

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl PRE SQL Editor

Navigator

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Administration Schemas

No object selected

CODINGCHALLENGE4\* ×

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
1  /* Coding Challenge - Car Rental System - SQL
2  */
3  • CREATE DATABASE CarRentalDB;
4  • USE CarRentalDB;
5
6
7  • CREATE TABLE Vehicle (
8      vehicleID INT PRIMARY KEY,
9      make VARCHAR(50),
10     model VARCHAR(50),
11     year INT,
12     dailyRate DECIMAL(8, 2),
13     status VARCHAR(15),
14     passengerCapacity INT,
15     engineCapacity INT
16 );
17
18  • CREATE TABLE Customer (
19      customerID INT PRIMARY KEY,
```

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
54	16:53:41	USE CarRentalDB	0 row(s) affected	0.000 sec
55	16:53:46	CREATE TABLE Vehicle ( vehicleID INT PRIMARY KEY, make VARCHAR(50), model VARCHAR(50), year INT, dailyRate DECIMAL(8, 2), status VARCHAR(15), passengerCapacity INT, engineCapacity INT );	0 row(s) affected	0.015 sec

Object Info Session

1 23 16:53 13-12-2023

MySQL Workbench

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CODINGCHALLENGE4\*

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
16    );
17 • Ⓜ CREATE TABLE Customer (
18     customerID INT PRIMARY KEY,
19     firstName VARCHAR(50),
20     lastName VARCHAR(50),
21     email VARCHAR(100),
22     phoneNumber VARCHAR(20)
23 );
24 • Ⓜ CREATE TABLE Lease (
25     leaseID INT PRIMARY KEY,
26     vehicleID INT,
27     customerID INT,
28     startDate DATE,
29     endDate DATE,
30     leaseType VARCHAR(20),
31     FOREIGN KEY (vehicleID) REFERENCES Vehicle(vehicleID),
32     FOREIGN KEY (customerID) REFERENCES Customer(customerID)
33 );
```

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
56	16:53:58	CREATE TABLE Customer ( customerID INT PRIMARY KEY, firstName VARC...	0 row(s) affected	0.016 sec
57	16:54:33	CREATE TABLE Lease ( leaseID INT PRIMARY KEY, vehicleID INT, custo...	0 row(s) affected	0.062 sec

Object Info Session

1 16:54 13-12-2023

MySQL Workbench

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Administration Schemas

Information

No object selected

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* ×

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
34
35 • ⚡ CREATE TABLE Payment (
36     paymentID INT PRIMARY KEY,
37     leaseID INT,
38     paymentDate DATE,
39     amount INT,
40     FOREIGN KEY (leaseID) REFERENCES Lease(leaseID)
41 );
42 • INSERT INTO Vehicle
43 VALUES
44 (1, 'BMW', 'Camry', 2022, 50.00, 1, 4, 1450),
45 (2, 'Ford', 'Civic', 2023, 45.00, 1, 7, 1500),
46 (3, 'HONDA', 'Focus', 2022, 48.00, 0, 4, 1400),
47 (4, 'Nissan', 'Altima', 2023, 52.00, 1, 7, 1200),
48 (5, 'Chevrolet', 'Malibu', 2022, 47.00, 1, 4, 1800),
49 (6, 'Hyundai', 'Sonata', 2023, 49.00, 0, 7, 1400),
50 (7, 'Toyota', '3 Series', 2023, 60.00, 1, 7, 2499),
51 (8, 'Mercedes', 'C-Class', 2022, 58.00, 1, 8, 2599),
52 (9, 'Audi', 'A4', 2022, 55.00, 0, 4, 2500)
```

Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
58	16:54:51	CREATE TABLE Payment ( paymentID INT PRIMARY KEY, leaseID INT, p... )	0 row(s) affected	0.063 sec
59	16:55:32	INSFRT INTO Vehicle VAI UFS (1 'BMW' 'Camry' 2022 50.00 1 4 1450) (2 'F...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

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SQl DMS Tables Schema Scripts Reports Navigator

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Administration Schemas

No object selected

CODINGCHALLENGE4\* ×

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Limit to 1000 rows

