

Topic : Library Management System

You are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

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

-- Create the database

CREATE DATABASE library;

-- Use the library database

USE library;

-- Create Branch table

CREATE TABLE Branch (

Branch_no INT PRIMARY KEY,

Manager_Id INT,

Branch_address VARCHAR(255),

Contact_no VARCHAR(15)

);

-- Create Employee table

```
CREATE TABLE Employee (  
    Emp_Id INT PRIMARY KEY,  
    Emp_name VARCHAR(100),  
    Position VARCHAR(100),  
    Salary DECIMAL(10, 2),  
    Branch_no INT,  
    FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)  
);
```

-- Create Books table

```
CREATE TABLE Books (  
    ISBN VARCHAR(20) PRIMARY KEY,  
    Book_title VARCHAR(255),  
    Category VARCHAR(100),  
    Rental_Price DECIMAL(10, 2),  
    Status VARCHAR(3) CHECK (Status IN ('yes', 'no')),  
    Author VARCHAR(100),  
    Publisher VARCHAR(100)  
);
```

-- Create Customer table

```
CREATE TABLE Customer (  
    Customer_Id INT PRIMARY KEY,  
    Customer_name VARCHAR(100),  
    Customer_address VARCHAR(255),  
    Reg_date DATE
```

```
);
```

```
-- Create IssueStatus table
```

```
CREATE TABLE IssueStatus (  
    Issue_Id INT PRIMARY KEY,  
    Issued_cust INT,  
    Issued_book_name VARCHAR(255),  
    Issue_date DATE,  
    Isbn_book VARCHAR(20),  
    FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),  
    FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)  
);
```

```
-- Create ReturnStatus table
```

```
CREATE TABLE ReturnStatus (  
    Return_Id INT PRIMARY KEY,  
    Return_cust INT,  
    Return_book_name VARCHAR(255),  
    Return_date DATE,  
    Isbn_book2 VARCHAR(20),  
    FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),  
    FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)  
);
```

```
-- Insert data into Branch table
```

```
INSERT INTO Branch VALUES  
(1, 101, '123 Library St, City A', '1234567890'),  
(2, 102, '456 Book Ln, City B', '0987654321');
```

-- Insert data into Employee table

INSERT INTO Employee VALUES

(1, 'Alice Smith', 'Manager', 60000, 1),
(2, 'Bob Johnson', 'Assistant', 40000, 1),
(3, 'Charlie Davis', 'Librarian', 45000, 2),
(4, 'David Harris', 'Manager', 70000, 2);

-- Insert data into Books table

INSERT INTO Books VALUES

('978-3-16-148410-0', 'Book A', 'Fiction', 20.00, 'yes', 'Author A', 'Publisher A'),
('978-1-23-456789-7', 'Book B', 'Non-Fiction', 25.00, 'no', 'Author B', 'Publisher B'),
('978-0-12-345678-9', 'Book C', 'Science', 30.00, 'yes', 'Author C', 'Publisher C');

-- Insert data into Customer table

INSERT INTO Customer VALUES

(1, 'John Doe', '789 Main St, City A', '2020-01-01'),
(2, 'Jane Smith', '456 Side St, City B', '2021-06-15'),
(3, 'Emily Jones', '123 High St, City A', '2023-03-20');

-- Insert data into IssueStatus table

INSERT INTO IssueStatus VALUES

(1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
(2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');

-- Insert data into ReturnStatus table

INSERT INTO ReturnStatus VALUES

(1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
176 (106, 'Frank Wright', 'Librarian', 48000, 1),
177 (107, 'Grace Hall', 'Librarian', 53000, 2),
178 (108, 'Henry Adams', 'Assistant', 55000, 2),
179 (109, 'Ivy Baker', 'Manager', 80000, 2),
180 (110, 'Jack Carter', 'Assistant', 49000, 1);
181
182 -- Insert data into Books table
183 • INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES
184 ('978-0-11-111111-1', 'Modern History', 'History', 28.00, 'yes', 'Author E', 'Publisher E'),
185 ('978-0-22-222222-2', 'Classic Literature', 'Fiction', 22.00, 'no', 'Author F', 'Publisher F'),
186 ('978-0-33-333333-3', 'Biography of A', 'Biography', 18.00, 'yes', 'Author G', 'Publisher G');
```

The result grid shows the following data:

Branch_no	Manager_Id	Branch_address	Contact_no
1	101	123 Library St, City A	1234567890
2	102	456 Book Ln, City B	0987654321

The output pane shows the following messages:

```
39 23:30:24 SELECT * FROM Employee LIMIT 0, 1000 10 row(s) returned
40 23:30:28 SELECT * FROM Branch LIMIT 0, 1000 2 row(s) returned
```

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

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
88
89 -- Insert data into IssueStatus table
90 • INSERT INTO IssueStatus VALUES
91 (1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
92 (2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');
93
94 -- Insert data into ReturnStatus table
95 • INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 • SELECT * FROM Branch;
```

The result grid shows the following data:

Branch_no	Manager_Id	Branch_address	Contact_no
1	101	123 Library St, City A	1234567890
2	102	456 Book Ln, City B	0987654321

The output pane shows the following messages:

```
14 22:43:16 INSERT INTO ReturnStatus VALUES (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0') 1 row(s) affected
15 22:45:03 SELECT * FROM Branch LIMIT 0, 1000 2 row(s) returned
```

