

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQl CSV JSON XML DDL DML Hex SQL File

Navigator

SCHEMAS

Filter objects

college petpalsdb sakila sys world xyz

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

1 /* ASSIGNMENT 3
2 /*> TASK 1
3 /*> CREATE THE DATABASE NAMED 'HMBank'*/
4
5 • CREATE DATABASE HMBank;
6
7 • USE HMBank;
8
9 • CREATE TABLE Customers (
10 customer_id INT PRIMARY KEY,
11 first_name VARCHAR(50),
12 last_name VARCHAR(50),
13 email VARCHAR(100),
14 DOB DATE,
15 phone_number VARCHAR(20),
16 address VARCHAR(255)
17);
18
19 • INSERT INTO Customers VALUES
20 (1, 'Sid', 'Mundhe', 'sidmuni@email.com', '1999-07-05', '7654766489', '123 amravati ')

Output

Action Output

#	Time	Action	Message	Duration / Fetch
86	22:28:48	USE HMBank	0 row(s) affected	0.000 sec
87	22:29:31	CREATE TABLE Customers (customer_id INT PRIMARY KEY, first_name VA...)	0 row(s) affected	0.015 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportSQLScript

Navigator

SCHEMAS

Filter objects

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hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

Limit to 1000 rows

24 (5, 'Satish', 'More', 'satishmore@email.com', '1982-01-08', '7654321981', '23 Mumbai'),
25 (6, 'Teju', 'Patel', 'teju.patel@email.com', '1996-09-27', '987654321', '67 Badisadak'),
26 (7, 'Ankit', 'Dudhani', 'andudhani@email.com', '1988-04-10', '765432198', 'delhi'),
27 (8, 'Shubham', 'Charkha', 'shubchar@email.com', '1977-11-03', '9753124680', 'stand banglore'),
28 (9, 'Akanksha', 'Negi', 'akupnegi@email.com', '1993-08-22', '7890654321', 'cheenai'),
29 (10, 'Ishan', 'Mitall', 'ishmittal@email.com', '1985-05-15', '987651234', 'jaipur');
30 • Select * from Customers;

31

Administration Schemas

Information

Connection Details

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Connector

Version: C++ 8.1.0

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

customer_id	first_name	last_name	email	DOB	phone_number	address
1	Sid	Mundhe	sidmun@email.com	1999-03-05	7654765489	123 amravati
2	Vedu	Wagh	veduwagh@email.com	1974-12-30	9873451234	456 jalna
3	Sonu	Jaybhay	sonujay@email.com	1990-06-18	9865321468	123 pune
4	Shruti	viren	shrutiviren@email.com	1999-06-18	98657651468	123 banglore
5	Satish	More	satishmore@email.com	1982-01-08	7654321981	23 Mumbai
6	Teju	Patel	teju.patel@email.com	1996-09-27	987654321	67 Badisadak
7	Ankit	Dudhani	andudhani@email.com	1988-04-10	987654321	delhi
8	Shubham	Charkha	shubchar@email.com	1977-11-03	9753124680	stand banglore
9	Akanksha	Negi	akupnegi@email.com	1993-08-22	7890654321	cheenai
10	Ishan	Mitall	ishmittal@email.com	1985-05-15	987651234	jaipur
*	NULL	NULL	NULL	NULL	NULL	NULL

Customers 1 ×

Action Output

#	Time	Action	Message	Duration / Fetch
88	22:29:51	INSERT INTO Customers VALUES (1, 'Sid', 'Mundhe', 'sidmun@email.com', '1999-03-05', '7654765489', '123 amravati')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
89	22:30:06	Select * from Customers LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL Navigator

SCHEMAS

Filter objects

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hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

45 (6, 6, 'zero_balance', 0.00),
46 (7, 7, 'savings', 800.75),
47 (8, 8, 'current', 2500.00),
48 (9, 9, 'savings', 1800.25),
49 (10, 10, 'current', 3500.00);
50
51 • Select * from Accounts;

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

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

account_id	customer_id	account_type	balance
1	1	savings	1000
2	2	savings	1500
3	3	current	2000
4	4	savings	1201
5	5	current	3000
6	6	zero_balance	0
7	7	savings	801
8	8	current	2500
9	9	savings	1800
10	10	current	3500
*	NULL	NULL	NULL

