

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.

MySQL Workbench

Local instance MySQL8.0 x

File Edit View Query Database Server Tools Scripting Help

Navigator Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

Limit to 1000 rows

```

1 # creation of database
2 • create database library;
3
4 # show all databases created
5 • show databases;
6
7 # choosing database inorder to do
8 • use library;

```

Result Grid Filter Rows Export Wrap Cell Content

Database

- global_store_db
- information_schema
- library
- mysql
- organisation
- performance_schema
- product
- sales
- school
- sys
- testdb
- world

No object selected

Result 1 x

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:18:16	create database library	1 row(s) affected	0.000 sec
2	16:18:20	show databases	12 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL8.0 x

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Navigator Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

Limit to 1000 rows

```

18 # creation of table Branch
19 • create table Branch(
20     Branch_no int primary key,
21     Manager_id int,
22     Branch_address varchar(100),
23     Contact_no int);
24
25 # adding values to table branch
26 • INSERT INTO Branch (Branch_no, Manager_id, Branch_address, Contact_no)
27 VALUES
28     (1, 110, '789 Oak Lane', 5557890),
29     (2, 111, '567 Maple Street', 5554321),
30     (3, 112, '987 Pine Avenue', 5559876),
31     (4, 113, '321 Cedar Road', 5552468),
32     (5, 114, '654 Birch Lane', 5551357),
33     (6, 115, '876 Willow Avenue', 5558642),
34     (7, 116, '234 Elm Street', 5557531),
35     (8, 117, '543 Oak Avenue', 5554680),
36     (9, 118, '765 Maple Lane', 5551593),
37     (10, 119, '123 Pine Road', 5558246);

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:18:16	create database library	1 row(s) affected	0.000 sec
2	16:18:20	show databases	12 row(s) returned	0.000 sec / 0.000 sec
3	16:19:54	use library	0 row(s) affected	0.000 sec
4	16:19:58	create table Branch Branch_no int primary key, Manager_id int, Branch_address varchar(100), Contact_no int;	0 row(s) affected	0.031 sec
5	16:20:05	INSERT INTO Branch (Branch_no, Manager_id, Branch_address, Contact_no) VALUES (1, 110, '789 Oak La...', 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0)		0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive X

SCHEMAS

global_store_db organisation product sales school sys testdb world

Limit to 1000 rows

```

26     (7, 116, '234 Elm Street', 5557531),
27     (8, 117, '543 Oak Avenue', 5554680),
28     (9, 118, '765 Maple Lane', 5551593),
29     (10, 119, '123 Pine Road', 5550246);
30
31     # displays table branch
32 • select * from Branch;
33

```

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

Branch_no	Manager_id	Branch_address	Contact_no
1	110	789 Oak Lane	5557890
2	111	567 Maple Street	5554321
3	112	987 Pine Avenue	5559876
4	113	321 Cedar Road	5552468
5	114	654 Birch Lane	5551357
6	115	875 Willow Avenue	5558642
7	116	234 Elm Street	5557531
8	117	543 Oak Avenue	5554680
9	118	765 Maple Lane	5551593
10	119	123 Pine Road	5550246
NULL	NULL	NULL	NULL

Administration Schemas Information

No object selected

Branch 2 X

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
4	21:13:39	create table Branch Branch_no int primary key, Manager_id int, Branch_address varchar(100), Contact_no int	0 row(s) affected	0.047 sec
5	21:13:44	INSERT INTO Branch (Branch_no, Manager_id, Branch_address, Contact_no) VALUES (1, 110, '789 Oak ... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
6	21:13:47	select * from Branch LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive X

SCHEMAS

global_store_db organisation product sales school sys testdb world

Limit to 1000 rows

