

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 – Set as FOREIGN KEY and it refer customer_id in CUSTOMER table
 - Issued_cust

- 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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

58
59
60 • Return_id
61 Set as PRIMARY KEY
62 • Return_cust
63 • Return_book_name
64 • Return_date
65 • Isbn_book2
66 Set as FOREIGN KEY and it should refer isbn in BOOKS table */
67
68 • create database library ;
69
70 -- Display all the tables and Write the queries for the following :
71
72 1. Retrieve the book title, category, and rental price of all available books.
73 2. List the employee names and their respective salaries in descending order of salary.
74 3. Retrieve the book titles and the corresponding customers who have issued those books.

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:47:36	create database library	1 row(s) affected	0.047 sec

Type here to search

26°C Mostly cloudy 07:47 PM 10-07-2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

67 • create database library ;
68 • use library ;
69 • create table branch(Branch_no int PRIMARY KEY,
70 Manager_id int,
71 Branch_address varchar(30)
72 ,Contact_no int);
73 • desc branch;
74
75 -- Display all the tables and Write the queries for the following :

```

Result Grid

Field	Type	Null	Key	Default	Extra
Branch_no	int	NO	PRI		
Manager_id	int	YES			
Branch_address	varchar(30)	YES			
Contact_no	int	YES			

Result 1

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	19:48:14	use library	0 row(s) affected	0.000 sec
5	19:48:28	use library	0 row(s) affected	0.000 sec
6	19:48:28	use library	0 row(s) affected	0.000 sec
7	19:48:28	use library	0 row(s) affected	0.000 sec
8	19:51:40	create table branch(Branch_no int PRIMARY KEY, Manager_id int, Branch_address varchar(30), Contact_no int);	0 row(s) affected	0.156 sec
9	19:52:07	desc branch	4 row(s) returned	0.016 sec / 0.000 sec

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

72  ,Contact_no int);
73  desc branch;
74
75  create table Employee(Emp_Id int PRIMARY KEY , Emp_name varchar (20)
76  ,Position varchar(20) ,Salary int,Branch_no int,FOREIGN KEY (Branch_no) REFERENCES branch(branch_no));
77  desc employee ;
78
79  -- Display all the tables and Write the queries for the following :

```

Result Grid

Field	Type	Null	Key	Default	Extra
Emp_Id	int	NO	PRI		
Emp_name	varchar(20)	YES			
Position	varchar(20)	YES			
Salary	int	YES			
Branch_no	int	YES	MUL		

Result 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	19:48:28	use library	0 row(s) affected	0.000 sec
7	19:48:28	use library	0 row(s) affected	0.000 sec
8	19:51:40	create table branch(Branch_no int PRIMARY KEY, Manager_Id int, Branch_address varchar(30),Contact_no i...	0 row(s) affected	0.156 sec
9	19:52:07	desc branch	4 row(s) returned	0.016 sec / 0.000 sec
10	19:58:42	create table Employee(Emp_Id int PRIMARY KEY , Emp_name varchar (20) ,Position varchar(20) ,Salary int,Bran...	0 row(s) affected	0.125 sec
11	19:59:02	desc employee	5 row(s) returned	0.000 sec / 0.000 sec

Type here to search

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07:59 PM 10-07-2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

77  desc employee ;
78
79  create table Books(ISBN int PRIMARY KEY,
80  Book_title varchar(30),Category varchar(20),Rental_Price int,
81  Status char(3), Author varchar(20),
82  Publisher varchar(30));
83  desc books ;
84

```

Result Grid

Field	Type	Null	Key	Default	Extra
ISBN	int	NO	PRI		
Book_title	varchar(30)	YES			
Category	varchar(20)	YES			
Rental_Price	int	YES			
Status	char(3)	YES			
Author	varchar(20)	YES			

Result 3

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	19:51:40	create table branch(Branch_no int PRIMARY KEY, Manager_Id int, Branch_address varchar(30),Contact_no i...	0 row(s) affected	0.156 sec
9	19:52:07	desc branch	4 row(s) returned	0.016 sec / 0.000 sec
10	19:58:42	create table Employee(Emp_Id int PRIMARY KEY , Emp_name varchar (20) ,Position varchar(20) ,Salary int,Bran...	0 row(s) affected	0.125 sec
11	19:59:02	desc employee	5 row(s) returned	0.000 sec / 0.000 sec
12	20:03:29	create table Books(ISBN int PRIMARY KEY, Book_title varchar(30),Category varchar(20),Rental_Price int, Statu...	0 row(s) affected	0.047 sec
13	20:03:40	desc books	7 row(s) returned	0.000 sec / 0.000 sec

Type here to search

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08:03 PM 10-07-2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

```

85 create table Customer(Customer_Id int PRIMARY KEY ,Customer_name varchar(20)
86 ,Customer_address varchar(30)
87 ,Reg_date date);
88 desc customer;
89
90
91 -- Display all the tables and Write the queries for the following :
92

```

Result Grid

Field	Type	Null	Key	Default	Extra
Customer_Id	int	NO	PRI		
Customer_name	varchar(20)	YES			
Customer_address	varchar(30)	YES			
Reg_date	date	YES			

Result 4

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	19:58:42	create table Employee(Emp_Id int PRIMARY KEY , Emp_name varchar(20), Position varchar(20), Salary int, Bran...	0 row(s) affected	0.125 sec
11	19:59:02	desc employee	5 row(s) returned	0.000 sec / 0.000 sec
12	20:03:29	create table Books(ISBN int PRIMARY KEY, Book_title varchar(30), Category varchar(20), Rental_Price int, Statu...	0 row(s) affected	0.047 sec
13	20:03:40	desc books	7 row(s) returned	0.000 sec / 0.000 sec
14	20:05:48	create table Customer(Customer_Id int PRIMARY KEY ,Customer_name varchar(20), Customer_address varchar(30), Reg_date date);	0 row(s) affected	0.047 sec
15	20:06:02	desc customer	4 row(s) returned	0.015 sec / 0.000 sec

Type here to search

26°C Mostly cloudy 08:06 PM 10-07-2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

