

# **LIBRARY MANAGEMENT SYSTEM**

You are going to build a project based on the *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

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

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 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 a 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.

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp qwe Triggers views SQL File 17\* subqueries Library Management System\*

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1 • CREATE DATABASE library;
2
3 • USE library;
4
5 -- Create table Branch
6 • ○ CREATE TABLE Branch (
7     Branch_no INT PRIMARY KEY,
8     Manager_Id INT,
9     Branch_address VARCHAR(255),
10    Contact_no VARCHAR(15)
11 );
12 -- Insert data into table Branch
13 • INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUES
14 (1, 101, '123 Main St, CityA', '1234567890'),
15 (2, 102, '456 Elm St, CityB', '12345678901'),
16 (3, 103, '789 Oak St, CityC', '123456789012'),
17 (4, 104, '321 Pine St, CityD', '1234567890123'),
18 (5, 105, '654 Maple St, CityE', '12345678901234');
19
20 -- Create table Employee
21 • ○ CREATE TABLE Employee (
22     Emp_Id INT PRIMARY KEY,
23     Emp_name VARCHAR(255),
24     Position VARCHAR(255),
25     Salary DECIMAL(10, 2),
26     Branch_no INT,
27     FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)
28 );
29 -- Insert data into table Employee
30 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES
31 (101, 'Alice Smith', 'Manager', 75000, 1),
32 (102, 'Bob Johnson', 'Assistant Manager', 60000, 2),
33 (103, 'Charlie Lee', 'Librarian', 50000, 3),
34 (104, 'Diana Clark', 'Assistant Librarian', 45000, 4),
35 (105, 'Evan Martin', 'Clerk', 30000, 5);
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37 -- Create table Books
38 • ○ CREATE TABLE Books (
39     Book_id INT PRIMARY KEY,
40     Book_title VARCHAR(255),
41     Category VARCHAR(255),
42     Author VARCHAR(255),
43     Price DECIMAL(10, 2),
44     ISBN VARCHAR(20)
45 );
46 -- Insert data into table Books
47 • INSERT INTO Books (Book_id, Book_title, Category, Author, Price, ISBN) VALUES
48 (1, 'The Great Gatsby', 'Fiction', 'F. Scott Fitzgerald', 12.99, '9780451522221'),
49 (2, 'To Kill a Mockingbird', 'Fiction', 'Harper Lee', 14.99, '9780061120085'),
50 (3, '1984', 'Science Fiction', 'George Orwell', 9.99, '9780451524934'),
51 (4, 'Pride and Prejudice', 'Romance', 'Jane Austen', 11.99, '9780143039297'),
52 (5, 'War and Peace', 'Historical Fiction', 'Leo Tolstoy', 19.99, '9780451522185');
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55 • ○ CREATE TABLE IssueStatus (
56     Issue_Id INT PRIMARY KEY,
57     Issued_cust INT,
58     Issued_book_name VARCHAR(255),
59     Return_cust INT,
60     Return_book_name VARCHAR(255),
61     Status VARCHAR(255)
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64 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Return_cust, Return_book_name, Status) VALUES
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66 (2, 102, 'To Kill a Mockingbird', 103, 'To Kill a Mockingbird', 'Issued'),
67 (3, 103, '1984', 104, '1984', 'Issued'),
68 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
69 (5, 105, 'War and Peace', 101, 'War and Peace', 'Issued');
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83 (4, 105, 'Pride and Prejudice', 'Returned'),
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91     Address VARCHAR(255),
92     City VARCHAR(255),
93     State VARCHAR(255),
94     Zip INT
95 );
96 -- Insert data into table Customer
97 • INSERT INTO Customer (Customer_Id, Customer_name, Cust_no, Address, City, State, Zip) VALUES
98 (101, 'John Doe', 101, '123 Main St', 'CityA', 'StateA', 12345),
99 (102, 'Jane Smith', 102, '456 Elm St', 'CityB', 'StateB', 12346),
100 (103, 'Mike Johnson', 103, '789 Oak St', 'CityC', 'StateC', 12347),
101 (104, 'Sarah Lee', 104, '321 Pine St', 'CityD', 'StateD', 12348),