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2' SQL File 4' SQL File 5' SQL File 6' SQL File 7' x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```
-- Insert data into IssueStatus table
90 • INSERT INTO IssueStatus VALUES
91 (1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
92 (2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');
93
-- Insert data into ReturnStatus table
94 • INSERT INTO ReturnStatus VALUES
95 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
96
-- Display all tables
97 • SELECT * FROM Branch;
98 • SELECT * FROM Employee;
```

Result Grid

Emp_Id	Emp_name	Position	Salary	Branch_no
1	Alice Smith	Manager	60000.00	1
2	Bob Johnson	Assistant	40000.00	1
3	Charlie Davis	Librarian	45000.00	2
4	David Harris	Manager	70000.00	2

Employee 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
15	22:45:03	SELECT * FROM Branch LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec
16	22:46:34	SELECT * FROM Employee LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Activate Windows
Go to Settings to activate Windows.

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2' SQL File 4' SQL File 5' SQL File 6' SQL File 7' x

MANAGEMENT

- Server Status
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- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

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Administration Schemas

Information: No object selected

Query 1

```
90 • INSERT INTO IssueStatus VALUES
91 (1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
92 (2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');
93
-- Insert data into ReturnStatus table
94 • INSERT INTO ReturnStatus VALUES
95 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
96
-- Display all tables
97 • SELECT * FROM Branch;
98 • SELECT * FROM Employee;
99 • SELECT * FROM Books;
```

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
978-0-12-345678-9	Book C	Science	30.00	yes	Author C	Publisher C
978-1-23-456789-7	Book B	Non-Fiction	25.00	no	Author B	Publisher B
978-3-16-148410-0	Book A	Fiction	20.00	yes	Author A	Publisher A

Books 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
16	22:46:34	SELECT * FROM Employee LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
17	22:46:53	SELECT * FROM Books LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Activate Windows
Go to Settings to activate Windows.

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7* x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

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- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```
-- Insert data into ReturnStatus table
95 INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 SELECT * FROM Branch;
99 SELECT * FROM Employee;
100 SELECT * FROM Books;
101 SELECT * FROM Customer;
102 SELECT * FROM IssueStatus;
103 SELECT * FROM ReturnStatus;
104
```

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
978-0-11-111111-1	Modern History	History	28.00	yes	Author E	Publisher E
978-0-12-345678-9	Book C	Science	30.00	yes	Author C	Publisher C
978-0-22-222222-2	Classic Literature	Fiction	22.00	no	Author F	Publisher F
978-0-33-333333-3	Biography of A	Biography	18.00	yes	Author G	Publisher G
978-0-44-444444-4	Mystery Novel	Mystery	27.00	yes	Author H	Publisher H
978-0-55-555555-5	Poetry Collection	Poetry	12.00	no	Author I	Publisher I
978-0-66-666666-6	World War II	History	32.00	yes	Author J	Publisher J
978-1-73-456789-7	Book R	Non-Fiction	25.00	no	Author R	Publisher R

Books 24 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	23:32:33	SELECT * FROM Employee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
42	23:32:56	SELECT * FROM Books LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Activate Windows
Go to Settings to activate Windows.

Start a search

mine FIFA... Doc... Unti... Inb... MyS...

11:32 PM
19-Jul-24

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2" SQL File 4" SQL File 5" SQL File 6" SQL File 7" x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```
91 (1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
92 (2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');
93
94 -- Insert data into ReturnStatus table
95 INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 SELECT * FROM Branch;
99 SELECT * FROM Employee;
100 SELECT * FROM Books;
101 SELECT * FROM Customer;
```

Result Grid

Customer_Id	Customer_name	Customer_address	Reg_date
1	John Doe	789 Main St, City A	2020-01-01
2	Jane Smith	456 Side St, City B	2021-06-15
3	Emily Jones	123 High St, City A	2023-03-20

Customer 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	22:46:53	SELECT * FROM Books LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
18	22:47:23	SELECT * FROM Customer LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Activate Windows
Go to Settings to activate Windows.

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2" SQL File 4" SQL File 5" SQL File 6" SQL File 7" x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```
91 (1, 1, 'Book A', '2023-06-01', '978-3-16-148410-0'),
92 (2, 2, 'Book C', '2023-06-15', '978-0-12-345678-9');
93
94 -- Insert data into ReturnStatus table
95 INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 SELECT * FROM Branch;
99 SELECT * FROM Employee;
100 SELECT * FROM Books;
101 SELECT * FROM Customer;
```

Result Grid

Customer_Id	Customer_name	Customer_address	Reg_date
1	John Doe	789 Main St, City A	2020-01-01
2	Jane Smith	456 Side St, City B	2021-06-15
3	Emily Jones	123 High St, City A	2023-03-20

Customer 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	22:46:53	SELECT * FROM Books LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
18	22:47:23	SELECT * FROM Customer LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Activate Windows
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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7*

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

94 -- Insert data into ReturnStatus table
95 INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 SELECT * FROM Branch;
99 SELECT * FROM Employee;
100 SELECT * FROM Books;
101 SELECT * FROM Customer;
102 SELECT * FROM IssueStatus;
103 SELECT * FROM ReturnStatus;
104

```

Result Grid

Customer_Id	Customer_name	Customer_address	Reg_date
1	John Doe	789 Main St, City A	2020-01-01
2	Jane Smith	456 Side St, City B	2021-06-15
3	Emily Jones	123 High St, City A	2023-03-20
5	Aaliya Khan	202 Lake Rd, City A	2022-05-05
6	William Lee	303 Park Ave, City B	2021-12-12
7	Sophia Wilson	404 Oak St, City A	2023-04-04
8	Benjamin Moore	505 Pine St, City B	2020-10-10
9	Oliver Thomas	606 Cedar St, City A	2022-03-03

Customer 25 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
42	23:32:56	SELECT * FROM Books LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
43	23:33:13	SELECT * FROM Customer LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Windows Taskbar: Start a search, mine, FIFA..., Doc..., Unti..., Inb..., MyS..., 11:33 PM 19-Jul-24

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7*

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

93
94 -- Insert data into ReturnStatus table
95 INSERT INTO ReturnStatus VALUES
96 (1, 1, 'Book A', '2023-06-10', '978-3-16-148410-0');
97 -- Display all tables
98 SELECT * FROM Branch;
99 SELECT * FROM Employee;
100 SELECT * FROM Books;
101 SELECT * FROM Customer;
102 SELECT * FROM IssueStatus;
103 SELECT * FROM ReturnStatus;

