

# Mysql Comprehensive Assessment

Topic : Library Management System

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

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

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

Attributes for the tables:

1. Branch

- Branch\_no
    - Set as PRIMARY KEY
    - Manager\_Id
    - Branch\_address
    - Contact\_no
2. Employee
- Emp\_Id – Set as PRIMARY KEY
  - Emp\_name
  - Position
  - Salary
  - Branch\_no
    - Set as FOREIGN KEY and it refer Branch\_no in Branch table

3. Books

- ISBN
  - Set as PRIMARY KEY
  - Book\_title

- Category
- Rental\_Price
- Status [Give yes if book available and no if book not available]
- Author
- Publisher

#### 4. Customer

- Customer\_Id
- Set as PRIMARY KEY
  - Customer\_name
  - Customer\_address
  - Reg\_date

#### 5. IssueStatus

- Issue\_Id
- Set as PRIMARY KEY
  - Issued\_cust – Set as FOREIGN KEY and it refer customer\_id in CUSTOMER table
  - Issued\_book\_name
  - Issue\_date
  - Isbn\_book – Set as FOREIGN KEY and it should refer isbn in BOOKS table

#### 6. ReturnStatus

- Return\_Id
- Set as PRIMARY KEY
  - Return\_cust
  - Return\_book\_name
  - Return\_date
  - Isbn\_book2
- Set as FOREIGN KEY and it should refer isbn in BOOKS table

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 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.

Score Distribution:

- 1 point for correctly formulating the query of each question ( $12 \times 1 = 12$ ).
- 1 point for providing screenshots of the output for each question ( $12 \times 1 = 12$ ).
- 1 point for timely submission.

Total = 25.

MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

- global\_store\_db
- new
- organisation
- product
- sales
- school
- Tables
- Views
- Stored Procedures
- Functions
- sys

Administration Schemas

No object selected

Object Info Session

```
1
2 • CREATE DATABASE library;
3
4
5 • USE library;
6
7
8 • CREATE TABLE Branch (
9     Branch_no INT PRIMARY KEY,
10    Manager_Id INT,
11    Branch_address VARCHAR(255),
12    Contact_no VARCHAR(15)
13 );
14
15
16 • CREATE TABLE Employee (
17     Emp_Id INT PRIMARY KEY,
18     Emp_name VARCHAR(100),
19     Position VARCHAR(50),
20     Salary DECIMAL(10, 2),
21     Branch_no INT,
22     FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)
23 );
24
25
26 • CREATE TABLE Books (
```

Output

11:14 PM 7/19/2024 ENG IN

MySQL Workbench

Local instance MySQL80 x

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Navigator

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Administration Schemas

No object selected

Object Info Session

```
25
26 • CREATE TABLE Books (
27     ISBN VARCHAR(13) PRIMARY KEY,
28     Book_title VARCHAR(255),
29     Category VARCHAR(100),
30     Rental_Price DECIMAL(10, 2),
31     Status VARCHAR(3),
32     Author VARCHAR(100),
33     Publisher VARCHAR(100)
34 );
35
36
37 • CREATE TABLE Customer (
38     Customer_Id INT PRIMARY KEY,
39     Customer_name VARCHAR(100),
40     Customer_address VARCHAR(255),
41     Reg_date DATE
42 );
43
44
45 • CREATE TABLE IssueStatus (
46     Issue_Id INT PRIMARY KEY,
47     Issued_cust INT,
48     Issued_book_name VARCHAR(255),
49     Issue_date DATE,
50     Isbn_book VARCHAR(13),
```

