

1. Update the daily rate for a Mercedes car to 68.

```

104 • UPDATE Vehicle
105     SET dailyRate = 68.00
106     WHERE make = 'Mercedes';
107
108 • SELECT * FROM Vehicle;
109

```

vehicleID	make	model	year	dailyRate	status	passengerCapacity	engineCapacity
1	Toyota	Camry	2022	50.00	available	5	2.50
2	Honda	Civic	2023	48.00	available	4	1.80
3	Ford	Focus	2022	55.00	available	4	2.00
4	Nissan	Altima	2023	54.00	notAvailable	5	2.50
5	Chevrolet	Malibu	2022	49.00	available	5	1.50
6	Hyundai	Sonata	2023	52.00	available	4	2.40
7	BMW	3 Series	2022	58.00	available	5	2.00
8	Audi	A4	2023	55.00	available	4	2.00
9	Lexus	ES	2022	54.00	available	5	3.50
10	Mercedes	C-Class	2023	68.00	available	5	3.00
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2. Delete a specific customer and all associated leases and payments

```

110 • DELETE FROM Lease
111     WHERE customerID = 3;
112
113 • DELETE FROM Payment
114     WHERE leaseID IN (SELECT leaseID FROM Lease WHERE customerID = 3);
115
116 • DELETE FROM Customer
117     WHERE customerID = 3;
118 • SELECT * FROM Customer;

```

customerID	firstName	lastName	email	phoneNumber
1	John	Doe	johndoe@example.com	555-555-5555
2	Jane	Smith	janesmith@example.com	555-123-4567
4	Sarah	Brown	sarah@example.com	555-456-7890
5	David	Lee	david@example.com	555-987-6543
6	Laura	Hall	laura@example.com	555-234-5678
7	Michael	Davis	michael@example.com	555-876-5432
8	Emma	Wilson	emma@example.com	555-432-1098
9	William	Taylor	william@example.com	555-321-6547
10	Olivia	Adams	olivia@example.com	555-765-4321
*	NULL	NULL	NULL	NULL

3. Rename the "paymentDate" column in the Payment table to "transactionDate"

```
120 • ALTER TABLE Payment
121     RENAME COLUMN paymentDate TO transactionDate;
122
123 • SELECT * FROM Payment;
124
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
paymentID	leaseID	transactionDate	amount	
1	1	2023-01-03	200.00	
2	2	2023-02-20	1000.00	
3	3	2023-03-12	75.00	
4	4	2023-04-25	900.00	
5	4	2023-05-07	60.00	
6	6	2023-06-18	1200.00	
7	7	2023-07-03	40.00	
8	8	2023-08-14	1100.00	
9	8	2023-09-09	80.00	
10	8	2023-10-25	1500.00	
NULL	NULL	NULL	NULL	

4. Find a specific customer by email.

```
125 • SELECT *
126     FROM Customer
127     WHERE email = 'johndoe@example.com';
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
customerID	firstName	lastName	email	phoneNumber
1	John	Doe	johndoe@example.com	555-555-5555
NULL	NULL	NULL	NULL	NULL

5. Get active leases for a specific customer.

```
129 • SELECT *
130     FROM Lease
131     WHERE customerID = 5 AND endDate >= '2023-12-10';
132
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	leaseID	vehideID	customerID	startDate	endDate	type
*	NULL	NULL	NULL	NULL	NULL	NULL

6. Find all payments made by a customer with a specific phone number.

```
133 • SELECT *
134 FROM Payment
135 INNER JOIN Lease ON Lease.leaseID = Payment.leaseID
136 INNER JOIN Customer ON Customer.customerID = Lease.customerID
137 WHERE Customer.phoneNumber = '555-123-4567';
138
```

paymentID	leaseID	transactionDate	amount	leaseID	vehicleID	customerID	startDate	endDate	type	customerID	firstName	lastName	email
2	2	2023-02-20	1000.00	2	2	2	2023-02-15	2023-02-28	Monthly	2	Jane	Smith	janesmith@example.com

7. Calculate the average daily rate of all available cars

```
139 • SELECT AVG(dailyRate)
140 FROM Vehicle
141 WHERE status = 'available';
...
```

---

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

	AVG(dailyRate)
▶	54.333333

8. Find the car with the highest daily rate

[illegible]

9. Retrieve all cars leased by a specific customer.

```
148 • SELECT *
149 FROM Vehicle
150 INNER JOIN Lease ON Lease.vehicleID = Vehicle.vehicleID
151 WHERE Lease.customerID = 3;
```

Result Grid															Filter Rows: <input type="text"/>		Export:	Wrap Cell Content: <input type="text" value="F"/>	
	vehideID	make	model	year	dailyRate	status	passengerCapacity	engineCapacity	leaseID	vehideID	customerID	startDate	endDate	type					

10. Find the details of the most recent lease.

