

LIBRARY MANAGEMENT SYSTEM

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 database Library;
```

```
use Library;
```

```
-- Creating tables;
```

```
create table Branch (
```

```
    Branch_no int primary key,
```

```
    Manager_id int,
```

```
    Branch_address varchar(50),
```

```
    Contact_no bigint);
```

```
create table Employee (
```

```
    Emp_id int primary key,
```

```
    Emp_name varchar(30),
```

```
    Position varchar(30),
```

```
    Salary int,
```

```
    Branch_no int,
```

```
    foreign key(Branch_no) references Branch(Branch_no));
```

```
create table Books (
```

```
    ISBN varchar (20) primary key,
```

```
    Book_title varchar(50),
```

```
    Category varchar(30),
```

```
Rental_price int,  
Status varchar(5),  
Author varchar(20),  
Publisher varchar(30));
```

```
create table Customer (  
    Customer_id int primary key,  
    Customer_name varchar(40),  
    Customer_address varchar(50),  
    Reg_date date);
```

```
create table IssueStatus (  
    Issue_id int primary key,  
    Issued_customer int,  
    foreign key(Issued_customer) references Customer(Customer_id),  
    Issue_date date,  
    ISBN_book varchar(20),  
    foreign key(ISBN_book) references Books(ISBN));
```

```
create table Returnstatus (  
    Return_id int primary key,  
    Return_cust int,  
    Return_book_name varchar(50),  
    Return_date date,  
    ISBN_book2 varchar(20),  
    foreign key(ISBN_book2) references Books(ISBN));
```