```

84 Customer_address varchar(30), Reg_date date);
85 desc customer;
86
87 create table IssueStatus(Issue_Id int PRIMARY KEY ,
88 Issued_cust varchar(20), Issued_book_name varchar(30),
89 Issue_date date,ISBN_book int ,FOREIGN KEY(issue_id) REFERENCES CUSTOMER(customer_id) ,FOREIGN KEY(Isbn_book) references books(isbn));
90 desc issuestatus;
91

```

Result Grid

Field	Type	Null	Key	Default	Extra
Issue_Id	int	NO	PRI		
Issued_cust	varchar(20)	YES			
Issued_book_name	varchar(30)	YES			
Issue_date	date	YES			
Isbn_book	int	YES	MUL		

Result 5

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:34:10	use library	0 row(s) affected	0.000 sec
2	20:36:28	create table IssueStatus(Issue_Id int PRIMARY KEY , Issued_cust varchar(20), Issued_book_name varchar(30), Iss...	Error Code: 1072. Key column 'issued_id' doesn't exist in table	0.000 sec
3	20:36:37	create table IssueStatus(Issue_Id int PRIMARY KEY , Issued_cust varchar(20), Issued_book_name varchar(30), Iss...	0 row(s) affected	0.125 sec
4	20:38:57	desc issuestatus	5 row(s) returned	0.031 sec / 0.000 sec

Type here to search

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

91
92 create table ReturnStatus(Return_Id int PRIMARY KEY ,Return_cust varchar(20),
93 Return_book_name varchar(30),Return_date date,
94 Isbn_book2 int,FOREIGN KEY(isbn_book2) references books(isbn));
95 desc ReturnStatus;
96
97
98 -- Display all the tables and Write the queries for the following :

```

Result Grid

Field	Type	Null	Key	Default	Extra
Return_Id	int	NO	PRI		
Return_cust	varchar(20)	YES			
Return_book_name	varchar(30)	YES			
Return_date	date	YES			
Isbn_book2	int	YES	MUL		

Result 7

Output

Action Output

#	Time	Action	Message	Duration / Fetch
2	20:36:28	create table IssueStatus(Issue_Id int PRIMARY KEY , Issued_cust varchar(20), Issued_book_name varchar(30), I...	Error Code: 1072. Key column 'issued_id' doesn't exist in table	0.000 sec
3	20:36:37	create table IssueStatus(Issue_Id int PRIMARY KEY , Issued_cust varchar(20), Issued_book_name varchar(30), I...	0 row(s) affected	0.125 sec
4	20:38:57	desc issuestatus	5 row(s) returned	0.031 sec / 0.000 sec
5	20:41:31	create table ReturnStatus(Return_Id int PRIMARY KEY ,Return_cust varchar(20), Return_book_name varchar(3...	0 row(s) affected	0.094 sec
6	20:41:42	desc books	7 row(s) returned	0.016 sec / 0.000 sec
7	20:42:02	desc ReturnStatus	5 row(s) returned	0.000 sec / 0.000 sec

Type here to search

28°C Mostly clear

08:42 PM 10-07-2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

table* SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```

72 INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no)
73 VALUES
74 (1, 101, 'Address 1', 11151111),
75 (2, 102, 'Address 2', 345678901),
76 (3, 103, 'Address 3', 34567890),
77 (4, 104, 'Address 4', 45678123),
78 (5, 105, 'Address 5', 678901234),
79 (6, 106, 'Address 6', 89012345),
80 (7, 107, 'Address 7', 890123456),
81 (8, 108, 'Address 8', 901234567),
82 (9, 109, 'Address 9', 901234678),
83 (10, 110, 'Address 10', 12345678);
84 select * from branch ;

```

Result Grid

Branch_no	Manager_id	Branch_address	Contact_no
1	101	Address 1	11151111
2	102	Address 2	345678901
3	103	Address 3	34567890
4	104	Address 4	45678123
5	105	Address 5	678901234
6	106	Address 6	89012345
7	107	Address 7	890123456
8	108	Address 8	901234567
9	109	Address 9	901234678
10	110	Address 10	12345678

branch 8

Type here to search

Live

08:53 PM 10-07-2024

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

table* SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```
86 • create table Employee(Emp_Id int PRIMARY KEY , Emp_name varchar (20)
87 ,Position varchar(20),Salary int,Branch_no int,FOREIGN KEY (Branch_no) REFERENCES branch(branch_no));
88 • desc employee ;
89 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no)VALUES
90 (1001, 'John Don', 'Manager', 60000, 1),
91 (1002, 'Janu Smitha', 'Assistant', 30000, 2),
92 (1003, 'Robi Johnson', 'Librarian', 40000, 3),
93 (1004, 'Alice Abraham', 'Assistant', 30000, 4),
94 (1005, 'Mickel Dany', 'Librarian', 40000, 5),
95 (1006, 'Emily Shanker', 'Assistant', 30000, 6),
96 (1007, 'David Luka', 'Librarian', 40000, 7),
97 (1008, 'Sara Tasni', 'Assistant', 30000, 8),
98 (1009, 'Kevin bosco', 'Librarian', 40000, 9),
99 (1010, 'Lisa Nijas', 'Assistant', 30000, 10);
100 • select * from employee ;
```

