

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

SCHEMAS: library

Filter objects: Filter objects

```

1 • create database library;
2
3 • use library;
4
5 • create table Branch(
6     Branch_no int primary key,
7     Manager_Id int,
8     Branch_address varchar(100),
9     Contact_no bigint
10 );
11
12 • insert into Branch values
13     (1, 201, '123 Main St, CityA', '1234567890'),(2, 203, '456 Oak St, CityB', '2345678901'),
14     (3, 205, '789 Pine St, CityC', '3456789012'),(4, 207, '101 Maple St, CityD', '4567890123'),
15     (5, 209, '105 Birch St, CityE', '5678901234'),(6, 211, '202 Cedar St, CityF', '6789012345'),
16     (7, 213, '303 Elm St, CityG', '7890123456'),(8, 215, '404 Aspen St, CityH', '8901234567');
17 • select * from branch;
18
19 • create table Employee (
20     Emp_Id int primary key,
21     Emp_name varchar(100),
22     Position varchar(40),
23     Salary int,
24     Branch_no int,
25     foreign key (Branch_no) references Branch(Branch_no)

```

Output:

#	Time	Action	Message	Duration / Fetch
1	12:00:18	use library	0 row(s) affected	0.000 sec

Object Info Session

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Navigator: SCHEMAS

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Filter objects: Filter objects

```

5 • create table Branch(
6     Branch_no int primary key,
7     Manager_Id int,
8     Branch_address varchar(100),
9     Contact_no bigint
10 );
11
12 • insert into Branch values
13     (1, 201, '123 Main St, CityA', '1234567890'),(2, 203, '456 Oak St, CityB', '2345678901'),
14     (3, 205, '789 Pine St, CityC', '3456789012'),(4, 207, '101 Maple St, CityD', '4567890123'),
15     (5, 209, '105 Birch St, CityE', '5678901234'),(6, 211, '202 Cedar St, CityF', '6789012345'),
16     (7, 213, '303 Elm St, CityG', '7890123456'),(8, 215, '404 Aspen St, CityH', '8901234567');
17 • select * from branch;
18

```

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

Branch_no	Manager_Id	Branch_address	Contact_no
1	201	123 Main St, CityA	1234567890
2	203	456 Oak St, CityB	2345678901
3	205	789 Pine St, CityC	3456789012
4	207	101 Maple St, CityD	4567890123
5	209	105 Birch St, CityE	5678901234
6	211	202 Cedar St, CityF	6789012345
7	213	303 Elm St, CityG	7890123456
8	215	404 Aspen St, CityH	8901234567
*	NULL	NULL	NULL

branch 34 x

Output:

#	Time	Action	Message	Duration / Fetch
3	12:09:00	insert into Branch values (1, 201, '123 Main St, CityA', '1234567890'),(2, 203, '456 Oak St, CityB', '2345678901'),...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.000 sec
4	12:09:04	select * from branch LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

Limit to 1000 rows

```

19 • create table Employee (
20     Emp_Id int primary key,
21     Emp_name varchar(100),
22     Position varchar(40),
23     Salary int,
24     Branch_no int,
25     foreign key (Branch_no) references Branch(Branch_no)
26 );
27
28 • insert into Employee values
29     (201, 'Celine Cooper', 'Manager', 60000, 1),(202, 'Myla Gaines', 'Assistant', 40000, 1),
30     (203, 'Trinity Henson', 'Manager', 65000, 2),(204, 'Banks Dorsey', 'Assistant', 35000, 2),
31     (205, 'Tristan Richards', 'Manager', 62000, 3),(206, 'Emmitt English', 'Assistant', 45000, 3),
32     (207, 'Sloan Rubio', 'Manager', 63000, 4),(208, 'Sam Mathews', 'Assistant', 48000, 4),
33     (209, 'Cristian Martinez', 'Manager', 65000, 5),(210, 'Natalia Shelton', 'Assistant', 42000, 5),
34     (211, 'Maddox Osborne', 'Manager', 62000, 6),(212, 'Lawson Richards', 'Assistant', 43000, 6),
35     (213, 'Oliver Weiss', 'Manager', 63000, 7),(214, 'Crystal Hernandez', 'Assistant', 41000, 7),
36     (215, 'Andrew Gallagher', 'Manager', 61000, 8),(216, 'Jack Black', 'Assistant', 45000, 8),
37     (217, 'Aniya Pace', 'Deputy Manager', 60000, 7),(218, 'Galilea Knox', 'Assistant', 40000, 7),
38     (219, 'Kasen Villalobos', 'Deputy Manager', 65000, 4),(220, 'Warren Bishop', 'Assistant', 47000, 1),
39     (221, 'Aliza Stuart', 'Deputy Manager', 62000, 2),(222, 'Griffin Cantu', 'Assistant', 45000, 3),
40     (223, 'Rory Greene', 'Assistant', 63000, 5),(224, 'Luka Mathis', 'Assistant', 40000, 2),
41     (225, 'Jamir Harding', 'Assistant', 65000, 3),(226, 'Abraham Church', 'Assistant', 42000, 7),
42     (227, 'Omar Drake', 'Assistant', 62000, 4),(228, 'Phoenix Arnold', 'Assistant', 43000, 7),
43     (229, 'Avleen Duncan', 'Assistant', 63000, 5),(230, 'Cruz Summers', 'Assistant', 41000, 6).