```
61     (4, 'Jane', 'Brown', 'sarah@example.com', '555-456-7890'),  
62     (5, 'David', 'Lee', 'david@example.com', '555-987-6543'),  
63     (6, 'Laura', 'Hall', 'laura@example.com', '555-234-5678'),  
64     (7, 'Michael', 'Davis', 'michael@example.com', '555-876-5432'),  
65     (8, 'John', 'Wilson', 'Emma@example.com', '555-432-1098'),  
66     (9, 'William', 'Taylor', 'william@example.com', '555-321-6547'),  
67     (10, 'Olivia', 'Adams', 'olivia@example.com', '555-765-4321');  
68  
69 • INSERT INTO Lease  
70 VALUES  
71 (1, 1, 1, '2023-01-01', '2023-01-01', 'Daily'),  
72 (2, 2, 2, '2023-02-15', '2023-02-28', 'Monthly'),  
73 (3, 3, 3, '2023-03-10', '2023-03-15', 'Daily'),  
74 (4, 4, 4, '2023-04-20', '2023-04-30', 'Monthly'),  
75 (5, 5, 5, '2023-05-01', '2023-05-10', 'Daily'),  
76 (6, 4, 3, '2023-06-15', '2023-06-30', 'Monthly'),  
77 (7, 7, 7, '2023-07-15', '2023-07-10', 'Daily'),  
78 (8, 8, 8, '2023-08-01', '2023-08-15', 'Monthly'),  
79 (9, 9, 9, '2023-09-15', '2023-09-10', 'Daily')
```

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
60	16:56:18	INSERT INTO Customer VALUES (1, 'Emma', 'Doe', 'johndoe@example.com', '555-123-4567', '2023-01-01', '2023-01-01', 'Daily')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
61	16:56:34	INSFRT INTO Lease VAIS UFS (1 1 1 '2023-01-01' '2023-01-01' 'Daily') (2 2 2 '2023-02-15' '2023-02-28' 'Monthly')	10 mw(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

1 16:56 13-12-2023

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Administration Schemas

No object selected

CODINGCHALLENGE4\*

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
79      (9, 3, 3, '2023-09-15', '2023-09-10', 'Daily'),  
80      (10, 10, 10, '2023-10-10', '2023-10-31', 'Monthly');  
81  
82 • INSERT INTO Payment  
83     VALUES  
84     (1, 1, '2023-01-03', 900.00),  
85     (2, 2, '2023-02-20', 1000.00),  
86     (3, 3, '2023-03-12', 75.00),  
87     (4, 4, '2023-04-25', 900.00),  
88     (5, 5, '2023-05-07', 60.00),  
89     (6, 6, '2023-06-18', 1200.00),  
90     (7, 7, '2023-07-03', 40.00),  
91     (8, 8, '2023-08-14', 1100.00),  
92     (9, 9, '2023-09-09', 80.00),  
93     (10, 10, '2023-10-25', 1500.00);  
94  
95 -- Task 1: Update the daily rate for a Mercedes car to 68  
96 • UPDATE Vehicle  
97     SET daily_rate = 68
```

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
61	16:56:34	INSERT INTO Lease VALUES (1, 1, 1, '2023-01-01', '2023-01-01', 'Daily'), (2, 2, 2, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
62	16:56:44	INSFRINT INTO Payment VAU LIES (1 1 '2023-01-03' 900 00) (2 2 '2023-02-20' 1	10 mw(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

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Information

No object selected

CUSTOMER 1 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
78	17:01:08	UPDATE Vehicle SET dailyRate = 68 WHERE make = 'Mercedes'	Error Code: 1175. You are using safe update mode and you tried to update a table ...	0.000 sec
79	17:01:26	DELETE FROM Payment WHERE leaseID IN (SELECT leaseID FROM Lease WH...	3 row(s) affected	0.000 sec
80	17:01:31	DELETE FROM Lease WHERE customerID = 3	3 row(s) affected	0.000 sec
81	17:01:36	DELETE FROM Customer WHERE customerID = 3	1 row(s) affected	0.000 sec
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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No object selected

Object Info Session

CODINGCHALLENGE4\*

115 -- Task 3: Rename the "paymentDate" column in the Payment table to "transactionDate"  
116 -- Assuming you are using PostgreSQL  
117 • ALTER TABLE Payment  
118 RENAME COLUMN paymentDate TO transactionDate;  
119 • desc Payment;  
120  
121  
122 -- Task 1: Find a specific customer by email