```
153 • SELECT *
154 FROM Lease
155 ORDER BY leaseID DESC
156 LIMIT 1;
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:	Fetch rows:
leaseID	vehicleID	customerID	startDate	endDate	type
10	2	7	2023-09-07	2023-10-10	Monthly
NULL	NULL	NULL	NULL	NULL	NULL

11. List all payments made in the year 2023

```
158 • SELECT *
159 FROM Payment
160 WHERE YEAR(transactionDate) = 2023;
```

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
	paymentID	leaseID	transactionDate	amount					
▶	1	1	2023-01-03	200.00					
	2	2	2023-02-20	1000.00					
	3	3	2023-03-12	75.00					
	4	4	2023-04-25	900.00					
	5	4	2023-05-07	60.00					
	6	6	2023-06-18	1200.00					
	7	7	2023-07-03	40.00					
	8	8	2023-08-14	1100.00					
	9	8	2023-09-09	80.00					
	10	8	2023-10-25	1500.00					
▲	NULL	NULL	NULL	NULL					

12. Retrieve customers who have not made any payments

```

162 • SELECT *
163 FROM Customer
164 WHERE customerID NOT IN (SELECT customerID FROM Lease);
165

```

customerID	firstName	lastName	email	phoneNumber
8	Emma	Wilson	emma@example.com	555-432-1098
9	William	Taylor	william@example.com	555-321-6547
10	Olivia	Adams	olivia@example.com	555-765-4321
NULL	NULL	NULL	NULL	NULL

13. Retrieve Car Details and Their Total Payments

```

167 • SELECT v.model, v.make, v.dailyRate, SUM(p.amount) AS total_payments
168 FROM Vehicle v
169 INNER JOIN Lease l ON l.vehicleID = v.vehicleID
170 INNER JOIN Payment p ON p.leaseID = l.leaseID
171 GROUP BY v.model, v.make, v.dailyRate;
172

```

model	make	dailyRate	total_payments
Camry	Toyota	50.00	200.00
Civic	Honda	48.00	1000.00
Altima	Nissan	54.00	960.00
3 Series	BMW	58.00	40.00
A4	Audi	55.00	2680.00

14. Calculate Total Payments for Each Customer.

```

173 • SELECT c.firstName, c.lastName, SUM(p.amount) AS total_payments
174 FROM Customer c
175 INNER JOIN Lease l ON l.customerID = c.customerID
176 INNER JOIN Payment p ON p.leaseID = l.leaseID
177 GROUP BY c.firstName, c.lastName;

```

firstName	lastName	total_payments
John	Doe	1160.00
Jane	Smith	1000.00
Sarah	Brown	40.00
David	Lee	2680.00



## 15. List Car Details for Each Lease

```
179 • SELECT l.startDate, l.endDate, v.model, v.make, v.dailyRate
180 FROM Lease l
181 INNER JOIN Vehicle v ON v.vehicleID = l.vehicleID;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	startDate	endDate	model	make	dailyRate
▶	2023-01-01	2023-01-05	Camry	Toyota	50.00
	2023-02-15	2023-02-28	Civic	Honda	48.00
	2023-04-20	2023-04-30	Altima	Nissan	54.00
	2023-05-05	2023-05-10	Malibu	Chevrolet	49.00
	2023-07-01	2023-08-12	3 Series	BMW	58.00
	2023-07-10	2023-08-15	A4	Audi	55.00
	2023-09-07	2023-09-10	Camry	Toyota	50.00
	2023-09-07	2023-10-10	Civic	Honda	48.00

## 16. Retrieve Details of Active Leases with Customer and Car Information.

```
182
183 • SELECT l.startDate, l.endDate, c.firstName, c.lastName, v.model, v.make, v.dailyRate
184 FROM Lease l
185 INNER JOIN Vehicle v ON v.vehicleID = l.vehicleID
186 INNER JOIN Customer c ON c.customerID = l.customerID
187 WHERE l.endDate >= '2023-12-10';
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

startDate	endDate	firstName	lastName	model	make	dailyRate
-----------	---------	-----------	----------	-------	------	-----------

## 17. Find the Customer Who Has Spent the Most on Leases

```
188
189 • SELECT c.firstName, c.lastName, SUM(p.amount) AS total_spent
190 FROM Customer c
191 INNER JOIN Lease l ON l.customerID = c.customerID
192 INNER JOIN Payment p ON p.leaseID = l.leaseID
193 GROUP BY c.firstName, c.lastName
194 ORDER BY total_spent DESC
195 LIMIT 1;
196
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	firstName	lastName	total_spent
	David	Lee	2680.00

## 18. List All Cars with Their Current Lease Information

```
196
197 • SELECT v.model, v.make, v.dailyRate, l.startDate, l.endDate, c.firstName, c.lastName
198 FROM Vehicle v
199 LEFT JOIN Lease l ON l.vehicleID = v.vehicleID
200 LEFT JOIN Customer c ON c.customerID = l.customerID
201 WHERE l.endDate >= '2023-12-10';
202
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

model	make	dailyRate	startDate	endDate	firstName	lastName
-------	------	-----------	-----------	---------	-----------	----------