Result Grid

Emp_Id	Emp_name	Position	Salary	Branch_no
1001	John Don	Manager	60000	1
1002	Janu Smitha	Assistant	30000	2
1003	Robi Johnson	Librarian	40000	3
1004	Alice Abraham	Assistant	30000	4
1005	Mickel Dany	Librarian	40000	5
1006	Emily Shanker	Assistant	30000	6
1007	David Luka	Librarian	40000	7
1008	Sara Tasni	Assistant	30000	8
1009	Kevin bosco	Librarian	40000	9
1010	Lisa Nijas	Assistant	30000	10

employee 33 x

29°C Mostly cloudy 11:00 AM 11-07-2024

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

table* SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

Limit to 1000 rows

```
103 • create table Books(ISBN int PRIMARY KEY,
104 Book_title varchar(30),Category varchar(20),Rental_Price int,Status char(3), Author varchar(20),Publisher varchar(30));
105 • desc books ;
106 • INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher)VALUES
107 (10001,'Accounting Principles','Finance',2168,'yes','Wiley','DBooks'),
108 (10002,'Cost Management','Accounting',1703,'yes','McGraw-Hill','Deakon_stall'),
109 (10003,'Accounting Systems','Accounting',2012,'no','McGraw-Hill','B-4_books'),
110 (10004,'Individual Taxation','finance', 2517,'yes','Pearson','Bold_books'),
111 (10005,'Intermediate Accounting','Finance',3421,'no','Wiley','don_books'),
112 (10006,'Advanced Accounting',' Accounting',784,'yes','Klingston','peek_books'),
113 (10007,'Swimming life','sports',2356,'yes','Smith','BudgetBooks'),
114 (10008,'Cricket is my life','biography',414,'no','Davies','Universal'),
115 (10009,'Physical state','theory',1098,'yes','Chan','TechBooks'),
116 (10010,'Athlet in cancer','story',425,'no','Smitha','BudgetBooks');
117 • select * from books;
```

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
10001	Accounting Principles	Finance	2168	yes	Wiley	DBooks
10002	Cost Management	Accounting	1703	yes	McGraw-Hill	Deakon_stall
10003	Accounting Systems	Accounting	2012	no	McGraw-Hill	B-4_books
10004	Individual Taxation	finance	2517	yes	Pearson	Bold_books
10005	Intermediate Accounting	Finance	3421	no	Wiley	don_books
10006	Advanced Accounting	Accounting	784	yes	Klingston	peek_books
10007	Swimming life	sports	2356	yes	Smith	BudgetBooks
10008	Cricket is my life	biography	414	no	Davies	Universal
10009	Physical state	theory	1098	yes	Chan	TechBooks
10010	Athlet in cancer	story	425	no	Smitha	BudgetBooks

books 9 x

28°C Mostly clear 09:02 AM 11-07-2024

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16* x

Limit to 1000 rows

```
119 • create table Customer(Customer_Id int PRIMARY KEY ,Customer_name varchar(20),
120 Customer_address varchar(30), Reg_date date);
121 • desc customer;
122 • insert into customer(customer_id,customer_name,customer_address,reg_date)values
123 (51,'sijo','qwe house','2012-03-19'),
124 (52,'gini','rty house','2017-9-20'),
125 (53,'hima','asd home','2022-3-2'),
126 (54,'joni','zxc home','2024-5-8'),
127 (55,'fina','dfg home','2024-2-17'),
128 (56,'kevin','lkj home','2014-9-19'),
129 (57,'lima','dig home','2018-1-19'),
130 (58,'tina','yut home','2017-1-20'),
131 (59,'jina','bvh home','2018-9-22'),
132 (60,'sanu','gyt home','2014-3-24');
133 • select * from customer;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

Customer_Id	Customer_name	Customer_address	Reg_date
51	sijo	qwe house	2012-03-19
52	gini	rty house	2017-09-20
53	hima	asd home	2022-03-02
54	joni	zxc home	2024-05-08
55	fina	dfg home	2024-02-17
56	kevin	lkj home	2014-09-19
57	lima	dig home	2018-01-19
58	tina	yut home	2017-01-20
59	jina	bvh home	2018-09-22
60	sanu	gyt home	2014-03-24

customer 10 x

Apply Revert

Result Grid Form Editor Field Types

Type here to search

28°C Mostly cloudy 09:17 AM 11-07-2024

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

```

134 create table IssueStatus(Issue_Id int PRIMARY KEY , Issued_cust varchar(20), Issued_book_name varchar(30),
135 Issue_date date,Isbn_book int ,FOREIGN KEY(issue_id) REFERENCES CUSTOMER(customer_id),FOREIGN KEY(Isbn_book) references books(isbn));
136 desc IssueStatus;
137 insert into IssueStatus(issue_id,issued_cust,issued_book_name,issue_date,isbn_book) values
138 (51,'sijo','Accounting Principles','2019-06-05',10001),
139 (58,'tina','Swimming life','2018-09-22',10007),
140 (56,'joni','Physical state','2024-5-8',10009),
141 (52,'gini','Individual Taxation','2022-3-2',10004),
142 (53,'hima','Accounting Principles','2024-3-5',10001),
143 (55,'fina','Swimming life','2024-09-22',10007),
144 (54,'joni','Physical state','2024-5-8',10009),
145 (57,'lima','Cost Management','2022-3-2',10002),
146 (59,'jina','Physical state','2023-5-8',10009),
147 (60,'sanu','Swimming life','2024-05-22',10007);
148 select * from IssueStatus;

```

Result Grid

Issue_Id	Issued_cust	Issued_book_name	Issue_date	Isbn_book
51	sijo	Accounting Principles	2019-06-05	10001
52	gini	Individual Taxation	2022-03-02	10004
53	hima	Accounting Principles	2024-03-05	10001
54	joni	Physical state	2024-05-08	10009
55	fina	Swimming life	2024-09-22	10007
56	joni	Physical state	2024-05-08	10009
57	lima	Cost Management	2022-03-02	10002
58	tina	Swimming life	2018-09-22	10007
59	jina	Physical state	2023-05-08	10009
60	sanu	Swimming life	2024-05-22	10007

IssueStatus 11 x

29°C Mostly cloudy 09:45 AM 11-07-2024

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