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid | Context Help Snippets

Field	Type	Null	Key	Default	Extra
paymentID	int	NO	PRI	NULL	
leaseID	int	YES	MUL	NULL	
transactionDate	date	YES		NULL	
amount	int	YES		NULL	

Result 2 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
80	17:01:31	DELETE FROM Lease WHERE customerID = 3	3 row(s) affected	0.000 sec
81	17:01:36	DELETE FROM Customer WHERE customerID = 3	1 row(s) affected	0.000 sec
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec

1 ENG IN 17:02 13-12-2023

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

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Information

No object selected

Object Info Session

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\*

118 RENAME COLUMN paymentDate TO transactionDate;  
119 • desc Payment;  
120  
121  
122 -- Task 4: Find a specific customer by email  
123 • SELECT \* FROM Customer  
124 WHERE email = 'sarah@example.com';  
125

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

customerID	firstName	lastName	email	phoneNumber
4	Jane	Brown	sarah@example.com	555-456-7890
*	NULL	NULL	NULL	NULL

Customer 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
81	17:01:36	DELETE FROM Customer WHERE customerID = 3	1 row(s) affected	0.000 sec
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Context Help Snippets

1 ENG IN 17:02 13-12-2023

MySQL Workbench interface showing a query editor with a script for renaming a column and selecting a customer by email, and a results grid showing the customer details. The bottom pane shows the execution history and output.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Databases Tables Views Functions Procedures Triggers Scripts Reports Navigator

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Information

No object selected

CODINGCHALLENGE4\* ×

124 WHERE email = 'sarah@example.com';  
125  
126 -- Task 5: Get active leases for a specific customer  
127 • SELECT \* FROM Lease  
128 WHERE customerID = 5;  
129  
130  
131 -- Task 6: Find all payments made by a customer with a specific phone number

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

leaseID	vehicleID	customerID	startDate	endDate	leaseType
5	5	5	2023-05-01	2023-05-10	Daily
*	NULL	NULL	NULL	NULL	NULL

Lease 4 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 ENG IN 17:02 13-12-2023

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Jump to

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Administration Schemas

No object selected

Information

Object Info Session

CODINGCHALLENGE4\* x

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

130  
131 -- Task 6: Find all payments made by a customer with a specific phone number  
132 • SELECT payment.\*  
133 FROM Payment  
134 INNER JOIN Lease ON Payment.paymentID = Lease.leaseID  
135 INNER JOIN Customer ON Lease.leaseID = Customer.customerID  
136 WHERE Customer.phoneNumber = '555-234-5678';  
137

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

leaseID	vehicleID	customerID	startDate	endDate	leaseType
5	5	5	2023-05-01	2023-05-10	Daily
*	NULL	NULL	NULL	NULL	NULL

Lease 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

1 ENG IN 17:02 13-12-2023

MySQL Workbench

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SQl PRE SQL

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Information

No object selected

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* x

139 -- Task 7: Calculate the average daily rate of all available cars  
140  
141 • SELECT AVG(dailyRate) AS AverageDailyRate  
142 FROM Vehicle  
143 WHERE STATUS = 1;  
144  
145 -- Task 8: Find the car with the highest daily rate  
146

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

leaseID	vehicleID	customerID	startDate	endDate	leaseType
5	5	5	2023-05-01	2023-05-10	Daily
*	NULL	NULL	NULL	NULL	NULL

Lease 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	17:01:41	SELECT * FROM CUSTOMER LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

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SQl Navigator SQL Management Instance Performance Information

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CODINGCHALLENGE4\*

145 -- Task 8: Find the car with the highest daily rate  
146  
147 • select make,DAILYRATE FROM Vehicle  
148 ORDER BY dailyRate DESC LIMIT 1;  
149  
150 -- Task 9: Retrieve all cars leased by a specific customer  
151 • SELECT Vehicle.\*  
152 FROM Vehicle

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

make	DAILYRATE
Toyota	60.00

Vehicle 5

Output

Action Output

#	Time	Action	Message	Duration / Fetch
83	17:01:53	ALTER TABLE Payment RENAME COLUMN paymentDate TO transactionDate	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerId = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
87	17:02:43	select make,DAILYRATE FROM Vehicle ORDER BY dailyRate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec

Context Help Snippets

1 ENG IN 17:02 13-12-2023

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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SQl SQL+ Databases Tables Fields Columns SQL Editor

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assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* ×