```

Output

#	Time	Action	Message	Duration / Fetch
6	12:09:46	insert into Employee values (201, 'Celine Cooper', 'Manager', 60000, 1),(202, 'Myla Gaines', 'Assistant', 40000, 1),...	38 row(s) affected Records: 38 Duplicates: 0 Warnings: 0	0.000 sec
7	12:09:51	select * from employee LIMIT 0, 1000	38 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

Limit to 1000 rows

```

37     (217, 'Aniya Pace', 'Deputy Manager', 60000, 7),(218, 'Galilea Knox', 'Assistant', 40000, 7),
38     (219, 'Kasen Villalobos', 'Deputy Manager', 65000, 4),(220, 'Warren Bishop', 'Assistant', 47000, 1),
39     (221, 'Aliza Stuart', 'Deputy Manager', 62000, 2),(222, 'Griffin Cantu', 'Assistant', 45000, 3),
40     (223, 'Rory Greene', 'Assistant', 63000, 5),(224, 'Luka Mathis', 'Assistant', 40000, 2),
41     (225, 'Jamir Harding', 'Assistant', 65000, 3),(226, 'Abraham Church', 'Assistant', 42000, 7),
42     (227, 'Omar Drake', 'Assistant', 62000, 4),(228, 'Phoenix Arnold', 'Assistant', 43000, 7),
43     (229, 'Avleen Duncan', 'Assistant', 63000, 5),(230, 'Cruz Summers', 'Assistant', 41000, 6),
44     (231, 'Laura Allen', 'Assistant', 42000, 6),(232, 'Michael Brown', 'Assistant', 43000, 6),
45     (233, 'Nancy Clark', 'Assistant', 44000, 7),(234, 'Oliver Davis', 'Assistant', 41000, 6),
46     (235, 'Paula Evans', 'Assistant', 42000, 8),(236, 'Quincy Foster', 'Assistant', 43000, 8),
47     (237, 'Rachel Green', 'Assistant', 44000, 6),(238, 'Steve Hall', 'Assistant', 41000, 6);
48
49 • select * from employee;
50

```

Result Grid

Emp_Id	Emp_name	Position	Salary	Branch_no
201	Celine Cooper	Manager	60000	1
202	Myla Gaines	Assistant	40000	1
203	Trinity Henson	Manager	65000	2
204	Banks Dorsey	Assistant	35000	2
205	Tristan Richards	Manager	62000	3
206	Emmitt English	Assistant	45000	3
207	Sloan Rubio	Manager	63000	4
208	Sam Mathews	Assistant	48000	4
209	Cristian Martinez	Manager	65000	5

employee 35 x

Output

#	Time	Action	Message	Duration / Fetch
6	12:09:46	insert into Employee values (201, 'Celine Cooper', 'Manager', 60000, 1),(202, 'Myla Gaines', 'Assistant', 40000, 1),...	38 row(s) affected Records: 38 Duplicates: 0 Warnings: 0	0.000 sec
7	12:09:51	select * from employee LIMIT 0, 1000	38 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- organisation
- product
- sales
- sample
- school
- sys

No object selected

```

51 • create table Books(
52     ISBN varchar(25) primary key,
53     Book_title varchar(100),
54     Category varchar(40),
55     Rental_Price decimal(10,2),
56     Status varchar(3),
57     Author varchar(100),
58     Publisher varchar(100)
59 );
60
61 • insert into Books values
62     ('978-3-16-148410-0', 'Introduction to Algorithms', 'Technology', 30.00, 'yes', 'Cormen et al.', 'MIT Press'),
63     ('978-0-262-03384-8', 'Artificial Intelligence', 'Technology', 40.00, 'no', 'Russell & Norvig', 'Pearson'),
64     ('978-0-134-49839-3', 'Database System Concepts', 'Technology', 35.00, 'yes', 'Silberschatz et al.', 'McGraw-Hill'),
65     ('978-1-861-97360-0', 'History of the World', 'History', 25.00, 'yes', 'J.M. Roberts', 'Oxford University Press'),
66     ('978-0-747-57621-6', 'Harry Potter and the Philosopher\\'s Stone', 'Fiction', 20.00, 'no', 'J.K. Rowling', 'Bloomsbury'),
67     ('978-0-671-72332-4', 'The Shining', 'Fiction', 18.00, 'yes', 'Stephen King', 'Doubleday'),
68     ('978-0-316-76999-4', 'Becoming', 'Biography', 22.00, 'yes', 'Michelle Obama', 'Crown'),
69     ('978-1-5011-6877-4', 'Educated', 'Biography', 20.00, 'no', 'Tara Westover', 'Random House'),
70     ('978-0-385-53913-7', 'Sapiens: A Brief History of Humankind', 'History', 28.00, 'yes', 'Yuval Noah Harari', 'Harper'),
71     ('978-0-7432-7356-5', 'Angels and Demons', 'Fiction', 15.00, 'yes', 'Dan Brown', 'Pocket Books'),
72     ('978-1-4028-9462-6', '1984', 'Fiction', 18.00, 'yes', 'George Orwell', 'Secker & Warburg'),
73     ('978-0-7432-7357-2', 'The Da Vinci Code', 'Fiction', 20.00, 'no', 'Dan Brown', 'Doubleday'),
74     ('978-0-06-112008-4', 'To Kill a Mockingbird', 'Fiction', 15.00, 'yes', 'Harper Lee', 'J.B. Lippincott & Co.'),
75     ('978-0-307-35343-1', 'The Hunger Games', 'Fiction', 17.00, 'no', 'Suzanne Collins', 'Scholastic Press').

```

Output

#	Time	Action	Message	Duration / Fetch
6	12:09:46	insert into Employee values (201,'Celine Cooper','Manager',60000,1),(202,'Myla Gaines','Assistant',40000,1),...	38 row(s) affected Records: 38 Duplicates: 0 Warnings: 0	0.000 sec
7	12:09:51	select * from employee LIMIT 0,1000	38 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- organisation
- product
- sales
- sample
- school
- sys

