

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Library Management System - M...

SCHEMAS

Filter objects

- emp
- employee
- office
- orgdb
- population
- product
- sales
- school
- student_joining
- sys
- tempdb

Administration Schemas

Information

No object selected

Tables_in_library

- books
- branch
- customer
- employee
- issuestatus
- returnstatus

Result Grid

Filter Rows: Export: Wrap Cell Content:

Result 68 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 12	16:20:57	INSERT INTO Customer (Customer_id, Customer_name, Customer_address, Reg_date) VALUES (304, 'Michael ...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
✓ 13	16:20:57	INSERT INTO IssueStatus (Issue_id, Issued_cust, Issued_book_name, Issue_date, isbn_book) VALUES (403, 3...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
✓ 14	16:20:57	INSERT INTO ReturnStatus (Return_id, Return_cust, Return_book_name, Return_date, isbn_book2) VALUES (...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
✓ 15	16:21:04	SHOW TABLES	6 row(s) returned	0.016 sec / 0.000 sec

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Administration Schemas

Information

No object selected

Object Info Session

Output

Library Management System - M...

Limit to 1000 rows

```
176
177 -- Display data from Books table
178 * SELECT * FROM Books;
179
180 -- Display data from Customer table
181 * SELECT * FROM Customer;
182
183 -- Display data from IssueStatus table
```

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
978-0-12-345679-6	Book G	History	35.00	yes	Author G	Publisher G
978-0-12-345680-2	Book K	History	33.00	no	Author K	Publisher K
978-1-23-456780-3	Book F	Science	28.00	no	Author F	Publisher F
978-1-23-456781-0	Book J	Science	26.00	yes	Author J	Publisher J
978-1-23-456782-7	Book N	Science	29.00	yes	Author N	Publisher N
978-3-16-148411-7	Book E	Fiction	22.00	yes	Author E	Publisher E
978-3-16-148412-4	Book I	Fiction	25.00	yes	Author I	Publisher I
978-3-16-148413-1	Book M	Fiction	27.00	no	Author M	Publisher M
978-9-87-654322-3	Book H	Math	18.00	no	Author H	Publisher H
978-9-87-654323-0	Book L	Math	20.00	yes	Author L	Publisher L

Books 71 x

Apply Revert

MySQL Workbench

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167 # Displaying all tables in Library database

168

169 * SHOW TABLES;

170

171 -- Display data from Branch table

172 * SELECT * FROM Branch;

173

174 -- Display data from Employee table

175 * SELECT * FROM Employee;

176

177 -- Display data from Books table

178 * SELECT * FROM Books;

179

Result Grid

Branch_no	Manager_id	Branch_address	Contact_no
1	101	123 Main St	1234567890
2	102	456 Oak St	2345678901
3	103	789 Pine St	3456789012

Branch 69 x

Output

#	Time	Action	Message	Duration / Fetch
✓	13 16:20:57	INSERT INTO IssueStatus (Issue_id, Issued_cust, Issued_book_name, Issue_date, isbn_book) VALUES (403, 3...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
✓	14 16:20:57	INSERT INTO ReturnStatus (Return_id, Return_cust, Return_book_name, Return_date, isbn_book2) VALUES (...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
✓	15 16:21:04	SHOW TABLES	6 row(s) returned	0.016 sec / 0.000 sec
✓	16 16:23:11	SELECT * FROM Branch LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
176
177 -- Display data from Books table
178 * SELECT * FROM Books;
179
180 -- Display data from Customer table
181 * SELECT * FROM Customer;
182
183 -- Display data from IssueStatus table
```

Result Grid

	Customer_Id	Customer_name	Customer_address	Reg_date
▶	304	Michael Scott	1725 Slough Ave	2021-11-30
	305	Jim Halpert	9843 Scranton Rd	2022-01-05
	306	Pam Beesly	8472 Meadow Ln	2023-02-14
	307	Dwight Schrute	1745 Beet Farm Ln	2021-09-21
	308	Stanley Hudson	9642 East Dr	2021-10-10
	309	Ryan Howard	1852 New York Ave	2023-03-25
	310	Kelly Kapoor	2963 Cedar St	2022-06-12
	311	Toby Flenderson	5784 Maple Ave	2022-04-17
	312	Angela Martin	1574 Elm St	2022-08-03
	313	Kevin Malone	7893 Birch Blvd	2021-07-29
*	MAX	MAX	MAX	MAX

Customer 72 x

Output

Apply Revert

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
170
171 -- Display data from Branch table
172 * SELECT * FROM Branch;
173
174 -- Display data from Employee table
175 * SELECT * FROM Employees;
176
177 -- Display data from Books table
```