```

Result Grid

Return_Id	Return_cust	Return_book_name	Return_date	Isbn_book2
1	1	Book A	2023-06-10	978-3-16-148410-0

ReturnStatus 6 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	22:47:41	SELECT * FROM IssueStatus LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
20	22:47:58	SELECT * FROM ReturnStatus LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Windows Taskbar: Start a search, mine, FIFA..., Doc..., Unti..., Inb..., MyS..., 10:48 PM 19-Jul-24

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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7*

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

100 • SELECT * FROM Books;
101 • SELECT * FROM IssueStatus;
102 • SELECT * FROM ReturnStatus;
103 • SELECT * FROM ReturnStatus;
104
105 -- 1. Retrieve the book title, category, and rental price of all available books.
106 • SELECT Book_title, Category, Rental_Price
107 FROM Books
108 WHERE Status = 'yes';
109
110 -- 2. List the employee names and their respective salaries in descending order of salary.

```

Result Grid

Book_title	Category	Rental_Price
Modern History	History	28.00
Book C	Science	30.00
Biography of A	Biography	18.00
Mystery Novel	Mystery	27.00
World War II	History	32.00
Book A	Fiction	20.00

Books 28 x

Output

Action Output

Message

Duration / Fetch

0.000 sec / 0.000 sec

0.000 sec / 0.000 sec

1 row(s) returned

6 row(s) returned

45 23:33:40 SELECT * FROM ReturnStatus LIMIT 0. 1000

46 23:33:55 SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0. 1...

Activate Windows

Go to Settings to activate Windows

11:33 PM 19-Jul-24

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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7*

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

112 FROM Employee
113 ORDER BY Salary DESC;
114
115 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
116 • SELECT Books.Book_title, Customer.Customer_name
117 FROM IssueStatus
118 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
119 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
120
121 -- 4. Display the total count of books in each category.
122 • SELECT Category, COUNT(*) AS Total_Books

```

Result Grid

Emp_name	Salary
Ivy Baker	80000.00
David Harris	70000.00
Alice Smith	60000.00
Herry Adams	55000.00
Grace Hall	53000.00
Eve Clark	52000.00
Jack Carter	49000.00
Frank Wrinht	48000.00

Employee 29 x

Output

Action Output

Message

Duration / Fetch

0.000 sec / 0.000 sec

0.000 sec / 0.000 sec

6 row(s) returned

10 row(s) returned

46 23:33:55 SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0. 1...

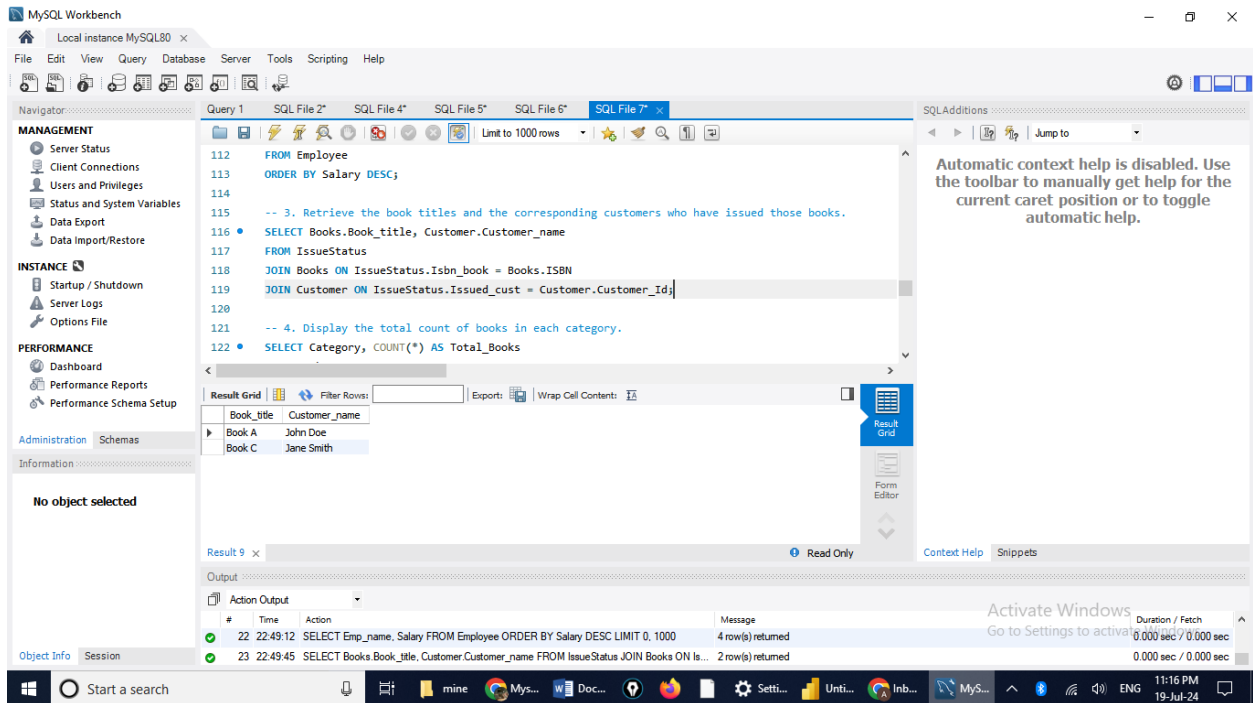
47 23:34:17 SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0. 1000