No object selected

```

75     ('978-0-307-35343-1', 'The Hunger Games', 'Fiction', 17.00, 'no', 'Suzanne Collins', 'Scholastic Press'),
76     ('978-0-452-28423-4', 'Fahrenheit 451', 'Fiction', 16.00, 'yes', 'Ray Bradbury', 'Ballantine Books'),
77     ('978-0-7432-7359-6', 'Digital Fortress', 'Fiction', 14.00, 'yes', 'Dan Brown', 'St. Martin\\'s Press'),
78     ('978-0-7432-7358-9', 'Deception Point', 'Fiction', 15.00, 'no', 'Dan Brown', 'Pocket Books'),
79     ('978-0-345-39180-3', 'A Game of Thrones', 'Fantasy', 22.00, 'yes', 'George R.R. Martin', 'Bantam Books'),
80     ('978-0-452-28424-1', 'Brave New World', 'Fiction', 18.00, 'yes', 'Aldous Huxley', 'Chatto & Windus'),
81     ('978-0-316-76999-5', 'The Great Gatsby', 'Fiction', 15.00, 'no', 'F. Scott Fitzgerald', 'Charles Scribner\\'s Sons'),
82     ('978-0-394-58816-2', 'Catch-22', 'Fiction', 22, 'yes', 'Joseph Heller', 'Simon & Schuster'),
83     ('978-0-316-76948-0', 'The Silent Patient', 'Thriller', 35, 'yes', 'Alex Michaelides', 'Celadon Books'),
84     ('978-1-250-30899-3', 'The Night Circus', 'Fantasy', 28, 'yes', 'Erin Morgenstern', 'Anchor'),
85     ('978-0-316-01394-4', 'The Institute', 'Horror', 33, 'no', 'Stephen King', 'Scribner');
86
87 • select * from books;
88

```

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
978-0-06-112008-4	To Kill a Mockingbird	Fiction	15.00	yes	Harper Lee	J.B. Lippincott & Co.
978-0-134-49839-3	Database System Concepts	Technology	35.00	yes	Silberschatz et al.	McGraw-Hill
978-0-262-03384-8	Artificial Intelligence	Technology	40.00	no	Russell & Norvig	Pearson
978-0-307-35343-1	The Hunger Games	Fiction	17.00	no	Suzanne Collins	Scholastic Press
978-0-316-01394-4	The Institute	Horror	33.00	no	Stephen King	Scribner
978-0-316-76948-0	The Silent Patient	Thriller	35.00	yes	Alex Michaelides	Celadon Books
978-0-316-76999-4	Becoming	Biography	22.00	yes	Michelle Obama	Crown
978-0-316-76999-5	The Great Gatsby	Fiction	15.00	no	F. Scott Fitzgerald	Charles Scribner\\'s Sons
978-0-345-39180-3	A Game of Thrones	Fantasy	22.00	yes	George R.R. Martin	Bantam Books

books 36 x

Output

#	Time	Action	Message	Duration / Fetch
9	12:11:09	insert into Books values (978-3-16-148410-0,'Introduction to Algorithms','Technology',30.00,yes,'Cormen et ...	24 row(s) affected Records: 24 Duplicates: 0 Warnings: 0	0.016 sec
10	12:11:12	select * from books LIMIT 0,1000	24 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

library

Tables

Views

Stored Procedures

Functions

organisation

product

sales

sample

school

sys

Administration Schemas

No object selected

Project Library Management S. books branch customer employee issuestatus returnstatus

```

89 • create table Customer(
90     Customer_Id int primary key,
91     Customer_name varchar(100),
92     Customer_address varchar(100),
93     Reg_date date
94 );
95
96 • insert into Customer values
97     (4001, 'Imani Mays', '789 Pine St, CityC', '2021-12-15'),
98     (4002, 'Presley McCall', '123 Maple St, CityD', '2022-01-20'),
99     (4003, 'Nathalia Sullivan', '456 Oak St, CityB', '2020-11-05'),
100    (4004, 'Saul Holmes', '202 Cedar St, CityF', '2019-09-10'),
101    (4005, 'Aliyah Mullins', '303 Elm St, CityG', '2023-02-22'),
102    (4006, 'Scarlett Jons', '404 Aspen St, CityH', '2021-04-12'),
103    (4007, 'Carmelo Snow', '505 Redwood St, CityI', '2020-06-18'),
104    (4008, 'Rosemary Shaw', '606 Willow St, CityJ', '2021-08-25'),
105    (4009, 'Audrey Abbott', '123 Birch St, CityE', '2022-03-30'),
106    (4010, 'Janiyah Tucker', '789 Pine St, CityC', '2023-05-15'),
107    (4011, 'Ryan Tyler', '789 Pine St, CityC', '2022-05-20'),
108    (4012, 'Vivian Cruz', '123 Maple St, CityD', '2021-07-15'),
109    (4013, 'Alexia Rosales', '456 Oak St, CityB', '2023-01-10'),
110    (4014, 'Izaiah Richmond', '202 Cedar St, CityF', '2020-10-05'),
111    (4015, 'Carmen Frye', '303 Elm St, CityG', '2023-03-12'),
112    (4016, 'Kevin Parker', '101 Birch St, CityH', '2021-03-01'),
113    (4017, 'Linda Scott', '202 Maple St, CityI', '2020-09-10');

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	12:11:09	insert into Books values (978-3-16-148410-0, 'Introduction to Algorithms', 'Technology', 30.00, yes, 'Comen et ...	24 row(s) affected Records: 24 Duplicates: 0 Warnings: 0	0.016 sec
10	12:11:12	select * from books LIMIT 0, 1000	24 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

library

Tables

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Stored Procedures

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organisation

product

sales

sample

school

sys

Administration Schemas

No object selected

Project Library Management S. books branch customer employee issuestatus returnstatus

