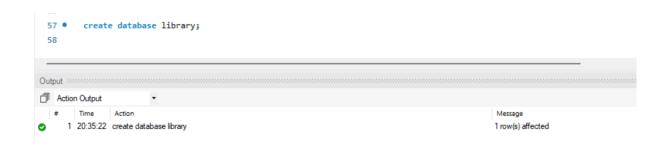
### **MYSQL PROJECT**

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

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

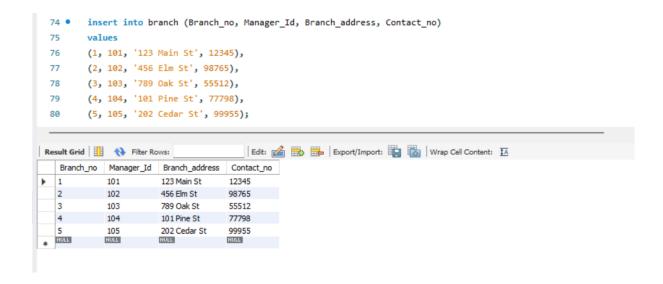


#### 1. Branch

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

```
80
 81 • ⊖ create table employee(Emp_Id int primary key,
82
        Emp name varchar(25),
83
        Position varchar(25),
84
        Salary int,
85
        Branch_no int,
86
        foreign key ( Branch_no ) references branch( Branch_no ) on delete cascade);
87
       select * from employee;
88 •
| Edit: 🔏 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🖽
 Emp_Id Emp_name Position Salary Branch_no
```

```
97
98
        insert into employee (Emp_Id, Emp_name, Position, Salary, Branch_no)
99
        values
        (1, 'John Doe', 'Manager', 60000, 1),
100
       (2, 'Jane Smith', 'Assistant Manager', 50000, 1),
101
       (3, 'Alice Johnson', 'Clerk', 40000, 2),
102
       (4, 'Bob Brown', 'Clerk', 38000, 2),
        (5, 'Charlie Wilson', 'Clerk', 38000, 2);
104
105
                                      | Edit: 🚄 🔜 🖶 | Export/Import: 🏣 🌄 | Wrap Cell Content: 🖽
Salary Branch_no
  Emp_Id Emp_name
                     Position
         John Doe
                                    60000
                     Manager
  1
         Jane Smith Assistant Manager 50000 1
  2
  3
         Alice Johnson Clerk
                                    40000 2
  4
        Bob Brown Clerk
                                    38000 2
                                   38000 2
         Charlie Wilson
                     Clerk
 NULL
```

### 3. Books

ISBN - Set as PRIMARY KEY

Book title

Category

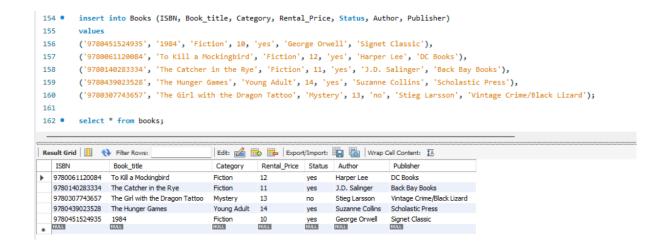
Rental Price

Status [Give yes if book available and no if book not available]