Accounts 2 × Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
91	22:30:21	INSERT INTO Accounts VALUES (1, 1, 'savings', 1000.00), (2, 2, 'savings', 1500.0...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
92	22:30:36	Select * from Accounts LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college
petpalsdb
sakila
sys
world
xyz

Navigator

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

Limit to 1000 rows

transaction_id account_id transaction_type amount transaction_date

transaction_id	account_id	transaction_type	amount	transaction_date
1	1	deposit	500	2023-01-29
2	2	deposit	300	2023-02-01
3	3	withdrawal	100	2023-02-05
4	4	transfer	201	2023-02-10
5	5	deposit	500	2023-02-15
6	6	withdrawal	150	2023-02-20
7	7	transfer	301	2023-02-25
8	8	deposit	400	2023-03-01
9	9	withdrawal	200	2023-03-05
10	10	transfer	1000	2023-03-10
*	NULL	NULL	NULL	NULL

Transactions 3 ×

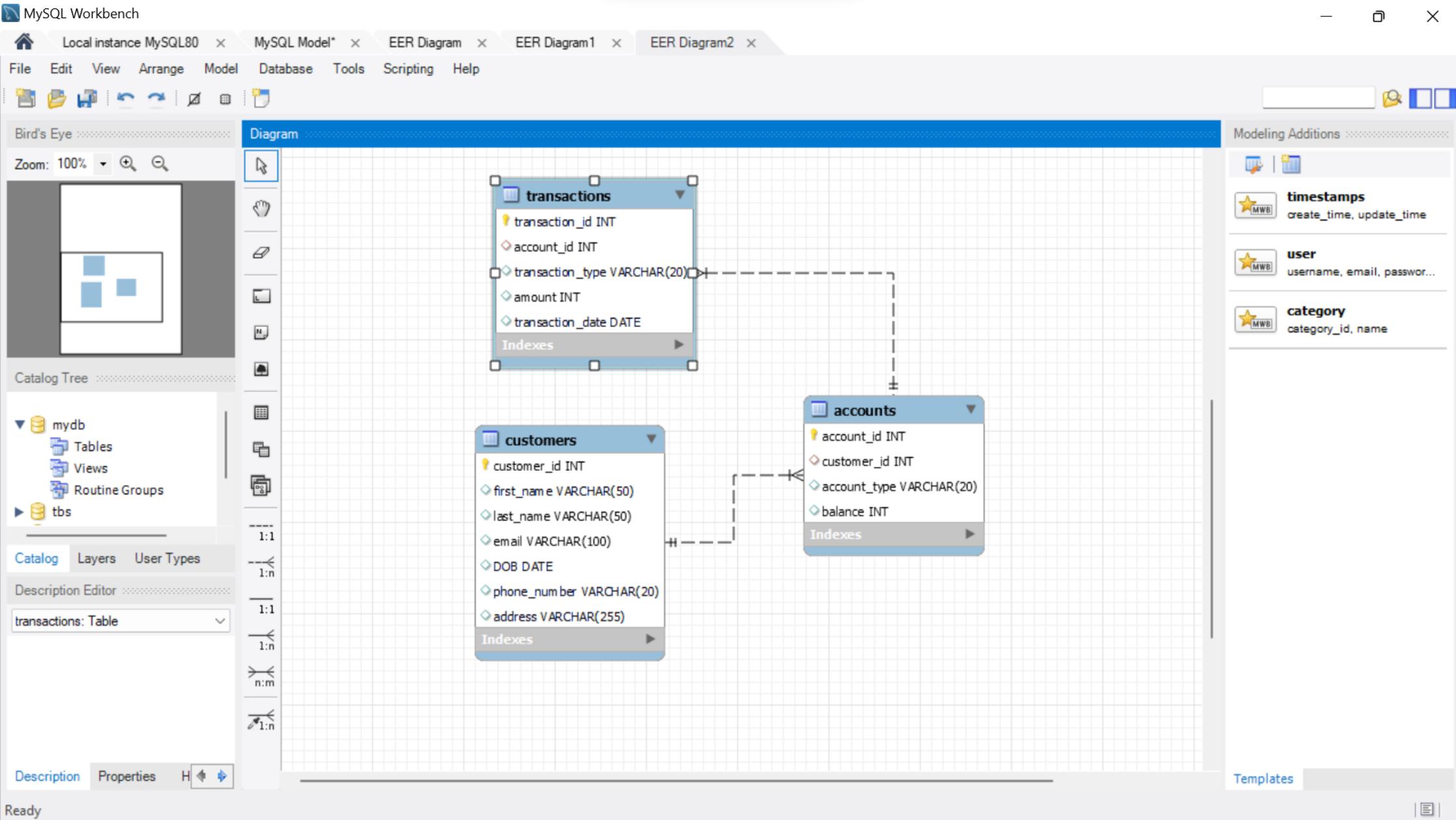
Output

Action Output

#	Time	Action	Message	Duration / Fetch
95	22:30:59	INSERT INTO Transactions VALUES (1, 1, 'deposit', 500.00,'2023-01-29'), (2, 2, 'd...',	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
96	22:31:19	Select*from Transactions LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Data Import Data Export SQL File