```

34     # creation of table employee
35 • create table Employee(
36     Emp_id int primary key,
37     Emp_name varchar(50),
38     Position varchar(20),
39     Salary int,
40     Branch_no int,
41     foreign key(Branch_no) references Branch(Branch_no) on delete cascade);
42
43     # adding values to table employee
44 • INSERT INTO Employee (Emp_id, Emp_name, Position, Salary, Branch_no)
45     VALUES
46     (1001, 'Han Doe', 'Manager', 80000, 1),
47     (1002, 'Jan Mony', 'Assistant Manager', 60000, 2),
48     (1003, 'Alia Bhatt', 'Clerk', 40000, 1),
49     (1004, 'Chrstn Brown', 'Manager', 70000, 4),
50     (1005, 'Emo Sama', 'Cleaning', 30000, 1),
51     (1006, 'Brett Lee', 'Librarian', 40000, 1),
52     (1007, 'Green Chan', 'Assistant Manager', 65000, 7),
53     (1008, 'Michael Alex', 'Clerk', 40000, 2),
54     (1009, 'Sony Mathews', 'Clerk', 40000, 1),
55     (1010, 'Kali Das', 'Clerk', 40000, 1);
56

```

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

Branch_no	Manager_id	Branch_address	Contact_no
1	110	789 Oak Lane	5557890
2	111	567 Maple Street	5554321
3	112	987 Pine Avenue	5559876
4	113	321 Cedar Road	5552468
5	114	654 Birch Lane	5551357
6	115	875 Willow Avenue	5558642
7	116	234 Elm Street	5557531
8	117	543 Oak Avenue	5554680
9	118	765 Maple Lane	5551593
10	119	123 Pine Road	5550246
NULL	NULL	NULL	NULL

Administration Schemas Information

No object selected

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
6	21:13:47	select * from Branch LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
7	21:15:02	create table Employee Emp_id int primary key, Emp_name varchar(50), Position varchar(20), Salary int, Branch_no int	0 row(s) affected	0.016 sec
8	21:15:07	INSERT INTO Employee (Emp_id, Emp_name, Position, Salary, Branch_no) VALUES (1001, 'Han Doe', 'Ma... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	Records: 10 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 X

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Navigator: Schemas Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

- global_store_db
- organisation
- product
- sales
- school
- sys
- testdb
- world

Limit to 1000 rows

```

51      (1006, 'Brett Lee', 'Librarian', 40000, 1),
52      (1007, 'Green Chan', 'Assistant Manager', 65000, 7),
53      (1008, 'Michael Alex', 'Clerk', 40000, 2),
54      (1009, 'Sony Mathews', 'Clerk', 40000, 1),
55      (1010, 'Kali Das', 'Clerk', 40000, 1);
56
57  # displays table employee
58 • select * from Employee;

```

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

Emp_Id	Emp_name	Position	Salary	Branch_no
1001	Han Doe	Manager	80000	1
1002	Jan Manly	Assistant Manager	60000	2
1003	Alla Bhatt	Clerk	40000	1
1004	Christ Brown	Manager	70000	4
1005	Emu Sana	Cleaning	30000	1
1006	Brett Lee	Librarian	40000	1
1007	Green Chan	Assistant Manager	65000	7
1008	Michael Alex	Clerk	40000	2
1009	Sony Mathews	Clerk	40000	1
1010	Kali Das	Clerk	40000	1
NULL	NULL	NULL	NULL	NULL

Administration Schemas Information

No object selected

Employee3 X

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	21:15:02	create table Employee(Emp_Id int primary key, Emp_name varchar(50), Position varchar(20), Salary int, Branch_no int)	0 row(s) affected	0.016 sec
8	21:15:07	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (1001, 'Han Doe', 'Manager', 80000, 1)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
9	21:16:05	select * from Employee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 X

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Navigator: Schemas Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

- global_store_db
- organisation
- product
- sales
- school
- sys
- testdb
- world

Limit to 1000 rows

