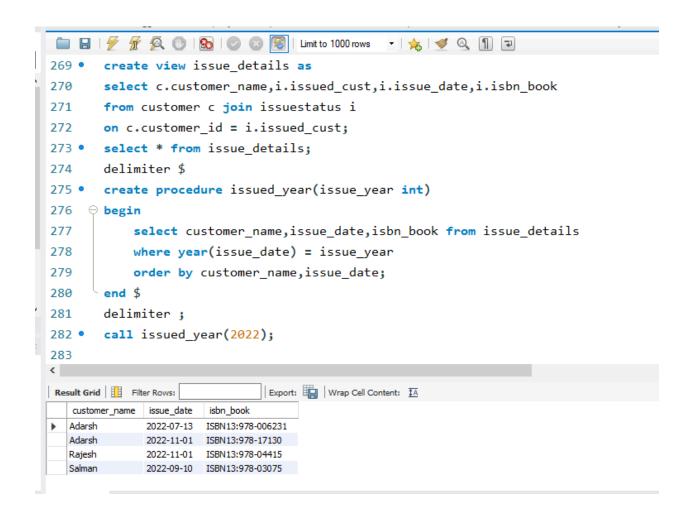
14. Display name and position of employee who has the highest salary.



15. Find the second largest salary earned employee.



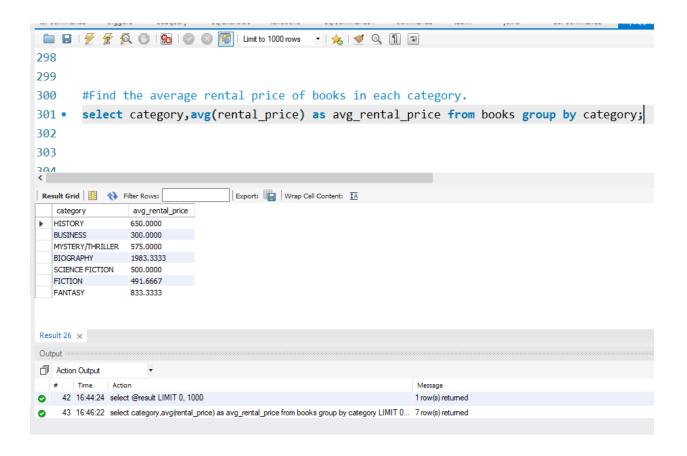
16.Retrieve the details of customers who have issued books separately in the years 2021, 2022, 2023, and 2024?



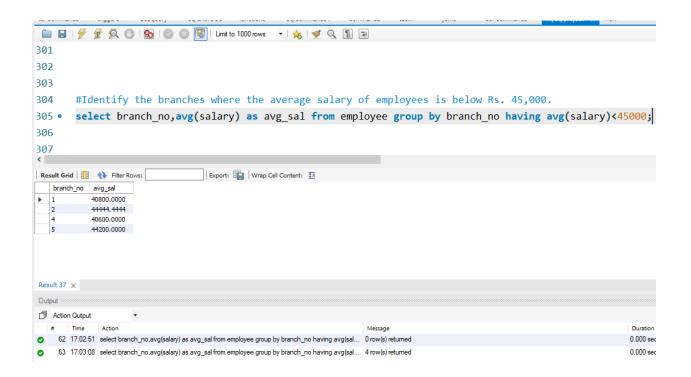
17. Find the total number of customers from customer table.

```
286
287
     #Find the total number of customers from customer table.
288
289
     delimiter $
290 •
     create procedure count_cust(out cust int)
291 ⊖ begin
         select count(customer name) into cust from customer;
292
    end $
293
     delimiter;
294
295
296 • call count cust(@result);
     select @result;
297 •
298
<
                        Export: Wrap Cell Content: 🔼
@result
18
```