```

149 create table ReturnStatus(Return_Id int PRIMARY KEY ,Return_cust varchar(20),Return_book_name varchar(30),Return_date date,
150 Isbn_book2 int,FOREIGN KEY(isbn_book2) references books(isbn));
151 desc ReturnStatus;
152 insert into ReturnStatus(return_id,return_cust,return_book_name,return_date,isbn_book2)values
153 (501,'joni','Physical state','2024-11-8',10009),
154 (502,'jina','Physical state','2024-5-8',10009),
155 (503,'sanu','Swimming life','2024-06-22',10007),
156 (504,'sijo','Accounting Principles','2020-6-5',10001),
157 (505,'gini','Individual Taxation','2024-3-2',10004),
158 (506,'fina','Swimming life','2024-10-22',10007),
159 (507,'hima','Accounting Principles','2024-7-5',10001),
160 (508,'tina','Swimming life','2018-09-22',10007),
161 (509,'joni','Physical state','2024-6-8',10009),
162 (510,'lima','cost management','202-012-2',10002);
163 select * from ReturnStatus;

```

Result Grid

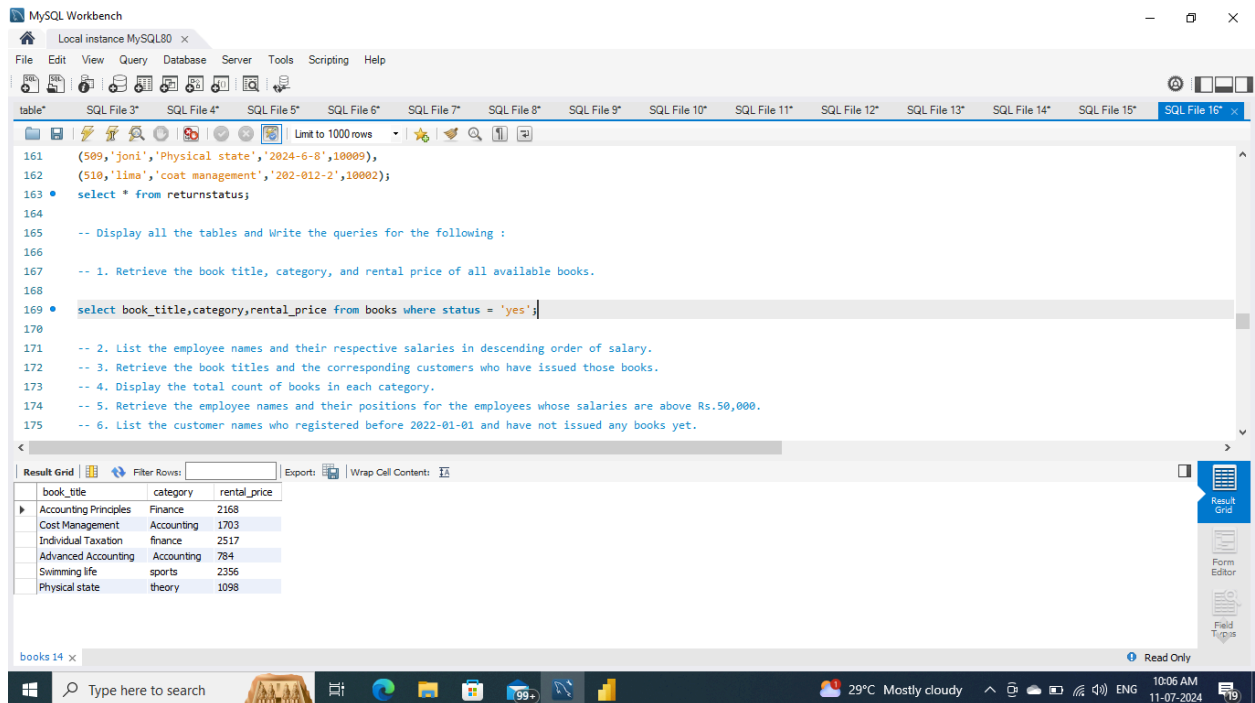
Return_Id	Return_cust	Return_book_name	Return_date	Isbn_book2
501	joni	Physical state	2024-11-08	10009
502	jina	Physical state	2024-05-08	10009
503	sanu	Swimming life	2024-06-22	10007
504	sijo	Accounting Principles	2020-06-05	10001
505	gini	Individual Taxation	2024-03-02	10004
506	fina	Swimming life	2024-10-22	10007
507	hima	Accounting Principles	2024-07-05	10001
508	tina	Swimming life	2018-09-22	10007
509	joni	Physical state	2024-06-08	10009
510	lima	cost management	2024-12-02	10002

ReturnStatus 12 x

29°C Mostly cloudy 10:04 AM 11-07-2024

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

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



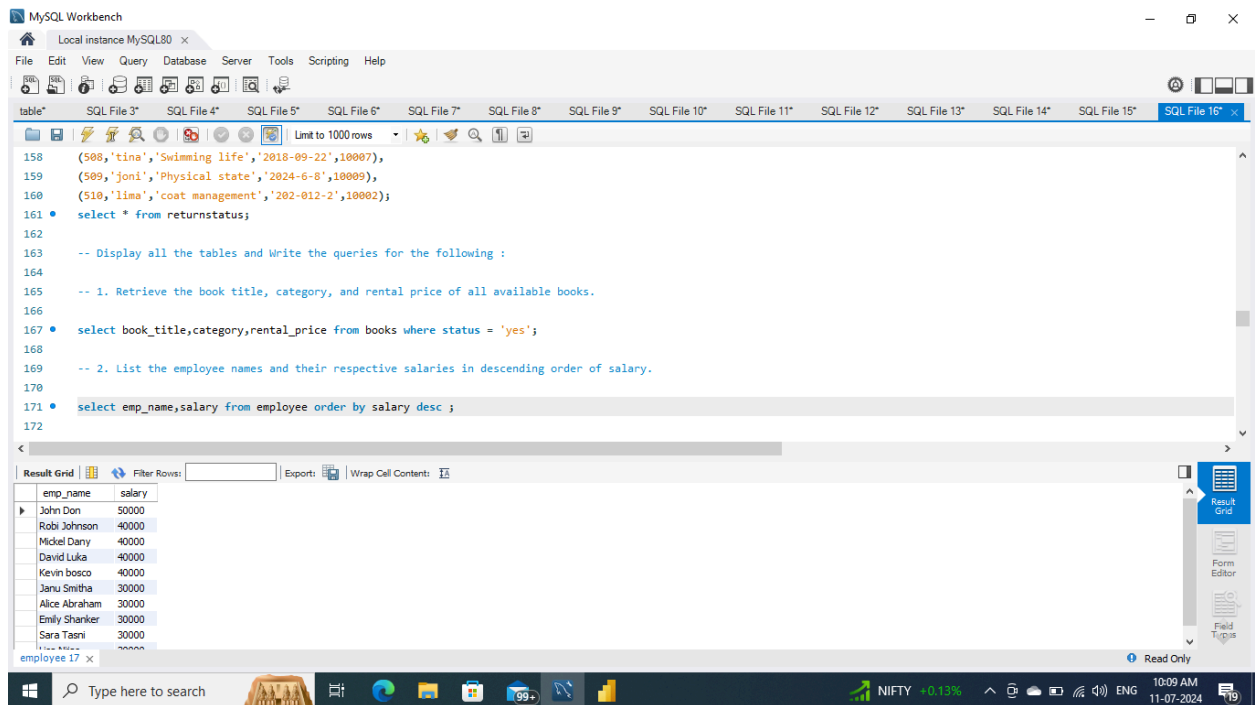
The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
-- Display all the tables and Write the queries for the following :  
-- 1. Retrieve the book title, category, and rental price of all available books.  
select book_title,category,rental_price from books where status = 'yes';
```