Result Grid

Emp_Id	Emp_name	Position	Salary	Branch_no
101	Alice	Manager	60000.00	1
102	Charlie	Manager	65000.00	2
103	Eve	Manager	70000.00	3
201	Bob	Assistant	40000.00	1
202	Leo	Assistant	72000.00	2
203	Frank	Assistant	45000.00	3
211	Helen	Assistant	45000.00	1
213	Nina	Assistant	46000.00	3
221	Karen	Assistant	47000.00	1
301	George	Clerk	32000.00	1
302	David	Clerk	30000.00	2
303	Oscar	Clerk	35000.00	3
311	Irene	Clerk	30000.00	1
312	Megan	Clerk	28000.00	2
313	Pamela	Clerk	43000.00	3
321	Jack	Clerk	31000.00	1

Employee 70 x

Output

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Administration Schemas

Information

No object selected

Limit to 1000 rows

```
179
180 -- Display data from Customer table
181 * SELECT * FROM Customer;
182
183 -- Display data from IssueStatus table
184 * SELECT * FROM IssueStatus;
```

Result Grid

Issue_Id	Issued_cust	Issued_book_name	Issue_date	Isbn_book
403	305	Book E	2023-07-10	978-3-16-148411-7
404	306	Book F	2023-07-12	978-1-23-456780-3
405	307	Book G	2023-07-14	978-0-12-345679-6
406	309	Book H	2023-07-16	978-9-87-654322-3
407	309	Book I	2023-07-18	978-3-16-148412-4
408	310	Book J	2023-06-20	978-1-23-456781-0
409	311	Book K	2023-07-22	978-0-12-345680-2
410	312	Book L	2023-07-24	978-9-87-654323-0
411	313	Book M	2023-07-26	978-3-16-148413-1
412	306	Book N	2023-07-28	978-1-23-456782-7

IssueStatus 182 x

Output

#	Time	Action	Message	Duration / Fetch
62	16:35:25	SELECT Employee.Emp_name, Branch.Branch_address FROM Employee JOIN Branch ON Employee.Emp_Id = ...	3 row(s) returned	0.000 sec / 0.000 sec
63	16:35:25	SELECT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Isbn_book = Books.ISBN...	6 row(s) returned	0.000 sec / 0.000 sec
64	16:36:18	SELECT * FROM IssueStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information

No object selected

Library Management System - M...

```
182
183 -- Display data from IssueStatus table
184 * SELECT * FROM IssueStatus;
185
186 -- Display data from ReturnStatus table
187 * SELECT * FROM ReturnStatus;
188
189 /* Write the queries for the following :
```

Result Grid

Return_id	Return_cust	Return_book_name	Return_date	Isbn_book2
503	305	Book E	2023-08-01	978-3-16-148411-7
504	306	Book F	2023-08-03	978-1-23-456700-3
505	307	Book G	2023-08-05	978-0-12-345679-6
506	309	Book H	2023-08-07	978-9-87-654322-3
507	309	Book I	2023-08-09	978-3-16-148412-4
508	310	Book J	2023-08-11	978-1-23-456781-0
509	311	Book K	2023-08-13	978-0-12-345680-2
510	312	Book L	2023-08-15	978-9-87-654323-0
511	313	Book M	2023-08-17	978-3-16-148413-1
512	306	Book N	2023-08-19	978-1-23-456782-7