```

104    (4008, 'Rosemary Shaw', '606 Willow St, CityJ', '2021-08-25'),
105    (4009, 'Audrey Abbott', '123 Birch St, CityE', '2022-03-30'),
106    (4010, 'Janiyah Tucker', '789 Pine St, CityC', '2023-05-15'),
107    (4011, 'Ryan Tyler', '789 Pine St, CityC', '2022-05-20'),
108    (4012, 'Vivian Cruz', '123 Maple St, CityD', '2021-07-15'),
109    (4013, 'Alexia Rosales', '456 Oak St, CityB', '2023-01-10'),
110    (4014, 'Izaiah Richmond', '202 Cedar St, CityF', '2020-10-05'),
111    (4015, 'Carmen Frye', '303 Elm St, CityG', '2023-03-12'),
112    (4016, 'Kevin Parker', '101 Birch St, CityH', '2021-03-01'),
113    (4017, 'Linda Scott', '202 Maple St, CityI', '2020-09-10');
114
115 • select * from customer;
116
117 • create table IssueStatus(

```

Result Grid

Customer_Id	Customer_name	Customer_address	Reg_date
4001	Imani Mays	789 Pine St, CityC	2021-12-15
4002	Presley McCall	123 Maple St, CityD	2022-01-20
4003	Nathalia Sullivan	456 Oak St, CityB	2020-11-05
4004	Saul Holmes	202 Cedar St, CityF	2019-09-10
4005	Aliyah Mullins	303 Elm St, CityG	2023-02-22
4006	Scarlett Jons	404 Aspen St, CityH	2021-04-12
4007	Carmelo Snow	505 Redwood St, CityI	2020-06-18
4008	Rosemary Shaw	606 Willow St, CityJ	2021-08-25
4009	Audrey Abbott	123 Birch St, CityE	2022-03-30

customer 37

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	12:11:51	insert into Customer values (4001, 'Imani Mays', '789 Pine St, CityC', '2021-12-15'), (4002, 'Presley McCall', '123 M...	17 row(s) affected Records: 17 Duplicates: 0 Warnings: 0	0.000 sec
13	12:11:54	select * from customer LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library**
 - Tables
 - Views
 - Stored Procedures
 - Functions
 - organisation
 - product
 - sales
 - sample
 - school
 - sys

Administration Schemas Information

No object selected

```

116
117 • create table IssueStatus(
118     Issue_Id int primary key,
119     Issued_book_name varchar(100),
120     Issued_cust int,
121     Issue_date date,
122     Isbn_book varchar(25),
123     foreign key (Issued_cust) references customer(customer_id),
124     foreign key (Isbn_book) references books(isbn)
125 );
126
127 • insert into IssueStatus values
128     (5001, 'Introduction to Algorithms', 4001, '2023-06-01', '978-3-16-148410-0'),
129     (5002, 'Artificial Intelligence', 4002, '2023-06-15', '978-0-262-03384-8'),
130     (5003, 'Database System Concepts', 4003, '2023-06-20', '978-0-134-49839-3'),
131     (5004, 'History of the World', 4004, '2023-06-25', '978-1-861-97360-0'),
132     (5005, 'Harry Potter and the Philosopher's Stone', 4005, '2023-06-30', '978-0-747-57621-6'),
133     (5006, 'The Shining', 4006, '2023-07-01', '978-0-671-72332-4'),
134     (5007, 'Becoming', 4007, '2023-07-05', '978-0-316-76999-4'),
135     (5008, 'Educated', 4008, '2023-07-10', '978-1-5011-6877-4'),
136     (5009, 'Sapiens: A Brief History of Humankind', 4009, '2023-07-15', '978-0-385-53913-7'),
137     (5010, 'Angels and Demons', 4010, '2023-07-20', '978-0-7432-7356-5'),
138     (5011, '1984', 4011, '2023-07-25', '978-1-4028-9462-6'),
139     (5012, 'The Da Vinci Code', 4012, '2023-07-28', '978-0-7432-7357-2'),
140     (5013, 'To Kill a Mockingbird', 4013, '2023-07-30', '978-0-06-112008-4').
141
142
143
144
145
146 • create table ReturnStatus(
147     Return_Id int primary key,
```

Output

Action Output				
#	Time	Action	Message	Duration / Fetch
13	12:11:54	select * from customer LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
14	12:12:12	create table IssueStatus (Issue_Id int primary key, Issued_book_name varchar(100), Issued_cust int, Issue_dat...	0 row(s) affected	0.031 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library**
 - Tables
 - Views
 - Stored Procedures
 - Functions
 - organisation
 - product
 - sales
 - sample
 - school
 - sys

Administration Schemas Information

No object selected