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135 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
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283 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
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312 (3, 103, '789 Oak St, CityC', '123456789012'),
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363 (3, 103, '1984', 104, '1984', 'Issued'),
364 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
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489 );
490 -- Insert data into table Books
491 • INSERT INTO Books (Book_id, Book_title, Category, Author, Price, ISBN) VALUES
492 (1, 'The Great Gatsby', 'Fiction', 'F. Scott Fitzgerald', 12.99, '9780451522221'),
493 (2, 'To Kill a Mockingbird', 'Fiction', 'Harper Lee', 14.99, '9780061120085'),
494 (3, '1984', 'Science Fiction', 'George Orwell', 9.99, '9780451524934'),
495 (4, 'Pride and Prejudice', 'Romance', 'Jane Austen', 11.99, '9780143039297'),
496 (5, 'War and Peace', 'Historical Fiction', 'Leo Tolstoy', 19.99, '9780451522185');
497
498 -- Create table IssueStatus
499 • ○ CREATE TABLE IssueStatus (
500     Issue_Id INT PRIMARY KEY,
501     Issued_cust INT,
502     Issued_book_name VARCHAR(255),
503     Return_cust INT,
504     Return_book_name VARCHAR(255),
505     Status VARCHAR(255)
506 );
507 -- Insert data into table IssueStatus
508 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Return_cust, Return_book_name, Status) VALUES
509 (1, 101, 'The Great Gatsby', 102, 'The Great Gatsby', 'Issued'),
510 (2, 102, 'To Kill a Mockingbird', 103, 'To Kill a Mockingbird', 'Issued'),
511 (3, 103, '1984', 104, '1984', 'Issued'),
512 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
513 (5, 105, 'War and Peace', 101, 'War and Peace', 'Issued');
514
515 -- Create table ReturnStatus
516 • ○ CREATE TABLE ReturnStatus (
517     Return_Id INT PRIMARY KEY,
518     Return_cust INT,
519     Return_book_name VARCHAR(255),
520     Status VARCHAR(255)
521 );
522 -- Insert data into table ReturnStatus
523 • INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Status) VALUES
524 (1, 102, 'The Great Gatsby', 'Returned'),
525 (2, 103, 'To Kill a Mockingbird', 'Returned'),
526 (3, 104, '1984', 'Returned'),
527 (4, 105, 'Pride and Prejudice', 'Returned'),
528 (5, 101, 'War and Peace', 'Returned');
529
530 -- Create table Customer
531 • ○ CREATE TABLE Customer (
532     Customer_Id INT PRIMARY KEY,
533     Customer_name VARCHAR(255),
534     Cust_no INT,
535     Address VARCHAR(255),
536     City VARCHAR(255),
537     State VARCHAR(255),
538     Zip INT
539 );
540 -- Insert data into table Customer
541 • INSERT INTO Customer (Customer_Id, Customer_name, Cust_no, Address, City, State, Zip) VALUES
542 (101, 'John Doe', 101, '123 Main St', 'CityA', 'StateA', 12345),
543 (102, 'Jane Smith', 102, '456 Elm St', 'CityB', 'StateB', 12346),
544 (103, 'Mike Johnson', 103, '789 Oak St', 'CityC', 'StateC', 12347),
545 (104, 'Sarah Lee', 104, '321 Pine St', 'CityD', 'StateD', 12348),
546 (105, 'David Clark', 105, '654 Maple St', 'CityE', 'StateE', 12349);
547
548 -- Create table Books
549 • ○ CREATE TABLE Books (
550     Book_id INT PRIMARY KEY,
551     Book_title VARCHAR(255),
552     Category VARCHAR(255),
553     Author VARCHAR(255),
554     Price DECIMAL(10, 2),
555     ISBN VARCHAR(20)
556 );
557 -- Insert data into table Books
558 • INSERT INTO Books (Book_id, Book_title, Category, Author, Price, ISBN) VALUES
559 (1, 'The Great Gatsby', 'Fiction', 'F. Scott Fitzgerald', 12.99, '9780451522221'),
560 (2, 'To Kill a Mockingbird', 'Fiction', 'Harper Lee', 14.99, '9780061120085'),
561 (3, '1984', 'Science Fiction', 'George Orwell', 9.99, '9780451524934'),
562 (4, 'Pride and Prejudice', 'Romance', 'Jane Austen', 11.99, '9780143039297'),
563 (5, 'War and Peace', 'Historical Fiction', 'Leo Tolstoy', 19.99, '9780451522185');
564
565 -- Create table IssueStatus
566 • ○ CREATE TABLE IssueStatus (
567     Issue_Id INT PRIMARY KEY,
568     Issued_cust INT,
569     Issued_book_name VARCHAR(255),