ReturnStatus 74 x

Output

Apply Revert

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Navigator

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
188
189 /* Write the queries for the following :
190 1. Retrieve the book title, category, and rental price of all available books. */
191
192 * SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes';
193
```

Result Grid

Book_title	Category	Rental_Price
Book G	History	35.00
Book J	Science	26.00
Book N	Science	29.00
Book E	Fiction	22.00
Book I	Fiction	25.00
Book L	Math	20.00

Books 75 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 18	16:24:30	SELECT * FROM Books LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 19	16:24:56	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 20	16:25:28	SELECT * FROM IssueStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 21	16:25:06	SELECT * FROM ReturnStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 22	16:26:40	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
193
194 -- 2. List the employee names and their respective salaries in descending order of salary.
195
196 * SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;
197
198 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
```

Result Grid

Emp_name	Salary
Leo	72000.00
Eve	70000.00
Charlie	65000.00
Alice	60000.00
Karen	47000.00
Nina	46000.00
Frank	45000.00
Helen	45000.00
Pamela	43000.00
Bob	40000.00
Oscar	35000.00
George	32000.00
Jack	31000.00
David	30000.00
Irene	30000.00
Megan	28000.00

Employee 76 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 19	16:24:56	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 20	16:25:28	SELECT * FROM IssueStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
✓ 21	16:25:06	SELECT * FROM ReturnStatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Read Only

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
197
198 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
199
200 * SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus
201 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
202 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id;
203
```

Result Grid

Book_title	Customer_name
Book E	Jim Halpert
Book F	Pam Beesly
Book G	Dwight Schrute
Book H	Ryan Howard
Book I	Ryan Howard
Book J	Kelly Kapoor
Book K	Toby Flenderson
Book L	Angela Martin
Book M	Kevin Malone
Book N	Pam Beesly

Result 77 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	16:26:40	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
23	16:28:10	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	16 row(s) returned	0.000 sec / 0.000 sec
24	16:29:08	SELECT Books.Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Isbn_book...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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- tempdb

Library Management System - M...

Limit to 1000 rows

```
203
204 -- 4. Display the total count of books in each category.
205
206 * SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category;
207
208 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
209
```

Result Grid

Category	Total_Books
History	2
Science	3
Fiction	3
Math	2

Administration Schemas

Information

No object selected

Result 78

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
23	16:28:10	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
24	16:29:08	SELECT Books Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus isbn_book...	10 row(s) returned	0.000 sec / 0.000 sec
25	16:29:50	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
207
208 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
209
210 * SELECT Emp_name, Position FROM Employee WHERE Salary > 50000;
211
212 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
```

Result Grid

Emp_name	Position
Alice	Manager
Charlie	Manager
Eve	Manager
Leo	Assistant

Employee 79 x

Output

#	Time	Action	Message	Duration / Fetch
24	16:29:08	SELECT Books Book_title, Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus isbn_book...	10 row(s) returned	0.000 sec / 0.000 sec
25	16:29:50	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
26	16:30:32	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

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
211
212 -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
213
214 * SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
215
216 -- 7. Display the branch numbers and the total count of employees in each branch.
```

Result Grid

Filter Rows:

Export: Wrap Cell Contents

Customer_name
Michael Scott
Stanley Hudson

Customer 80 x

Read Only

Output

#	Time	Action	Message	Duration / Fetch
25	16:29:50	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
26	16:30:32	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
27	16:31:34	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELEC...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
215
216 -- 7. Display the branch numbers and the total count of employees in each branch.
217
218 * SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no;
219
220 -- 8. Display the names of customers who have issued books in the month of June 2023.
```