Output

11:14 PM 7/19/2024 ENG IN

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```
49 Issue_date DATE,
50 Isbn_book VARCHAR(13),
51 FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
52 FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
53 )
54
55
56 • CREATE TABLE ReturnStatus (
57     Return_Id INT PRIMARY KEY,
58     Return_cust INT,
59     Return_book_name VARCHAR(255),
60     Return_date DATE,
61     Isbn_book2 VARCHAR(13),
62     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
63     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
64 )
65 • SELECT Book_title, Category, Rental_Price
66 FROM Books
67 WHERE Status = 'yes'
68 • SELECT Emp_name, Salary
69 FROM Employee
70 ORDER BY Salary DESC;
71 • SELECT Books.Book_title, Customer.Customer_name
72 FROM IssueStatus
73 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
74 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
```

Administration Schemas

No object selected

Information

Object Info Session

Output

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```
73 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
74 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
75 • SELECT Category, COUNT(*) AS Total_Books
76 FROM Books
77 GROUP BY Category;
78 • SELECT Emp_name, Position
79 FROM Employee
80 WHERE Salary > 50000;
81 • SELECT Customer_name
82 FROM Customer
83 WHERE Reg_date < '2022-01-01'
84 AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
85 • SELECT Branch_no, COUNT(*) AS Total_Employees
86 FROM Employee
87 GROUP BY Branch_no;
88 • SELECT Customer.Customer_name
89 FROM IssueStatus
90 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
92 • SELECT Book_title
93 FROM Books
94 WHERE Book_title LIKE '%History%';
95 • SELECT Branch_no, COUNT(*) AS Total_Employees
96 FROM Employee
97 GROUP BY Branch_no
98 HAVING COUNT(*) > 5;
```

Administration Schemas

No object selected

Information

Object Info Session

Output

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```
82 FROM Customer
83 WHERE Reg_date < '2022-01-01'
84 AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
85 • SELECT Branch_no, COUNT(*) AS Total_Employees
86 FROM Employee
87 GROUP BY Branch_no;
88 • SELECT Customer.Customer_name
89 FROM IssueStatus
90 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
92 • SELECT Book_title
93 FROM Books
94 WHERE Book_title LIKE '%History%';
95 • SELECT Branch_no, COUNT(*) AS Total_Employees
96 FROM Employee
97 GROUP BY Branch_no
98 HAVING COUNT(*) > 5;
99 • SELECT Employee.Emp_name, Branch.Branch_address
100 FROM Branch
101 JOIN Employee ON Branch.Manager_Id = Employee.Emp_Id;
102 • SELECT DISTINCT Customer.Customer_name
103 FROM IssueStatus
104 JOIN Books ON IssueStatus.Issn_book = Books.ISBN
105 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
106 WHERE Books.Rental_Price > 25;
107
```

Administration Schemas

No object selected

Information

Object Info Session

Output

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82 FROM Customer  
83 WHERE Reg\_date < '2022-01-01'  
84 AND Customer\_Id NOT IN (SELECT Issued\_cust FROM IssueStatus);  
85 • SELECT Branch\_no, COUNT(\*) AS Total\_Employees

Output

Action	Time	Message	Duration / Fetch
CREATE DATABASE library	1 23:08:12	1 row(s) affected	0.000 sec
USE library	2 23:08:12	0 row(s) affected	0.000 sec
CREATE TABLE Branch ( Branch_no INT PRIMARY KEY, Manager_Id INT, Branch_address VARCHAR(100), Postcode VARCHAR(10), Phone VARCHAR(15) )	3 23:08:12	0 row(s) affected	0.031 sec
CREATE TABLE Employee ( Emp_Id INT PRIMARY KEY, Emp_name VARCHAR(100), Postion VARCHAR(50), Salary DECIMAL(10,2), Branch_no INT, Manager_Id INT )	4 23:08:12	0 row(s) affected	0.032 sec
CREATE TABLE Books ( ISBN VARCHAR(13) PRIMARY KEY, Book_title VARCHAR(255), Author_name VARCHAR(100), Price DECIMAL(10,2), Category VARCHAR(50) )	5 23:08:12	0 row(s) affected	0.031 sec