The Result Grid shows the following data:

book_title	category	rental_price
Accounting Principles	Finance	2168
Cost Management	Accounting	1703
Individual Taxation	Finance	2517
Advanced Accounting	Accounting	784
Swimming life	sports	2356
Physical state	theory	1098

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



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

```
-- Display all the tables and Write the queries for the following :  
-- 1. Retrieve the book title, category, and rental price of all available books.  
select book_title,category,rental_price from books where status = 'yes';  
-- 2. List the employee names and their respective salaries in descending order of salary.  
select emp_name,salary from employee order by salary desc ;
```

The Result Grid shows the following data:

emp_name	salary
John Don	50000
Robt Johnson	40000
Mickel Darry	40000
David Luka	40000
Kevin bosco	40000
Janu Smitha	30000
Alice Abraham	30000
Emily Shanker	30000
Sara Tansi	30000

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

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

```
172 • select emp_name,salary from employee order by salary desc ;
173
174 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
175
176 • select b.book_title ,i.issued_cust from books b join issuestatus i where isbn = isbn_book ;
177
178 -- 4. Display the total count of books in each category.
179
180 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
181
182 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
183
184 -- 7. Display the branch numbers and the total count of employees in each branch.
185
186 -- 8. Display the names of customers who have issued books in the month of June 2023.
187
188 -- 9. Retrieve book_title from book table containing history.
189
190 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
191
192 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
193
194 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
```

The Result Grid shows the following data:

book_title	issued_cust
Accounting Principles	sjo
Accounting Principles	hima
Cost Management	lma
Individual Taxation	gri
Swimming life	fna
Swimming life	fna
Swimming life	saru
Physical state	joni
Physical state	joni

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

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

```
172 • select emp_name,salary from employee order by salary desc ;
173
174 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
175
176 • select b.book_title ,i.issued_cust from books b join issuestatus i where isbn = isbn_book ;
177
178 -- 4. Display the total count of books in each category.
179
180 • select category,count(category) 'total count of books in each category' from books group by category ;
181
182 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
183
184 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
185
186 -- 7. Display the branch numbers and the total count of employees in each branch.
187
188 -- 8. Display the names of customers who have issued books in the month of June 2023.
189
190 -- 9. Retrieve book_title from book table containing history.
```

The Result Grid shows the following data:

category	total count of books in each category
Finance	3
Accounting	2
Accounting	1
sports	1
biography	1
theory	1
story	1

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

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

```
176 • select b.book_title ,i.issued_cust from books b join issuestatus i where isbn = isbn_book ;
177
178 -- 4. Display the total count of books in each category.
179
180 • select category,count(category) 'total count of books in each category' from books group by category ;
181
182 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
183
184 • select emp_name,position from employee where salary > 50000 ;
185
186 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
187 -- 7. Display the branch numbers and the total count of employees in each branch.
188 -- 8. Display the names of customers who have issued books in the month of June 2023.
189 -- 9. Retrieve book_title from book table containing history.
190 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
```

