```
mysql> UPDATE vehicle SET Dailyrate = 68.00 WHERE make = 'Mercedes';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from vehicle;
+------------+-----------+----------+------+-----------+----------------+-------------------+----------------+
| vechicleID | make      | model    | year | Dailyrate | status         | passengercapacity | enginecapacity |
+------------+-----------+----------+------+-----------+----------------+-------------------+----------------+
|          1 | Toyato    | Camry    | 2022 |        50 | 0x01           |                 4 |           1450 |
|          2 | Honda     | Civic    | 2023 |        45 | 0x01           |                 7 |           1500 |
|          3 | Ford      | Focus    | 2022 |        48 | 0x00           |                 4 |           1400 |
|          4 | Nissan    | Altima   | 2023 |        52 | 0x01           |                 7 |           1200 |
|          5 | Chevrolet | Malibu   | 2022 |        47 | 0x01           |                 4 |           1800 |
|          6 | Hyundai   | Sonata   | 2023 |        49 | 0x00           |                 7 |           1400 |
|          7 | BMW       | 3 Series | 2023 |        60 | 0x01           |                 7 |           2499 |
|          8 | Mercedes  | C-Class  | 2022 |        68 | 0x01           |                 8 |           2599 |
|          9 | Audi      | A4       | 2022 |        55 | 0x00           |                 4 |           2500 |
|         10 | Lexus     | ES       | 2023 |        54 | 0x01           |                 4 |           2500 |
+------------+-----------+----------+------+-----------+----------------+-------------------+----------------+
10 rows in set (0.00 sec)
```

```
74 •    DELETE FROM Payment
75      WHERE leaseID IN (SELECT leaseID FROM Lease WHERE customerID = 1);
76
77 •    select * from payment;
78
```

Result Grid | Filter Rows: | Edit: | Export/Import:

paymentid	leaseid	paymentdate	amount
2	2	2023-02-20	1000
3	3	2023-03-12	75
4	4	2023-04-25	900
5	5	2023-05-07	60
6	6	2023-06-18	1200
7	7	2023-07-03	40
8	8	2023-08-14	1100
9	9	2023-09-09	80
10	10	2023-10-25	1500
NULL	NULL	NULL	NULL

```
79 •  DELETE FROM Lease
80    WHERE customerID = 1;
81
82 •  select * from lease;
83
```

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

leaseid	vehicleID	customerid	startdate	enddate	leasetype
2	2	2	2023-02-15	2023-02-28	Monthly
3	3	3	2023-03-10	2023-03-15	Daily
4	4	4	2023-04-20	2023-04-30	Monthly
5	5	5	2023-05-05	2023-05-10	Daily
6	4	3	2023-06-15	2023-06-30	Monthly
7	7	7	2023-07-01	2023-07-10	Daily
8	8	8	2023-08-12	2023-08-15	Monthly
9	3	3	2023-09-07	2023-09-10	Daily
10	10	10	2023-10-10	2023-10-31	Monthly
NULL	NULL	NULL	NULL	NULL	NULL

```
79 •  DELETE FROM Customer
80    WHERE customerID = 1;
81
82 •  select * from customer;
83
```

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

customerid	firstname	lastname	email	phonenumber
2	Jane	Smith	janesmith@example.com	555-123-4567
3	Robert	Johnson	robert@example.com	555-789-1234
4	Sarah	Brown	sarahe@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	NULL

```
112     /*    3    */
113
114 •   alter table Payment
115     rename column paymentDate to transactionDate;
116
117 •   select * from payment;
118
```

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

paymentid	leaseid	transactionDate	amount
1	1	2023-01-03	200
2	2	2023-02-20	1000
3	3	2023-03-12	75
4	4	2023-04-25	900
5	5	2023-05-07	60
6	6	2023-06-18	1200
7	7	2023-07-03	40

payment 16 ×

```
121 •   select *
122     from Customer
123     where email = 'johndoe@example.com';
124
```

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

```
130     /*5. Get active leases for a specific customer. */
131
132 •   select Lease.*, Vehicle.make, Vehicle.model from Lease join Vehicle on Lease.vehicleID = Vehicle.vehicleID
133     where Lease.customerID = 3 and Lease.endDate >= CURDATE();
```

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

leaseid	vehicleID	customerid	startdate	enddate	leasetype	make	model

```
133 •    select Payment.*
134      from Payment
135      join Lease on Payment.leaseID = Lease.leaseID
136      join Customer on Lease.customerID = Customer.customerID
137      WHERE Customer.phoneNumber = '555-987-6543';
138
```

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

	paymentid	leaseid	transactionDate	amount
▶	5	5	2023-05-07	60

```
139     /*    7    */
140
141 •   select avg(dailyRate) as average_daily_rate
142     from Vehicle
143     where status = 'available';
144
```

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

	average_daily_rate
▶	50.6667

```
145     /*    8    */
146
147 •   select *
148     from Vehicle
149     order by dailyRate desc
150     limit 1;
```

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

vechicleID	make	model	year	Dailyrate	status	passengercapacity	enginecapacity
8	Mercedes	C-Class	2022	68	1	8	2599
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
140     /*    9    */
141
142 •   SELECT vehicle.*
143     FROM vehicle
144     JOIN Lease ON vehicle.vehicleID = Lease.vehicleID
145     WHERE Lease.customerID = '2';
146
```

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

vehicleid	make	model	year	Dailyrate	status	passengercapacity	enginecapacity
2	Honda	Civic	2023	45	1	7	1500