```

134     (5007, 'Becoming', 4007, '2023-07-05', '978-0-316-76999-4'),
135     (5008, 'Educated', 4008, '2023-07-10', '978-1-5011-6877-4'),
136     (5009, 'Sapiens: A Brief History of Humankind', 4009, '2023-07-15', '978-0-385-53913-7'),
137     (5010, 'Angels and Demons', 4010, '2023-07-20', '978-0-7432-7356-5'),
138     (5011, '1984', 4011, '2023-07-25', '978-1-4028-9462-6'),
139     (5012, 'The Da Vinci Code', 4012, '2023-07-28', '978-0-7432-7357-2'),
140     (5013, 'To Kill a Mockingbird', 4013, '2023-07-30', '978-0-06-112008-4'),
141     (5014, 'The Hunger Games', 4014, '2023-08-01', '978-0-307-35343-1'),
142     (5015, 'Fahrenheit 451', 4015, '2023-08-03', '978-0-452-28423-4);
143 • select * from issuestatus;
144
145
146 • create table ReturnStatus(
147     Return_Id int primary key,
```

Result Grid

Issue_Id	Issued_book_name	Issued_cust	Issue_date	Isbn_book
5001	Introduction to Algorithms	4001	2023-06-01	978-3-16-148410-0
5002	Artificial Intelligence	4002	2023-06-15	978-0-262-03384-8
5003	Database System Concepts	4003	2023-06-20	978-0-134-49839-3
5004	History of the World	4004	2023-06-25	978-1-861-97360-0
5005	Harry Potter and the Philosopher's Stone	4005	2023-06-30	978-0-747-57621-6
5006	The Shining	4006	2023-07-01	978-0-671-72332-4
5007	Becoming	4007	2023-07-05	978-0-316-76999-4
5008	Educated	4008	2023-07-10	978-1-5011-6877-4
5009	Sapiens: A Brief History of Humankind	4009	2023-07-15	978-0-385-53913-7

issuestatus 38 X

Output

Action Output				
#	Time	Action	Message	Duration / Fetch
15	12:12:35	insert into IssueStatus values (5001, 'Introduction to Algorithms', 4001, '2023-06-01', '978-3-16-148410-0), (5002, ...)	15 row(s) affected Records: 15 Duplicates: 0 Warnings: 0	0.000 sec
16	12:12:37	select * from issuestatus LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	12:12:51	create table ReturnStatus(Return_Id int primary key, Return_cust varchar(100), Return_book_name varchar(100), Return_date date, Isbn_book2 varchar(25), foreign key (Isbn_book2) references books(isbn));	0 row(s) affected	0.031 sec
18	12:12:55	insert into ReturnStatus values (601, 'Imani Mays', 'Introduction to Algorithms', '2023-07-01', '978-3-16-148410-0'), (602, 'Presley McCall', 'Artificial Intelligence', '2023-07-10', '978-0-262-03384-8'), (603, 'Nathalia Sullivan', 'Database System Concepts', '2023-07-15', '978-0-134-49839-3'), (604, 'Saul Holmes', 'History of the World', '2023-07-20', '978-1-861-97360-0'), (605, 'Aliyah Mullins', 'Harry Potter and the Philosopher's Stone', '2023-07-25', '978-0-747-57621-6'), (606, 'Scarlett Jons', 'The Shining', '2023-08-01', '978-0-671-72332-4'), (607, 'Carmelo Snow', 'Becoming', '2023-08-05', '978-0-316-76999-4'), (608, 'Rosemary Shaw', 'Educated', '2023-08-10', '978-1-5011-6877-4'), (609, 'Audrey Abbott', 'Sapiens: A Brief History of Humankind', '2023-08-15', '978-0-385-53913-7'), (610, 'Janiyah Tucker', 'Angels and Demons', '2023-08-20', '978-0-7432-7356-5');	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

```

146 • create table ReturnStatus(
147     Return_Id int primary key,
148     Return_cust varchar(100),
149     Return_book_name varchar(100),
150     Return_date date,
151     Isbn_book2 varchar(25),
152     foreign key (Isbn_book2) references books(isbn)
153 );
154
155 • insert into ReturnStatus values
156     (601, 'Imani Mays', 'Introduction to Algorithms', '2023-07-01', '978-3-16-148410-0'),
157     (602, 'Presley McCall', 'Artificial Intelligence', '2023-07-10', '978-0-262-03384-8'),
158     (603, 'Nathalia Sullivan', 'Database System Concepts', '2023-07-15', '978-0-134-49839-3'),
159     (604, 'Saul Holmes', 'History of the World', '2023-07-20', '978-1-861-97360-0'),
160     (605, 'Aliyah Mullins', 'Harry Potter and the Philosopher's Stone', '2023-07-25', '978-0-747-57621-6'),
161     (606, 'Scarlett Jons', 'The Shining', '2023-08-01', '978-0-671-72332-4'),
162     (607, 'Carmelo Snow', 'Becoming', '2023-08-05', '978-0-316-76999-4'),
163     (608, 'Rosemary Shaw', 'Educated', '2023-08-10', '978-1-5011-6877-4'),
164     (609, 'Audrey Abbott', 'Sapiens: A Brief History of Humankind', '2023-08-15', '978-0-385-53913-7'),
165     (610, 'Janiyah Tucker', 'Angels and Demons', '2023-08-20', '978-0-7432-7356-5');
166 • select * from returnstatus;
167
168 /* 1. Retrieve the book title, category, and rental price of all available books. */
169 • select book_title,category,rental_price from books
170 where status='yes';

```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:00:18	use library	0 row(s) affected	0.000 sec
2	12:04:32	select * from returnstatus LIMIT 0, 1000	10 row(s) returned	0.032 sec / 0.000 sec

Object Info Session