Navigator

SCHEMAS

Filter objects

college petpalsdb sakila sys world xyz

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

/* Tasks 2: Select, Where, Between, AND, LIKE:

1. Write a SQL query to retrieve the name, account type and email of all customers.*/

SELECT first_name, last_name, account_type, email
FROM Customers
JOIN Accounts ON Customers.customer_id = Accounts.customer_id;

Administration Schemas

Information

Connection Details

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Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

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

first_name	last_name	account_type	email
Sid	Mundhe	savings	sidmun@email.com
Vedu	Wagh	savings	veduwagh@email.com
Sonu	Jaybhay	current	sonujay@email.com
Shruti	viren	savings	shrutiviren@email.com
Satish	More	current	satishmore@email.com
Teju	Patel	zero_balance	teju.patel@email.com
Ankit	Dudhani	savings	andudhani@email.com
Shubham	Charkha	current	shubchar@email.com
Akanksha	Negi	savings	akupnegi@email.com
Ishan	Mittal	current	ishmittal@email.com

Result 4 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
98	22:35:17	Select first_name,account_type ,email from Customers LIMIT 0, 1000	Error Code: 1054. Unknown column 'account_type' in 'field list'	0.000 sec
99	22:37:16	SELECT first_name, last_name, account_type, email FROM Customers JOIN Accou... 10 row(s) returned		0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas: college, petpalsdb, sakila, sys, world, xyz

Code Editor:

```
83
84      /*3. Write a SQL query to increase the balance of a specific account.*/
85
86 • UPDATE Accounts
87     SET balance = balance + 500
88     WHERE account_id = 1;
89 • Select balance from Accounts WHERE account_id = 1;
90
```

Result Grid:

balance
1500

Connection Details:

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server:

- Product: MySQL Commun
- Version: 8.0.34

Connector:

- Version: C++ 8.1.0

Accounts 6 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
101	22:39:03	Select balance from Accounts LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
102	22:39:32	Select balance from Accounts WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

- college
- petpalsdb
- sakila
- sys
- world
- xyz

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

```
87 SET balance = balance + 500
88 WHERE account_id = 1;
89 • Select balance from Accounts WHERE account_id = 1;
90
91 /* 4. Write a SQL query to Combine first and last names of customers as a full_name.*/
92
93 • SELECT CONCAT(first_name, ' ', last_name) AS full_name
94 FROM Customers;
```

Administration Schemas

Information

Connection Details

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

full_name
Sid Mundhe
Vedu Wagh
Sonu Jaybhay
Shruti viren
Satish More
Teju Patel
Ankit Dudhani
Shubham Charkha
Akanksha Negi
Ishan Mitall

Result 7 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
102	22:39:32	Select balance from Accounts WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
103	22:40:02	SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM Customers LIMIT ...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas: college, petpalsdb, sakila, sys, world, xyz

Navigator: hex 3(2)*, HEX 2*, python sql 1, python sql 2, SQL File 6*

Code Editor:

```
94     FROM Customers;
95
96     /*5. Write a SQL query to remove accounts with a balance of zero where the account type is savings.*/
97
98 • DELETE FROM Accounts
99 WHERE balance = 0 AND account_type = 'savings';
100 • Select * from Accounts;
```

Administration Schemas

Information

Connection Details

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

account_id	customer_id	account_type	balance
1	1	savings	1500
2	2	savings	1500
3	3	current	2000
4	4	savings	1201
5	5	current	3000
6	6	zero_balance	0
7	7	savings	801
8	8	current	2500
9	9	savings	1800
10	10	current	3500
*	NULL	NULL	NULL

Accounts 11 × Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
112	22:44:05	DELETE FROM Accounts WHERE balance = 0 AND account_type = 'savings'	0 row(s) affected	0.000 sec
113	22:44:05	Select * from Accounts LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas: college, petpalsdb, sakila, sys, world, xyz