CREATE TABLE Customer ( Customer_Id INT PRIMARY KEY, Customer_name VARCHAR(100), Address VARCHAR(255), Phone VARCHAR(15), Email VARCHAR(100) )	6 23:08:12	0 row(s) affected	0.019 sec
CREATE TABLE IssueStatus ( Issue_Id INT PRIMARY KEY, Issued_cust INT, Issued_book INT, Return_cust INT, Return_book INT, Status VARCHAR(50) )	7 23:08:12	0 row(s) affected	0.047 sec
CREATE TABLE ReturnStatus ( Return_Id INT PRIMARY KEY, Return_cust INT, Return_book INT, Status VARCHAR(50) )	8 23:08:12	0 row(s) affected	0.016 sec
SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	9 23:08:13	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 23:09:03	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Issued_book = Books.Book_id JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_id	11 23:09:29	0 row(s) returned	0.016 sec / 0.000 sec
SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	12 23:09:53	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Emp_name, Postion FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	13 23:10:19	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);	14 23:10:46	0 row(s) returned	0.016 sec / 0.000 sec
SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	15 23:11:29	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_id	16 23:11:29	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Book_title FROM Books WHERE Book_title LIKE '%History%' LIMIT 0, 1000	17 23:11:51	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 10	18 23:12:16	0 row(s) returned	0.016 sec / 0.000 sec
SELECT Employee.Emp_name, Branch.Branch_address FROM Branch JOIN Employee ON Branch.Branch_no = Employee.Branch_no	19 23:12:40	0 row(s) returned	0.016 sec / 0.000 sec
SELECT DISTINCT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Issued_book = Books.Book_id	20 23:13:01	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 23:09:03	0 row(s) returned	0.000 sec / 0.000 sec
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SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	12 23:09:53	0 row(s) returned	0.000 sec / 0.000 sec
SELECT Emp_name, Postion FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	13 23:10:19	0 row(s) returned	0.000 sec / 0.000 sec
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SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 10	18 23:12:16	0 row(s) returned	0.016 sec / 0.000 sec
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SELECT DISTINCT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Issued_book = Books.Book_id	20 23:13:01	0 row(s) returned	0.000 sec / 0.000 sec

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82 FROM Customer  
83 WHERE Reg\_date < '2022-01-01'  
84 AND Customer\_Id NOT IN (SELECT Issued\_cust FROM IssueStatus);  
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SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);	14 23:10:46	0 row(s) returned	0.016 sec / 0.000 sec
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SELECT Book_title FROM Books WHERE Book_title LIKE '%History%' LIMIT 0, 1000	17 23:11:51	0 row(s) returned	0.000 sec / 0.000 sec
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SELECT Employee.Emp_name, Branch.Branch_address FROM Branch JOIN Employee ON Branch.Branch_no = Employee.Branch_no	19 23:12:40	0 row(s) returned	0.016 sec / 0.000 sec
SELECT DISTINCT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Issued_book = Books.Book_id	20 23:13:01	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Local instance MySQL80 x

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Navigator: SCHEMAS

SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

55
56 • CREATE TABLE ReturnStatus (
57     Return_Id INT PRIMARY KEY,
58     Return_cust INT,
59     Return_book_name VARCHAR(255),
60     Return_date DATE,
61     Isbn_book2 VARCHAR(13),
62     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
63     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
64 )
65 • SELECT Book_title, Category, Rental_Price
66 FROM Books
67 WHERE Status = 'yes';