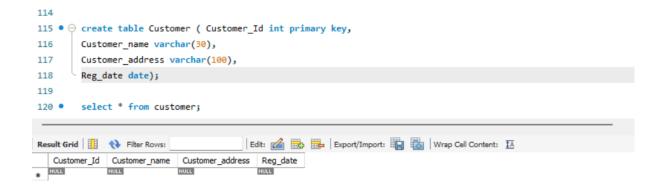
Author

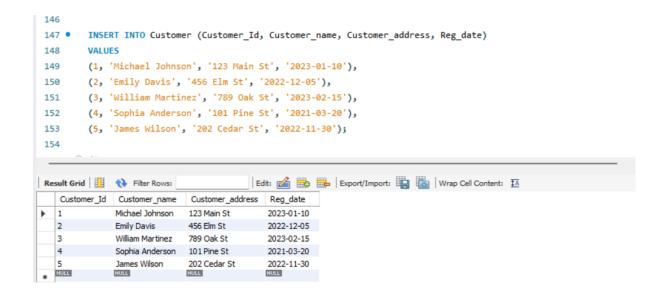
**Publisher** 

```
99 • ⊖ create table Books ( ISBN varchar(30) primary key,
100
        Book_title varchar(100),
101
       Category varchar(20),
102
       Rental_Price int,
103
       Status enum( "yes", "no"),
      Author varchar(30),
104
       Publisher varchar(30));
105
107 •
       select * from books;
108
                                     | Edit: 🔏 📆 📙 | Export/Import: 🏢 👸 | Wrap Cell Content: 🏗
ISBN Book_title Category Rental_Price Status Author Publisher
```



# 4. CustomerCustomer\_Id - Set as PRIMARY KEYCustomer\_nameCustomer\_addressReg\_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

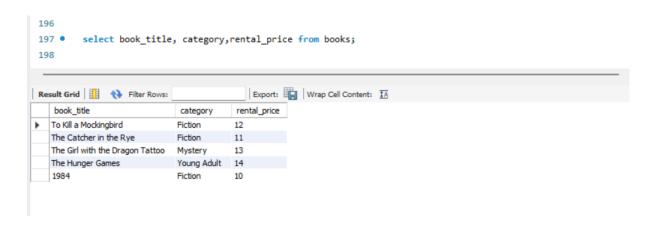
Isbn book – Set as FOREIGN KEY and it should refer isbn in BOOKS table

```
127
128 • ⊖ create table IssueStatus(Issue_Id int primary key,
129
        Issued_cust int,
        foreign key (Issued_cust) references customer (customer_id) on delete cascade,
130
        Issued_book_name varchar(100),
131
132
        Issue_date date,
133
        Isbn_book varchar(30),
        foreign key (Isbn_book) references books (Isbn) on delete cascade);
135
136 •
        select * from IssueStatus;
137
| Edit: 🕍 📆 🖺 | Export/Import: 📳 🖔 | Wrap Cell Content: 🔣
   Issue_Id Issued_cust Issued_book_name
                                     Issue_date Isbn_book
* NULL
          NULL
                     NULL
                                     NULL
                                               NULL
```

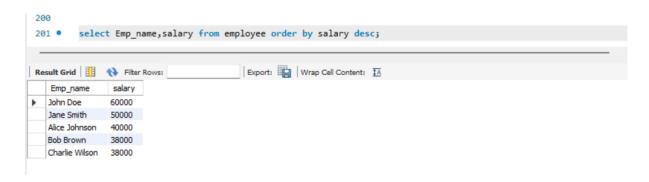
```
171 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book)
172
           (101, 1, '1984', '2023-06-01', '9780451524935'),
173
           (102, 2, 'To Kill a Mockingbird', '2023-02-05', '9780061120084'),
174
           (103, 3, 'The Catcher in the Rye', '2023-02-10', '9780140283334'),
175
           (104, 5, 'The Girl with the Dragon Tattoo', '2023-02-20', '9780307743657');
176
| Edit: 🕍 🔜 | Export/Import: 🖫 🐌 | Wrap Cell Content: 🔣
   101
                    1984
                                          2023-06-01
                                                    9780451524935
                   To Kill a Mockingbird
                                         2023-02-05 9780061120084
  102
         2
  103
          3
                    The Catcher in the Rye
                                          2023-02-10 9780140283334
  104
                    The Girl with the Dragon Tattoo
                                          2023-02-20 9780307743657
NULL
          NULL
```