Code Editor:

```
102 /* 6. Write a SQL query to Find customers living in a specific city.*/
103
104
105 • SELECT *
106 FROM Customers
107 WHERE address LIKE '123 pune';
108
109 • SELECT balance
```

Result Grid:

customer_id	first_name	last_name	email	DOB	phone_number	address
3	Sonu	Jaybhay	sonujay@email.com	1990-06-18	9865321468	123 pune
*	NULL	NULL	NULL	NULL	NULL	NULL

Customer 12 ×

Action Output

#	Time	Action	Message	Duration / Fetch
113	22:44:05	Select * from Accounts LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
114	22:44:43	SELECT * FROM Customers WHERE address LIKE '123 pune' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

- college
- petpalsdb
- sakila
- sys
- world
- xyz

SCHEMAS

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

104
105 • SELECT *
106 FROM Customers
107 WHERE address LIKE '123 pune';
108
109 /*7. Write a SQL query to Get the account balance for a specific account.*/
110
111 • SELECT balance

Administration Schemas Information

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

balance
1500

Result Grid

Form Editor

Field Types

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

Accounts 13 × Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
114	22:44:43	SELECT * FROM Customers WHERE address LIKE '123 pune' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
115	22:45:20	SELECT balance FROM Accounts WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas: college, petpalsdb, sakila, sys, world, xyz

Filter objects

SCHEMAS

hex 3(2)* HEX 2* python sql 1 python sql 2 SQL File 6*

113 WHERE account_id = 1;
114
115 /* 8. Write a SQL query to List all current accounts with a balance greater than \$1,000.*/
116
117 • SELECT *
118 FROM Accounts
119 WHERE account_type = 'current' AND balance > 1000;
120

Administration Schemas

Information

Connection Details

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

account_id	customer_id	account_type	balance
3	3	current	2000
5	5	current	3000
8	8	current	2500
10	10	current	3500
*	NULL	NULL	NULL

Accounts 14 ×

Action Output

#	Time	Action	Message	Duration / Fetch
115	22:45:20	SELECT balance FROM Accounts WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
116	22:45:49	SELECT * FROM Accounts WHERE account_type = 'current' AND balance > 1000...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college
petpalsdb
sakila
sys
world
xyz

SCHEMAS

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

117 • SELECT *
118 FROM Accounts
119 WHERE account_type = 'current' AND balance > 1000;
120
121 /*9. Write a SQL query to Retrieve all transactions for a specific account.*/
122
123 • SELECT *
124 FROM Transactions

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

Result Grid

transaction_id account_id transaction_type amount transaction_date

transaction_id	account_id	transaction_type	amount	transaction_date
1	1	deposit	500	2023-01-29
*	NULL	NULL	NULL	NULL

Form Editor

Field Types

Transactions 15 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
116	22:45:49	SELECT * FROM Accounts WHERE account_type = 'current' AND balance > 1000...	4 row(s) returned	0.000 sec / 0.000 sec
117	22:46:34	SELECT * FROM Transactions WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQLEditSQLScriptingSQL File

Navigator

SCHEMAS

Filter objects

college
petpalsdb
sakila
sys
world
xyz

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

125 WHERE account_id = 1;
126
127 /*10. Write a SQL query to Calculate the interest accrued on savings accounts based on a given interest rate.*/
128
129 • SELECT account_id, balance * 0.05 AS interest_accrued
130 FROM Accounts
131 WHERE account_type = 'savings';
132

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

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

account_id	interest_accrued
1	75.00
2	75.00
4	60.05
7	40.05
9	90.00

Result 16 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
117	22:46:34	SELECT * FROM Transactions WHERE account_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
118	22:53:13	SELECT account_id, balance * 0.05 AS interest_accrued FROM Accounts WHERE account_type = 'savings';	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Schemas Navigator

Filter objects

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hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

WHERE account_type = 'savings';

/*11. Write a SQL query to Identify accounts where the balance is less than a specified overdraft limit.*/

SELECT * FROM Accounts WHERE balance < -1000;

Administration Schemas Information Connection Details

Name: Local instance M Host: localhost Port: 3306 Login User: root Current User:root@localhost SSL cipher: SSL not used