```

60  # creation of table Books
61 • create table Books(
62      ISBN int primary key,
63      Book_title varchar(50),
64      Category varchar(25),
65      Rental_price int,
66      Status varchar(20),
67      Author varchar(25),
68      Publisher varchar(25));
69
70  # adding values to table Books
71 • INSERT INTO Books (ISBN, Book_title, Category, Rental_price, Status, Author, Publisher)
72     VALUES
73      ('97812345', 'The Great Adventure', 'Adventure', 25, 'Available', 'John Smith', 'ABC Publishers'),
74      ('97888765', 'Mystery Mansion', 'Mystery', 10, 'Reserved', 'Jane Doe', 'XYZ Books'),
75      ('97824680', 'Lost Treasure', 'Adventure', 15, 'Available', 'Alice Johnson', 'PQR Press'),
76      ('97813579', 'Secret Code', 'Mystery', 20, 'Reserved', 'Robert Brown', 'LMN Publications'),
77      ('97886420', 'Enigma Island', 'Adventure', 10, 'Available', 'Emily White', 'DF Books'),
78      ('97897531', 'Whodunit Chronicles', 'History', 27, 'Reserved', 'David Lee', 'GHI Publishers'),
79      ('97875389', 'Quest for Atlantis', 'History', 33, 'Available', 'Olivia Green', 'JKL Press'),
80      ('97846882', 'Cryptic Clues', 'Mystery', 20, 'Reserved', 'Michael Adams', 'STU Books'),
81      ('97815937', 'Hidden Passage', 'Adventure', 31, 'Available', 'Sophia Martinez', 'VWX Publishers'),
82      ('97802468', 'Puzzle Manor', 'Mystery', 33, 'Reserved', 'William Turner', 'YZA Books');
83

```

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

ISBN	Book_title	Category	Rental_price	Status	Author	Publisher
97812345	The Great Adventure	Adventure	25	Available	John Smith	ABC Publishers
97888765	Mystery Mansion	Mystery	10	Reserved	Jane Doe	XYZ Books
97824680	Lost Treasure	Adventure	15	Available	Alice Johnson	PQR Press
97813579	Secret Code	Mystery	20	Reserved	Robert Brown	LMN Publications
97886420	Enigma Island	Adventure	10	Available	Emily White	DF Books
97897531	Whodunit Chronicles	History	27	Reserved	David Lee	GHI Publishers
97875389	Quest for Atlantis	History	33	Available	Olivia Green	JKL Press
97846882	Cryptic Clues	Mystery	20	Reserved	Michael Adams	STU Books
97815937	Hidden Passage	Adventure	31	Available	Sophia Martinez	VWX Publishers
97802468	Puzzle Manor	Mystery	33	Reserved	William Turner	YZA Books

Administration Schemas Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	21:16:05	select * from Employee LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
10	21:17:06	create table Books(ISBN int primary key, Book_title varchar(50), Category varchar(25), Rental_price int, Status varchar(20), Author varchar(25), Publisher varchar(25))	0 row(s) affected	0.016 sec
11	21:17:11	INSERT INTO Books (ISBN, Book_title, Category, Rental_price, Status, Author, Publisher) VALUES ('97812345', 'The Great Adventure', 'Adventure', 25, 'Available', 'John Smith', 'ABC Publishers')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

global_store_db organisation product sales school sys testdb world

No object selected

Administration Schemas Information

```

79      (97875389, 'Quest for Atlantis', 'History', 33, 'Available', 'Olivia Green', 'JKL Press'),
80      (97846802, 'Cryptic Clues', 'Mystery', 20, 'Reserved', 'Michael Adams', 'STU Books'),
81      (97815937, 'Hidden Passage', 'Adventure', 31, 'Available', 'Sophia Martinez', 'VWX Publishers'),
82      (97802468, 'Puzzle Manor', 'Mystery', 33, 'Reserved', 'William Turner', 'YZA Books');

83
84  # displays table Books
85 • select * from Books;
86

```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

ISBN	Book_title	Category	Rental_price	Status	Author	Publisher
97802468	Puzzle Manor	Mystery	33	Reserved	William Turner	YZA Books
97812345	The Great Adventure	Adventure	25	Available	Joh John Smith	ABC Publishers
97813579	Secret Code	Mystery	29	Reserved	Robert Brown	VMN Publications
97815937	Hidden Passage	Adventure	31	Available	Sophia Martinez	VWX Publishers
97824680	Lost Treasure	Adventure	15	Available	Alice Johnson	PQR Press
97846802	Cryptic Clues	Mystery	20	Reserved	Michael Adams	STU Books
97875309	Quest for Atlants	History	33	Available	Olivia Green	JKL Press
97886420	Enigma Island	Adventure	11	Available	Emily White	DEF Books
97897531	Whodunit Chronicles	History	27	Reserved	David Lee	GHI Publishers
97898765	Mystery Mansion	Mystery	10	Reserved	Jane Doe	XYZ Books
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Books 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	21:17:05	create table Books (ISBN int primary key, Book_title varchar(50), Category varchar(25), Rental_price int, Status... 0 rows) affected	0 rows affected	0.016 sec
11	21:17:11	INSERT INTO Books (ISBN, Book_title, Category, Rental_price, Status, Author, Publisher) VALUES (97812345, 'The Great Adventure', 'Adventure', 25, 'Available', 'Joh John Smith', 'ABC Publishers')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
12	21:17:59	select * from Books LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

global_store_db organisation product sales school sys testdb world

No object selected

Administration Schemas Information

