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:

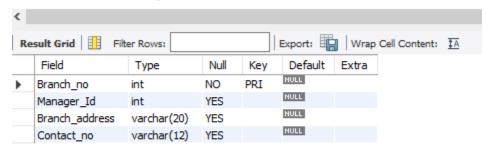
- 1. Branch
- Branch_no
 - Set as PRIMARY KEY
 - Manager_Id
 - Branch_address
 - Contact_no
- 2. Employee
- Emp_Id Set as PRIMARY KEY
- Emp_name
- Position
- Salary
- Branch_no
 - Set as FOREIGN KEY and it refer Branch_no in Branch table
- 3. Books
- · ISBN
 - Set as PRIMARY KEY
 - Book_title
 - Category
 - 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 create database library;
 - 2 use library;

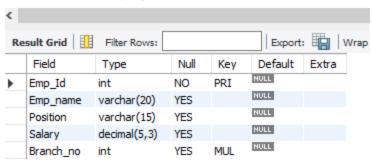
```
55 • create table Branch(Branch_no int primary key, Manager_Id int, Branch_address varchar(20), Contact_no varchar(12));
 56
 57 ● ⊖ create table Employee(Emp_Id int PRIMARY KEY, Emp_name varchar(20), Position varchar(15), Salary decimal(5,3), Branch no int,
       FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no));
 60 • ⊖ create table Books(ISBN int PRIMARY KEY, Book_title varchar(20), Category varchar(10), Rental_Price decimal(5,3),
        Statu varchar(5), Author varchar(15), Publisher varchar(15), check(Statu in ('Yes', 'No')));
 61
 62
 63 •
        create table Customer(Customer_Id int PRIMARY KEY, Customer_name varchar(10), Customer_address varchar(15), Reg_date date);
 65 ● ⊖ create table IssueStatus(Issue_Id int PRIMARY KEY, Issued_cust int, Issued_book_name varchar(15), Issue_date date, Isbn_book int,
       FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id), FOREIGN KEY(Isbn_book) REFERENCES Books(ISBN));
 66
 68 • ⊝ create table ReturnStatus(Return_Id int PRIMARY KEY, Return_cust varchar(15), Return_book_name varchar(15), Return_date date,
       Isbn_book2 int, FOREIGN KEY(Isbn_book2) REFERENCES Books(ISBN));
Dutput
Action Output
  1 13:31:10 create table Branch (Branch_no int primary key, Manager_ld int, Branch_address varchar(20), ... 0 row(s) affected
2 13:31:11 create table Employee(Emp_Id int PRIMARY KEY, Emp_name_varchar(20), Position_varchar(1... 0 row(s) affected
     3 13:31:11 create table Books(ISBN int PRIMARY KEY, Book_title varchar(20), Category varchar(10), Ren... 0 row(s) affected
4 13:31:11 create table Customer(Customer_Id int PRIMARY KEY, Customer_name_varchar(10), Customer... 0 row(s) affected
    5 13:31:12 create table IssueStatus(Issue_Id int PRIMARY KEY, Issued_cust int, Issued_book_name varc... 0 row(s) affected
6 13:31:12 create table ReturnStatus(Return_Id int PRIMARY KEY, Return_cust varchar(15), Return_boo... 0 row(s) affected
```

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

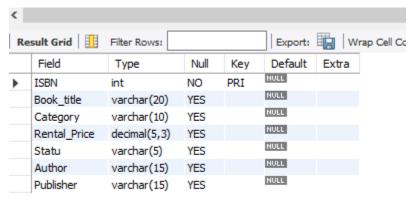
71 desc Branch;



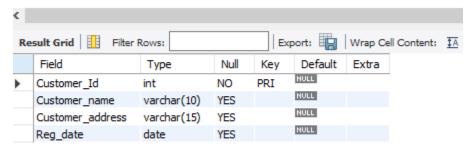
72 • desc Employee;



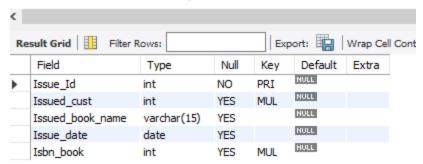
73 • desc Books;



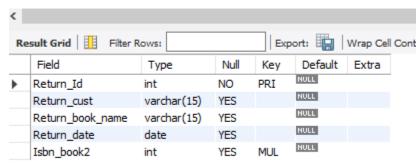
74 • desc Customer;



75 • desc IssueStatus;



76 • desc ReturnStatus;