```

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

Book\_title Category Rental\_Price

Administration Schemas

No object selected

Books 1 x

Output:

Action Output

Time	Action	Message	Duration / Fetch
7 23:08:12	CREATE TABLE issueStatus ( Issue_Id INT PRIMARY KEY, Issued_cust INT, Issued_book INT, Issued_date DATE, Isbn_book2 VARCHAR(13), FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id), FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN) )	0 row(s) affected	0.047 sec
8 23:08:13	CREATE TABLE ReturnStatus ( Return_Id INT PRIMARY KEY, Return_cust INT, Return_book_name VARCHAR(255), Return_date DATE, Isbn_book2 VARCHAR(13), FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id), FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN) )	0 row(s) affected	0.016 sec
9 23:08:40	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Navigator: SCHEMAS

SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

58
59     Return_cust INT,
60     Re Execute the statement under the keyboard cursor
61     Return_date DATE,
62     Isbn_book2 VARCHAR(13),
63     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
64     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
65 )
66 • SELECT Book_title, Category, Rental_Price
67 FROM Books
68 WHERE Status = 'yes';
69 • SELECT Emp_name, Salary
70 FROM Employee
71 ORDER BY Salary DESC;

```

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

Emp\_name Salary

Administration Schemas

No object selected

Employee 2 x

Output:

Action Output

Time	Action	Message	Duration / Fetch
8 23:08:13	CREATE TABLE ReturnStatus ( Return_Id INT PRIMARY KEY, Return_cust INT, Return_book_name VARCHAR(255), Return_date DATE, Isbn_book2 VARCHAR(13), FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id), FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN) )	0 row(s) affected	0.016 sec
9 23:08:40	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
10 23:09:03	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

62 FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
63 FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
64 )
65 • SELECT Book_title, Category, Rental_Price
66 FROM Books
67 WHERE Status = 'yes';
68 • SELECT Emp_name, Salary
69 FROM Employee
70 ORDER BY Salary DESC;
71 • SELECT Books.Book_title, Customer.Customer_name
72 FROM IssueStatus
73 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
74 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: | Book\_title | Customer\_name | Result Grid | Read Only

No object selected

Result 3 x

Output:

Action	Time	Action	Message	Duration / Fetch
9	23:08:40	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
10	23:09:03	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
11	23:09:29	SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStat... JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;	0 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

65 • SELECT Book_title, Category, Rental_Price
66 FROM Books
67 WHERE Status = 'yes';
68 • SELECT Emp_name, Salary
69 FROM Employee
70 ORDER BY Salary DESC;
71 • SELECT Books.Book_title, Customer.Customer_name
72 FROM IssueStatus
73 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
74 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
75 • SELECT Category, COUNT(*) AS Total_Books
76 FROM Books
77 GROUP BY Category;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: | Category | Total\_Books | Result Grid | Read Only

No object selected

Result 4 x

Output:

Action	Time	Action	Message	Duration / Fetch
10	23:09:03	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
11	23:09:29	SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStat... JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;	0 row(s) returned	0.016 sec / 0.000 sec
12	23:09:53	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

68 • SELECT Emp_name, Salary
69   FROM Employee
70   ORDER BY Salary DESC;
71 • SELECT Books.Book_title, Customer.Customer_name
72   FROM IssueStatus
73   JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
74   JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
75 • SELECT Category, COUNT(*) AS Total_Books
76   FROM Books
77   GROUP BY Category;
78 • SELECT Emp_name, Position
79   FROM Employee
80   WHERE Salary > 50000;

```

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

Emp\_name Position

Administration Schemas

No object selected

Employee 5 x

Output

Action Output

Time	Action	Message	Duration / Fetch
11 23:09:29	SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStat...	0 row(s) returned	0.016 sec / 0.000 sec
12 23:09:53	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13 23:10:19	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

72   FROM IssueStatus
73   JOIN | Execute the statement under the keyboard cursor | ISBN
74   JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
75 • SELECT Category, COUNT(*) AS Total_Books
76   FROM Books
77   GROUP BY Category;
78 • SELECT Emp_name, Position
79   FROM Employee
80   WHERE Salary > 50000;
81 • SELECT Customer_name
82   FROM Customer
83   WHERE Reg_date < '2022-01-01'
84   AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);

```

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

Customer\_name

Administration Schemas

No object selected

Customer 5 x

Output

Action Output

Time	Action	Message	Duration / Fetch
12 23:09:53	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13 23:10:19	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14 23:10:46	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NO...	0 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```

75 • SELECT Category, COUNT(*) AS Total_Books
76   FROM E Execute the statement under the keyboard cursor
77   GROUP BY Category;
78 • SELECT Emp_name, Position
79   FROM Employee
80   WHERE Salary > 50000;
81 • SELECT Customer_name
82   FROM Customer
83   WHERE Reg_date < '2022-01-01'
84   AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
85 • SELECT Branch_no, COUNT(*) AS Total_Employees
86   FROM Employee
87   GROUP BY Branch_no;

```

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

Branch_no	Total_Employees

Administration Schemas

No object selected

Result 7 x

Output

Action Output

Time	Action	Message	Duration / Fetch
13 23:10:19	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14 23:10:46	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NO... 0 row(s) returned	0.016 sec / 0.000 sec	
15 23:11:10	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000 0 row(s) returned	0.000 sec / 0.000 sec	

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```

79   FROM FmIssue
80   Execute the statement under the keyboard cursor
81 • SELECT Customer_name
82   FROM Customer
83   WHERE Reg_date < '2022-01-01'
84   AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
85 • SELECT Branch_no, COUNT(*) AS Total_Employees
86   FROM Employee
87   GROUP BY Branch_no;
88 • SELECT Customer.Customer_name
89   FROM IssueStatus
90   JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91   WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';

```

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

Customer_name

Administration Schemas

No object selected

Result 8 x

Output

Action Output

Time	Action	Message	Duration / Fetch
14 23:10:46	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NO... 0 row(s) returned	0.016 sec / 0.000 sec	
15 23:11:10	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000 0 row(s) returned	0.000 sec / 0.000 sec	
16 23:11:29	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust ... 0 row(s) returned	0.000 sec / 0.000 sec	

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\*