```

154
155 • insert into ReturnStatus values
156     (601, 'Imani Mays', 'Introduction to Algorithms', '2023-07-01', '978-3-16-148410-0'),
157     (602, 'Presley McCall', 'Artificial Intelligence', '2023-07-10', '978-0-262-03384-8'),
158     (603, 'Nathalia Sullivan', 'Database System Concepts', '2023-07-15', '978-0-134-49839-3'),
159     (604, 'Saul Holmes', 'History of the World', '2023-07-20', '978-1-861-97360-0'),
160     (605, 'Aliyah Mullins', 'Harry Potter and the Philosopher's Stone', '2023-07-25', '978-0-747-57621-6'),
161     (606, 'Scarlett Jons', 'The Shining', '2023-08-01', '978-0-671-72332-4'),
162     (607, 'Carmelo Snow', 'Becoming', '2023-08-05', '978-0-316-76999-4'),
163     (608, 'Rosemary Shaw', 'Educated', '2023-08-10', '978-1-5011-6877-4'),
164     (609, 'Audrey Abbott', 'Sapiens: A Brief History of Humankind', '2023-08-15', '978-0-385-53913-7'),
165     (610, 'Janiyah Tucker', 'Angels and Demons', '2023-08-20', '978-0-7432-7356-5);
166 • select * from returnstatus;

```

Result Grid

Return_Id	Return_cust	Return_book_name	Return_date	Isbn_book2
601	Imani Mays	Introduction to Algorithms	2023-07-01	978-3-16-148410-0
602	Presley McCall	Artificial Intelligence	2023-07-10	978-0-262-03384-8
603	Nathalia Sullivan	Database System Concepts	2023-07-15	978-0-134-49839-3
604	Saul Holmes	History of the World	2023-07-20	978-1-861-97360-0
605	Aliyah Mullins	Harry Potter and the Philosopher's Stone	2023-07-25	978-0-747-57621-6
606	Scarlett Jons	The Shining	2023-08-01	978-0-671-72332-4
607	Carmelo Snow	Becoming	2023-08-05	978-0-316-76999-4
608	Rosemary Shaw	Educated	2023-08-10	978-1-5011-6877-4
609	Audrey Abbott	Sapiens: A Brief History of Humankind	2023-08-15	978-0-385-53913-7
610	Janiyah Tucker	Angels and Demons	2023-08-20	978-0-7432-7356-5

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

Apply Revert

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables books branch customer employee issuestatus returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation

Administration Schemas Information

No object selected

166 • `select * from returnstatus;`

167

168 /* 1. Retrieve the book title, category, and rental price of all available books. */

169 • `select book_title,category,rental_price from books`

170 `where status='yes';`

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

book_title	category	rental_price
To Kill a Mockingbird	Fiction	15.00
Database System Concepts	Technology	35.00
The Silent Patient	Thriller	35.00
Becoming	Biography	22.00
A Game of Thrones	Fantasy	22.00
Sapiens: A Brief History of Humankind	History	28.00
Catch-22	Fiction	22.00
Fahrenheit 451	Fiction	16.00
Brave New World	Fiction	18.00
The Shining	Fiction	18.00
Angels and Demons	Fiction	15.00
Digital Fortress	Fiction	14.00
The Night Circus	Fantasy	28.00
1984	Fiction	18.00
History of the World	History	25.00
Introduction to Algorithms	Technology	30.00

books 40 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
25	12:14:08	SELECT * FROM library.returnstatus LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
26	12:15:24	select book_title,category,rental_price from books where status='yes' LIMIT 0, 1000	16 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables books branch customer employee issuestatus returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation

Administration Schemas Information

No object selected

171

172 /*2. List the employee names and their respective salaries in descending order of salary */

173 • `select emp_name,salary from employee`

174 `order by salary desc;`

175

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

emp_name	salary
Trinity Henson	65000
Kasen Villalobos	65000
Cristian Martinez	65000
Jamir Harding	65000
Sloan Rubio	63000
Ayleen Duncan	63000
Oliver Weiss	63000
Rory Greene	63000
Aliza Stuart	62000
Tristan Richards	62000
Maddox Osborne	62000
Omar Drake	62000
Andrew Gallagher	61000
Celine Cooper	60000
Aniya Pace	60000
Sam Mathews	48000
Warren Bishop	47000
Ermitt Endlich	45000

employee 42 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
27	12:16:53	select emp_name,salary from employee order by salary desc LIMIT 0, 1000	38 row(s) returned	0.000 sec / 0.000 sec
28	12:17:04	select emp_name,salary from employee order by salary desc LIMIT 0, 1000	38 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation

Administration Schemas

No object selected

```

175
176  /* 3. Retrieve the book titles and the corresponding customers who have issued those books. */
177 • select i.Issued_book_name,c.customer_name from issuestatus i
178   inner join customer c
179   on i.issued_cust=c.customer_id;
180

```

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

Issued_book_name	customer_name
Introduction to Algorithms	Imani Mays
Artificial Intelligence	Presley McCall
Database System Concepts	Nathalia Sullivan
History of the World	Saul Holmes
Harry Potter and the Philosopher's Stone	Alyiah Mullins
The Shining	Scarlett Jons
Becoming	Carmelo Snow
Educated	Rosemary Shaw
Sapiens: A Brief History of Humankind	Audrey Abbott
Angels and Demons	Sapiens: A Brief History of Humankind
1984	Ryan Tyler
The Da Vinci Code	Vivian Cruz
To Kill a Mockingbird	Alexia Rosales
The Hunger Games	Izaiyah Richmond
Fahrenheit 451	Carmen Frye

Result 43 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
28	12:17:04	select emp_name,salary from employee order by salary desc LIMIT 0, 1000	38 row(s) returned	0.000 sec / 0.000 sec
29	12:17:38	select i.Issued_book_name,c.customer_name from issuestatus i inner join customer c on i.issued_cust=c.custo...	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation

Administration Schemas

No object selected

```

180
181  /*4. Display the total count of books in each category. */
182 • select category,count(category) as no_of_books
183   from books group by category;
184

```

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

category	no_of_books
Fiction	13
Technology	3
Horror	1
Thriller	1
Biography	2
Fantasy	2
History	2

Result 44 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
29	12:17:38	select i.Issued_book_name,c.customer_name from issuestatus i inner join customer c on i.issued_cust=c.custo...	15 row(s) returned	0.000 sec / 0.000 sec
30	12:18:23	select category,count(category) as no_of_books from books group by category LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables books, branch, customer, employee, issuestatus, returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation
- Administration Schemas

No object selected

```

184
185 /* 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.*/
186 • select emp_name,position from employee where salary > 50000;
187
188 /* 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.*/

```

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

emp_name	position
Celine Cooper	Manager
Trinity Henson	Manager
Tristan Richards	Manager
Sloan Rubio	Manager
Cristian Martinez	Manager
Maddox Osborne	Manager
Oliver Weiss	Manager
Andrew Gallagher	Manager
Aniya Pace	Deputy Manager
Kasen Villalobos	Deputy Manager
Aliza Stuart	Deputy Manager
Rory Greene	Assistant
Jamir Harding	Assistant
Omar Drake	Assistant
Ayleen Duncan	Assistant

employee 45 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	12:18:23	select category.count(category) as no_of_books from books group by category LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
31	12:18:55	select emp_name,position from employee where salary > 50000 LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS Filter objects

- deepu
- library**
 - Tables books, branch, customer, employee, issuestatus, returnstatus
 - Views
 - Stored Procedures
 - Functions
- organisation
- Administration Schemas

No object selected