INSERTING VALUES INTO TABLES

Table:Bank

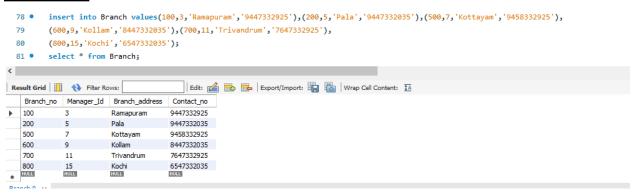


Table: Employee

```
insert into Employee values(3, 'Manu', 'Manager',70000,100),(5, 'Mohan', 'Manager',60000,200),(7, 'Mahesh', 'Manager',40000,500),
84
        (9,'Meera','Manager',50000,600),(11,'Makiry','Manager',40000,700),(15,'Manoj','Manager',60000,800),
        (133, 'Deepu', 'Cashier', 20000, 100), (567, 'Jobin', 'Helper', 10000, 200), (780, 'Babu', 'ASM', 40000, 500),
85
        (899, 'Mariyaa', 'Helper',50000,600),(1115, 'Mebin', 'Analyst',60000,700),(1589, 'Mano', 'Analyst',60000,800);
       insert into Employee values(303,'Aby','Caller',5000,100),(505,'Raj','Helper',10000,100),(707,'Keertha','ASM',40000,100),
88
        (909, 'neetha', 'Helper', 25000, 100), (1541, 'Malki', 'Analyst', 40000, 100), (1597, 'Ziby', 'HR', 30000, 800);
89 •
       select * from Employee;
                                         | Edit: 🚣 🖶 | Export/Import: 🏣 🐻 | Wrap Cell Content: 🖽
Result Grid 🔢 🙌 Filter Rows:
  Emp_Id Emp_name Position
                                        Branch no
                              Salary
          Manu
                    Manager
                             70000.00
          Mohan
                    Manager
                             60000.00
                                       200
          Mahesh
                    Manager
                             40000.00
                                       500
                    Manager
         Meera
                             50000.00
                                       600
          Makiry
                    Manager
                             40000.00
                                       700
                    Manager
 15
         Manoj
                             60000.00
                                       800
  133
          Deepu
                    Cashier
                             20000.00
                                       100
  303
          Aby
                    Caller
                             5000.00
                                       100
  505
          Raj
                    Helner
                             10000.00
                                       100
  567
          1obin
                    Helper
                             10000.00 200
 707
          Keertha
                    ASM
                             40000.00
                                      100
mployee 13 ×
```

Table: Books

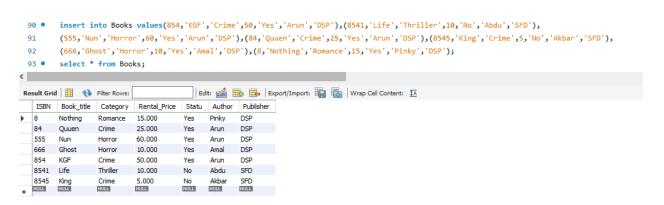


TABLE: CUSTOMER

96 • insert into Customer values(564,'Leo','Mannaparambil','2020-01-01'),(5641,'Yaswanth','Mundaplackal','2022-05-01'),
97 (664,'Rony','Koithara','2023-01-08'),(7641,'Rincy','kaitharan','2009-05-01'),(594,'Swetha','Delhi','2024-01-01'),
98 (8794,'Vishnu','Mundaplackal','2009-05-01');
99 • select * from Customer;

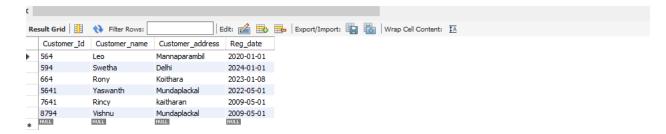


TABLE : ISSUESTAUS

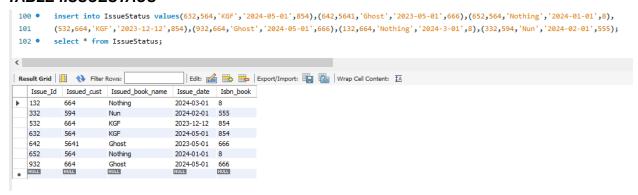
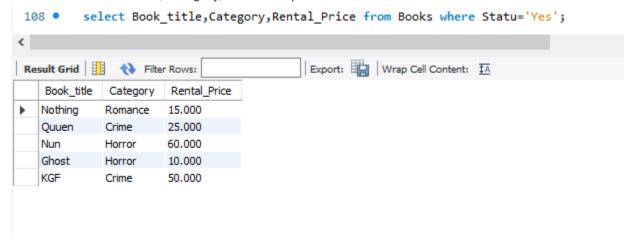


