

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

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

```
1 • create database library;
2 • use library;
3 • create table Branch (
4     Branch_no int primary key,
5     Manager_Id int,
6     Branch_address varchar(200),
7     Contact_no varchar(10)
8 );
9 • create table Employee (
10     Emp_Id int primary key,
11     Emp_name varchar(50),
12     Position varchar(50),
13     Salary decimal(10, 2),
14     Branch_no int,
15     foreign key (Branch_no) references Branch(Branch_no)
16 );
17 • create table Books (
18     ISBN varchar(13) primary key,
19     Book_title varchar(100),
20     Category varchar(100),
21     Rental_Price decimal(10, 2),
22     status enum('yes', 'no'),
23     Author varchar(100),
24     Publisher varchar(50)
25 );
26 • create table Customer (
27     Customer_Id int primary key,
28     Customer_name varchar(100),
29     Customer_address varchar(255),
30     Reg_date date
31 );
32 • create table IssueStatus (
33     Issue_Id int primary key,
34     Issued_cust int,
35     Issued_book_name varchar(255),
36     Issue_date date,
37     Isbn_book varchar(13),
38     foreign key (Issued_cust) references Customer(Customer_Id),
39     foreign key (Isbn_book) references Books(ISBN)
40 );
41 • create table ReturnStatus (
42     Return_Id int primary key,
43     Return_cust int,
44     Return_book_name varchar(255),
45     Return_date date,
46     Isbn_book2 varchar(13),
47     foreign key (Return_cust) references Customer(Customer_Id),
48     foreign key (Isbn_book2) references Books(ISBN)
49 );
50
51
52
53
54
55
```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	15:15:00	create database library	1 row(s) affected	0.016 sec
2	15:15:10	use library	0 row(s) affected	0.000 sec
3	15:16:44	create table Branch (Branch_no int primary key, Manager_Id int, Branch_address varchar(200), ...	0 row(s) affected	0.031 sec
4	15:19:14	create table Employee (Emp_Id int primary key, Emp_name varchar(50), Position varchar(50), Sal...	0 row(s) affected	0.032 sec
5	15:21:37	create table Books (ISBN varchar(13) primary key, Book_title varchar(100), Category varchar(100), ...	0 row(s) affected	0.031 sec
6	15:22:41	create table Customer (Customer_Id int primary key, Customer_name varchar(100), Customer_addr...	0 row(s) affected	0.032 sec
7	15:24:35	create table IssueStatus (Issue_Id int primary key, Issued_cust int, Issued_book_name varchar(255)...	0 row(s) affected	0.031 sec
8	15:27:07	create table ReturnStatus (Return_Id int primary key, Return_cust int, Return_book_name varchar(...	0 row(s) affected	0.110 sec

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

78	•	<code>select Book_title, Category, Rental_Price</code>
79		<code>from Books</code>
80		<code>where Status = 'yes';</code>
81		
82		

Result Grid	Filter Rows:	Export:	Wrap Cell Contents:
Book_title	Category	Rental_Price	
Football Legends	Biography	18.00	
The History of Football	Sports	15.00	

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

82	•	<code>select Emp_name, Salary</code>
83		<code>from Employee</code>
84		<code>order by Salary desc;</code>
85		
86		
87		
88		

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Emp_name	Salary		
Cristiano Ronaldo	80000.00		
Lionel Messi	75000.00		
Neymar Jr	50000.00		
Kylian Mbappe	45000.00		
Sergio Ramos	42000.00		
Luka Modric	40000.00		

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

```

86 • select B.Book_title, C.Customer_name
87 from Books B
88 join IssueStatus I on B.ISBN = I.Isbn_book
89 join Customer C on I.Issued_cust = C.Customer_Id;

```

Book_title	Customer_name
The History of Football	Diego Maradona
Football Legends	Zinedine Zidane

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

```

91 • select Category, COUNT(*) "total count"
92 from Books
93 group by Category;
94
95

```

Category	total count
Biography	1
Sports	3

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

```

95 • select Emp_name, Position
96 from Employee
97 where Salary > 50000;
98

```

Emp_name	Position
Lionel Messi	Manager
Cristiano Ronaldo	Manager

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

```

99 • select Customer_name
100   from Customer C
101  where Reg_date < '2022-01-01'
102  and not exists (
103      select 1
104      from IssueStatus I
105      where I.Issued_cust = C.Customer_Id
106  );
107

```

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

Customer_name
Pele
David Beckham

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

```

107
108 • select Branch_no, COUNT(*) AS "Total Employees"
109   from Employee
110  group by Branch_no;
111
112

```

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

Branch_no	Total Employees
1	3
2	3

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

```

112 • select C.Customer_name
113   from Customer C
114  join IssueStatus I on C.Customer_Id = I.Issued_cust
115  where Issue_date between '2023-06-01' and '2023-06-30';

```

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

Customer_name
Diego Maradona
Zinedine Zidane

9. Retrieve book_title from book table containing history.

```

117 • select Book_title
118 from Books
119 where Book_title like '%history%';
120

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Book_title
The History of Football

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

```

121 • select Branch_no, COUNT(*) "Total Employees"
122 from Employee
123 group by Branch_no
124 having COUNT(*) > 5;
125
126

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Branch_no	Total Employees
1	3
2	3

Result 17 x

Output

Action Output

#	Time	Action	Message
34	16:02:49	select Branch_no, COUNT(*) "Total Employees" from Employee group by Branch_no having COUNT(*) ...	0 row(s) returned
35	16:02:57	select Branch_no, COUNT(*) "Total Employees" from Employee group by Branch_no having COUNT(*) ...	2 row(s) returned

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

```

126 • select E.Emp_name, B.Branch_address
127 from Employee E
128 join Branch B on E.Emp_Id = B.Manager_Id;
129

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Emp_name	Branch_address
Lionel Messi	123 Football St, City A
Cristiano Ronaldo	456 Soccer Ave, City B

12. Display the names of customers who have issued books with a rental price higher than Rs. 25.

```

130 • select distinct C.Customer_name
131 from Customer C
132 join IssueStatus I on C.Customer_Id = I.Issued_cust
133 join Books B on I.Isbn_book = B.ISBN
134 where B.Rental_Price > 25;
135

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Customer_name

```

130 • select distinct C.Customer_name
131 from Customer C
132 join IssueStatus I on C.Customer_Id = I.Issued_cust
133 join Books B on I.Isbn_book = B.ISBN
134 where B.Rental_Price > 10;
135
136
137

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Customer_name
Diego Maradona
Zinedine Zidane