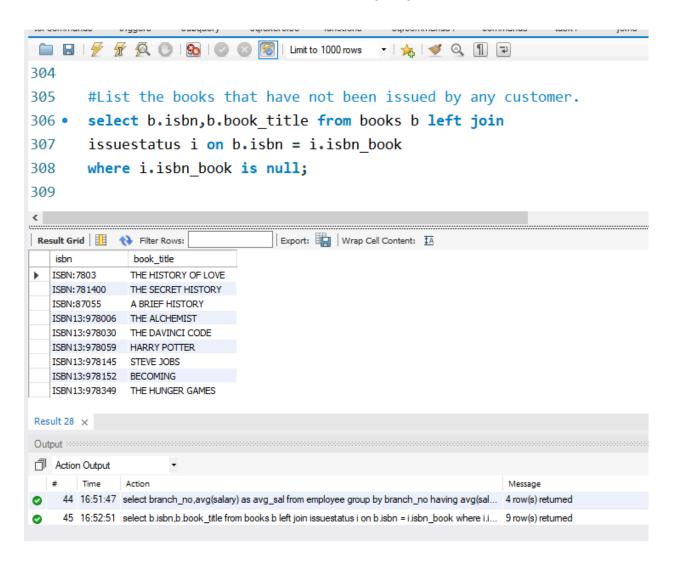
18. Find the average rental price of books in each category.



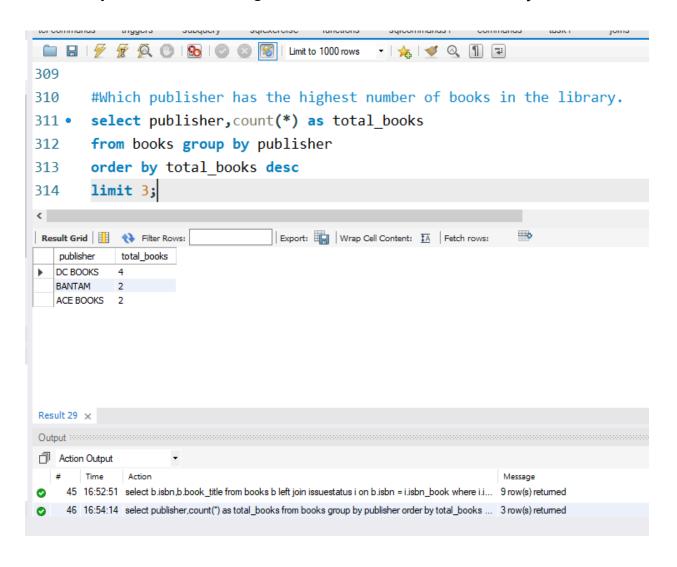
19. Identify the branches where the average salary of employees is below Rs. 45,000.



20.List the books that have not been issued by any customer.



21. Which publisher has the highest number of books in the library.



22.create a before update trigger if we try to insert salary < 20000 in the employee table.

```
🚞 🖥 | 💆 📆 👰 🔘 | 🗞 | ⊘ ⊗ 🔞 | Limit to 1000 rows 🔻 | 🚖 | 💇 🔍 🗻 🖃
        #create a before update trigger if we try to insert salary < 20000 in the employee table.
        delimiter $
317
318 • create trigger before_update_trigger
319
        before update on employee
320
        for each row
321 ⊖ begin
322
             if new.salary < 20000 then</pre>
             signal sqlstate "45000"
323
324
             set message_text = "salary cannot be updated to < 20000";</pre>
325
             end if;
        end $
326
        delimiter;
327
328
        update employee set salary = 15000 where emp_id =222 ;
77A
Output :
Action Output
                                                                    Message
58 16:57:41 create trigger before_update_trigger before update on employee for each row begin if new.s... 0 row(s) affected
59 16:57:45 update employee set salary = 15000 where emp_id =222
                                                                    Error Code: 1644. salary cannot be updated to < 20000
```

23.create a before delete trigger if we try to delete employee details whose salary is >35000 in the employee table.