```

85 • select * from Books;
86
87  # creation of table Customer
88 • create table Customer(
89     Customer_id int primary key,
90     Customer_name varchar(50),
91     Customer_address varchar(100),
92     Reg_date date);
93
94  # adding values to table Customer
95 • INSERT INTO Customer (Customer_id, Customer_name, Customer_address, Reg_date)
96     VALUES
97     (1, 'Alice Johnson', '123 Main St', '2021-05-11'),
98     (2, 'Bob Smith', '456 Elm Ave', '2024-05-12'),
99     (3, 'Charlie Brown', '789 Oak Ln', '2020-05-13'),
100    (4, 'David Lee', '321 Cedar Rd', '2021-05-14'),
101    (5, 'Emily White', '987 Pine Ave', '2023-05-15'),
102    (6, 'Frank Miller', '654 Birch Ln', '2023-05-16'),
103    (7, 'Grace Adams', '876 Willow Ave', '2019-05-17'),
104    (8, 'Hannah Taylor', '234 Elm St', '2023-05-18'),
105    (9, 'Isaac Green', '543 Oak Ave', '2022-05-19'),
106    (10, 'Julie Martinez', '765 Maple Ln', '2023-05-20');
107

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	21:17:59	select * from Books LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
13	21:18:56	create table Customer(Customer_id int primary key, Customer_name varchar(50), Customer_address varchar(100), Reg_date date);	0 rows affected	0.031 sec
14	21:19:02	INSERT INTO Customer (Customer_id, Customer_name, Customer_address, Reg_date) VALUES (1, 'Alice J...', 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec	

Object Info Session

MySQL Workbench

Local instance MySQL80 X

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Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive X

SCHEMAS

global_store_db organisation product sales school sys testdb world

182 (6, 'Frank Miller', '654 Birch Ln', '2023-05-16'),
183 (7, 'Grace Adams', '876 Willow Ave', '2019-05-17'),
184 (8, 'Hannah Taylor', '234 Elm St', '2023-05-18'),
185 (9, 'Isaac Green', '543 Oak Ave', '2022-05-19'),
186 (10, 'Julia Martinez', '765 Maple Ln', '2023-05-20');
187
188 # displays table Customer
189 • select * from Customer;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

Customer_id	Customer_name	Customer_address	Reg_date
1	Alice Johnson	123 Main St	2021-05-11
2	Bob Smith	456 Elm Ave	2024-05-12
3	Charlie Brown	789 Oak Ln	2020-05-13
4	David Lee	321 Cedar Rd	2021-05-14
5	Emily White	987 Pine Ave	2023-05-15
6	Frank Miller	654 Birch Ln	2023-05-16
7	Grace Adams	876 Willow Ave	2019-05-17
8	Hannah Taylor	234 Elm St	2023-05-18
9	Isaac Green	543 Oak Ave	2022-05-19
10	Julia Martinez	765 Maple Ln	2023-05-20
NULL	NULL	NULL	NULL

Customer 5 X

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
13	21:18:56	create table Customer Customer_id int primary key, Customer_name varchar(50), Customer_address varchar(50)	0 row(s) affected	0.031 sec
14	21:19:02	INSERT INTO Customer (Customer_id, Customer_name, Customer_address, Reg_date) VALUES (1, 'Alice J...', 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0		0.000 sec
15	21:19:49	select * from Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive X