```
-- Describing all the tables;
```

```
describe Branch;
```

describe Employee;

describe Books;

describe Customer;

describe IssueStatus;

describe Returnstatus;

-- Inserting values into table;

-- Branch table

insert into Branch (Branch_no, Manager_id, Branch_address, Contact_no) values

(514, 101, 'River valley road, Arlington, Texas, USA', 8533687469),

(779, 102, 'Church road, Loyola, New York, USA', 5596324856),

(338, 103, 'Winston road, Maryland, Washington, USA', 6891555752),

(916, 104, 'Bently road, Winstor, Miami, USA', 4688226945);

select * from Branch;

-- Employee table

insert into Employee (Emp_id, Emp_name, Position, Salary, Branch_no) values

(101, 'Sam Arton', 'Manager', 4200, 514),

(501, 'Amy Peter', 'Librarian', 4000, 514),

(502, 'Steve Irwin', 'Deputy Librarian', 3800, 514),

(102, 'Hanna Paul', 'Manager', 4100, 779),

(503, 'Hanks Finn', 'Librarian', 3800, 779),

(504, 'Christina Philip', 'Deputy Librarian', 3700, 779),

(103, 'Maria Tom', 'Manager', 4300, 338),

(505, 'Robert Stanley', 'Librarian', 3900, 338),

(506, 'Liya Johnson', 'Deputy Librarian', 3700, 338),

(104, 'Luke Finn', 'Manager', 4300, 916),

(507, 'Mary Tim', 'Librarian', 4000, 916),
(508, 'Sam Neesham', 'Deputy Librarian', 3800, 916),
(509, 'Rita Hobbs', 'Library Assistant', 3500, 916);

select * from Employee;

-- Books table

insert into Books (ISBN, Book_title, Category, Rental_price, Status, Author, Publisher) values
('978-1-60309-517-4', 'Ashes', 'Fiction', 5, 'YES', 'Alvaro Ortiz', 'Top Shelf Productions'),
('978-0-14043-426-2', 'Pride and prejudice', 'Fiction Satire', 6, 'YES', 'Jane Austin', 'Modern Library'),
('978-0-06165-100-7', 'A Christmas carol', 'Fiction', 4, 'YES', ' Charles Dickens', 'HarperCollins'),
('978-0-48640-651-0', 'A tale of two cities', 'Historical', 8, 'NO', 'Charles Dickens', 'Chapman & Hall'),
('978-0-61800-224-5', 'The return of the king', 'Fantasy', 9, 'NO', 'J. R. R. Tolkien', 'Softcover'),
('978-8-17234-477-1', 'Dracula', 'Horror', 9, 'YES', 'Bram Stoker', 'Archibald Constable & Company'),
('978-8-17234-469-6', 'The three musketeers', 'Adventure', 8, 'YES', 'Alexandre Dumas', 'Oxford University Press'),
('978-1-40007-998-8', 'War and peace', 'Historical Fiction', 10, 'NO', 'Leo Tolstoy', 'Oxford University Press'),
('978-0-09952-996-5', 'Les misérables', 'Fiction Tragedy', 7, 'YES', 'Victor Hugo', 'A.Lacroix & Co'),
('978-1-94564-451-1', 'The call of the wild', 'Adventure Fiction', 5, 'NO', 'Jack London', 'Macmillan'),
('978-0-14303-943-3', 'The grapes of wrath', 'Historical Fiction', 8, 'YES', 'John Steinbeck', 'Penguin Classics'),
('978-9-38081-678-4', 'Heidi', 'Fiction', 4, 'NO', 'Johanna Spyri', 'Mapple Press'),
('978-1-90759-027-6', 'The old man and the sea', 'Novel', 6, 'YES', 'Ernest Hemingway', 'Charles Scribner Sons'),
('978-9-38676-032-6', 'Black Beauty', 'Novel Fiction', 9, 'YES', 'Anna Sewell', 'Olive Publications'),
('978-0-39453-305-6', 'The stranger', 'Crime Fiction', 7, 'YES', 'Albert Camus', 'Knopf');

select * from Books;

-- Customer table

insert into Customer (Customer_id, Customer_name, Customer_address, Reg_date) values

(1001, 'Ricky James', 'Portsblare, Willington', '2020-02-11'),
(1002, 'Ziya Hann', 'Hancock, Christ Church', '2020-07-22'),
(1003, 'Jamy Smith', 'White Rock, Disney Street', '2020-12-16'),
(1004, 'Phil Huges', 'Leland, Wonder Street ', '2021-05-01'),
(1005, 'Martin Colins', 'Kanab, Shillong', '2021-06-20'),
(1006, 'Ivan Philip', 'McCook, Antigua', '2022-10-02'),
(1007, 'Robert Minns', 'Girdwood, Barbados', '2022-10-19'),
(1008, 'Nicola Toms', 'Sugarcreek, Brooklyn', '2022-11-15'),
(1009, 'Jane Johnson', 'Newberry, Newlands', '2022-12-24'),
(1010, 'Molly Doms', 'Cross Bridge, Jainet', '2022-12-30'),
(1011, 'Harry Smith', 'Latrobe, Albany', '2023-01-29'),
(1012, 'Liam Steves', 'Kingston, Chandler', '2023-06-30'),
(1013, 'Anna Petes', 'Monowi, Clovis', '2023-07-22'),
(1014, 'Elina Toms', 'Freeport, Birmngham', '2023-09-11'),
(1015, 'Christopher Williams', 'McMullen, Fremont', '2023-10-09');

select * from Customer;

-- IssueStatus table

insert into IssueStatus (Issue_id, Issued_customer, Issue_date, ISBN_book) values

(24101, 1001, '2024-05-06', '978-1-60309-517-4'),
(24102, 1003, '2024-05-11', '978-0-06165-100-7'),
(24103, 1004, '2024-05-29', '978-8-17234-477-1'),
(24104, 1007, '2024-06-15', '978-0-14043-426-2'),
(24105, 1008, '2024-06-21', '978-8-17234-469-6'),
(24106, 1010, '2024-06-22', '978-0-09952-996-5'),
(24107, 1012, '2024-06-23', '978-0-14303-943-3'),
(24108, 1013, '2024-06-23', '978-1-90759-027-6'),

```
(24109, 1015, '2024-06-27', '978-0-39453-305-6');
```

```
select * from IssueStatus;
```

```
-- Returnstatus table
```

```
insert into Returnstatus (Return_id, Return_cust, Return_book_name, Return_date, ISBN_book2)
values
```