570     Return_cust INT,
571     Return_book_name VARCHAR(255),
572     Status VARCHAR(255)
573 );
574 -- Insert data into table IssueStatus
575 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Return_cust, Return_book_name, Status) VALUES
576 (1, 101, 'The Great Gatsby', 102, 'The Great Gatsby', 'Issued'),
577 (2, 102, 'To Kill a Mockingbird', 103, 'To Kill a Mockingbird', 'Issued'),
578 (3, 103, '1984', 104, '1984', 'Issued'),
579 (4, 104, 'Pride and Prejudice', 105, 'Pride and Prejudice', 'Issued'),
580 (5, 105, 'War and Peace', 101, 'War and Peace', 'Issued');
581
582 -- Create table ReturnStatus
583 • ○ CREATE TABLE ReturnStatus (
584     Return_Id INT PRIMARY KEY,
585     Return_cust INT,
586     Return_book_name VARCHAR(255),
587     Status VARCHAR(255)
588 );
589 -- Insert data into table ReturnStatus
590 • INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Status) VALUES
591 (1, 102, 'The Great Gatsby', 'Returned'),
592 (2, 103, 'To Kill a Mockingbird', 'Returned'),
593 (3, 104, '1984', 'Returned'),
594 (4, 105, 'Pride and Prejudice', 'Returned'),
595 (5, 101, 'War and Peace', 'Returned');
596
597 -- Create table Branch
598 • ○ CREATE TABLE Branch (
599     Branch_no INT PRIMARY KEY,
600     Manager_Id INT,
601     Branch_address VARCHAR(255),
602     Contact_no VARCHAR(15)
603 );
604 -- Insert data into table Branch
605 • INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUES
606 (1, 101, '123 Main St, CityA', '1234567890'),
607 (2, 102, '456 Elm St, CityB', '12345678901'),
608 (3, 103, '789 Oak St, CityC', '123456789012'),
609 (4, 104, '321 Pine St, CityD', '1234567890123'),
610 (5, 105, '654 Maple St, CityE', '12345678901234');
611
612 -- Create table Employee
613 • ○ CREATE TABLE Employee (
614     Emp_Id INT PRIMARY KEY,
615     Emp_name VARCHAR(255),
616     Position VARCHAR(255),
617     Salary DECIMAL(10, 2),
618     Branch_no INT,
619     FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)
620 );
621 -- Insert data into table Employee
622 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES
623 (101, 'Alice Smith', 'Manager', 75000, 1),
624 (102, 'Bob Johnson', 'Assistant Manager', 60000, 2),
625 (103, 'Charlie Lee', 'Librarian', 50000, 3),
626 (104, 'Diana Clark', 'Assistant Librarian', 45000, 4),
627 (105, 'Evan Martin', 'Clerk', 30000, 5);
628
629 -- Create table Books
630 • ○ CREATE TABLE Books (
631     Book_id INT PRIMARY KEY,
632     Book_title VARCHAR(255),
633     Category VARCHAR(255),
634     Author VARCHAR(255),
635     Price DECIMAL(10, 2),
636     ISBN VARCHAR(20)
637 );
638 -- Insert data into table Books
639 • INSERT INTO Books (Book_id, Book_title, Category, Author, Price, ISBN) VALUES
640 (1, 'The Great Gatsby', 'Fiction', 'F. Scott Fitzgerald', 12.99, '9780451522221'),
641 (2, 'To Kill a Mockingbird', 'Fiction', 'Harper Lee', 14.99, '9780061120085'),
642 (3, '1984', 'Science Fiction', 'George Orwell', 9.99, '9780451524934'),
643 (4, 'Pride and Prejudice', 'Romance', 'Jane Austen', 11.99, '9780143039297'),
644 (5, 'War and Peace', 'Historical Fiction', 'Leo Tolstoy', 19.99, '9780451522185');
645
646 -- Create table IssueStatus
647 • ○ CREATE TABLE IssueStatus (
648     Issue_Id INT PRIMARY KEY,
649     Issued_cust INT,
650     Issued_book_name VARCHAR(255),
651     Return_cust INT,
652     Return_book_name VARCHAR(255),
653     Status VARCHAR(255)
654 );
655 -- Insert data into table IssueStatus
656 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Return_cust, Return_book_name, Status) VALUES
657 (1, 101, 'The Great Gatsby', 102, 'The Great Gatsby', 'Issued'),
658
```

MySQL Workbench

Local instance MySQL20 X

File Edit View Query Database Server Tools Scripting Help

Schemas

- company
- countries
- country
- d33
- institute
- location
- product
- sales
- school
- sys
- testdb
- user\_db
- world

Task 2 Assignment Task 3 Assignment sql-clause 1 workbook operators Task 4 Assignment Sp awe Triggers views SQL File 17\* subqueries Library Management System\*