The result grid shows the following data:

emp_name	position
John Don	Manager

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

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

```
185 • select category,count(category) 'total count of books in each category' from books group by category ;
186
187 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
188
189 • select emp_name,position from employee where salary > 50000 ;
190
191 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
192
193 • select customer_name from customer where reg_date < '2022-01-01' and Customer_name not in (select Issued_cust from IssueStatus);
194
195 -- 7. Display the branch numbers and the total count of employees in each branch.
196 -- 8. Display the names of customers who have issued books in the month of June 2023.
197 -- 9. Retrieve book_title from book table containing history.
198 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
199 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
```

The result grid shows the following data:

customer_name
Kevin

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

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

```
190 • select emp_name,position from employee where salary > 50000 ;
191
192 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
193
194 • select customer_name from customer where reg_date < '2022-01-01' and Customer_name not in (select Issued_cust from IssueStatus);
195
196 -- 7. Display the branch numbers and the total count of employees in each branch.
197
198 • select branch_no,count(branch_no) 'total employee in each branch' from employee group by branch_no ;
199
200 -- 8. Display the names of customers who have issued books in the month of June 2023.
201
202 -- 9. Retrieve book_title from book table containing history.
203
204 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
205
206 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
207
208 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
```

The Result Grid shows the output of the query:

branch_no	total employee in each branch
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1

8. Display the names of customers who have issued books in the month of march 2022.

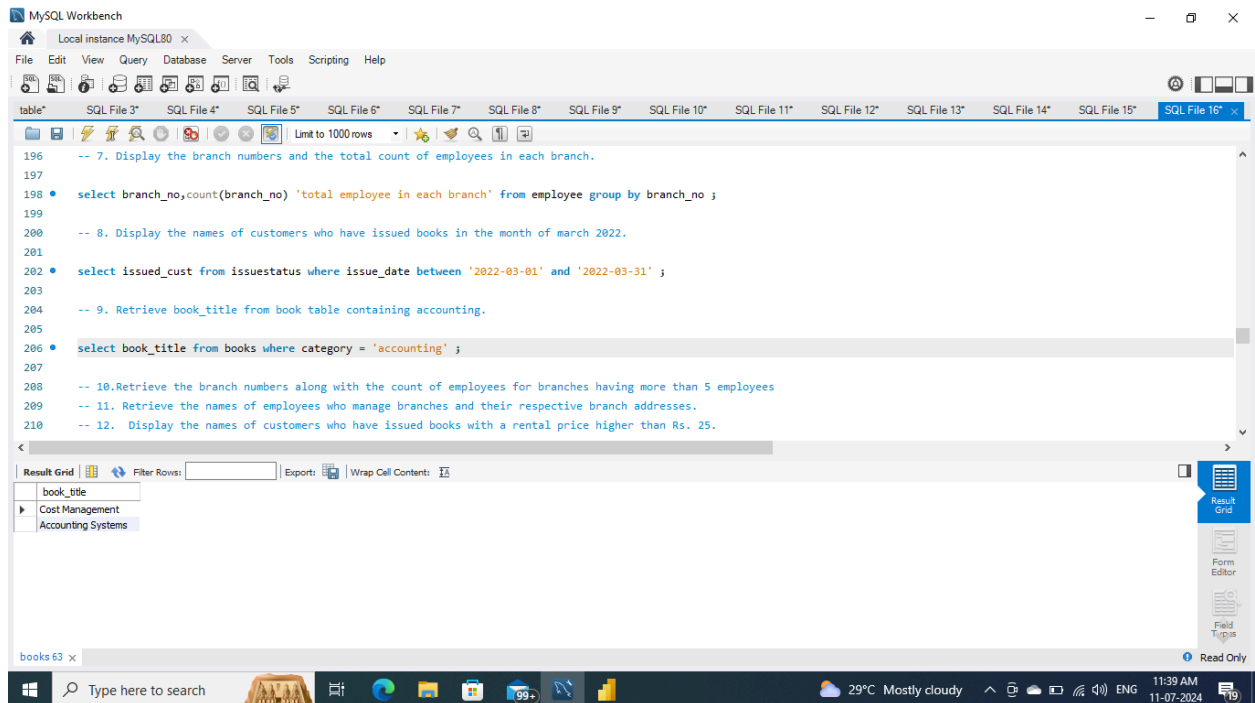
The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
189
190 • select emp_name,position from employee where salary > 50000 ;
191
192 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
193
194 • select customer_name from customer where reg_date < '2022-01-01' and Customer_name not in (select Issued_cust from IssueStatus);
195
196 -- 7. Display the branch numbers and the total count of employees in each branch.
197
198 • select branch_no,count(branch_no) 'total employee in each branch' from employee group by branch_no ;
199
200 -- 8. Display the names of customers who have issued books in the month of march 2022.
201
202 • select issued_cust from issuestatus where issue_date between '2022-03-01' and '2022-03-31' ;
203
```

The Result Grid shows the output of the query:

issued_cust
giri
lina

9. Retrieve book_title from book table containing accounting.



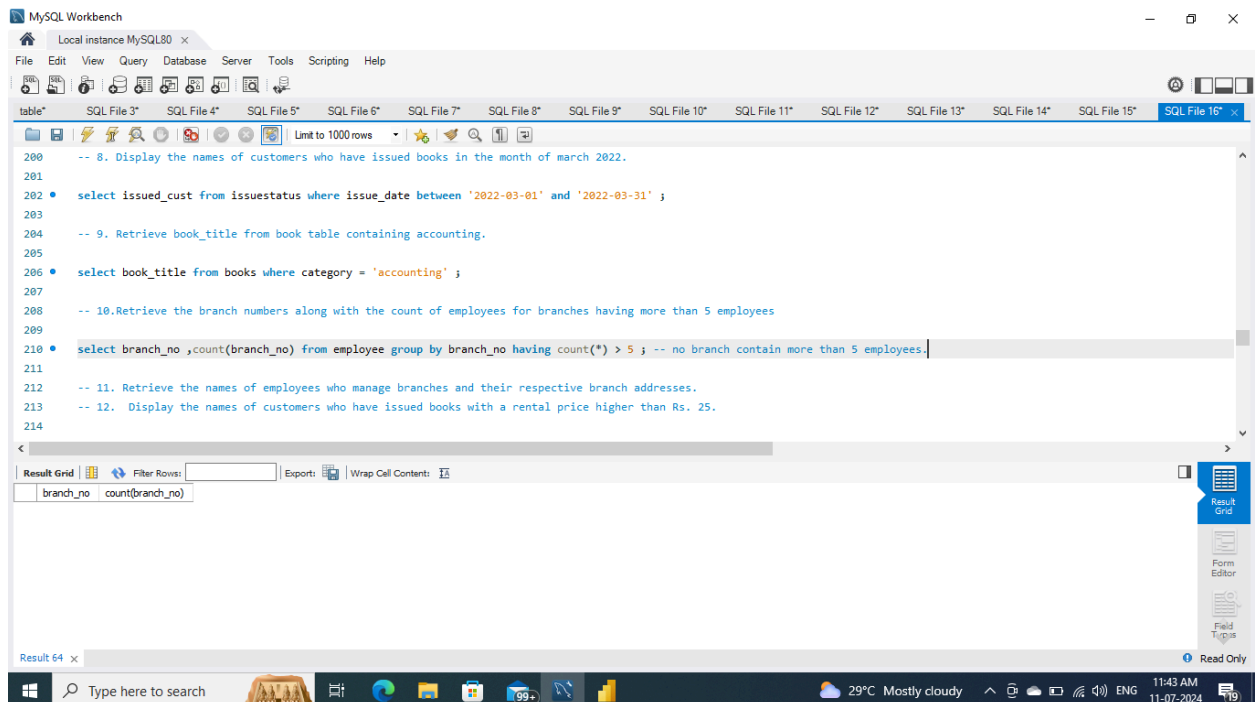
The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
-- 7. Display the branch numbers and the total count of employees in each branch.
196
197
198 • select branch_no,count(branch_no) 'total employee in each branch' from employee group by branch_no ;
199
200 -- 8. Display the names of customers who have issued books in the month of march 2022.
201
202 • select issued_cust from issuestatus where issue_date between '2022-03-01' and '2022-03-31' ;
203
204 -- 9. Retrieve book_title from book table containing accounting.
205
206 • select book_title from books where category = 'accounting' ;
207
208 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
209
210 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
211
212 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
```