139 -- Task 7: Calculate the average daily rate of all available cars  
140  
141 • SELECT AVG(dailyRate) AS AverageDailyRate  
142 FROM Vehicle  
143 WHERE STATUS = 1;  
144  
145 -- Task 8: Find the car with the highest daily rate  
146

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

AverageDailyRate
52.285714

Result 6 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
84	17:01:58	desc Payment	4 row(s) returned	0.015 sec / 0.000 sec
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
87	17:02:43	select make,DAILYRATE FROM Vehicle ORDER BY dailyRate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
88	17:02:54	SELECT AVG(dailyRate) AS AverageDailyRate FROM Vehicle WHERE STATUS = 1;	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 17:02 13-12-2023

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

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SQl Navigator SQL Management Objects Database Scripts Help

Navigator assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* x

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No object selected

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

```
148 ORDER BY dailyRate DESC LIMIT 1;
149 Execute the selected portion of the script or everything, if there is no selection
150 -- Task 9: Retrieve all cars leased by a specific customer
151 • SELECT Vehicle.*
152 FROM Vehicle
153 INNER JOIN Lease ON Vehicle.vehicleID = Lease.vehicleID
154 WHERE Lease.customerID = (SELECT customerID FROM Customer WHERE email = 'johndoe@example.com');
155
```

vehicleID	make	model	year	dailyRate	status	passengerCapacity	engineCapacity
1	BMW	Camry	2022	50.00	1	4	1450

Result 7 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
85	17:02:14	SELECT * FROM Customer WHERE email = 'sarah@example.com' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
87	17:02:43	select make,DAILYRATE FROM Vehicle ORDER BY dailyRate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
88	17:02:54	SELECT AVG(dailyRate) AS AverageDailyRate FROM Vehicle WHERE STATUS = ...	1 row(s) returned	0.000 sec / 0.000 sec
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Leas...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

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1 ENG IN 17:03 13-12-2023

MySQL Workbench

Local instance MySQL80 x

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SQl SQL Navigator

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No object selected

Information

Object Info Session

CODINGCHALLENGE4\*

WHERE Lease.customerID = (SELECT customerID FROM Customer WHERE email = 'johndoe@example.com');

-- Task 10: Find the details of the most recent lease

select leaseID,leasetype FROM Lease

ORDER BY startDate DESC LIMIT 1;

-- Task 11: List all payments made in the year 2023

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

leaseID	leasetype
10	Monthly
*	

Lease 8 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
86	17:02:22	SELECT * FROM Lease WHERE customerID = 5 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
87	17:02:43	select make,DAILYRATE FROM Vehicle ORDER BY dailyRate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
88	17:02:54	SELECT AVG(dailyRate) AS AverageDailyRate FROM Vehicle WHERE STATUS =...	1 row(s) returned	0.000 sec / 0.000 sec
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Leas...	1 row(s) returned	0.000 sec / 0.000 sec
90	17:03:16	select leaseID,leasetype FROM Lease ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec

Context Help Snippets

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MySQL Workbench

Local instance MySQL80 ×

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SQl PRE SQL Editor

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Information

No object selected

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* ×

160  
161 -- Task 11: List all payments made in the year 2023  
162 • SELECT \*  
163 FROM Payment  
164 WHERE transactionDate >= '2023-01-01' AND transactionDate < '2024-01-01';  
165  
166  
167

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

paymentID	leaseID	transactionDate	amount
1	1	2023-01-03	900
2	2	2023-02-20	1000
4	4	2023-04-25	900
5	5	2023-05-07	60
7	7	2023-07-03	40

Payment 9 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
87	17:02:43	select make,DAILYRATE FROM Vehicle ORDER BY dailyRate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
88	17:02:54	SELECT AVG(dailyRate) AS AverageDailyRate FROM Vehicle WHERE STATUS =...	1 row(s) returned	0.000 sec / 0.000 sec
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Leas...	1 row(s) returned	0.000 sec / 0.000 sec
90	17:03:16	select leaseID,leaseType FROM Lease ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
91	17:03:27	SELECT * FROM Payment WHERE transactionDate >= '2023-01-01' AND transacti...	7 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