Server Product: MySQL Commun Version: 8.0.34

Connector Version: C++ 8.1.0

Accounts 17 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
118	22:53:13	SELECT account_id, balance * 0.05 AS interest accrued FROM Accounts WHERE...	5 row(s) returned	0.000 sec / 0.000 sec
119	22:53:58	SELECT * FROM Accounts WHERE balance < -1000 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college petpalsdb sakila sys world xyz

hex 3(2)* HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

138
139 /*
140 12. Write a SQL query to Find customers not living in a specific city.*/
141
142 • SELECT *
143 FROM Customers
144 WHERE address NOT LIKE '123 pune';
145

Administration Schemas

Information

Connection Details

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

customer_id	first_name	last_name	email	DOB	phone_number	address
1	Sid	Mundhe	sidmun@email.com	1999-03-05	7654765489	123 amravati
2	Vedu	Wagh	veduwagh@email.com	1974-12-30	9873451234	456 jalna
4	Shruti	viren	shrutiviren@email.com	1999-06-18	98657651468	123 banglore
5	Satish	More	satishmore@email.com	1982-01-08	7654321981	23 Mumbai
6	Teju	Patel	teju.patel@email.com	1996-09-27	987654321	67 Badisadak
7	Ankit	Dudhani	andudhani@email.com	1988-04-10	765432198	delhi
8	Shubham	Charkha	shubchar@email.com	1977-11-03	9753124680	stand banglore
9	Akanksha	Negi	akupnegi@email.com	1993-08-22	78906 9753124680	penai
10	Ishan	Mittal	ishmittal@email.com	1985-05-15	987651234	jaipur
*	HULL	HULL	HULL	HULL	HULL	HULL

Customers 18 x Apply Revert

Action Output

#	Time	Action	Message	Duration / Fetch
119	22:53:58	SELECT * FROM Accounts WHERE balance < -1000 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
120	22:54:43	SELECT * FROM Customers WHERE address NOT LIKE '123 pune' LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit HEX pthon sql 1 pthon sql 2 sql 1*

Navigator

SCHEMAS

Filter objects

college

hmbank

- Tables
- Views
- Stored Procedures
- Functions

petspalsdb

sakila

sisdb

sys

Administration Schemas

Information

No object selected

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

175

176 /*Tasks 3: Aggregate functions, Having, Order By, GroupBy and Joins:

177

178 1. Write a SQL query to Find the average account balance for all customers.*/

179

180 • SELECT AVG(balance) AS average_balance

181 FROM Accounts;

182

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

average_balance
1780.2000

Result 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
27	14:45:06	USE HMBank	0 row(s) affected	0.000 sec
28	14:45:19	SELECT AVG(balance) AS average_balance FROM Accounts LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportSQLScript

Navigator

SCHEMAS

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

sys

Administration Schemas

No object selected

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content: Fetch rows:

customer_id account_id balance

customer_id	account_id	balance
10	10	3500
5	5	3000
8	8	2500
3	3	2000
9	9	1800
1	1	1500
2	2	1500
4	4	1201
7	7	801
6	6	0
*	NULL	NULL

Accounts 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
28	14:45:19	SELECT AVG(balance) AS average_balance FROM Accounts LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
29	14:46:07	SELECT customer_id, account_id, balance FROM Accounts ORDER BY balance ...	10 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

SQLEdit HEX pthon sql 1 pthon sql 2 sql 1*

Navigator

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Administration Schemas

Information

No object selected

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

188 LIMIT 10;

189

190 /* 3. Write a SQL query to Calculate Total Deposits for All Customers in specific date.*/

191

192 • SELECT SUM(amount) AS total_deposits

193 FROM Transactions

194 WHERE transaction_type = 'deposit' AND transaction_date = '2023-02-15';

195

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

total_deposits
500

Result 3 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
29	14:46:07	SELECT customer_id, account_id, balance FROM Accounts ORDER BY balance ...	10 row(s) returned	0.000 sec / 0.000 sec
30	14:46:49	SELECT SUM(amount) AS total_deposits FROM Transactions WHERE transaction... 1 row(s) returned		0.016 sec / 0.000 sec

Object Info Session

Result Grid

Form Editor

Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit HEX pthon sql 1 pthon sql 2 sql 1*

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Administration Schemas

Information

No object selected

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

193 FROM Transactions
194 WHERE transaction_type = 'deposit' AND transaction_date = '2023-02-15';
195
196 /* 4. Write a SQL query to Find the Oldest and Newest Customers.*/
197
198 • SELECT MIN(DOB) AS oldest_customer, MAX(DOB) AS newest_customer
199 FROM Customers;
200