SCHEMAS

global_store_db organisation product sales school sys testdb world

111 # creation of table IssueStatus
112 • create table IssueStatus(
113 Issue_id int primary key,
114 Issued_cust int,
115 foreign key(Issued_cust) references Customer(Customer_id) on delete cascade,
116 Issue_date date,
117 Isbn_book int,
118 foreign key(Isbn_book) references Books(ISBN) on delete cascade);
119
120 # adding values to table IssueStatus
121 • INSERT INTO IssueStatus (Issue_id, Issued_cust, Issue_date, Isbn_book)
122 VALUES
123 (1, 1, '2023-06-11', 97812345),
124 (2, 2, '2022-05-12', 97898765),
125 (3, 3, '2023-05-13', 97824680),
126 (4, 4, '2023-06-14', 97813579),
127 (5, 5, '2021-04-15', 97886420),
128 (6, 6, '2023-05-16', 978097531),
129 (7, 7, '2023-06-17', 97875389),
130 (8, 8, '2023-05-18', 978468802),
131 (9, 9, '2021-07-19', 97815937),
132 (10, 10, '2019-09-20', 97802468);
133

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
15	21:19:49	select * from Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
16	21:20:37	create table IssueStatus(Issue_id int primary key, Issued_cust int, foreign key(Issued_cust) references Customer(Customer_id) on delete cascade);	0 row(s) affected	0.031 sec
17	21:20:41	INSERT INTO IssueStatus (Issue_id, Issued_cust, Issue_date, Isbn_book) VALUES (1, 1, '2023-06-11', 97812345);	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

MySQL Workbench

Local instance MySQL8.0 x

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Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

- global_store_db
- organisation
- product
- sales
- school
- sys
- testdb
- world

Administration Schemas Information

No object selected

```

128     (6, 6, '2023-05-16', 97897531),
129     (7, 7, '2023-06-17', 97875309),
130     (8, 8, '2023-05-18', 97846802),
131     (9, 9, '2021-07-19', 97815937),
132     (10, 10, '2019-09-20', 97802468);
133
134 # displays table IssueStatus
135 • select * from IssueStatus; |

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Query Stats |

Issue_id	Issue_cust	Issue_date	isbn_book
1	1	2023-06-11	97812245
2	2	2022-05-12	97898765
3	3	2023-05-13	97824680
4	4	2023-06-14	97813579
5	5	2021-04-15	97886420
6	6	2023-05-16	97897531
7	7	2023-06-17	97875309
8	8	2023-05-18	97846802
9	9	2021-07-19	97815937
10	10	2019-09-20	97802468
•	NULL	NULL	NULL

IssueStatus 6 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
16	21:20:37	create table IssueStatus(Issue_id int primary key, Issued_cust int, foreign key(Issued_cust) references Cust...	0 row(s) affected	0.031 sec
17	21:20:41	INSERT INTO IssueStatus(Issue_id, Issued_cust, Issue_date, isbn_book) VALUES (1, 1, 2023-06-11, 978...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
18	21:21:21	select * from IssueStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL8.0 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive

SCHEMAS

- global_store_db
- organisation
- product
- sales
- school
- sys
- testdb
- world

Administration Schemas Information

No object selected

```

137 # creation of table ReturnStatus
138 • ② create Execute the statement under the keyboard cursor
139     Return_Id int primary key,
140     Return_cust varchar(50),
141     Return_book_name varchar(50),
142     Return_date date,
143     Isbn_book2 int,
144     foreign key(Isbn_book2) references Books(ISBN) on delete cascade;
145
146 # Adding values to table ReturnStatus
147 • INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Isbn_book2)
148     VALUES
149     (1, 'Alice Johnson', 'The Great Adventure', '2023-05-11', 97812345),
150     (2, 'Bob Smith', 'Mystery Mansion', '2023-05-12', 97898765),
151     (3, 'Charlie Brown', 'Lost Treasure', '2023-05-13', 97824680),
152     (4, 'David Lee', 'Secret Code', '2023-05-14', 97813579),
153     (5, 'Emily White', 'Enigma Island', '2023-05-15', 97886420),
154     (6, 'Frank Miller', 'Whodunit Chronicles', '2023-05-16', 97897531),
155     (7, 'Grace Adams', 'Quest for Atlantis', '2023-05-17', 97875309),
156     (8, 'Hannah Taylor', 'Cryptic Clues', '2023-05-18', 97846802),
157     (9, 'Isaac Green', 'Hidden Passage', '2023-05-19', 97815937),
158     (10, 'Julia Martinez', 'Puzzle Manor', '2023-05-20', 97802468);
159