Activate Windows

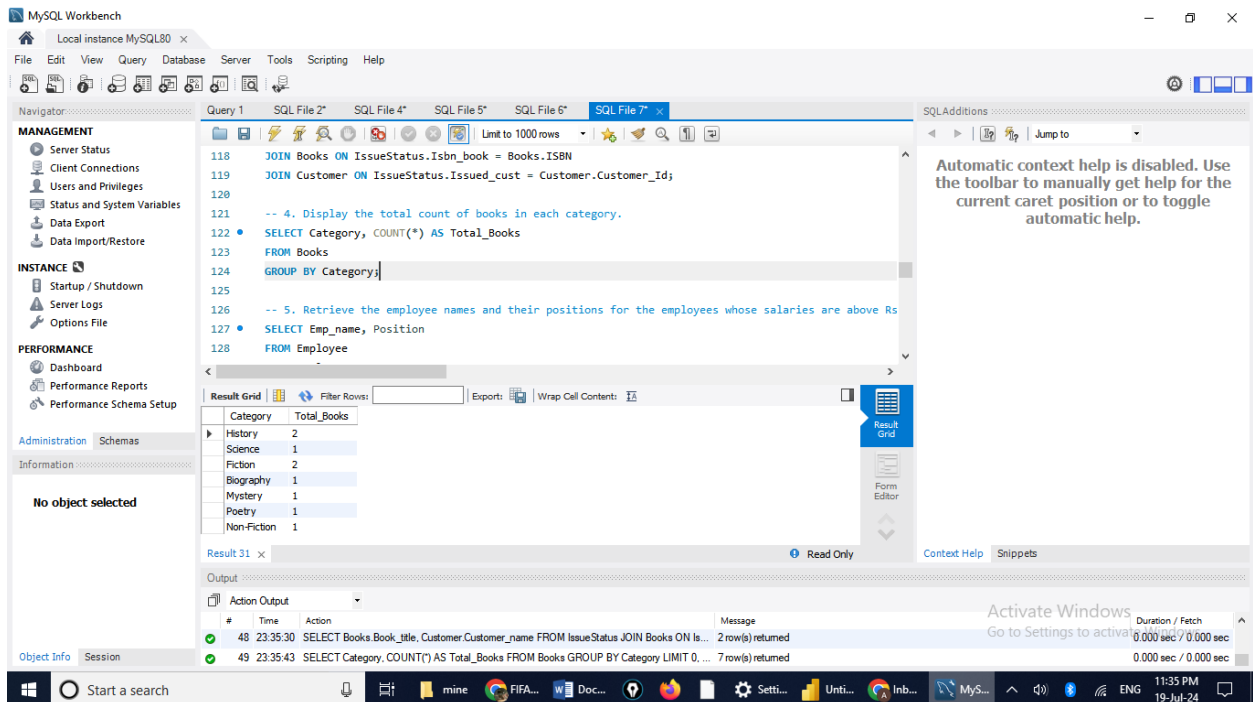
Go to Settings to activate Windows

11:34 PM 19-Jul-24

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.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2' SQL File 4' SQL File 5' SQL File 6' SQL File 7' x

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- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
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- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

124 GROUP BY Category;
125 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs
126 -- 50000.
127 SELECT Emp_name, Position
128 FROM Employee
129 WHERE Salary > 50000;
130
131 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
132 SELECT Customer_name
133 FROM Customer
134 WHERE Reg_date < '2022-01-01'

```

Result Grid

Emp_name	Position
Alice Smith	Manager
David Harris	Manager
Eve Clark	Assistant
Grace Hall	Librarian
Henry Adams	Assistant
Ivy Baker	Manager

Employee 32 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
49	23:35:43	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
50	23:36:13	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Windows Taskbar: Start a search, mine, FIFA..., Doc..., Settings, Unti..., Inb..., MySQL, 11:36 PM 19-Jul-24

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 SQL File 2' SQL File 4' SQL File 5' SQL File 6' SQL File 7' x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1