1 17:03 13-12-2023

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Context Help Snippets

MySQL Workbench

Local instance MySQL80 ×

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No object selected

Object Info Session

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* ×

169 -- Task 12: Retrieve customers who have not made any payments

170 • SELECT C.\*

171 FROM Customer C

172 LEFT JOIN Lease L ON C.customerID = L.customerID

173 LEFT JOIN Payment P ON L.leaseID = P.leaseID

174 WHERE P.paymentID IS NULL;

175

176 -- Task 12: Retrieve car details and their total payments

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

	customerID	firstName	lastName	email	phoneNumber
▶	6	Laura	Hall	laura@example.com	555-234-5678
	9	William	Taylor	william@example.com	555-321-6547

Result 10 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
88	17:02:54	SELECT AVG(dailyRate) AS AverageDailyRate FROM Vehicle WHERE STATUS =...	1 row(s) returned	0.000 sec / 0.000 sec
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Leas...	1 row(s) returned	0.000 sec / 0.000 sec
90	17:03:16	select leaseID,leaseType FROM Lease ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
91	17:03:27	SELECT * FROM Payment WHERE transactionDate >= '2023-01-01' AND transacti...	7 row(s) returned	0.016 sec / 0.000 sec
92	17:03:34	SELECT C.* FROM Customer C LEFT JOIN Lease L ON C.customerID = L.customer...	2 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Jump to

Context Help Snippets

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Local instance MySQL80 ×

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No object selected

Object Info Session

assignment1 Assignment2\* Assignment3\* codingchallenge1\* codingchallenge2\* CODINGCHALLENGE4\* ×

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

-- Task 13: Retrieve Car Details and Their Total Payments

176 -- Task 13: Retrieve Car Details and Their Total Payments  
177 • Execute the selected portion of the script or everything, if there is no selection  
178 FROM Vehicle  
179 LEFT JOIN Lease ON Vehicle.vehicleID = Lease.vehicleID  
180 LEFT JOIN Payment ON Lease.leaseID = Payment.leaseID  
181 GROUP BY Vehicle.vehicleID, Vehicle.make, Vehicle.model, Vehicle.year, Vehicle.dailyRate, Vehicle.status,  
182  
183

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

vehicleID	make	model	year	dailyRate	status	passengerCapacity	engineCapacity	totalPayments
1	BMW	Camry	2022	50.00	1	4	1450	900
2	Ford	Civic	2023	45.00	1	7	1500	1000
3	HONDA	Focus	2022	48.00	0	4	1400	NULL
4	Nissan	Altima	2023	52.00	1	7	1200	900
5	Chevrolet	Malibu	2022	47.00	1	4	1800	60

Result 11 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Lease.vehicleID	1 row(s) returned	0.000 sec / 0.000 sec
90	17:03:16	select leaseID,leaseType FROM Lease ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
91	17:03:27	SELECT * FROM Payment WHERE transactionDate >= '2023-01-01' AND transactionDate < '2023-01-02'	7 row(s) returned	0.016 sec / 0.000 sec
92	17:03:34	SELECT C.* FROM Customer C LEFT JOIN Lease L ON C.customerID = L.customerID	2 row(s) returned	0.000 sec / 0.000 sec
93	17:03:46	SELECT Vehicle.*, SUM(Payment.amount) AS totalPayments FROM Vehicle LEFT JOIN Payment ON Vehicle.vehicleID = Payment.leaseID GROUP BY Vehicle.vehicleID, Vehicle.make, Vehicle.model, Vehicle.year, Vehicle.dailyRate, Vehicle.status	10 row(s) returned	0.000 sec / 0.000 sec

Context Help Snippets

1 17:03 13-12-2023 ENG IN

MySQL Workbench

Local instance MySQL80 ×

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No object selected

CODINGCHALLENGE4\* ×

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
182  
183  
184 -- Task 14: Calculate Total Payments for Each Customer  
185 • SELECT Customer.*, SUM(Payment.amount) AS totalPayments  
186 FROM Customer  
187 LEFT JOIN Lease ON Customer.customerID = Lease.customerID  
188 LEFT JOIN Payment ON Lease.leaseID = Payment.leaseID  
189 GROUP BY Customer.customerID, Customer.firstName, Customer.lastName;  
190
```

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

vehicleID	make	model	year	dailyRate	status	passengerCapacity	engineCapacity	totalPayments
1	BMW	Camry	2022	50.00	1	4	1450	900
2	Ford	Civic	2023	45.00	1	7	1500	1000
3	HONDA	Focus	2022	48.00	0	4	1400	NULL
4	Nissan	Altima	2023	52.00	1	7	1200	900
5	Chevrolet	Malibu	2022	47.00	1	4	1800	60
6	Hyundai	Sonata	2023	49.00	0	7	1400	NULL
7	Tesla	Model 3	2022	60.00	1	7	2400	40

Result 11 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
89	17:03:08	SELECT Vehicle.* FROM Vehicle INNER JOIN Lease ON Vehicle.vehicleID = Lease.vehicleID ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec
90	17:03:16	select leaseID,leaseType FROM Lease ORDER BY startDate DESC LIMIT 1	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 17:04 13-12-2023

MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

CODINGCHALLENGE4\*