```
(24501, 1001, 'Ashes', '2024-05-21', '978-1-60309-517-4'),
```

```
(24502, 1004, 'Dracula', '2024-06-08', '978-8-17234-477-1'),
```

```
(24503, 1007, 'Pride and prejudice', '2024-06-22', '978-0-14043-426-2'),
```

```
(24504, 1008, 'The three musketeers', '2024-06-29', '978-8-17234-469-6'),
```

```
(24505, 1010, 'Les misérables', '2024-07-03', '978-0-09952-996-5'),
```

```
(24506, 1012, 'The grapes of wrath', '2024-07-07', '978-0-14303-943-3'),
```

```
(24507, 1013, 'The old man and the sea', '2024-07-10', '978-1-90759-027-6');
```

```
select * from Returnstatus;
```

```
-- Displaying all the tables
```

```
select * from Branch;
```

```
select * from Employee;
```

```
select * from Books;
```

```
select * from Customer;
```

```
select * from IssueStatus;
```

```
select * from Returnstatus;
```

```
-- Data need to retrieve
```

```
/*
```

```
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, salary 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
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.

*/

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

select Book_title, Category, Rental_Price from Books;

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

```

182  9. Retrieve book_title from book table containing history.
183
184  10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
185
186  11. Retrieve the names of employees who manage branches and their respective branch addresses.
187
188  12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
189
190  */
191
192  -- 1. Retrieve the book title, category, and rental price of all available books.
193
194  select Book_title, Category, Rental_Price from Books;

```

The Results grid shows the output of the query:

Book_title	Category	Rental_Price
A Christmas carol	Fiction	4
Les misérables	Fiction Tragedy	7
Pride and prejudice	Fiction Satire	6
The grapes of wrath	Historical Fiction	8
The stranger	Crime Fiction	7
A tale of two cities	Historical	8
The return of the king	Fantasy	9
War and peace	Historical Fiction	10
Adhes	Fiction	5
The old man and the sea	Novel	6
The call of the wild	Adventure Fiction	5
The three musketeers	Adventure	8
Dracula	Horror	9
Heidi	Fiction	4
Black Beauty	Novel Fiction	9

The Output tab shows the execution details:

#	Time	Action	Message	Duration / Fetch
1	14:08:09	use Library	0 row(s) affected	0.000 sec
2	14:08:16	select Book_title, Category, Rental_Price from Books LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec

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

```
186 -- 1. Retrieve the book title, category, and rental price of all available books.
187
188 -- 2. List the employee names and their respective salaries in descending order of salary.
189
190 * select Book_title, Category, Rental_Price from Books;
191
192
193
194 * select Emp_name, Salary from Employee order by Salary desc;
```

The Result Grid shows the results of the second query:

Emp_name	Salary
Maria Tom	4300
Luke Finn	4300
Sam Arton	4200
Hanna Paul	4100
Amy Peter	4000
Mary Tim	4000
Robert Stanley	3900
Steve Irwin	3800
Hanks Finn	3800
Sam Neesham	3800
Christna Philip	3700
Liya Johnson	3700
Rita Hobbs	3500

The Action Output pane shows the execution of the queries:

#	Time	Action	Message	Duration / Fetch
1	14:08:09	use Library	0 row(s) affected	0.000 sec
2	14:08:16	select Book_title, Category, Rental_Price from Books LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
3	14:08:31	select Emp_name, Salary from Employee order by Salary desc; LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec

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

```
select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on
Books.ISBN = IssueStatus.ISBN_book;
```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

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SQL ASSIGNM 4*

SQL File 3*

SQL File 4*

SQL File 5*

SQL File 6*

SQL LIBRARY MANAGEMENT...

Limit to 1000 rows

198 • select Book_title, Category, Rental_Price from Books;

199

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

201

202 • select Emp_name, Salary from Employee order by Salary desc;

203

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

205

206 • select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.ISBN = IssueStatus.ISBN_book;

207

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Book_title	Issued_customer
Aches	1001
A Christmas carol	1003
Dracula	1004
Pride and prejudice	1007
The three musketeers	1008
Les misérables	1010
The grapes of wrath	1012
The old man and the sea	1013
The stranger	1015

Result 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
2	14:08:16	select Book_title, Category, Rental_Price from Books LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
3	14:08:31	select Emp_name, Salary from Employee order by Salary desc LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
4	14:08:41	select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.I...	9 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

News for you

Betrayal of J&K...