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	21:21:21	select * from IssueStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
19	21:22:18	create table ReturnStatus(Return_Id int primary key, Return_cust varchar(50), Return_book_name varchar(50), Return_date date, Isbn_book2 int) VALUE...	0 row(s) affected	0.015 sec
20	21:22:21	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Isbn_book2) VALUE...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Administration Information No object selected Object Info Session

```

154     (6, 'Frank Miller', 'Whodunit Chronicles', '2023-05-16', 97897531),
155     (7, 'Grace Adams', 'Quest for Atlantis', '2023-05-17', 97875309),
156     (8, 'Hannah Taylor', 'Cryptic Clues', '2023-05-18', 97846802),
157     (9, 'Isaac Green', 'Hidden Passage', '2023-05-19', 97815937),
158     (10, 'Julia Martinez', 'Puzzle Manor', '2023-05-20', 97802468),
159
160 # displays table ReturnStatus
161 • select * from ReturnStatus;

```

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

Return_Id	Return_cust	Return_book_name	Return_date	Ibn_book2
1	Alice Johnson	The Great Adventure	2023-05-11	97812345
2	Bob Smith	Mystery Mansion	2023-05-12	97898765
3	Charlie Brown	Lost Treasure	2023-05-13	97824680
4	David Lee	Secret Code	2023-05-14	97813579
5	Emily White	Enigma Island	2023-05-15	97886420
6	Frank Miller	Whodunit Chronicle	2023-05-16	97897531
7	Grace Adams	Quest for Atlantis	2023-05-17	97875309
8	Hannah Taylor	Cryptic Clues	2023-05-18	97846802
9	Isaac Green	Hidden Passage	2023-05-19	97815937
10	Julia Martinez	Puzzle Manor	2023-05-20	97802468
• NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	21:22:18	create table ReturnStatus (Return_Id int primary key, Return_cust varchar(50), Return_book_name varchar(50), Return_date date, Ibn_book2 varchar(10))	0 rows(a)ffected	0.015 sec
20	21:22:21	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Ibn_book2) VALUES (1, 'Alice Johnson', 'The Great Adventure', '2023-05-11', '97812345')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
21	21:23:00	select * from ReturnStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Administration Information No object selected Object Info Session

```

162
163
164 -- 1. Retrieve the book title, category, and rental price of all available books
165 • SELECT
166   Book_title,
167   Category,
168   Rental_Price
169   FROM
170   Books
171   WHERE
172     Status = 'Available';
173

```

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

Book_title	Category	Rental_Price
The Great Adventure	Adventure	25
Hidden Passage	Adventure	31
Lost Treasure	Adventure	15
Quest for Atlantis	History	33
Enigma Island	Adventure	11

Output

Action Output

#	Time	Action	Message	Duration / Fetch
21	21:23:00	select * from ReturnStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
22	21:48:45	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Available' LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	21:50:18	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Available' LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive x

Limit to 1000 rows

```

171 WHERE
172   Status = 'Available';
173
174 -- 2. List the employee names and their respective salaries in descending order of salary
175 • SELECT
176   Emp_name,
177   Salary
178 FROM
179   Employee
180 ORDER BY
181   Salary DESC;
182

```

Administration Schemas

Information No object selected

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

Emp_name	Salary
Green Chan	65000
Han Doe	80000
Christ Brown	70000
Jan Mony	60000
Alia Bhatt	40000
Brett Lee	40000
Michael Alex	40000
Sony Mathew	40000
Kali Das	40000
Emu Sama	30000

Employee 10 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	21:48:45	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Available' LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	21:50:18	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Available' LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	21:51:38	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive x

Limit to 1000 rows

```

179 Employee
180 ORDER BY
181 Salary DESC;
182
183 -- 3. Retrieve the book titles and the corresponding customers who have issued those books
184 • SELECT
185   b.Book_title,
186   c.Customer_name
187   FROM
188   IssueStatus i
189   JOIN Books b ON i.Issue_Book = b.ISBN
190   JOIN Customer c ON i.Issued_cust = c.Customer_Id;