```

187
188 /* 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.*/
189 • select customer_name from customer
190 where reg_date < '2022-01-01' and customer_id not in
191 (select issued_cust from issuestatus);
192

```

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

customer_name
Kevin Parker
Linda Scott

customer 46 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	12:18:23	select category.count(category) as no_of_books from books group by category LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
31	12:18:55	select emp_name,position from employee where salary > 50000 LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
32	12:19:23	select customer_name from customer where reg_date < '2022-01-01' and customer_id not in (select issued_cust ...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

library

Tables: books, branch, customer, employee, issuestatus, returnstatus

Views: history_books

Stored Procedures

Administration Schemas

Information

Function: Emp_count_by_branch

Parameters: b_no: int

Returns: int

```

188 /* 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.*/
189 • select customer_name from customer
190 where reg_date < '2022-01-01' and customer_id not in
191 (select issued_cust from issuestatus);
192 -- ----- using stored procedure-----
193 delimiter //
194 • create procedure Get_custns_b22()
195 begin
196 select customer_name from customer
197 where reg_date < '2022-01-01' and customer_id not in
198 (select issued_cust from issuestatus);
199 end//
200 delimiter ;
201 • call Get_custns_b22();

```

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

customer_name
Kevin Parker
Linda Scott

Result 61 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
51	12:58:06	create procedure Get_custns_b22() begin select customer_name from customer where reg_date < 2022-01-01... 0 row(s) affected		0.032 sec
52	12:58:30	call Get_custns_b22()	2 row(s) returned	0.031 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

library

Tables: books, branch, customer, employee, issuestatus, returnstatus

Views

Stored Procedures

Functions

organisation

Administration Schemas

Information

No object selected

```

192
193 /* 7. Display the branch numbers and the total count of employees in each branch. */
194 • select branch_no,count(emp_id) as total_no_of_employees
195 from employee group by branch_no;
196
197 /* 8. Display the names of customers who have issued books in the month of June 2022 */

```

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

branch_no	total_no_of_employees
1	3
2	4
3	4
4	4
5	4
6	8
7	7
8	4

Result 47 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
31	12:18:55	select emp_name,position from employee where salary > 50000 LIMIT 0,1000	15 row(s) returned	0.000 sec / 0.000 sec
32	12:19:23	select customer_name from customer where reg_date < '2022-01-01' and customer_id not in (select issued_cust ... 2 row(s) returned		0.000 sec / 0.000 sec
33	12:20:17	select branch_no,count(emp_id) as total_no_of_employees from employee group by branch_no LIMIT 0,1000	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - Stored Procedures
 - Functions
 - organisation

Administration Schemas

Information

No object selected

```

194 • select branch_no,count(emp_id) as total_no_of_employees
195   from employee group by branch_no;
196
197 /* 8. Display the names of customers who have issued books in the month of June 2023 */
198 • select c.customer_name from issuestatus i
199   left join customer c on c.customer_id=i.issued_cust
200   where issue_date between '2023-06-01' and '2023-06-30'
201   order by customer_name asc;
202

```

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

customer_name
Aliyah Mullins
Imani Mays
Nathalia Sullivan
Presley McCall
Saul Holmes

Result 48 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
32	12:19:23	select customer_name from customer where reg_date < '2022-01-01' and customer_id not in (select issued_cust from issuestatus)	2 row(s) returned	0.000 sec / 0.000 sec
33	12:20:17	select branch_no,count(emp_id) as total_no_of_employees from employee group by branch_no LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
34	12:20:55	select c.customer_name from issuestatus i left join customer c on c.customer_id=i.issued_cust where issue_dat...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - Stored Procedures
 - Functions
 - organisation

Administration Schemas

Information

No object selected

```

200   where issue_date between '2023-06-01' and '2023-06-30'
201   order by customer_name asc;
202
203 /* 9. Retrieve book_title from book table containing history. */
204 • select book_title from books
205   where category ='history';
206   -- --by creating view-----
207 • create view History_books as
208   select Book_title from books where category = 'history';
209 • select * from History_books;
210

```

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

book_title
Sapiens: A Brief History of Humankind
History of the World

books 49 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
33	12:20:17	select branch_no,count(emp_id) as total_no_of_employees from employee group by branch_no LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
34	12:20:55	select c.customer_name from issuestatus i left join customer c on c.customer_id=i.issued_cust where issue_dat...	5 row(s) returned	0.000 sec / 0.000 sec
35	12:21:22	select book_title from books where category ='history' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - history_books
 - Stored Procedures
 - Functions
- organisation

Administration Schemas

No object selected

```

203 /* 9. Retrieve book_title from book table containing history. */
204 • select book_title from books
205 where category ='history';
206 -- --by creating view-----
207 • create view History_books as
208 select Book_title from books where category = 'history';
209 • select * from History_books;
210
211
212 /*10.Retrieve the branch numbers along with the count of employees for branches having more than 5 */
213 • select branch_no ,count(emp_id) as total_no_of_employees
  
```

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

Book_title
Sapiens: A Brief History of Humankind
History of the World

History_books 50 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	12:21:22	select book_title from books where category ='history' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
36	12:21:46	create view History_books as select Book_title from books where category = 'history'	0 row(s) affected	0.015 sec
37	12:21:50	select * from History_books LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S. books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

- deepu
- library
 - Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
 - Views
 - history_books
 - Stored Procedures
 - Functions
- organisation

Administration Schemas

No object selected

```

209 • select * from History_books;
210
211
212 /*10.Retrieve the branch numbers along with the count of employees for branches having more than 5 */
213 • select branch_no ,count(emp_id) as total_no_of_employees
  from employee
  group by branch_no
  having count(emp_id)>5;
214
215
216
217
218
219 /*11. Retain the names of employees who manage branches and their respective branch addresses */
  
```

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

branch_no	total_no_of_employees
6	8
7	7

Result 51 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
36	12:21:46	create view History_books as select Book_title from books where category = 'history'	0 row(s) affected	0.015 sec
37	12:21:50	select * from History_books LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
38	12:22:40	select branch_no ,count(emp_id) as total_no_of_employees from employee group by branch_no having count(e...)	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... functions in sql

SCHEMAS

library

Tables: books, branch, customer, employee, issuestatus, returnstatus

Views: history_books

Stored Procedures

Administration Schemas

Information

Function: Emp_count_by_branch

Parameters: b_no: int

Returns: int