Search

ENG IN

14:08

14-07-2024

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

select Category, count(ISBN) as Total_books from Books group by Category;

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

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SQL ASSIGNM 4*

SQL File 3*

SQL File 4*

SQL File 5*

SQL File 6*

SQL LIBRARY MANAGEMENT...

Limit to 1000 rows

194 • select Emp_name, Salary from Employee order by Salary desc;

195

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

197

198 • select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.ISBN = IssueStatus.ISBN_book;

199

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

201

202 • select Category, count(ISBN) as Total_books from Books group by Category;

203

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Category	Total_books
Fiction	3
Fiction Tragedy	1
Fiction Satire	1
Historical Fiction	2
Crime Fiction	1
Historical	1
Fantasy	1
Novel	1
Adventure Fiction	1
Adventure	1
Horror	1
Novel Fiction	1

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	14:08:31	select Emp_name, Salary from Employee order by Salary desc LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
4	14:08:41	select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.I...	9 row(s) returned	0.000 sec / 0.000 sec
5	14:09:11	select Category, count(ISBN) as Total_books from Books group by Category LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

News for you

Betrayal of J&K...

Search

ENG IN

14:09

14-07-2024

-- 5. Retrieve the employee names, salary and their positions for the employees whose salaries are above \$3750.

select Emp_name, Position, Salary from Employee where Salary > 3750;

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

```
198 • select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.ISBN = IssueStatus.ISBN_book;
199
200 -- 4. Display the total count of books in each category.
201
202 • select Category, count(ISBN) as Total_books from Books group by Category;
203
204 -- 5. Retrieve the employee names, salary and their positions for the employees whose salaries are above $3750.
205
206 • select Emp_name, Position, Salary from Employee where Salary > 3750;
```

The Result Grid shows the results of the last query:

Emp_name	Position	Salary
Sam Arton	Manager	4200
Hanna Paul	Manager	4100
Maria Tom	Manager	4300
Luke Finn	Manager	4300
Amy Peter	Librarian	4000
Steve Irwin	Deputy Librarian	3800
Hanks Finn	Librarian	3800
Robert Stanley	Librarian	3900
Mary Tim	Librarian	4000
Sam Neeshan	Deputy Librarian	3800

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
4	14:08:41	select Books.Book_title, IssueStatus.Issued_customer from Books inner join IssueStatus on Books.I...	9 row(s) returned	0.000 sec / 0.000 sec
5	14:09:11	select Category, count(ISBN) as Total_books from Books group by Category LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec
6	14:09:33	select Emp_name, Position, Salary from Employee where Salary > 3750 LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

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

select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;

MySQL Workbench

Local instance MySQL80

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Administration Schemas

Information

No object selected

SQL ASSIGNMENT 4

SQL File 3

SQL File 4

SQL File 5

SQL File 6

SQL LIBRARY MANAGEMENT

Limit to 1000 rows

281

282 • select Category, count(ISBN) as Total_books from Books group by Category;

283

284 -- 5. Retrieve the employee names, salary and their positions for the employees whose salaries are above \$3750.

285

286 • select Emp_name, Position, Salary from Employee where Salary > 3750;

287

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

289

290

291 • select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer

292 where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;

293

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Customer_name

Ziya Hann

Martin Collins

Result 15

Output

Action Output

#	Time	Action	Message	Duration / Fetch
15	16:00:41	select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;	2 row(s) returned	0.000 sec / 0.000 sec
16	16:01:04	select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Employee on Branch.Branch_no = Employee.Branch_no group by Branch_no;	4 row(s) returned	0.000 sec / 0.000 sec
17	16:02:48	select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

28°C light rain

16:02 14-07-2024

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

select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Employee on Branch.Branch_no = Employee.Branch_no group by Branch_no;