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

oldest_customer	newest_customer
1974-12-30	1999-06-18

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	14:46:49	SELECT SUM(amount) AS total_deposits FROM Transactions WHERE transaction...	1 row(s) returned	0.016 sec / 0.000 sec
31	14:47:27	SELECT MIN(DOB) AS oldest_customer, MAX(DOB) AS newest_customer FROM ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

200

201 /* 5. Write a SQL query to Retrieve transaction details along with the account type.*/

202

203 • SELECT customer_id, COUNT(*) AS num_accounts

204 FROM Accounts

205 GROUP BY customer_id

206 HAVING COUNT(*) = 1;

207

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

customer_id	num_accounts
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1

Result 6 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	14:48:00	SELECT customer_id, COUNT(*) AS num_accounts FROM Accounts GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
33	14:48:26	SELECT customer_id, COUNT(*) AS num_accounts FROM Accounts GROUP BY ...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

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

transaction_type	net_amount
deposit	1700
withdrawal	-450
transfer	-1502

Result 7 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
33	14:48:26	SELECT customer_id, COUNT(*) AS num_accounts FROM Accounts GROUP BY ...	10 row(s) returned	0.000 sec / 0.000 sec
34	14:49:42	SELECT transaction_type, SUM(CASE WHEN transaction_type = 'deposit' THEN a...)	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

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No object selected

Result Grid

Filter Rows: Export: Wrap Cell Content:

customer_id	first_name	last_name	email	DOB	phone_number	address	account_id	customer_id	account_type	balance
1	Sid	Mundhe	sidmun@email.com	1999-03-05	7654765489	123 amravati	1	1	savings	1500
2	Vedu	Wagh	veduwagh@email.com	1974-12-30	9873451234	456 jalna	2	2	savings	1500
3	Sonu	Jaybhay	sonujay@email.com	1990-06-18	9865321468	123 pune	3	3	current	2000
4	Shruti	viren	shrutiviren@email.com	1999-06-18	98657651468	123 banglore	4	4	savings	1201
5	Satish	More	satishmore@email.com	1982-01-08	7654321981	23 Mumbai	5	5	current	3000
6	Teju	Patel	teju.patel@email.com	1996-09-27	987654321	67 Badisadak	6	6	zero_balance	0
7	Ankit	Dudhani	andudhani@email.com	1988-04-10	765432198	delhi	7	7	savings	801
8	Shubham	Charkha	shubchar@email.com	1977-11-03	9753124680	stand banglore	8	8	current	2500
9	Akanksha	Negi	akupnegi@email.com	1993-08-22	7890654321	cheenai	9	9	savings	1800
10	Ishan	Mitall	ishmittal@email.com	1985-05-15	987651234	jaipur	10	10	current	3500

Result 8

Action Output

#	Time	Action	Message	Duration / Fetch
34	14:49:42	SELECT transaction_type, SUM(CASE WHEN transaction_type = 'deposit' THEN a...	3 row(s) returned	0.000 sec / 0.000 sec
35	14:52:56	SELECT c.* , a.* FROM Customers c JOIN Accounts a ON c.customer_id = a.custo...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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SQLEdit HEX2 Python SQL1 Python SQL2 SQL1*

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Administration Schemas

Information

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hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

220

221 /* 8. Write a SQL query to Identify customers who have more than one account.*/

222

223 • SELECT customer_id, COUNT(*) AS num_accounts

224 FROM Accounts

225 GROUP BY customer_id

226 HAVING COUNT(*) > 1;

227

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

customer_id	num_accounts
-------------	--------------

Result 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	14:52:56	SELECT c.*, a.* FROM Customers c JOIN Accounts a ON c.customer_id = a.custo...	10 row(s) returned	0.000 sec / 0.000 sec
36	14:54:16	SELECT customer_id, COUNT(*) AS num_accounts FROM Accounts GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema View Hex Editor Python SQL 1 Python SQL 2 SQL 1*

Navigator

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Administration Schemas

No object selected

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

transaction_type	net_amount
deposit	1700
withdrawal	-450
transfer	-1502

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
36	14:54:16	SELECT customer_id, COUNT(*) AS num_accounts FROM Accounts GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
37	14:55:15	SELECT transaction_type, SUM(CASE WHEN transaction_type = 'deposit' THEN a...)	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema View Table Procedure Function

