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
 - •

```
TTO
         SELECT Emp_name, Position
119 •
120
         FROM Employee
121
         WHERE Salary > 50000;
122
Result Grid
              Filter Rows:
   Emp_name
              Position
  deepu
             Manager
  abin
             Manager
             Manager
  asok
         INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book)
  79 •
         VALUES
  80
         (1, 1, 'Introduction to Algorithms', '2023-06-05', '978-3-16-148410-0'),
  81
         (2, 2, 'Artificial Intelligence', '2023-06-15', '978-0-12-374856-0'),
  82
         (3, 4, 'The History of the Ancient World', '2023-06-20', '978-0-452-28423-4');
  83
  84
  85 •
         select * from IssueStatus;
  86
 <
 | Edit: 🚄 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🖽
    1
                     Introduction to Algorithms
                                             2023-06-05
                                                      978-3-16-148410-0
    2
           2
                     Artificial Intelligence
                                            2023-06-15 978-0-12-374856-0
                     The History of the Ancient World
                                            2023-06-20
                                                      978-0-452-28423-4
   NULL
           NULL
' • ⊝ CREATE TABLE ReturnStatus (
          Return Id INT PRIMARY KEY,
          Return_cust INT,
          Return_book_name VARCHAR(255),
          Return_date DATE,
          Isbn_book2 VARCHAR(130),
          FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
          FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
```

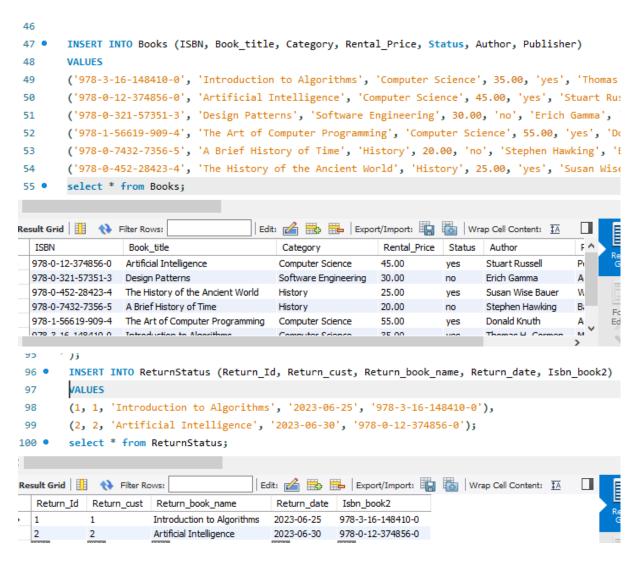
```
56 • ⊖ CREATE TABLE Customer (
            Customer_Id INT PRIMARY KEY,
            Customer_name VARCHAR(100),
58
            Customer_address VARCHAR(255),
59
            Reg_date DATE
60
61
        );
        INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date)
62 •
        VALUES
63
        (1, 'John Doe', '789 Elm St', '2021-05-15'),
64
        (2, 'Jane Smith', '456 Maple Ave', '2021-12-20'),
65
        (3, 'Sam Brown', '123 Pine Rd', '2022-01-10'),
67
        (4, 'Emily Davis', '321 Cedar Blvd', '2023-03-25');
        select * from Customer;
68 •
tesult Grid 🔢
                                          | Edit: 👍 🖶 | Export/Import: 🏭 🐻 | Wrap Cell Content: 🛂
            Filter Rows:
                                            Reg_date
  Customer_Id
             Customer_name
                           Customer_address
                                            2021-05-15
             John Doe
                            789 Elm St
 1
 2
             Jane Smith
                           456 Maple Ave
                                           2021-12-20
 3
             Sam Brown
                            123 Pine Rd
                                            2022-01-10
                                            2023-03-25
             Emily Davis
                            321 Cedar Blvd
 NULL
             NULL
                           NULL

        • ○ CREATE TABLE IssueStatus (

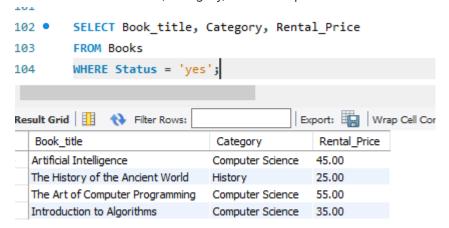
         Issue_Id INT PRIMARY KEY,
         Issued_cust INT,
         Issued_book_name VARCHAR(255),
         Issue_date DATE,
         Isbn book VARCHAR(130),
         FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
         FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
 1
 2 •
        CREATE DATABASE library;
 3 •
        USE library;
 4
```

```
4
 5 • ⊖ CREATE TABLE Branch (
            Branch_no INT PRIMARY KEY,
 6
 7
            Manager_Id INT,
            Branch_address VARCHAR(255),
 8
            Contact_no VARCHAR(15)
 9
        );
10
11 •
        INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no)
12
        VALUES
        (1, 101, '123 Main St', '123-456-7890'),
13
        (2, 102, '456 Oak Ave', '234-567-8901'),
14
        (3, 103, '789 Pine Rd', '345-678-9012');
        select * from Branch;
16 •
                                        Edit: 🔏 🖶 Export/Import: 识 🐻 | Wrap Cell Conter
Branch_no Manager_Id Branch_address
                                     Contact_no
            101
                       123 Main St
                                    123-456-7890
           102
 2
                                    234-567-8901
                       456 Oak Ave
           2
                       789 Pine Rd
                                    345-678-9012
           NULL
 NULL
3 ● ○ CREATE TABLE Employee (
          Emp_Id INT PRIMARY KEY,
          Emp_name VARCHAR(100),
          Position VARCHAR(50),
          Salary DECIMAL(10, 2),
          Branch_no INT,
          FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)
      );
```