MySQL Workbench

Local instance MySQL80

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Administration Schemas

Information

No object selected

SQL ASSIGNMENT 4

SQL File 3

SQL File 4

SQL File 5

SQL File 6

SQL LIBRARY MANAGEMENT

Limit to 1000 rows

286 • select Emp_name, Position, Salary from Employee where Salary > 3750;

287

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

289

290

291 • select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer

292 where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;

293

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

295

296 • select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Employee

297 on Branch.Branch_no = Employee.Branch_no group by Branch_no;

298

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Branch_no	total_employees
338	3
514	3
779	3
916	4

Result 16

Output

Action Output

#	Time	Action	Message	Duration / Fetch
16	16:01:04	select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Employee on Branch.Branch_no = Employee.Branch_no group by Branch_no;	4 row(s) returned	0.000 sec / 0.000 sec
17	16:02:48	select Customer.Customer_name from Customer left join IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer where Customer.Reg_date < '2022-01-01' and IssueStatus.Issued_customer is null;	2 row(s) returned	0.000 sec / 0.000 sec
18	16:02:50	select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Employee on Branch.Branch_no = Employee.Branch_no group by Branch_no;	4 row(s) returned	0.000 sec / 0.000 sec

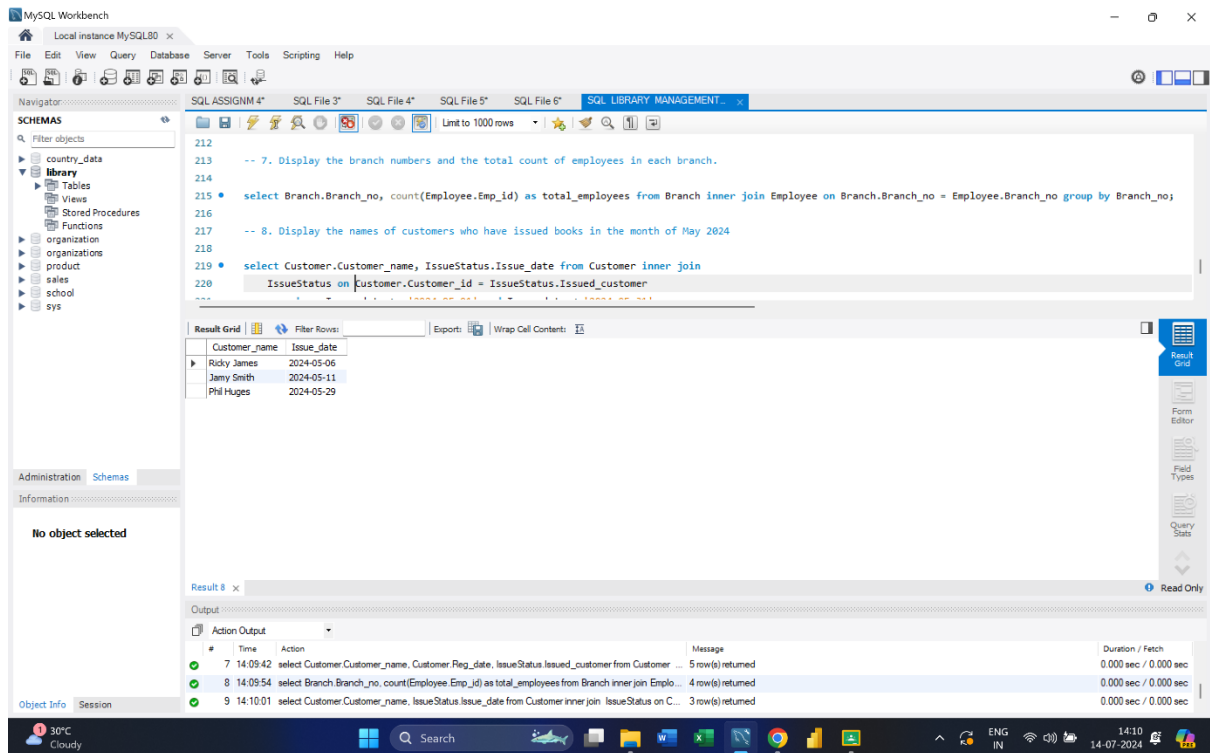
Query Completed

28°C light rain

16:03 14-07-2024

-- 8. Display the names of customers who have issued books in the month of May 2024

```
select Customer.Customer_name, IssueStatus.Issue_date from Customer inner join  
IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer  
where Issue_date >= '2024-05-01' and Issue_date <='2024-05-31';
```