```

Administration Schemas

Information No object selected

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

Book_title	Customer_name
The Great Adventure	Alice Johnson
Mystery Mansion	Bob Smith
Lost Treasure	Charlie Brown
Secret Code	David Lee
Enigma Island	Emily White
Whodunit Chronicles	Frank Miller
Quest for Atlantis	Grace Adams
Cryptic Clues	Hannah Taylor
Hidden Passage	Isaac Green
Puzzle Manor	Julia Martinez

Result 11 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
23	21:50:18	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Available' LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	21:51:38	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
25	21:53:09	SELECT b.Book_title, c.Customer_name FROM IssueStatus i JOIN Books b ON i.Issue_Book = b.ISBN J...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive x

```

189     JOIN Books b ON i.Issue_Book = b.ISBN
190     JOIN Customer c ON i.Issued_Cust = c.Customer_Id;
191
192 -- 4. Display the total count of books in each category
193 • SELECT
194     Category,
195     COUNT(*) AS Total_Count
196     FROM
197     Books
198     GROUP BY
199     Category;
200

```

Administration Schemas

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

Category	Total_Count
Mystery	4
Adventure	4
History	2

No object selected

Result 12 x

Action Output

#	Time	Action	Message	Duration / Fetch
24	21:51:38	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
25	21:53:09	SELECT b.Book_Title, c.Customer_Name FROM Issue_Status i JOIN Books b ON i.Issue_Book = b.ISBN JOIN Customer c ON i.Issued_Cust = c.Customer_Id WHERE i.Issue_Status = 'Issued' AND b.ISBN IN (SELECT ISBN FROM Books WHERE Category = 'Mystery') AND c.Customer_Name LIKE 'A%'	10 row(s) returned	0.000 sec / 0.000 sec
26	21:54:44	SELECT Category, COUNT(*) AS Total_Count FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive x

```

198     GROUP BY
199     Category;
200
201 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000
202 • SELECT
203     Emp_name,
204     Position
205     FROM
206     Employee
207     WHERE
208     Salary > 50000;
209

```

Administration Schemas

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

Emp_name	Position
Han Doe	Manager
Jan Manu	Assistant Manager
Christ Brown	Manager
Green Chan	Assistant Manager

No object selected

Employee 14 x

Action Output

#	Time	Action	Message	Duration / Fetch
26	21:54:44	SELECT Category, COUNT(*) AS Total_Count FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
27	21:56:07	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
28	21:56:18	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS global_store_db library

Tables books branch customer employee issuestatus returnstatus

Views

Stored Procedures

Functions

organisation product sales

Administration Schemas

Information No object selected

```

210 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet
211 • SELECT
212     Customer_name
213     FROM
214     Customer
215     WHERE
216         Reg_date < '2022-01-01'
217     AND Customer_Id NOT IN (
218         SELECT
219             Issued_cust
220             FROM
221             IssueStatus
222     )
223

```

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

Customer_name
Alice Johnson
Charlie Brown
David Lee

Customer 29 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
56	22:05:57	SELECT Category, COUNT(*) AS Total_Count FROM Books GROUP BY Category LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
57	22:06:01	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
58	22:06:12	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN ...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS global_store_db library

Tables books branch customer employee issuestatus returnstatus

Views

Stored Procedures

Functions

organisation product sales

Administration Schemas

Information No object selected

```

222 );
223
224 -- 7. Display the branch numbers and the total count of employees in each branch
225 • SELECT
226     Branch_no,
227     COUNT(*) AS Total_Employees
228     FROM
229     Employee
230     GROUP BY
231     Branch_no
232

```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

Branch_no	Total_Employees
1	6
2	2
4	1
7	1

Result 30 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
57	22:06:01	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
58	22:06:12	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN ...	3 row(s) returned	0.000 sec / 0.000 sec
59	22:07:11	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, ...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive*

SCHEMAS global_store_db library

Tables books branch customer employee issuestatus returnstatus

Views

Stored Procedures

Functions

organisation product sales

Administration Schemas

Information

No object selected

```

233 -- 8. Display the names of customers who have issued books in the month of June 2023
234 • SELECT
235     c.Customer_name
236     FROM
237     IssueStatus i
238     JOIN Customer c ON i.Issued_cust = c.Customer_Id
239     WHERE
240     MONTH (Issue_date) = 6
241     AND YEAR (Issue_date) = 2023;