# 6. ReturnStatus Return\_Id - Set as PRIMARY KEY Return\_cust Return\_book\_name Return\_date

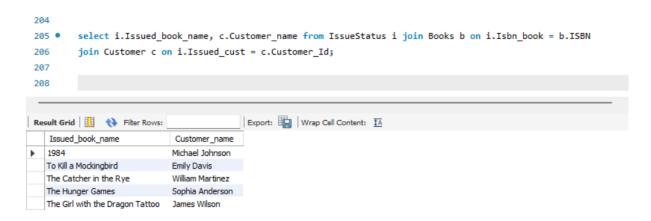
1. Retrieve the book title, category, and rental price of all available books.



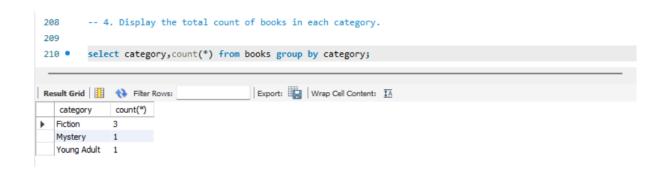
2. List the employee names and their respective salaries in descending order of salary.



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



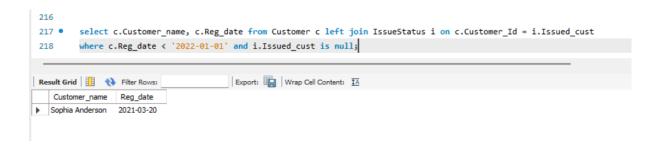
4. Display the total count of books in each category.



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



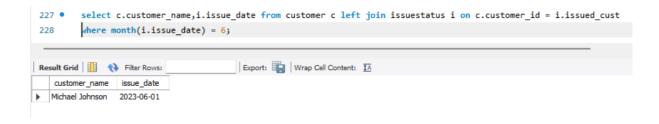
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.



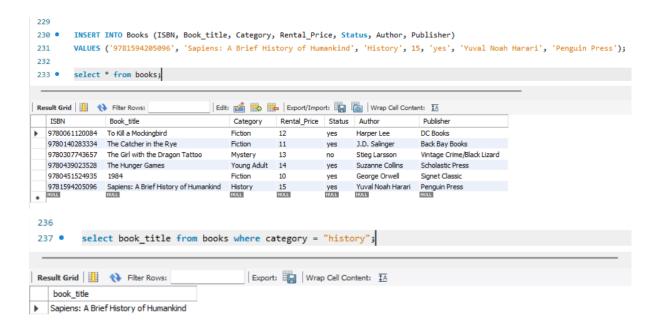
7. Display the branch numbers and the total count of employees in each branch.



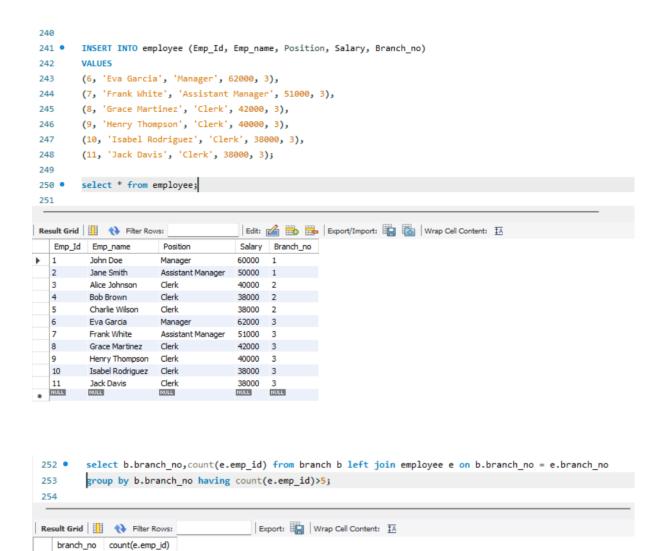
8. Display the names of customers who have issued books in the month of June 2023.



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



**3**