Navigator hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

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Administration Schemas

No object selected

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

account_id	average_daily_balance
1	1500.0000
2	1500.0000
3	2000.0000
4	1201.0000
5	3000.0000
6	0.0000
7	801.0000
8	2500.0000
9	1800.0000
10	3500.0000

Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
37	14:55:15	SELECT transaction_type, SUM(CASE WHEN transaction_type = 'deposit' THEN a...	3 row(s) returned	0.000 sec / 0.000 sec
38	14:55:56	SELECT account_id, AVG(balance) AS average_daily_balance FROM Accounts G...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema View Table Procedure Function

Navigator hex 3(2)* HEX 2 pthon sql 1 pthon sql 2 sql 1*

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Administration Schemas

No object selected

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

account_type	total_balance
savings	6802
current	11000
zero_balance	0

Result 12 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
38	14:55:56	SELECT account_id, AVG(balance) AS average_daily_balance FROM Accounts G...	10 row(s) returned	0.000 sec / 0.000 sec
39	14:56:34	SELECT account_type, SUM(balance) AS total_balance FROM Accounts GROUP ...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

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No object selected

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

account_id	transaction_count
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1

Result 13 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
39	14:56:34	SELECT account_type, SUM(balance) AS total_balance FROM Accounts GROUP ...	3 row(s) returned	0.000 sec / 0.000 sec
40	14:57:26	SELECT account_id, COUNT(*) AS transaction_count FROM Transactions GROU...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

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SQLEdit Schema View Hex Editor Python SQL 1 Python SQL 2 SQL 1*

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Administration Schemas

No object selected

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

customer_id	first_name	last_name	account_type	total_balance
10	Ishan	Mitall	current	3500
5	Satish	More	current	3000
8	Shubham	Charkha	current	2500
3	Sonu	Jaybhay	current	2000
9	Akanksha	Negi	savings	1800
1	Sid	Mundhe	savings	1500
2	Vedu	Wagh	savings	1500
4	Shruti	viren	savings	1201
7	Ankit	Dudhani	savings	801
6	Teju	Patel	zero_balance	0

Result 14 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
40	14:57:26	SELECT account_id, COUNT(*) AS transaction_count FROM Transactions GROUP BY account_id;	10 row(s) returned	0.000 sec / 0.000 sec
41	14:58:17	SELECT c.customer_id, c.first_name, c.last_name, a.account_type, SUM(a.balance) AS total_balance FROM Customers c JOIN Accounts a ON c.customer_id = a.customer_id GROUP BY c.customer_id, a.account_type ORDER BY total_balance DESC;	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

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Information

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hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

267 /* Tasks 4: Subquery and its type:
268
269 1. Retrieve the customer(s) with the highest account balance.*/
270
271 • SELECT *
272 FROM Customers
273 WHERE customer_id = (SELECT customer_id FROM Accounts ORDER BY balance DESC LIMIT 1);
274

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

customer_id	first_name	last_name	email	DOB	phone_number	address
10	Ishan	Mittal	ishmittal@email.com	1985-05-15	987651234	jaipur
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Customers 15 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
43	14:59:30	SELECT transaction_id, amount, transaction_date, account_id, COUNT(*) FROM T...	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and co...	0.000 sec
44	15:01:21	SELECT * FROM Customers WHERE customer_id = (SELECT customer_id FROM ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

Navigator

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

271 • SELECT *
272 FROM Customers
273 WHERE customer_id = (SELECT customer_id FROM Accounts ORDER BY balance DESC LIMIT 1);
274
275 /*2. Calculate the average account balance for customers who have more than one account.*/
276 • SELECT AVG(balance) AS average_balance
277 FROM Accounts
278 WHERE customer_id IN (SELECT customer_id FROM Accounts GROUP BY customer_id HAVING COUNT(*) > 1);

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

average_balance

NULL

Result 16 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
44	15:01:21	SELECT * FROM Customers WHERE customer_id = (SELECT customer_id FROM ...	1 row(s) returned	0.000 sec / 0.000 sec
45	15:02:24	SELECT AVG(balance) AS average_balance FROM Accounts WHERE customer_id ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Read Only

MySQL Workbench

Local instance MySQL80 ×

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No object selected

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

account_id	customer_id	account_type	balance
1	1	savings	1500
5	5	current	3000
8	8	current	2500
10	10	current	3500
*	NULL	NULL	NULL