```
147     /*    10    */
148
149 •   SELECT Lease.*, Vehicle.make, Vehicle.model
150     FROM Lease
151     JOIN Vehicle ON Lease.vehicleID = Vehicle.vehicleID
152     ORDER BY Lease.startDate DESC
153     LIMIT 1;
154
```

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

leaseid	vehicleID	customerid	startdate	enddate	leasetype	make	model
10	10	10	2023-10-10	2023-10-31	Monthly	Lexus	ES

```
155     /*    11    */
156
157 •   select *
158     from Payment
159     where year(transactionDate) = 2023;
```

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

paymentid	leaseid	transactionDate	amount
1	1	2023-01-03	200
2	2	2023-02-20	1000
3	3	2023-03-12	75
4	4	2023-04-25	900
5	5	2023-05-07	60
6	6	2023-06-18	1200
7	7	2023-07-03	40
8	8	2023-08-14	1100
9	9	2023-09-09	80
10	10	2023-10-25	1500
NULL	NULL	NULL	NULL

```
161     /*    12    */
162
163 •   select Customer.* from Customer left join Payment on Customer.customerID = Payment.leaseid WHERE Payment.leaseID is null;
164
```

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

customerid	firstname	lastname	email	phonenumber

```
165     /*    13    */
166
167 •   select Vehicle.vehicleID,Vehicle.make,Vehicle.model,SUM(Payment.amount) as total_payments
168     from Vehicle join Lease on Vehicle.vehicleID = Lease.vehicleID
169     join Payment on Lease.leaseID = Payment.leaseID
170     group by Vehicle.vehicleID, Vehicle.make, Vehicle.model;
171
```

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

vehicleID	make	model	total_payments
1	Toyato	Camry	200
2	Honda	Civic	1000
3	Ford	Focus	155
4	Nissan	Altima	2100
5	Chevrolet	Malibu	60

```sql
/*    13    */

select Customer.customerID,Customer.firstName,Customer.lastName,SUM(Payment.amount) AS total_payments
from Customer
join Lease on Customer.customerID = Lease.customerID
join Payment on Lease.leaseID = Payment.leaseID
group by Customer.customerID;

```

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

customerID	firstName	lastName	total_payments
1	John	Doe	200
2	Jane	Smith	100
3	Robert	Johnson	1355
4	Sarah	Brown	900
5	David	Lee	60
7	Michael	Davis	40
8	Emma	Wilson	1100
10	Olivia	Adams	1500

1000

```
180     /*    15    */
181
182 •   select Lease.*, Vehicle.make, Vehicle.model from Lease join Vehicle on Lease.vehicleID = Vehicle.vehicleID;
183
```

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

leaseid	vehicleID	customerid	startdate	enddate	leasetype	make	model
1	1	1	2023-01-01	2023-01-05	Daily	Toyato	Camry
2	2	2	2023-02-15	2023-02-28	Monthly	Honda	Civic
3	3	3	2023-03-10	2023-03-15	Daily	Ford	Focus
4	4	4	2023-04-20	2023-04-30	Monthly	Nissan	Altima
5	5	5	2023-05-05	2023-05-10	Daily	Chevrolet	Malibu
6	4	3	2023-06-15	2023-06-30	Monthly	Nissan	Altima
7	7	7	2023-07-01	2023-07-10	Daily	BMW	3 Series
8	8	8	2023-08-12	2023-08-15	Monthly	Mercedes	C-Class
9	3	3	2023-09-07	2023-09-10	Daily	Ford	Focus
10	10	10	2023-10-10	2023-10-31	Monthly	Lexus	ES

```
184     /*    16    */
185
186 •   select Lease.*,Customer.firstName,Customer.lastName,Vehicle.make,Vehicle.model
187     from Lease
188     join Customer on Lease.customerID = Customer.customerID
189     join Vehicle on Lease.vehicleID = Vehicle.vehicleID
190     where Lease.endDate >= curdate();
```

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

leaseid	vehicleID	customerid	startdate	enddate	leasetype	firstName	lastName	make	model

```
192     /*    17    */
193
194 •   select Customer.customerID,Customer.firstName,Customer.lastName,SUM(Payment.amount) AS total_spent
195     from Customer
196     join Lease on Customer.customerID = Lease.customerID
197     join Payment on Lease.leaseID = Payment.leaseID
198     group by Customer.customerID
199     order by total_spent desc limit 1;
```

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

customerID	firstName	lastName	total_spent
10	Olivia	Adams	1500

```
201     /*    18    */
202
203 •   select vehicle.vehicleid,Vehicle.make,vehicle.model,Lease.startDate as leaseStartDate,Lease.endDate
204     as leaseEndDate,Lease.customerID as leaseCustomerID from Vehicle
205     left join Lease on Vehicle.vehicleID = Lease.vehicleID and Lease.endDate >= CURDATE();
```

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

vehicleid	make	model	leaseStartDate	leaseEndDate	leaseCustomerID
1	Toyato	Camry	NULL	NULL	NULL
2	Honda	Civic	NULL	NULL	NULL
3	Ford	Focus	NULL	NULL	NULL
4	Nissan	Altima	NULL	NULL	NULL
5	Chevrolet	Malibu	NULL	NULL	NULL
6	Hyundai	Sonata	NULL	NULL	NULL
7	BMW	3 Series	NULL	NULL	NULL
8	Mercedes	C-Class	NULL	NULL	NULL
9	Audi	A4	NULL	NULL	NULL
10	Lexus	ES	NULL	NULL	NULL