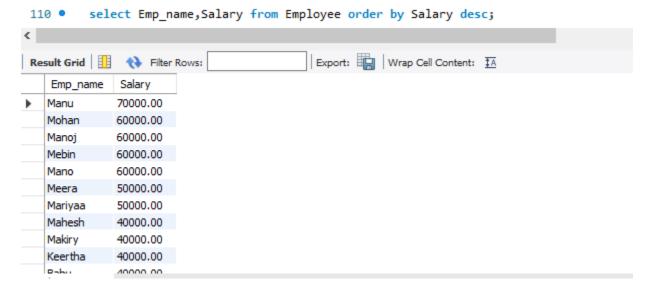
TABLE: RETURNSTATUS



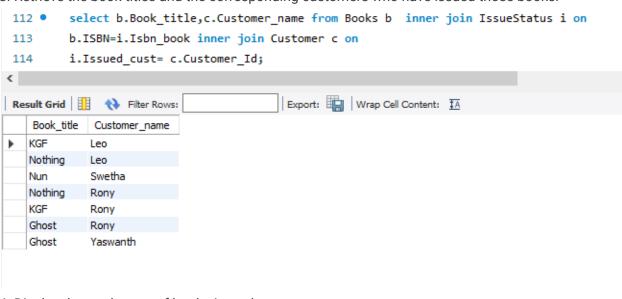
1. Retrieve the book title, category, and rental price of all available books.



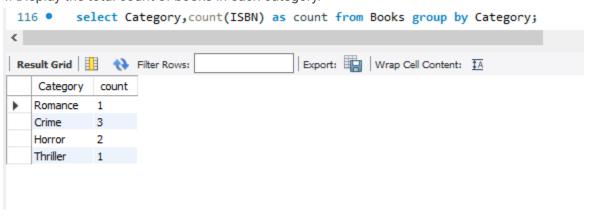
2. List the employee names and their respective salaries in descending order of salary.



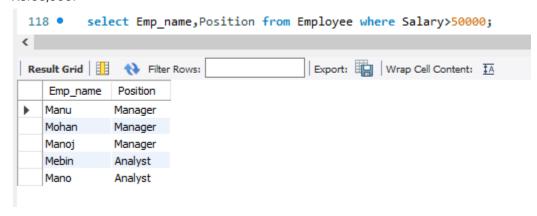
3. Retrieve the book titles and the corresponding customers who have issued those books.



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.

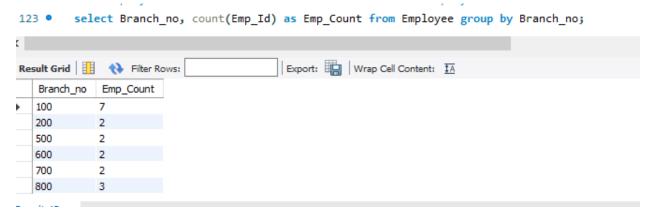


6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

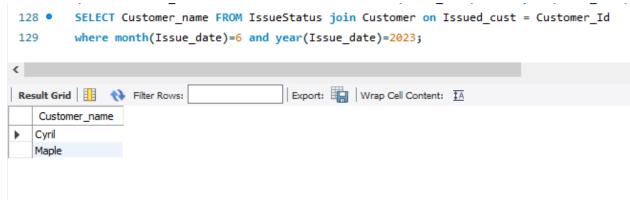
```
select Customer_name from Customer where Reg_Date < '2022-01-01'
and Customer_Id not in(Select Issued_cust from IssueStatus);</pre>
```



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.

Pala

Kottayam

Trivandrum

Kollam

Kochi

Mohan

Mahesh

Meera

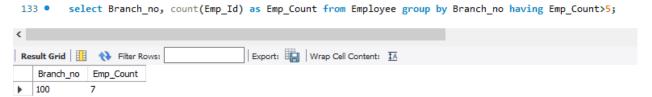
Makiry

Manoj

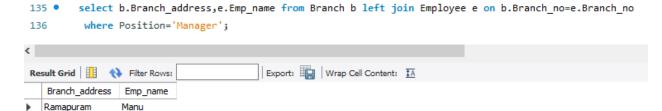
131 • select Book_title from Books where Book_title like '%history%';



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.

```
143 • select c.Customer_name from
144 Books b join IssueStatus i on i.Isbn_book=b.ISBN
145 join Customer c on i.Issued_cust= c.Customer_Id
146 where b.Rental_Price>25;
```