Result Grid

Branch_no	Total_Employees
1	7
2	4
3	5

Result 81

Output

#	Time	Action	Message	Duration / Fetch
26	16:30:32	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
27	16:31:34	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_id NOT IN (SELEC...	2 row(s) returned	0.000 sec / 0.000 sec
28	16:32:07	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

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office

orgdb

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product

sales

school

student_joining

sys

tempdb

Administration

Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

219

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

220

221

222 • SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id

223 WHERE Issue_date BETWEEN '2023-06-01' AND '2023-06-30';

224

Result Grid

Filter Rows:

Export: Wrap Cell Contents

Customer_name

Kelly Kapoor

Result 111 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
71	16:39:04	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELEC...	2 row(s) returned	0.000 sec / 0.000 sec
72	16:39:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
73	16:39:27	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.C...	1 row(s) returned	0.016 sec / 0.000 sec

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
224
225 -- 9. Retrieve book_title from book table containing history.
226
227 * SELECT Book_title FROM Books WHERE Category = "History";
228
229 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
```

Result Grid

Filter Rows:

Export:

Wrap Cell Contents

Book_title
Book G
Book K

Books 112 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
72	16:39:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
73	16:39:27	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.C...	1 row(s) returned	0.016 sec / 0.000 sec
74	16:40:14	SELECT Book_title FROM Books WHERE Category = "History" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
228
229 -- 10. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
230
231 * SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5;
232
233 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
```

Result Grid

Branch_no	Total_Employees
1	7

Result 113 x

Output

#	Time	Action	Message	Duration / Fetch
73	16:39:27	SELECT Customer.Customer_name FROM IssueStatus JOIN Customer ON IssueStatus.Issued_cust = Customer.C...	1 row(s) returned	0.016 sec / 0.000 sec
74	16:40:14	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
75	16:40:48	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(...	1 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: Library Management System - M...

SCHEMAS

Filter objects

- emp
- employee
- library
 - Tables
 - Views
 - Stored Procedures
 - Functions
- office
- orgdb
- population
- product
- sales
- school
- student_joining
- sys
- tempdb

Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
232
233 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.
234
235 * SELECT Employee.Emp_name, Branch.Branch_address FROM Employee
236 JOIN Branch ON Employee.Emp_Id = Branch.Manager_Id;
237
```

Result Grid

Emp_name	Branch_address
Alice	123 Main St
Charlie	456 Oak St
Eve	789 Pine St

Result 114 x

Output

#	Time	Action	Message	Duration / Fetch
74	16:40:14	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
75	16:40:48	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(...	1 row(s) returned	0.000 sec / 0.000 sec
76	16:41:23	SELECT Employee.Emp_name, Branch.Branch_address FROM Employee JOIN Branch ON Employee.Emp_Id = ...	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: Library Management System - M...

SCHEMAS

Filter objects

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Administration Schemas

Information

No object selected

Library Management System - M...

Limit to 1000 rows

```
238 -- 12. Display the names of customers who have issued books with a rental price higher than Rs. 25.
239
240 * SELECT Customer.Customer_name FROM IssueStatus
241 JOIN Books ON IssueStatus.Isbn_book = Books.ISBN
242 JOIN Customer ON IssueStatus.Issued_cust = Customer.Customer_Id WHERE Books.Rental_Price > 25.00;
243
```

Result Grid

Customer_name
Dwight Schrute
Toby Flenderson
Pam Beesly
Kelly Kapoor
Pam Beesly
Kevin Malone

Result 115 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
75	16:40:48	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(...	1 row(s) returned	0.000 sec / 0.000 sec
76	16:41:23	SELECT Employee Emp_name, Branch Branch_address FROM Employee JOIN Branch ON Employee.Emp_Id = ...	3 row(s) returned	0.000 sec / 0.000 sec
77	16:41:56	SELECT Customer.Customer_name FROM IssueStatus JOIN Books ON IssueStatus.Isbn_book = Books.ISBN JO...	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session