```

210
211  /*10.Retrieve the branch numbers along with the count of employees for branches having more than 5 */
212 • select branch_no,count(emp_id) as total_no_of_employees
213   from employee
214   group by branch_no
215   having count(emp_id)>5;
216  -- -----using functions-----
217 delimiter //
218 • create function Emp_count_by_branch(b_no int)
219   returns int
220   deterministic
221   begin
222     declare emp_count int;
223     select count(emp_id) into emp_count from employee
224     where branch_no= b_no;
225     return emp_count;
226   end//
227 delimiter ;
228 • select branch_no,Emp_count_by_branch(branch_no) as total_employees
229   from branch having total_employees >5;
  
```

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

branch_no	total_employees
6	8
7	7

Result 59 x | Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
48	12:45:14	create function Emp_count_by_branch(b_no int) returns int deterministic begin declare emp_count int; select c...	0 row(s) affected	0.016 sec
49	12:49:27	select branch_no,Emp_count_by_branch(branch_no) as total_employees from branch having total_employees >...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... functions in sql

SCHEMAS

library

Tables: books, branch, customer, employee, issuestatus, returnstatus

Views: history_books

Stored Procedures

Administration Schemas

Information

Function: Emp_count_by_branch

Parameters: b_no: int

Returns: int

```

216  -- -----using functions-----
217 delimiter //
218 • create function Emp_count_by_branch(b_no int)
219   returns int
220   deterministic
221   begin
222     declare emp_count int;
223     select count(emp_id) into emp_count from employee
224     where branch_no= b_no;
225     return emp_count;
226   end//
227 delimiter ;
228 • select branch_no,Emp_count_by_branch(branch_no) as total_employees
229   from branch having total_employees >5;
  
```

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

branch_no	total_employees
6	8
7	7

Result 60 x | Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
49	12:49:27	select branch_no,Emp_count_by_branch(branch_no) as total_employees from branch having total_employees >...	2 row(s) returned	0.000 sec / 0.000 sec
50	12:50:46	select branch_no,Emp_count_by_branch(branch_no) as total_employees from branch having total_employees >...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS: library

```

215   group by branch_no
216   having count(emp_id)>5;
217
218
219 /*11. Retrieve the names of employees who manage branches and their respective branch addresses.*/
220 • select e.emp_name,b.branch_address from employee e
221 join branch b on e.branch_no=b.branch_no
222 where e.position='Manager';

```

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

emp_name	branch_address
Celine Cooper	123 Main St, CityA
Trinity Henson	456 Oak St, CityB
Tristan Richards	789 Pine St, CityC
Sloan Rubio	101 Maple St, CityD
Cristian Martinez	105 Birch St, CityE
Maddox Osborne	202 Cedar St, CityF
Oliver Weiss	303 Elm St, CityG
Andrew Gallagher	404 Aspen St, CityH

Result 52 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
37	12:21:50	select * from History_books LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
38	12:22:40	select branch_no,count(emp_id) as total_no_of_employees from employee group by branch_no having count(e...)	2 row(s) returned	0.000 sec / 0.000 sec
39	12:22:56	select e.emp_name,b.branch_address from employee e join branch b on e.branch_no=b.branch_no where e.po...	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Project Library Management S...

SCHEMAS: library

```

219 /*11. Retrieve the names of employees who manage branches and their respective branch addresses.*/
220 • select e.emp_name,b.branch_address from employee e
221 join branch b on e.branch_no=b.branch_no
222 where e.position='Manager';
223 -- ----- alternative -----
224 • select e.emp_name, b.branch_address from branch b
225 join employee e on b.manager_id = e.emp_id order by emp_name;
226

```

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

emp_name	branch_address
Andrew Gallagher	404 Aspen St, CityH
Celine Cooper	123 Main St, CityA
Cristian Martinez	105 Birch St, CityE
Maddox Osborne	202 Cedar St, CityF
Oliver Weiss	303 Elm St, CityG
Sloan Rubio	101 Maple St, CityD
Trinity Henson	456 Oak St, CityB
Tristan Richards	789 Pine St, CityC

Result 58 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
44	12:31:00	select e.emp_name, b.branch_address from branch b join employee e on b.manager_id = e.emp_id order by emp...	8 row(s) returned	0.000 sec / 0.000 sec
45	12:31:06	select e.emp_name,b.branch_address from employee e join branch b on e.branch_no=b.branch_no where e.po...	8 row(s) returned	0.000 sec / 0.000 sec
46	12:31:10	select e.emp_name,b.branch_address from branch b join employee e on b.manager_id = e.emp_id order by emp...	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator Project Library Management S... books branch customer employee issuestatus returnstatus

SCHEMAS

Filter objects

deepu

library

Tables

books branch customer employee issuestatus returnstatus

Views history_books

Stored Procedures Functions

Administration Schemas

Information

No object selected

224

```
225 /*12. Display the names of customers who have issued books with a rental price higher than Rs. 25.*/
226 • select customer_name from customer
227 where customer_id in(
228 select i.issued_cust from issuestatus i
229 join books b
230 on i.issued_book_name = b.book_title
231 where b.rental_price>25)
232 order by customer_name asc;
```

233

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

customer_name
Audrey Abbott
Imani Mays
Nathalia Sullivan
Presley McCall

customer 54 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
40	12:23:31	select customer_name from customer where customer_id in(select i.issued_cust from issuestatus i join books b ...)	4 row(s) returned	0.000 sec / 0.000 sec
41	12:24:31	select customer_name from customer where customer_id in(select i.issued_cust from issuestatus i join books b ...)	Error Code: 1054. Unknown column 'rental_price' in 'order clause'	0.000 sec
42	12:24:57	select customer_name from customer where customer_id in(select i.issued_cust from issuestatus i join books b ...)	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session