The Result Grid shows the following data:

book_title
Cost Management
Accounting Systems

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



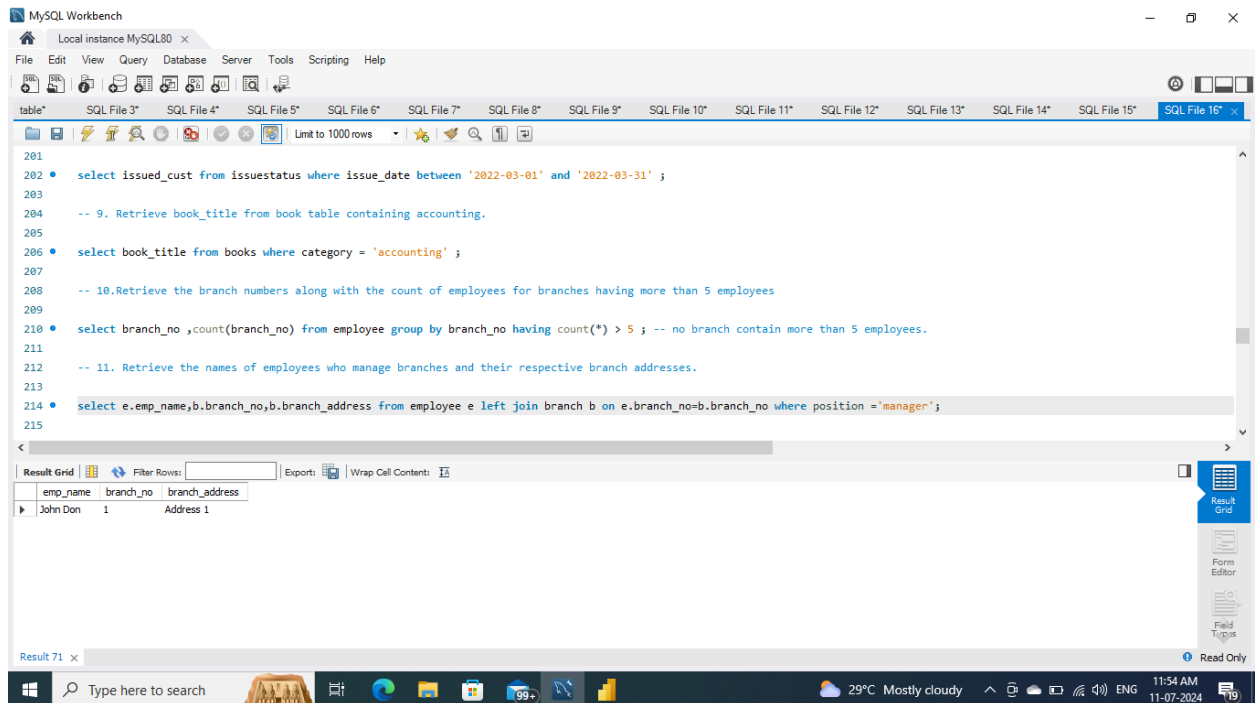
The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
-- 8. Display the names of customers who have issued books in the month of march 2022.
200
201
202 • select issued_cust from issuestatus where issue_date between '2022-03-01' and '2022-03-31' ;
203
204 -- 9. Retrieve book_title from book table containing accounting.
205
206 • select book_title from books where category = 'accounting' ;
207
208 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
209
210 • select branch_no ,count(branch_no) from employee group by branch_no having count(*) > 5 ; -- no branch contain more than 5 employees.
211
212 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
213
214 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
```

The Result Grid shows the following data:

branch_no	count(branch_no)
1	6
2	6
3	6
4	6
5	6
6	6
7	6
8	6
9	6
10	6
11	6
12	6
13	6
14	6
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643	6

11. Retrieve the names of employees who manage branches and their respective branch addresses.



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

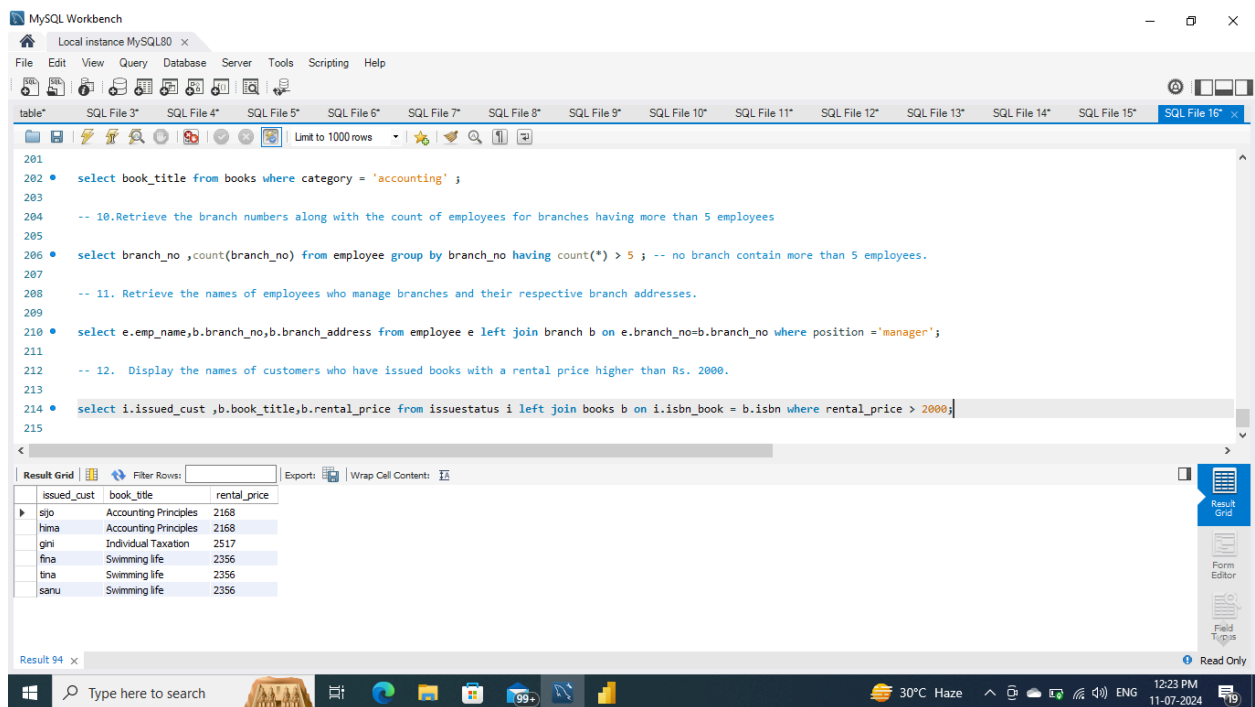
```
201
202 • select issued_cust from issuestatus where issue_date between '2022-03-01' and '2022-03-31' ;
203
204 -- 9. Retrieve book_title from book table containing accounting.
205
206 • select book_title from books where category = 'accounting' ;
207
208 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
209
210 • select branch_no ,count(branch_no) from employee group by branch_no having count(*) > 5 ; -- no branch contain more than 5 employees.
211
212 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
213
214 • select e.emp_name,b.branch_no,b.branch_address from employee e left join branch b on e.branch_no=b.branch_no where position ='manager';
215
```

The Result Grid shows the output of the last query:

emp_name	branch_no	branch_address
John Don	1	Address 1

The status bar at the bottom indicates "Result 71 x" and "Read Only".

12. Display the names of customers who have issued books with a rental price higher than Rs. 2000.



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

```
201
202 • select book_title from books where category = 'accounting' ;
203
204 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
205
206 • select branch_no ,count(branch_no) from employee group by branch_no having count(*) > 5 ; -- no branch contain more than 5 employees.
207
208 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
209
210 • select e.emp_name,b.branch_no,b.branch_address from employee e left join branch b on e.branch_no=b.branch_no where position ='manager';
211
212 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 2000.
213
214 • select i.issued_cust ,b.book_title,b.rental_price from issuestatus i left join books b on i.isbn_book = b.isbn where rental_price > 2000;
215
```

The Result Grid shows the output of the last query:

issued_cust	book_title	rental_price
sjo	Accounting Principles	2168
hima	Accounting Principles	2168
giri	Individual Taxation	2517
fina	Swimming life	2356
tina	Swimming life	2356
sanu	Swimming life	2356

The status bar at the bottom indicates "Result 94 x" and "Read Only".