```

37 -- Create table Books
38 • CREATE TABLE Books (
39     ISBN VARCHAR(20) PRIMARY KEY,
40     Book_title VARCHAR(255),
41     Category VARCHAR(255),
42     Rental_Price DECIMAL(10, 2),
43     Status VARCHAR(3) CHECK (Status IN ('yes', 'no')),
44     Author VARCHAR(255),
45     Publisher VARCHAR(255)
46 )
47 -- Insert data into table Books
48 • INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES
49     ('978-3-16-148410-0', 'The Great Gatsby', 'Fiction', 15.00, 'yes', 'F. Scott Fitzgerald', 'Scribner'),
50     ('978-0-14-028333-4', '1984', 'Dystopian', 12.00, 'no', 'George Orwell', 'Penguin Books'),
51     ('978-1-56619-989-4', 'To Kill a Mockingbird', 'Fiction', 10.00, 'yes', 'Harper Lee', 'J.B. Lippincott & Co.'),
52     ('978-0-7432-7356-5', 'A Brief History of Time', 'Science', 20.00, 'yes', 'Stephen Hawking', 'Bantam Books'),
53     ('978-0-452-28423-4', 'Moby-Dick', 'Fiction', 18.00, 'no', 'Herman Melville', 'Harper & Brothers')
54
55 -- Create table Customer
56 • CREATE TABLE Customer (
57     Customer_Id INT AUTO_INCREMENT

```

Administration Schemas Information

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
7	20:55:19	CREATE TABLE IssueStatus ( Issue_Id INT PRIMARY KEY, Issued_cust INT, Issued_book_name VAR... )	0 rows affected	0.922 sec
8	20:55:58	CREATE TABLE ReturnStatus ( Return_Id INT PRIMARY KEY, Return_cust INT, Return_book_name ... )	0 rows affected	1.000 sec
9	21:01:07	INSERT INTO Branch(Branch_no, Manager_Id, Branch_address, Contact_no) VALUES (1, 101, '123 Main St...', 5)	5 rows affected Records: 5 Duplicates: 0 Warnings: 0	0.297 sec
10	21:02:12	INSERT INTO Employee(Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (101, 'Alice Smith', 'Manager', 5000, 1)	5 rows affected Records: 5 Duplicates: 0 Warnings: 0	0.094 sec
11	21:03:54	INSERT INTO Books(ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES ('978-3-16-148410-0', 'The Great Gatsby', 'Fiction', 15.00, 'yes', 'F. Scott Fitzgerald', 'Scribner')	5 rows affected Records: 5 Duplicates: 0 Warnings: 0	0.360 sec

Object Info Session

Query Completed

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (company, countries, country, d33, institute, institution, product, sales, school, sys, testdb, user\_db, world).
- Task Bar:** Task 2 Assignment, Task 3 Assignment, sql clause 1, workbook, operators, Task 4 Assignment, Sp, qwe, Triggers, views, SQL File 17\*, subqueries, Library Management System\*, +, <|>, <|>.
- SQL Editor:** Contains the following code:

```
-- Create table Customer
CREATE TABLE Customer (
    Customer_Id INT PRIMARY KEY,
    Customer_name VARCHAR(255),
    Customer_address VARCHAR(255),
    Reg_date DATE
);

-- Insert data into table Customer
INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES
(201, 'John Doe', '789 Birch St, CityA', '2023-01-15'),
(202, 'Jane Smith', '456 Cedar St, CityB', '2021-06-25'),
(203, 'Sam Brown', '123 Spruce St, CityC', '2020-11-10'),
(204, 'Lisa White', '321 Ash St, CityD', '2022-08-05'),
(205, 'Tom Black', '654 Willow St, CityE', '2023-03-22');

-- Create table IssueStatus
CREATE TABLE IssueStatus (
    Issue_Id INT PRIMARY KEY,
    Issued_cust INT,
    Issued_book_name VARCHAR(255),
    Issue_date DATE
);
```
- Output Tab:** Action Output table showing the results of the last 12 queries, including time, action, message, and duration/fetch time.
- Object Info Tab:** No object selected.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator and Schemas, with the 'company' schema selected. The main workspace shows a SQL editor with the following code:

```
-- Create table IssueStatus
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)
);

-- Insert data into IssueStatus table
INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, ISBN_book) VALUES
(301, 201, 'The Great Gatsby', '2023-06-10', '978-0-14-102410-0'),
(302, 202, '1984', '2023-06-15', '978-0-14-028332-4'),
(303, 203, 'To Kill a Mockingbird', '2023-06-20', '978-0-56619-909-4'),
(304, 204, 'A Brief History of Time', '2023-06-25', '978-0-7432-7356-5'),
(305, 205, 'Moby-Dick', '2023-06-30', '978-0-452-28423-4');

-- Create table ReturnStatus
CREATE TABLE ReturnStatus (
```

The bottom section shows the Output pane with the following log entries:

Action	Time	Message	Duration / Fetch
INSERT INTO Branch	9 21:01:07	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.297 sec
INSERT INTO Employee	10 21:02:12	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.094 sec
INSERT INTO Books	11 21:03:54	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.360 sec
INSERT INTO Customer	12 21:04:49	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.140 sec
INSERT INTO IssueStatus	13 21:05:23	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\*

Limit to 1000 rows

```

87
88 -- Create table ReturnStatus
89 • CREATE TABLE ReturnStatus (
90     Return_Id INT PRIMARY KEY,
91     Return_cust INT,
92     Return_book_name VARCHAR(255),
93     Return_date DATE,
94     ISBN_book2 VARCHAR(20),
95     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
96     FOREIGN KEY (ISBN_book2) REFERENCES Books(ISBN)
97 )
98 -- Insert data into table ReturnStatus
99 • INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, ISBN_book2) VALUES
100 (401, 201, 'The Great Gatsby', '2023-07-01', '978-3-16-148410-0'),
101 (402, 202, '1984', '2023-07-05', '978-0-14-28333-4'),
102 (403, 203, 'To Kill a Mockingbird', '2023-07-10', '978-1-56619-989-4'),
103 (404, 204, 'A Brief History of Time', '2023-07-15', '978-0-7432-7356-5'),
104 (405, 205, 'Moby-Dick', '2023-07-20', '978-0-452-28423-4')
105
106
107

```

Administration Schemas

Information: No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
10	21:02:12	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (101, 'Alice Smith', 'Manager', 5000)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.094 sec
11	21:03:54	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES ('978-3-16-148410-0', 'The Great Gatsby', 'Fiction', 20.00, 'Available', 'F. Scott Fitzgerald', 'Penguin Random House')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.360 sec
12	21:04:49	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES (201, 'John Doe', '123 Main St, Anytown, USA', '2023-07-01')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.140 sec
13	21:05:23	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, ISBN_book) VALUES (301, 201, 'The Great Gatsby', '2023-07-01', '978-3-16-148410-0')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
14	21:06:16	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, ISBN_book2) VALUES (401, 201, 'The Great Gatsby', '2023-07-20', '978-0-452-28423-4')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:06 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\*

Limit to 1000 rows