-- 9. Retrieve book_title from book table containing Fiction.

```
select Book_title, Category from Books where Category = 'Fiction';
```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

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Filter objects

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SQL ASSIGNMENT 4*

SQL File 3*

SQL File 4*

SQL File 5*

SQL File 6*

SQL LIBRARY MANAGEMENT...

Limit to 1000 rows

217 -- 8. Display the names of customers who have issued books in the month of May 2024

218

219 • select Customer.Customer_name, IssueStatus.Issue_date from Customer inner join

220 IssueStatus on Customer.Customer_id = IssueStatus.Issued_customer

221 where Issue_date >= '2024-05-01' and Issue_date <='2024-05-31';

222

223 -- 9. Retrieve book_title from book table containing Fiction.

224

225 • select Book_title, Category from books where Category = 'Fiction';

Result Grid

Filter Rows:

Export: Wrap Cell Contents

Book_title	Category
A Christmas carol	Fiction
Adhes	Fiction
Hedi	Fiction

Books 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	14:09:54	select Branch.Branch_no, count(Employee.Emp_id) as total_employees from Branch inner join Emplo...	4 row(s) returned	0.000 sec / 0.000 sec
9	14:10:01	select Customer.Customer_name, IssueStatus.Issue_date from Customer inner join IssueStatus on C...	3 row(s) returned	0.000 sec / 0.000 sec
10	14:10:09	select Book_title, Category from Books where Category = 'Fiction' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Cloudy

Search

ENG IN

14:10 14-07-2024

-- 10. Retrieve the branch numbers along with the count of employees for branches having more than 2 employees

select Branch_no, count(Emp_id) as Total_employees from Employee group by Branch_no having count(Emp_id) > 3;

MySQL Workbench

Local instance MySQL80

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sys

SQL ASSIGNMENT 4*

SQL File 3*

SQL File 4*

SQL File 5*

SQL File 6*

SQL LIBRARY MANAGEMENT...

Limit to 1000 rows

221 where Issue_date >= '2024-05-01' and Issue_date <='2024-05-31';

222

223 -- 9. Retrieve book_title from book table containing Fiction.

224

225 • select Book_title, Category from Books where Category = 'Fiction';

226

227 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 2 employees

228

229 • select Branch_no, count(Emp_id) as Total_employees from Employee group by Branch_no having count(Emp_id) > 3;

Result Grid

Filter Rows:

Export: Wrap Cell Contents

Branch_no	Total_employees
916	4

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	14:10:01	select Customer.Customer_name, IssueStatus.Issue_date from Customer inner join IssueStatus on C...	3 row(s) returned	0.000 sec / 0.000 sec
10	14:10:09	select Book_title, Category from Books where Category = 'Fiction' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
11	14:10:16	select Branch_no, count(Emp_id) as Total_employees from Employee group by Branch_no having c...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Cloudy