```

121 -- 4. Display the total count of books in each category.
122 SELECT Category, COUNT(*) AS Total_Books
123 FROM Books
124 GROUP BY Category;
125
126 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs
127 SELECT Emp_name, Position
128 FROM Employee
129 WHERE Salary > 50000;
130
131 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

```

Result Grid

Emp_name	Position
Alice Smith	Manager
David Harris	Manager

Employee 11 x

Output

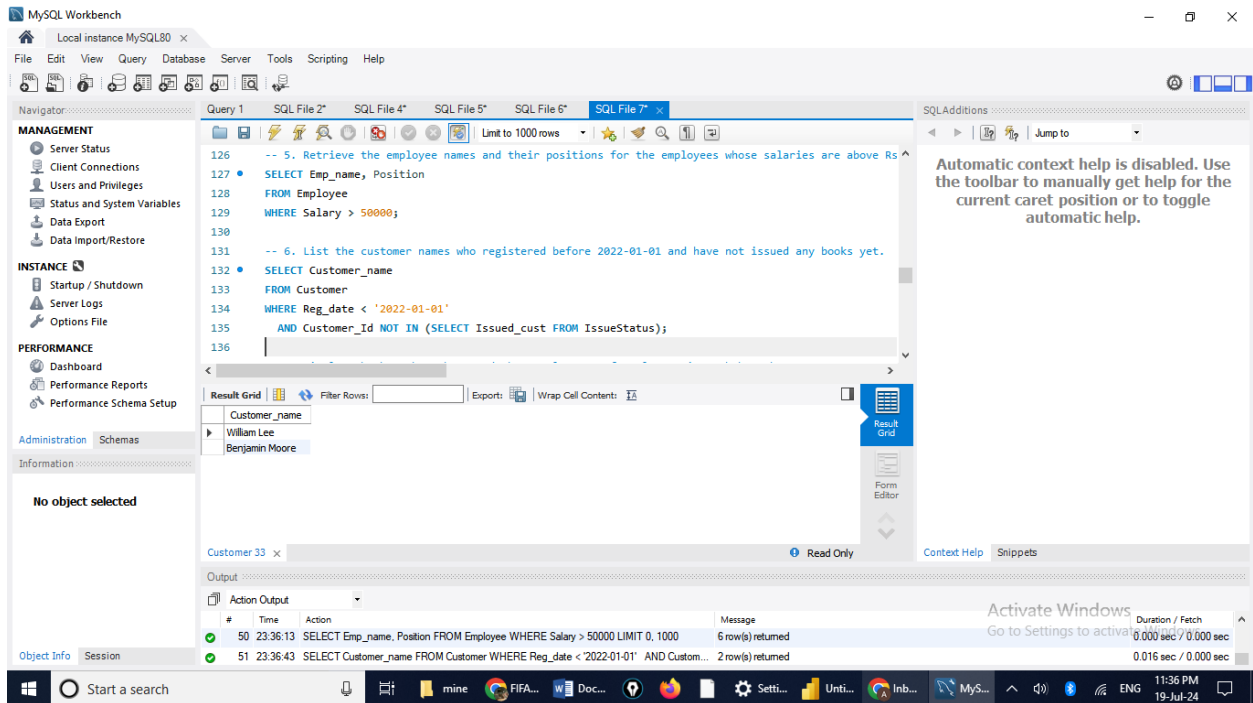
Action Output

#	Time	Action	Message	Duration / Fetch
24	23:17:12	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.078 sec / 0.000 sec
25	23:17:43	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec

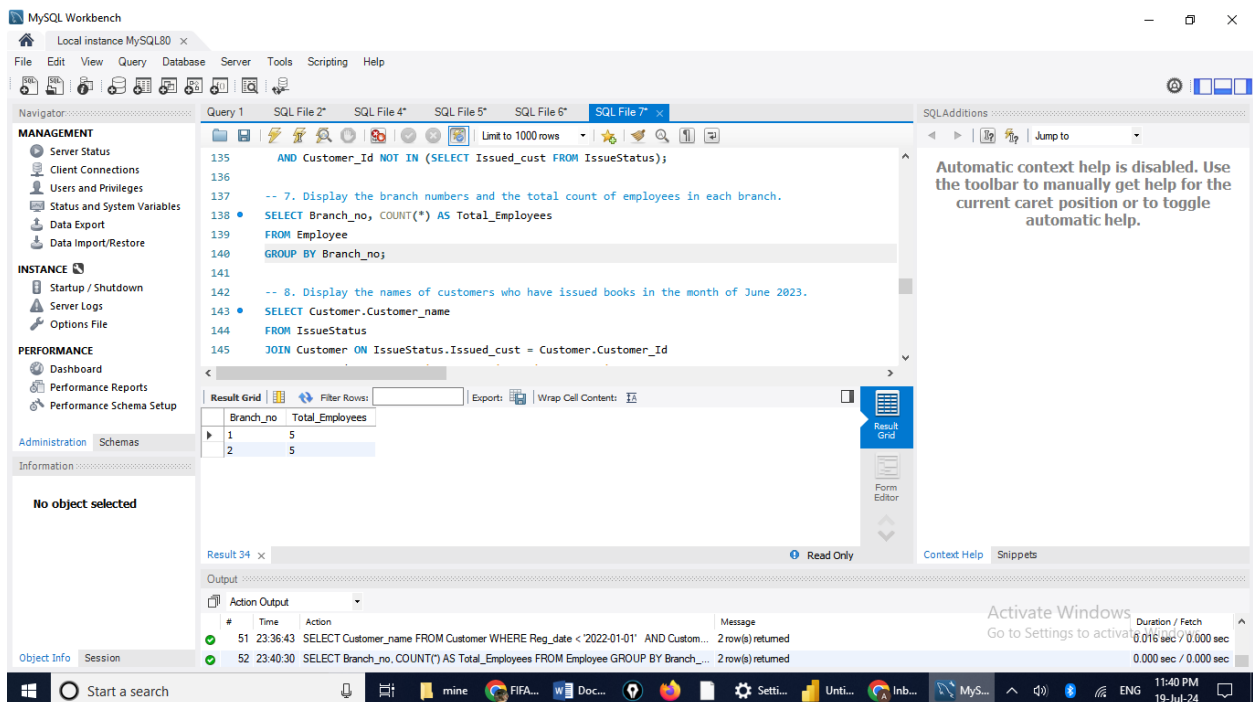
Object Info Session

Windows Taskbar: Start a search, mine, MySQL, Doc..., Settings, Unti..., Inb..., MySQL, 11:17 PM 19-Jul-24

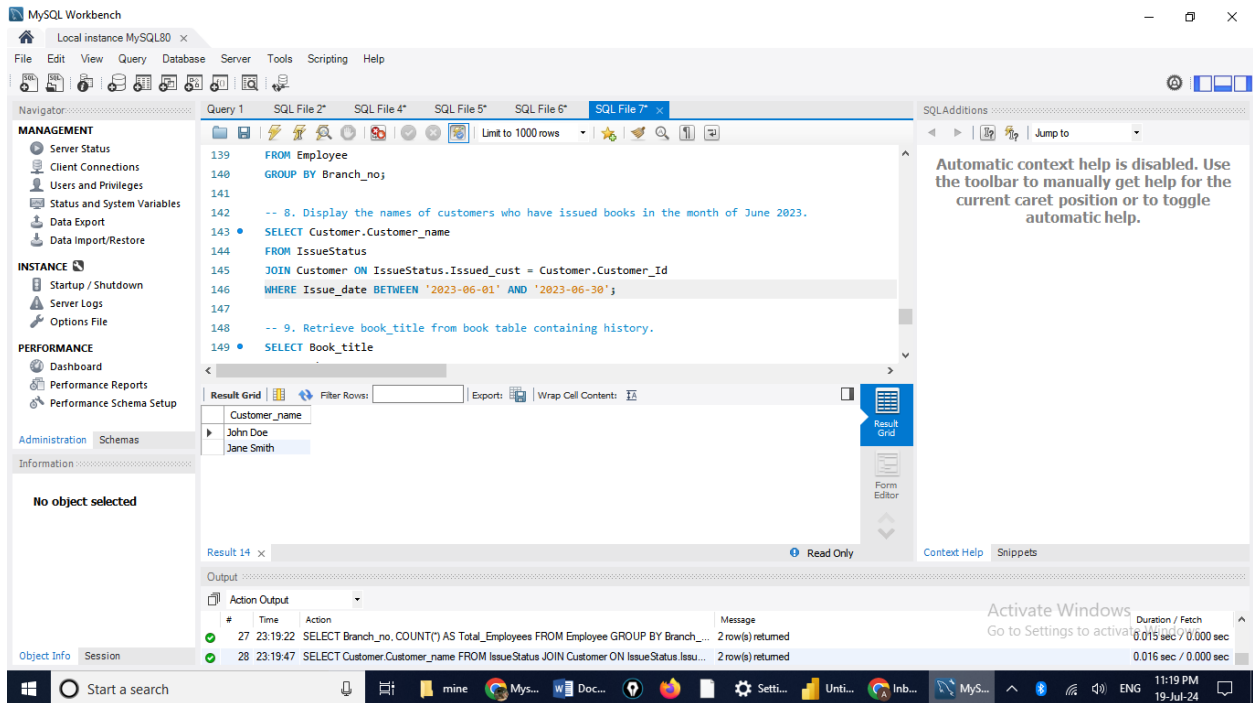