```

103 (404, 204, 'A Brief History of Time', '2023-07-15', '978-0-7432-7356-5'),
104 (405, 205, 'Moby-Dick', '2023-07-20', '978-0-452-28423-4')
105
106 -- Retrieve the book title, category, and rental price of all available books.
107 • SELECT Book_title, Category, Rental_Price
108   FROM Books
109   WHERE Status = 'yes';

```

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

Book_title	Category	Rental_Price
A Brief History of Time	Science	20.00
To Kill a Mockingbird	Fiction	10.00
The Great Gatsby	Fiction	15.00

Books 1 x

Object Info Session

Information: No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
11	21:03:54	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES ('978-3-16-148410-0', 'The Great Gatsby', 'Fiction', 20.00, 'Available', 'F. Scott Fitzgerald', 'Penguin Random House')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.360 sec
12	21:04:49	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES (201, 'John Doe', '123 Main St, Anytown, USA', '2023-07-01')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.140 sec
13	21:05:23	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, ISBN_book) VALUES (301, 201, 'The Great Gatsby', '2023-07-01', '978-3-16-148410-0')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
14	21:06:16	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, ISBN_book2) VALUES (401, 201, 'The Great Gatsby', '2023-07-20', '978-0-452-28423-4')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
15	21:07:16	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:07 PM 21-07-2024

MySQL Workbench

Local instance MySQL20

File Edit View Query Database Server Tools Scripting Help

Schemas

- company
- countries
- country
- d33
- institute
- location
- product
- sales
- school
- sys
- testdb
- user\_db
- world

Task 2 Assignment Task 3 Assignment sql-clause 1 workbook operators Task 4 Assignment Sp awe Triggers views SQL File 17\* subqueries Library Management System\*

108 FROM Books  
109 WHERE Status = 'yes';  
110  
111 -- List the employee names and their respective salaries in descending order of salary.  
112 • SELECT Emp\_name, Salary  
113 FROM Employee  
114 ORDER BY Salary DESC;

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

Emp_name	Salary
Alice Smith	75000.00
Bob Johnson	60000.00
Charlie Lee	50000.00
Diana Clark	45000.00
Evan Martin	30000.00

Administration Schemas Employee 2 x

No object selected

Action Output

Time	Action	Message	Duration / Fetch
12 21:04:49	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES (201, John ...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.140 sec
13 21:05:23	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, isbn_book) VALUES (301, ...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
14 21:06:16	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, isbn_book2) VALUES (301, ...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
15 21:07:16	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
16 21:08:01	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

Cloudy 28°C

Search

Windows Taskbar icons: File Explorer, Edge, Facebook, Google Chrome, Mail, Notepad, Task View, Task Manager, Power User, Start, Taskbar settings.

ENG IN 09:08 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp owe Triggers views SQL File 17\* subqueries Library Management System\* X

Limit to 1000 rows

```

114 ORDER BY Salary DESC;
115
116 -- Retrieve the book titles and the corresponding customers who have issued those books.
117 • SELECT B.Book_title, C.Customer_name
118 FROM IssueStatus I
119 JOIN Books B ON I.Iisbn_book = B.ISBN
120 JOIN Customer C ON I.Issued_cust = C.Customer_Id;

```

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

Book_title	Customer_name
The Great Gatsby	John Doe
1984	Jane Smith
To Kill a Mockingbird	Sam Brown
A Brief History of Time	Lisa White
Moby-Dick	Tom Black

Result 3 x Read Only

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
13	21:05:23	INSERT INTO Issue_Status (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Iisbn_book) VALUES (301, 1, 'The Great Gatsby', '2024-07-21', '9780553213104')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
14	21:06:16	INSERT INTO Return_Status (Return_Id, Return_cust, Return_book_name, Return_date, Iisbn_book2) VALUES (302, 1, '1984', '2024-07-21', '9780553213104')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
15	21:07:16	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
16	21:08:01	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
17	21:08:54	SELECT B.Book_title, C.Customer_name FROM Issue_Status I JOIN Books B ON I.Iisbn_book = B.ISBN JOIN Customer C ON I.Issued_cust = C.Customer_Id;	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:08 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp owe Triggers views SQL File 17\* subqueries Library Management System\* X

Limit to 1000 rows

```

119 JOIN Books B ON I.Iisbn_book = B.ISBN
120 JOIN Customer C ON I.Issued_cust = C.Customer_Id;
121
122 -- Display the total count of books in each category.
123 • SELECT Category, COUNT(*) AS Total_Books
124 FROM Books
125 GROUP BY Category;

```

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

Category	Total_Books
Dystopian	1
Fiction	3
Science	1

Result 4 x Read Only

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
14	21:06:16	INSERT INTO Return_Status (Return_Id, Return_cust, Return_book_name, Return_date, Iisbn_book2) VALUES (302, 1, '1984', '2024-07-21', '9780553213104')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.203 sec
15	21:07:16	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
16	21:08:01	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
17	21:08:54	SELECT B.Book_title, C.Customer_name FROM Issue_Status I JOIN Books B ON I.Iisbn_book = B.ISBN JOIN Customer C ON I.Issued_cust = C.Customer_Id;	5 row(s) returned	0.000 sec / 0.000 sec
18	21:09:34	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.094 sec / 0.015 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:09 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp owe Triggers views SQL File 17\* subqueries Library Management System\* X

```

124   FROM Books
125   GROUP BY Category;
126
127   -- Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
128 •   SELECT Emp_name, Position
129   FROM Employee
130   WHERE Salary > 50000;
  
```

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

Emp_name	Position
Alice Smith	Manager
Bob Johnson	Assistant Manager

Administration Schemas

Employee 5 x

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
15	21:07:16	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
16	21:08:01	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
17	21:08:54	SELECT B.Book_title, C.Customer_name FROM IssueStatus I JOIN Books B ON I.Issue_book = B.ISBN JOIN ...	5 row(s) returned	0.000 sec / 0.000 sec
18	21:09:34	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.094 sec / 0.015 sec
19	21:10:18	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:10 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp owe Triggers views SQL File 17\* subqueries Library Management System\* X