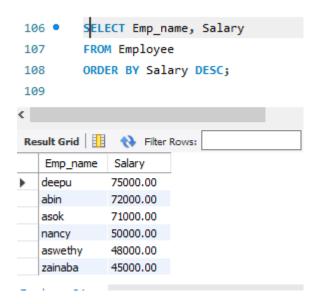
```
26
 27 •
         INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no)
 28
         VALUES
         (101, 'deepu', 'Manager', 75000, 1),
 29
         (102, 'abin', 'Manager', 72000, 2),
 30
         (103, 'asok', 'Manager', 71000, 3),
 31
         (104, 'nancy', 'Staff', 50000, 1),
 32
         (105, 'aswethy', 'Staff', 48000, 2),
 33
         (106, 'zainaba', 'Staff', 45000, 3);
 34
         select * from Employee;
 35 •
                                          | Edit: 🚣 🖶 | Export/Import: 📳 🎳 | Wrap Cell Co
Emp_Id
           Emp_name
                     Position
                              Salary
                                        Branch_no
  101
          deepu
                              75000.00
                                        1
                     Manager
   102
          abin
                     Manager
                              72000.00
                                       2
                              71000.00
   103
          asok
                     Manager
                                       3
   104
                     Staff
                              50000.00
                                       1
          nancy
   105
                     Staff
                              48000.00
                                       2
          aswethy
                              45000.00
   106
          zainaba
                     Staff
                                       3
          NULL
                     NULL
                             NULL
                                       NULL
  NULL
5
7 • ⊝ CREATE TABLE Books (
8
          ISBN VARCHAR(50)primary key,
          Book_title VARCHAR(255),
9
          Category VARCHAR(100),
3
1
          Rental_Price DECIMAL(10, 2),
2
          Status VARCHAR(3) CHECK (Status IN ('yes', 'no')),
          Author VARCHAR(100),
3
          Publisher VARCHAR(100)
5
      );
```



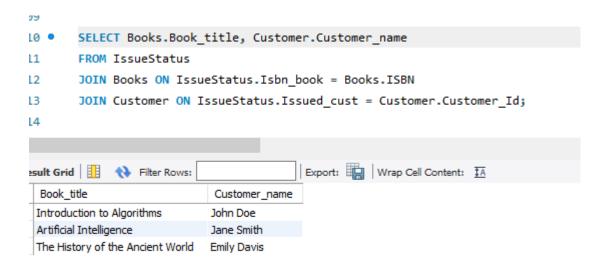
1. Retrieve the book title, category, and rental price of all available books.



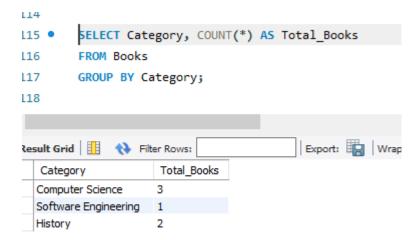
. List the employee names and their respective salaries in descending order of salary.



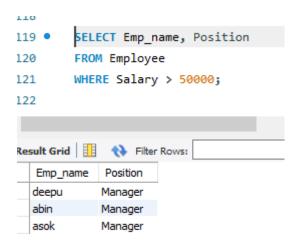
. Retrieve the book titles and the corresponding customers who have issued those books.



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.

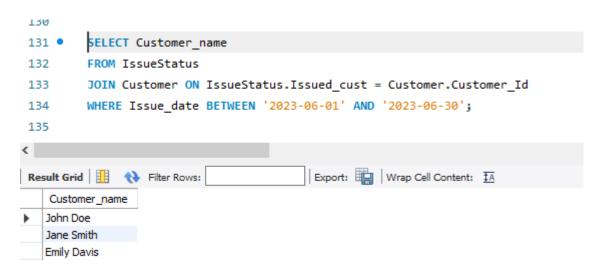


6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

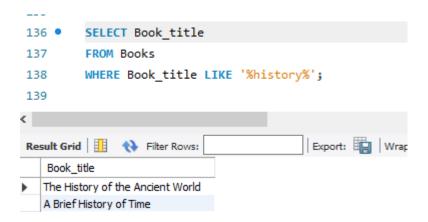
7. Display the branch numbers and the total count of employees in each branch.

```
SELECT Branch_no, COUNT(*) AS Total_Employees
127 •
128
         FROM Employee
129
         GROUP BY Branch_no;
130
Result Grid 🔢 🚷 Filter Rows:
                                           Export: Wrap Cell Content: IA
   Branch_no
             Total_Employees
  1
  2
             2
  3
             2
```

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

```
SELECT Branch_no, COUNT(*) AS Total_Employees

141 FROM Employee

142 GROUP BY Branch_no

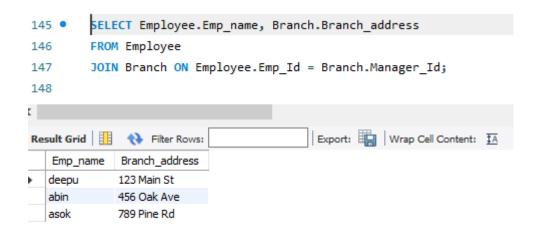
143 HAVING COUNT(*) > 5;

144

Result Grid  Filter Rows: Export: Wrap Cell Content: IA

Branch_no Total_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.

```
L4ŏ
        SELECT DISTINCT Customer.Customer_name
L49 •
        FROM IssueStatus
L50
        JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
151
        JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
152
        WHERE Books.Rental_Price > 25;
L53
L54
                                         Export: Wrap Cell Content: 🔼
Result Grid
             Filter Rows:
  Customer_name
  Jane Smith
  John Doe
```