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.



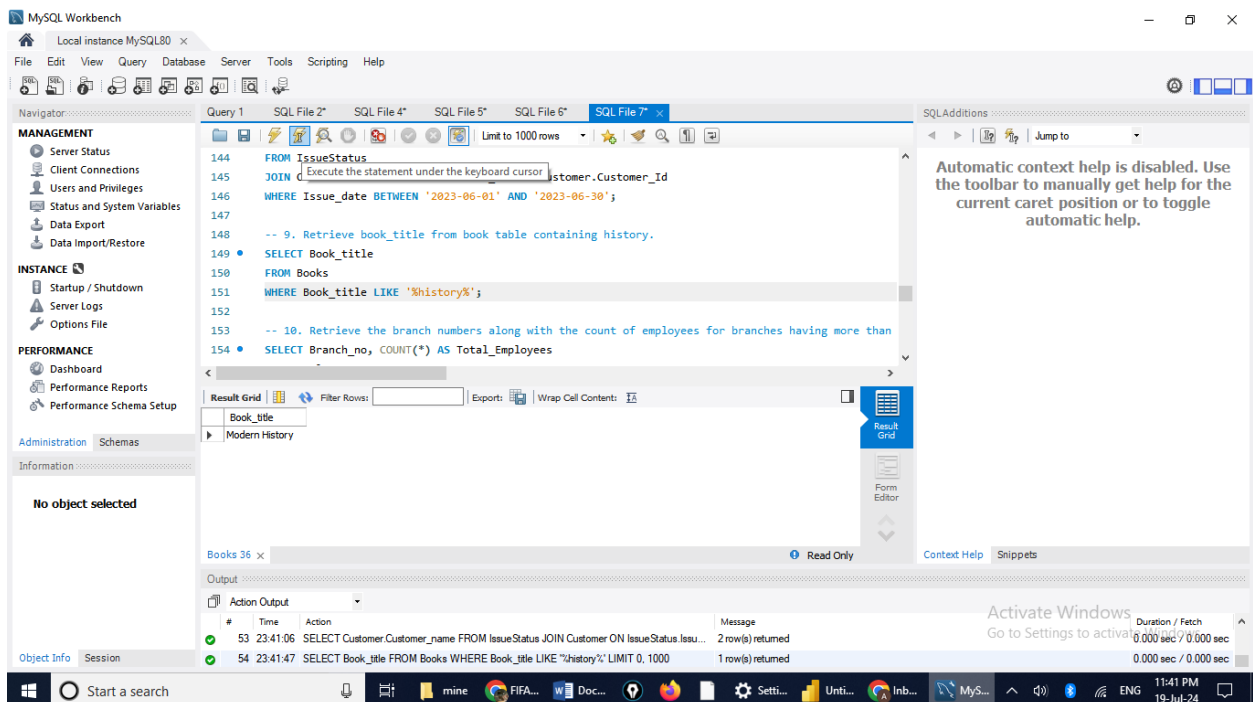
7. Display the branch numbers and the total count of employees in each branch.



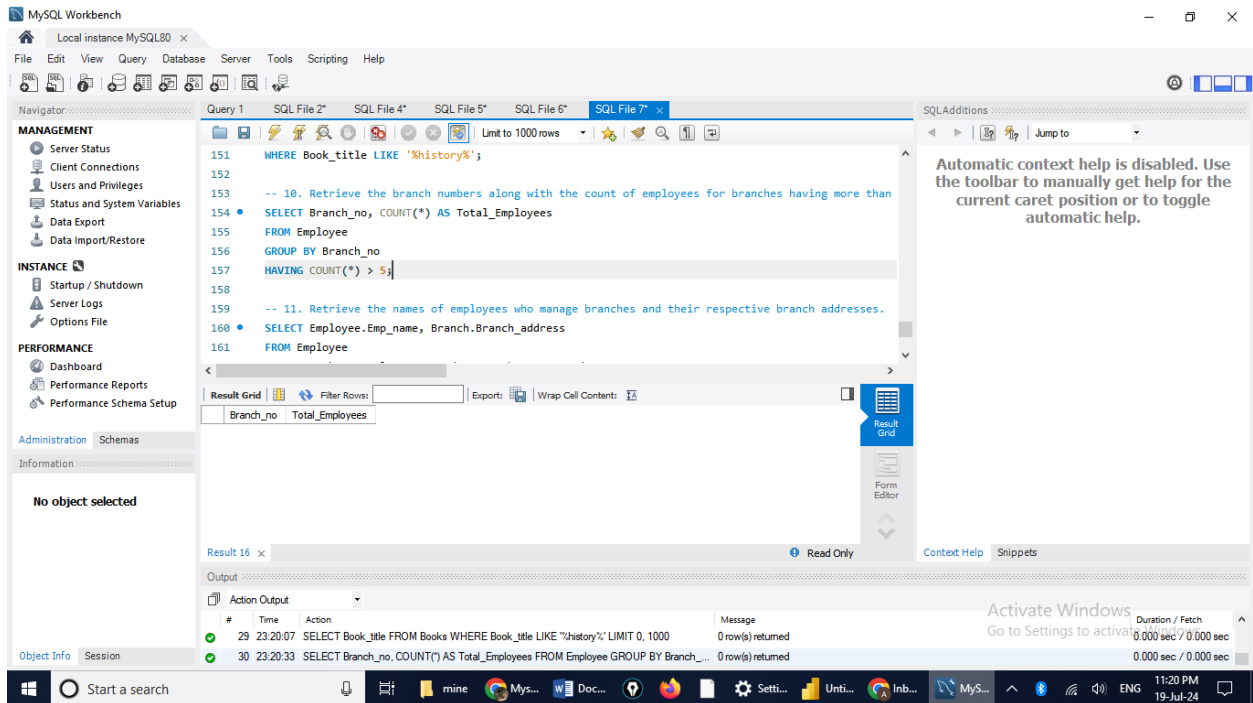
8. Display the names of customers who have issued books in the month of June 2023.



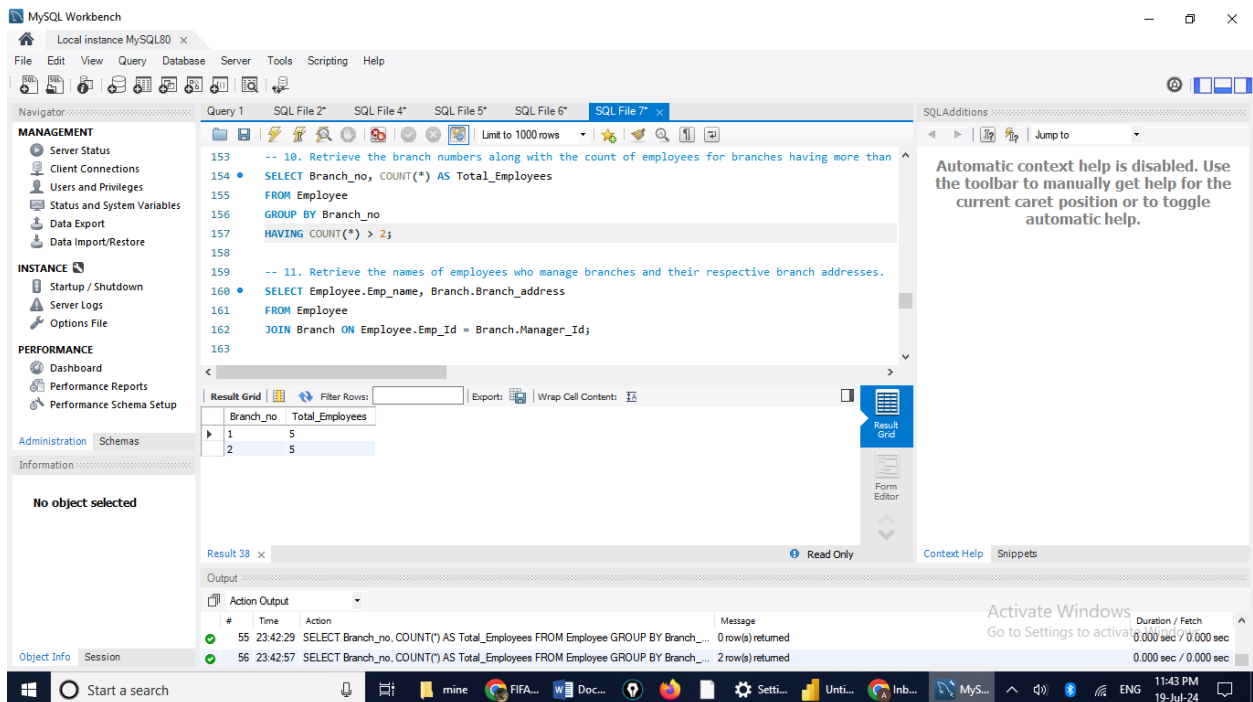
9. Retrieve book_title from book table containing history.



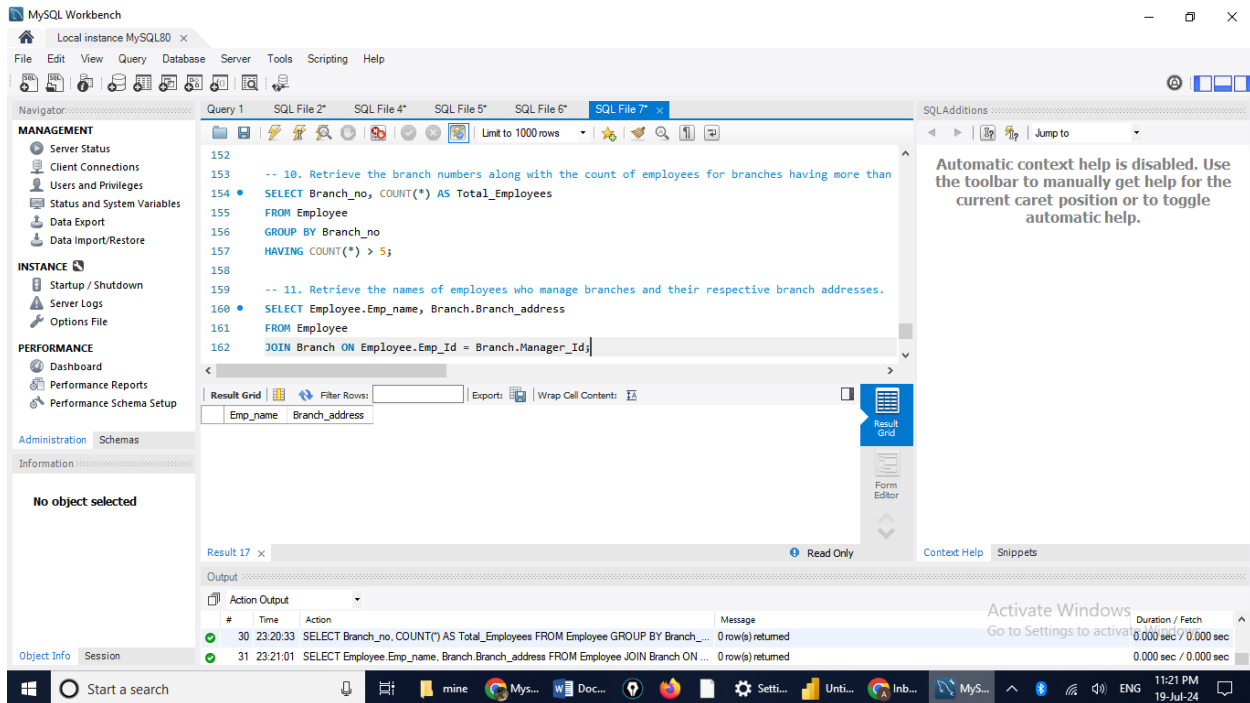
10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees



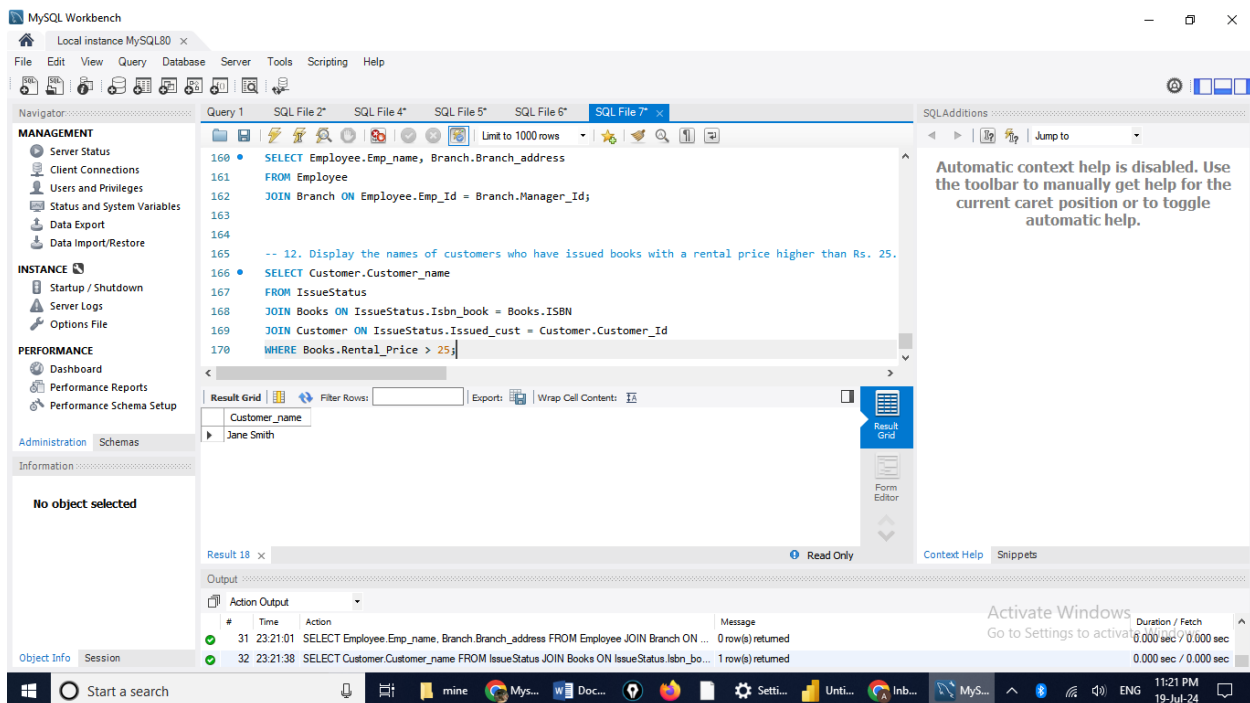
More than 2 employees



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.



Score Distribution:

1 point for correctly formulating the query of each question (12 x 1 = 12).

1 point for providing screenshots of the output for each question (12 x 1 = 12).

1 point for timely submission.

Total = 25.

PS : After completing the project upload your project with screenshots in the github and share the link.