```

134   FROM Customer C
135   WHERE Reg_date < '2022-01-01'
136   AND NOT EXISTS (
137     SELECT 1
138     FROM IssueStatus I
139     WHERE I.Issued_cust = C.Customer_Id
140   );
  
```

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

Customer_name
---------------

Administration Schemas

Customer 6 x

No object selected

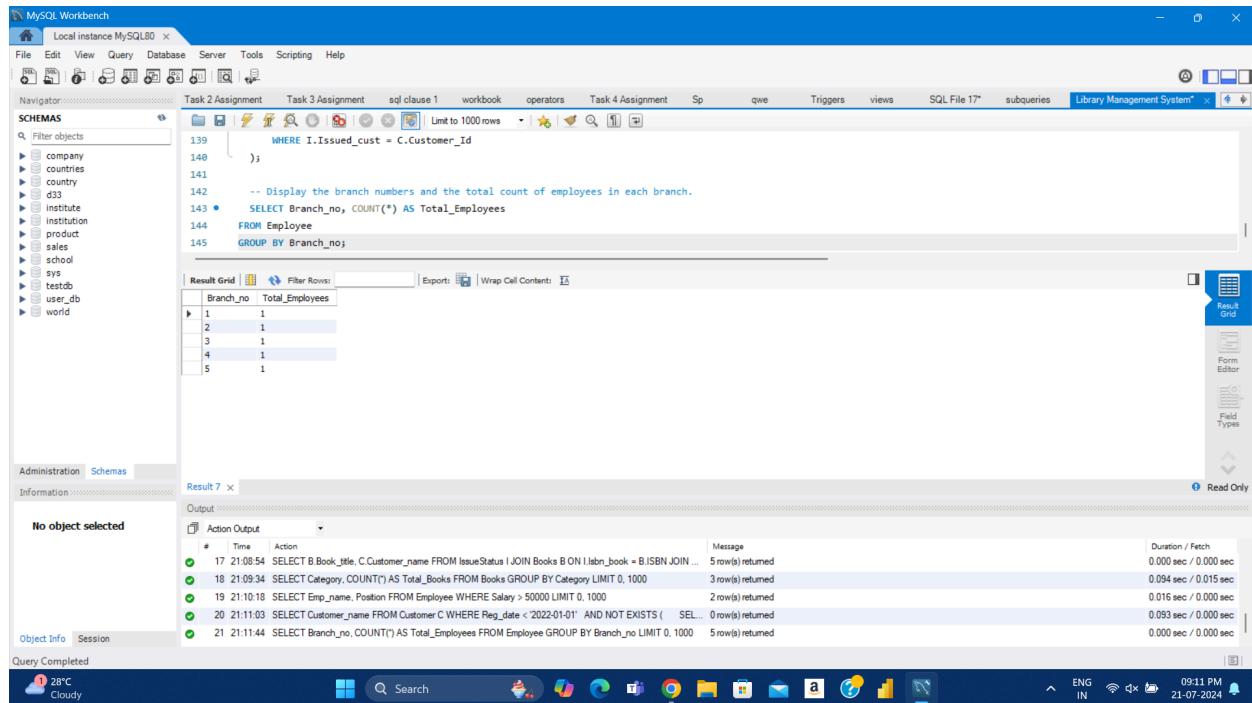
Action Output

#	Time	Action	Message	Duration / Fetch
16	21:08:01	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
17	21:08:54	SELECT B.Book_title, C.Customer_name FROM IssueStatus I JOIN Books B ON I.Issue_book = B.ISBN JOIN ...	5 row(s) returned	0.000 sec / 0.000 sec
18	21:09:34	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.094 sec / 0.015 sec
19	21:10:18	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec
20	21:11:03	SELECT Customer_name FROM Customer C WHERE Reg_date < '2022-01-01' AND NOT EXISTS ( SEL...	0 row(s) returned	0.093 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:11 PM 21-07-2024



MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\* X

145 GROUP BY Branch\_no;

146  
147 -- Display the names of customers who have issued books in the month of June 2023.

148 • SELECT DISTINCT C.Customer\_name

149 FROM IssueStatus I

150 JOIN Customer C ON I.Issued\_cust = C.Customer\_Id

151 WHERE I.Issue\_date BETWEEN '2023-06-01' AND '2023-06-30';

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

Customer\_name

John Doe  
Jane Smith  
Sam Brown  
Lisa White  
Tom Black

Result 8 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	21:09:34	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.094 sec / 0.015 sec
19	21:10:18	SELECT Emp_name, Position FROM Employees WHERE Salary > 50000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec
20	21:11:03	SELECT Customer_name FROM Customer C WHERE Reg_date < '2022-01-01' AND NOT EXISTS ( SEL.	0 row(s) returned	0.093 sec / 0.000 sec
21	21:11:44	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
22	21:12:20	SELECT DISTINCT C.Customer_name FROM IssueStatus I JOIN Customer C ON I.Issued_cust = C.Customer_	5 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:12 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\* X

150 JOIN Customer C ON I.Issued\_cust = C.Customer\_Id

151 WHERE I.Issue\_date BETWEEN '2023-06-01' AND '2023-06-30';

152  
153 -- Retrieve book\_title from book table containing history.

154 • SELECT Book\_title

155 FROM Books

156 WHERE Book\_title LIKE '%history%';

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

Book\_title

A Brief History of Time

Books 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	21:10:18	SELECT Emp_name, Position FROM Employees WHERE Salary > 50000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec
20	21:11:03	SELECT Customer_name FROM Customer C WHERE Reg_date < '2022-01-01' AND NOT EXISTS ( SEL.	0 row(s) returned	0.093 sec / 0.000 sec
21	21:11:44	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
22	21:12:20	SELECT DISTINCT C.Customer_name FROM IssueStatus I JOIN Customer C ON I.Issued_cust = C.Customer_	5 row(s) returned	0.000 sec / 0.000 sec
23	21:12:57	SELECT Book_title FROM Books WHERE Book_title LIKE '%history%' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:13 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\* X