Accounts 17 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
45	15:02:24	SELECT AVG(balance) AS average_balance FROM Accounts WHERE customer_j...	1 row(s) returned	0.000 sec / 0.000 sec
46	15:03:37	SELECT * FROM Accounts WHERE account_id IN (SELECT DISTINCT account_i...	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

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SQLEditHEX2pthon sql 1pthon sql 2sql 1*

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Information

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hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

284 WHERE account_id IN (SELECT DISTINCT account_id FROM Transactions WHERE amount > (SELECT AVG(amount) FROM Transactions));

285

286 /*4. Identify customers who have no recorded transactions.*/

287

288 • SELECT *

289 FROM Customers

290 WHERE customer_id NOT IN (SELECT DISTINCT customer_id FROM Transactions);

291

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

	customer_id	first_name	last_name	email	DOB	phone_number	address
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Customers 18 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
46	15:03:37	SELECT * FROM Accounts WHERE account_id IN (SELECT DISTINCT account_i...	4 row(s) returned	0.000 sec / 0.000 sec
47	15:04:30	SELECT * FROM Customers WHERE customer_id NOT IN (SELECT DISTINCT cu...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

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No object selected

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

total_balance
NULL

Result 19 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
47	15:04:30	SELECT * FROM Customers WHERE customer_id NOT IN (SELECT DISTINCT customer_id FROM Transactions);	0 row(s) returned	0.000 sec / 0.000 sec
48	15:05:23	SELECT SUM(balance) AS total_balance FROM Accounts WHERE account_id NOT IN (SELECT DISTINCT account_id FROM Transactions);	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Read Only

MySQL Workbench

Local instance MySQL80 x

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No object selected

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

total_balance
NULL

Result 19 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
47	15:04:30	SELECT * FROM Customers WHERE customer_id NOT IN (SELECT DISTINCT customer_id FROM Transactions);	0 row(s) returned	0.000 sec / 0.000 sec
48	15:05:23	SELECT SUM(balance) AS total_balance FROM Accounts WHERE account_id NOT IN (SELECT DISTINCT account_id FROM Transactions);	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Read Only

MySQL Workbench

Local instance MySQL80 x

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No object selected

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

customer_id	first_name	last_name
-------------	------------	-----------

Result 21 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
51	15:08:53	SELECT * FROM Transactions WHERE account_id IN (SELECT account_id FROM...	10 row(s) returned	0.000 sec / 0.000 sec
52	15:09:46	SELECT DISTINCT c.customer_id, c.first_name, c.last_name FROM Customers c J...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid

Form Editor

Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

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

account_type	percentage
savings	50.00000
current	40.00000
zero_balance	10.00000

Result 22 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
52	15:09:46	SELECT DISTINCT c.customer_id, c.first_name, c.last_name FROM Customers c JOIN Accounts a ON c.customer_id = a.customer_id WHERE a.account_type = 'savings' GROUP BY c.customer_id HAVING COUNT(DISTINCT a.account_type) > 1;	0 row(s) returned	0.000 sec / 0.000 sec
53	15:10:32	SELECT account_type, COUNT(*) * 100.0 / (SELECT COUNT(*) FROM Accounts) AS percentage FROM Accounts GROUP BY account_type;	3 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 ×

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SQLEdit HEX Python SQL 1 Python SQL 2 SQL 1*

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Information

No object selected

hex 3(2)* x HEX 2 pthon sql 1 pthon sql 2 sql 1*

308

309 /*9. Retrieve all transactions for a customer with a given customer_id.*/

310 • SELECT *

311 FROM Transactions

312 WHERE account_id IN (SELECT account_id FROM Accounts WHERE customer_id = 1);

313

314

315

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

transaction_id	account_id	transaction_type	amount	transaction_date
1	1	deposit	500	2023-01-29
*	NULL	NULL	NULL	NULL

Transactions 23 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
53	15:10:32	SELECT account_type, COUNT(*) * 100.0 / (SELECT COUNT(*) FROM Accounts) ...	3 row(s) returned	0.016 sec / 0.000 sec
54	15:11:23	SELECT * FROM Transactions WHERE account_id IN (SELECT account_id FRO...	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

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No object selected

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

account_type	total_balance
savings	6802
current	11000
zero_balance	0

Result 24 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
54	15:11:23	SELECT * FROM Transactions WHERE account_id IN (SELECT account_id FRO...	1 row(s) returned	0.000 sec / 0.000 sec
55	15:12:09	SELECT account_type, (SELECT SUM(balance) FROM Accounts WHERE accou...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only