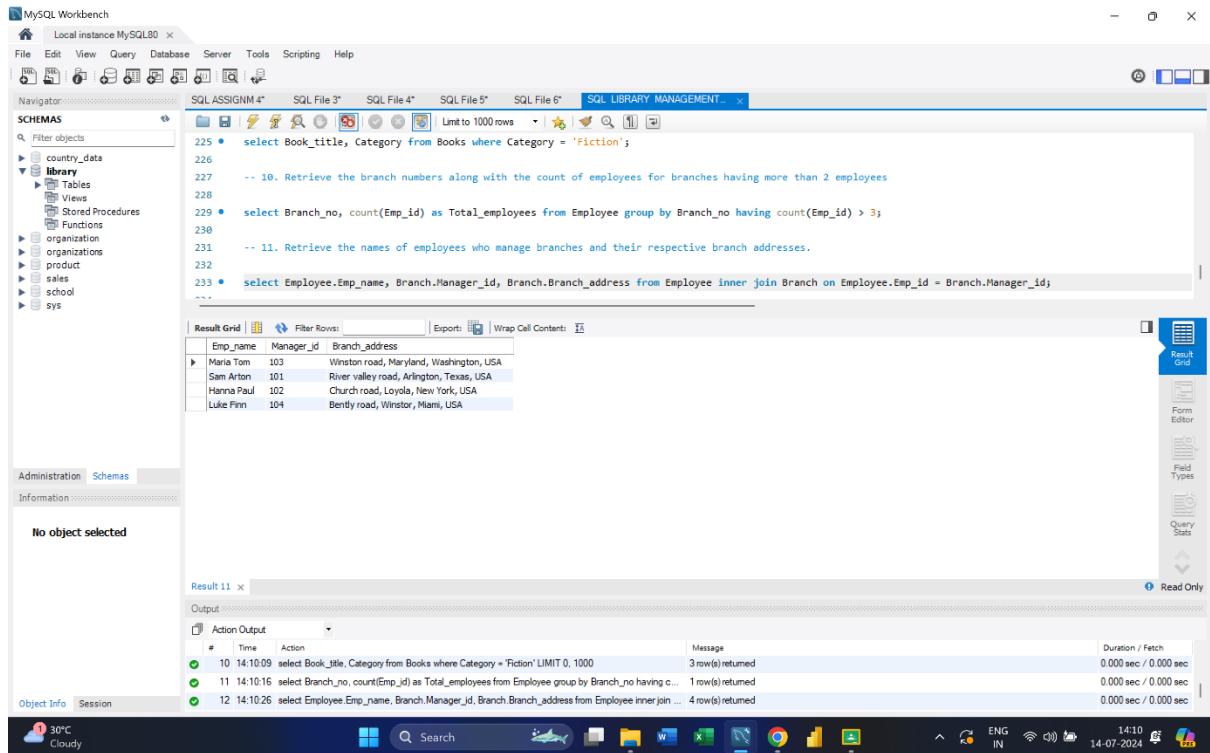
Search

ENG IN

14:10 14-07-2024

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

```
select Employee.Emp_name, Branch.Manager_id, Branch.Branch_address from Employee inner join  
Branch on Employee.Emp_id = Branch.Manager_id;
```



-- 12. Display the names of customers who have issued books with a rental price higher than \$6.

```
select Customer_name from Customer where Customer_id in  
(select Issued_customer from IssueStatus where ISBN_book in  
(select ISBN from Books where Rental_price > 6 ) );
```

MySQL Workbench

Local instance MySQL80

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SQL ASSIGNMENT 4*

SQL File 3*

SQL File 4*

SQL File 5*

SQL File 6*

SQL LIBRARY MANAGEMENT...

Limit to 1000 rows

229 • select Branch_no, count(Emp_id) as Total_employees from Employee group by Branch_no having count(Emp_id) > 3;

230

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

232

233 • select Employee.Emp_name, Branch.Manager_id, Branch.Branch_address from Employee inner join Branch on Employee.Emp_id = Branch.Manager_id;

234

235 -- 12. Display the names of customers who have issued books with a rental price higher than \$6.

236

237 • select Customer_name from Customer where Customer_id in

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Customer_name

Molly Doms

Liam Steves

Christopher Williams

Nicola Toms

Phil Hughes

Administration Schemas

Information

No object selected

Customer 12 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	14:10:16	select Branch_no, count(Emp_id) as Total_employees from Employee group by Branch_no having c...	1 row(s) returned	0.000 sec / 0.000 sec
12	14:10:26	select Employee Emp_name, Branch Manager_id, Branch Branch_address from Employee inner join ...	4 row(s) returned	0.000 sec / 0.000 sec
13	14:10:33	select Customer_name from Customer where Customer_id in (select Issued_customer from IssueStat...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Cloudy

Search

ENG IN

14:10 14-07-2024