```

156 WHERE Book_title LIKE '%history%';
157
158 -- Retrieve the branch numbers along with the count of employees for branches having more than 5 employees.
159 • SELECT Branch_no, COUNT(*) AS Total_Employees
160 FROM Employee
161 GROUP BY Branch_no
162 HAVING COUNT(*) > 5;

```

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

Branch_no	Total_Employees

Result 10 X

Information: No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
20	21:11:03	SELECT Customer_name FROM Customer C WHERE Reg_date < '2022-01-01' AND NOT EXISTS ( SEL...	0 row(s) returned	0.053 sec / 0.000 sec
21	21:11:44	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
22	21:12:20	SELECT DISTINCT C.Customer_name FROM IssueStatus I JOIN Customer C ON I.Issued_cust = C.Customer_...	5 row(s) returned	0.000 sec / 0.000 sec
23	21:12:57	SELECT Book_title FROM Books WHERE Book_title LIKE '%history%' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
24	21:13:36	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COU...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:13 PM 21-07-2024

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Task 2 Assignment Task 3 Assignment sql clause 1 workbook operators Task 4 Assignment Sp ope Triggers views SQL File 17\* subqueries Library Management System\* X

```

161 GROUP BY Branch_no
162 HAVING COUNT(*) > 5;
163
164 -- Retrieve the names of employees who manage branches and their respective branch addresses.
165 • SELECT E.Emp_name, B.Branch_address
166 FROM Employee E
167 JOIN Branch B ON E.Emp_Id = B.Manager_Id;

```

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

Emp_name	Branch_address
Alice Smith	123 Main St, CityA
Bob Johnson	456 Elm St, CityB
Charlie Lee	789 Oak St, CityC
Diana Clark	321 Pine St, CityD
Evan Martin	654 Maple St, CityE

Result 11 X

Information: No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
21	21:11:44	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
22	21:12:20	SELECT DISTINCT C.Customer_name FROM IssueStatus I JOIN Customer C ON I.Issued_cust = C.Customer_...	5 row(s) returned	0.000 sec / 0.000 sec
23	21:12:57	SELECT Book_title FROM Books WHERE Book_title LIKE '%history%' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
24	21:13:36	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COU...	0 row(s) returned	0.000 sec / 0.000 sec
25	21:14:19	SELECT E.Emp_name, B.Branch_address FROM Employee E JOIN Branch B ON E.Emp_Id = B.Manager_Id;	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

28°C Cloudy ENG IN 09:14 PM 21-07-2024