```
200 FROM Lease
201 JOIN Customer ON Lease.customerID = Customer.customerID
202 JOIN Vehicle ON Lease.vehicleID = Vehicle.vehicleID;
203
204
205
206 -- Task 17: Find the Customer Who Has Spent the Most on Leases
207 • SELECT Customer.*, SUM(Payment.amount) AS totalPayments
208 FROM Customer
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

customerID	firstName	lastName	email	phoneNumber	totalPayments
10	Olivia	Adams	olivia@example.com	555-765-4321	1500

Result Grid Form Editor

Result 12 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
95	17:04:28	SELECT Lease, Customer, Vehicle FROM Lease JOIN Customer ON Lease.custom...	Error Code: 1054. Unknown column 'Lease' in field list'	0.000 sec
96	17:04:36	SELECT Customer.*, SUM(Payment.amount) AS totalPayments FROM Customer LE...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 17:04 13-12-2023

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

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Administration Schemas

No object selected

CODINGCHALLENGE4\*

-- Task 17: Find the Customer Who Has Spent the Most on Leases

```
206 -- Task 17: Find the Customer Who Has Spent the Most on Leases
207 • SELECT Customer.*, SUM(Payment.amount) AS totalPayments
208 FROM Customer
209 LEFT JOIN Lease ON Customer.customerID = Lease.customerID
210 LEFT JOIN Payment ON Lease.leaseID = Payment.leaseID
211 GROUP BY Customer.customerID, Customer.firstName, Customer.lastName, Customer.email, Customer.phoneNumber
212 ORDER BY totalPayments DESC
213 LIMIT 1;
214
```

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

customerID	firstName	lastName	email	phoneNumber	totalPayments
10	Olivia	Adams	olivia@example.com	555-765-4321	1500

Result 12 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch	
✖	95	17:04:28	SELECT Lease, Customer, Vehicle FROM Lease JOIN Customer ON Lease.customerID = Customer.customerID	Error Code: 1054. Unknown column 'Lease' in field list	0.000 sec
✓	96	17:04:36	SELECT Customer.*, SUM(Payment.amount) AS totalPayments FROM Customer LEFT JOIN Lease ON Customer.customerID = Lease.customerID LEFT JOIN Payment ON Lease.leaseID = Payment.leaseID GROUP BY Customer.customerID, Customer.firstName, Customer.lastName, Customer.email, Customer.phoneNumber ORDER BY totalPayments DESC LIMIT 1;	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 ENG IN 17:04 13-12-2023

SQLAdditions

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MySQL Workbench

Local instance MySQL80 x

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Administration Schemas

No object selected

CODINGCHALLENGE4\*

```
212 ORDER BY totalPayments DESC
213 LIMIT 1;
214
215
216
217 -- Task 18: List All Cars with Their Current Lease Information
218 • SELECT Vehicle, Lease
219 FROM Vehicle
220 LEFT JOIN Lease ON Vehicle.vehicleID = Lease.vehicleID;
```

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

customerID	firstName	lastName	email	phoneNumber	totalPayments
10	Olivia	Adams	olivia@example.com	555-765-4321	1500

Result 12 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✖	95 17:04:28	SELECT Lease, Customer, Vehicle FROM Lease JOIN Customer ON Lease.customerID = Customer.customerID;	Error Code: 1054. Unknown column 'Lease' in field list'	0.000 sec
✓	96 17:04:36	SELECT Customer.*, SUM(Payment.amount) AS totalPayments FROM Customer LEFT JOIN Payment ON Customer.customerID = Payment.customerID GROUP BY Customer.customerID;	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

ENG IN 17:04 13-12-2023

1 23