```

82 FROM Customer
83 WHERE Reg_date < '2022-01-01'
84 AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
85 • SELECT Branch_no, COUNT(*) AS Total_Employees
86 FROM Employee
87 GROUP BY Branch_no;
88 • SELECT Customer.Customer_name
89 FROM IssueStatus
90 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
92 • SELECT Book_title
93 FROM Books
94 WHERE Book_title LIKE '%history%';

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Book\_title

Administration Schemas

Information

No object selected

Books 9 x

Output

Action Output

Time	Action	Message	Duration / Fetch
15 23:11:10	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0,1000	0 row(s) returned	0.000 sec / 0.000 sec
16 23:11:29	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';	0 row(s) returned	0.000 sec / 0.000 sec
17 23:11:51	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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```

86 FROM Employee
87 GROUP BY Execute the statement under the keyboard cursor
88 • SELECT Customer.Customer_name
89 FROM IssueStatus
90 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
92 • SELECT Book_title
93 FROM Books
94 WHERE Book_title LIKE '%history%';
95 • SELECT Branch_no, COUNT(*) AS Total_Employees
96 FROM Employee
97 GROUP BY Branch_no
98 HAVING COUNT(*) > 5;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Branch\_no Total\_Employees

Administration Schemas

Information

No object selected

Result 10 x

Output

Action Output

Time	Action	Message	Duration / Fetch
16 23:11:29	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';	0 row(s) returned	0.000 sec / 0.000 sec
17 23:11:51	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
18 23:12:16	SELECT Branch_no,COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5;	0 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQL File 2\* SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* x

```

89 FROM IssueStatus
90 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
91 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
92 • SELECT Book_title
93 FROM Books
94 WHERE Book_title LIKE '%history%';
95 • SELECT Branch_no, COUNT(*) AS Total_Employees
96 FROM Employee
97 GROUP BY Branch_no
98 HAVING COUNT(*) > 5;
99 • SELECT Employee.Emp_name, Branch.Branch_address
100 FROM Branch
101 JOIN Employee ON Branch.Manager_Id = Employee.Emp_Id;

```

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

Emp\_name Branch\_address

Administration Schemas

No object selected

Result 11 x

Output:

Action Output

Time	Action	Message	Duration / Fetch
17 23:12:51	SELECT Book_title FROM Books WHERE Book_title LIKE '%history%' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
18 23:12:16	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5;	0 row(s) returned	0.016 sec / 0.000 sec
19 23:12:40	SELECT Employee.Emp_name, Branch.Branch_address FROM Branch JOIN Employee ON Branch.Manager_Id = Employee.Emp_Id;	0 row(s) returned	0.016 sec / 0.000 sec

Result Grid

Object Info Session

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```

94 WHERE Book_title LIKE '%history%';
95 • SELECT Branch_no, COUNT(*) AS Total_Employees
96 FROM Employee
97 GROUP BY Branch_no
98 HAVING COUNT(*) > 5;
99 • SELECT Employee.Emp_name, Branch.Branch_address
100 FROM Branch
101 JOIN Employee ON Branch.Manager_Id = Employee.Emp_Id;
102 • SELECT DISTINCT Customer.Customer_name
103 FROM IssueStatus
104 JOIN Books ON IssueStatus.Issn_book = Books.ISBN
105 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id
106 WHERE Books.Rental_Price > 25;

```

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

Customer\_name

Administration Schemas

No object selected

Result 12 x

Output:

Action Output

Time	Action	Message	Duration / Fetch
18 23:12:16	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5;	0 row(s) returned	0.016 sec / 0.000 sec
19 23:12:40	SELECT Employee.Emp_name, Branch.Branch_address FROM Branch JOIN Employee ON Branch.Manager_Id = Employee.Emp_Id;	0 row(s) returned	0.016 sec / 0.000 sec
20 23:13:01	SELECT DISTINCT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Issn_book = Books.ISBN JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id WHERE Books.Rental_Price > 25;	0 row(s) returned	0.000 sec / 0.000 sec

Result Grid

Object Info Session