```

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

Customer_name
Bob Smith
Bob Smith
Grace Adams

Result 31 x

Action Output

#	Time	Action	Message	Duration / Fetch
58	22:06:12	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN ...	3 row(s) returned	0.000 sec / 0.000 sec
59	22:07:11	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, ...	4 row(s) returned	0.000 sec / 0.000 sec
60	22:08:46	SELECT c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id WHERE ...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive*

SCHEMAS global_store_db library

Tables books branch customer employee issuestatus returnstatus

Views

Stored Procedures

Functions

organisation product sales

Administration Schemas

Information

No object selected

```

242
243 -- 9. Retrieve book_title from book table containing history
244 • SELECT
245     Book_title
246     FROM
247     Books
248     WHERE
249     Category = 'History';

```

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

Book_title
Quest for Atlantis
Whodunit Chronicles

Books 32 x

Action Output

#	Time	Action	Message	Duration / Fetch
59	22:07:11	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, ...	4 row(s) returned	0.000 sec / 0.000 sec
60	22:08:46	SELECT c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id WHERE ...	3 row(s) returned	0.000 sec / 0.000 sec
61	22:09:40	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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 has sections for Navigator, Schemas, Administration, and Information. The Schemas section shows a tree view with global_store_db selected, containing library, Books, branch, customer, employee, issuestatus, returnstatus, Views, Stored Procedures, Functions, organization, product, and sales. The main area displays a SQL editor with the following query:

```
251 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
252 • SELECT
253     Branch_no,
254     COUNT(*) AS Total_Employees
255     FROM
256     Employee
257     GROUP BY
258     Branch_no
259     HAVING
260     COUNT(*) > 5;
```

Below the SQL editor is a Result Grid with the following data:

Branch_no	Total_Employees
1	6

At the bottom, a Result 33 window shows the output of the previous query:

Action Output	#	Time	Action	Message	Duration / Fetch
60	22:08:46		SELECT c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id WHERE i.Issued_Status = 1	3 row(s) returned	0.000 sec / 0.000 sec
61	22:09:40		SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
62	22:10:31		SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5	1 row(s) returned	0.000 sec / 0.000 sec

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, Schemas (with library selected), and Information sections. The main area features a query editor with the following SQL code:

```
261
262 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses
263 • SELECT
264     e.Emp_name,
265     b.Branch_address
266 FROM
267     Employee e
268 JOIN Branch b ON e.Branch_no = b.Branch_no
269 WHERE
270     e.Position = 'Manager';
```

The results grid below the query editor shows two rows of data:

Emp_name	Branch_address
Han Doe	789 Oak Lane
Christin Brown	321 Cedar Road

The bottom section, titled "Result 34", displays the execution log:

Action	Output
61	22:09:40 SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000
62	22:10:31 SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING ... 1 row(s) returned
63	22:11:17 SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e.Branch_no = b.Branch_no 2 row(s) returned

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Student Student constraints Sales Clause Functions Join Views Subqueries Procedures Triggers SQL Task 8 SQL Task 9 Comprehensive* x

SCHEMAS

global_store_db library organisation product sales

Tables books branch customer employee issuestatus returnstatus

Views

Stored Procedures Functions

Administration Schemas

No object selected

Limit to 1000 rows

271
272 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25
273 • SELECT
274 c.Customer_name
275 FROM
276 IssueStatus i
277 JOIN Customer c ON i.Issued_cust = c.Customer_Id
278 JOIN Books b ON i.Issn_book = b.ISBN
279 WHERE
280 b.Rental_Price > 25;

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

Customer_name
Julia Martinez
Bob Smith
Isaac Green
Grace Adams
Frank Miller

Result 35 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
62	22:10:31	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING ... 1 row(s) returned		0.000 sec / 0.000 sec
63	22:11:17	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e.Branch_no = b.Branch_no 2 row(s) returned		0.000 sec / 0.000 sec
64	22:12:07	SELECT c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id JOIN Books b ON i.Issn_book = b.ISBN WHERE b.Rental_Price > 25; 5 row(s) returned		0.000 sec / 0.000 sec

Object Info Session