

```
addweb@LP-48:~$ /opt/lampp/bin/mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 330
Server version: 10.4.21-MariaDB Source distribution
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]> show databases;
```

```
+-----+
| Database      |
+-----+
| 29Oct21       |
| Admin         |
| Fruitikha     |
| Riya          |
| information_schema |
| mysql         |
| performance_schema |
| phpmyadmin    |
| test         |
+-----+
```

9 rows in set (0.001 sec)

```
MariaDB [(none)]> create database practice;
Query OK, 1 row affected (0.001 sec)
```

```
MariaDB [(none)]> use practice;
Database changed
```

```
MariaDB [practice]> MariaDB [practice]> create table Customer(id int,cname varchar(50),contact
bigint(20),city varchar(50),pincode bigint(20),country varchar(20),PRIMARY KEY(id));
Query OK, 0 rows affected (0.175 sec)
```

```
MariaDB [practice]> insert into Customer values(1,'riya',9876543210,'chittor',312622,'India');
Query OK, 1 row affected (0.036 sec)
```

```
MariaDB [practice]> insert into Customer values(2,'avni',9887897685,'berlin',12777,'germany');
Query OK, 1 row affected (0.032 sec)
```

```
MariaDB [practice]> insert into Customer
values(3,'shreyanshi',9887897685,'mexico',05021,'Mexico');
Query OK, 1 row affected (0.033 sec)
```

```
MariaDB [practice]> insert into Customer values(4,'shriya',9988776655,'london',05021,'UK');
Query OK, 1 row affected (0.026 sec)
```

```
MariaDB [practice]> insert into Customer
values(5,'anjani',9898767654,'ahmedabad',380009,'india');
Query OK, 1 row affected (0.027 sec)
```

MariaDB [practice]> insert into Customer values(6,'kajal',98765432,'london',00521,'UK');  
Query OK, 1 row affected (0.048 sec)

MariaDB [practice]> select \* from Customer;

id	cname	contact	city	pincode	country
1	riya	9876543210	chittor	312622	India
2	avni	9887897685	berlin	12777	germany
3	shreyanshi	9887897685	mexico	5021	Mexico
4	shriya	9988776655	london	5021	UK
5	anjani	9898767654	ahmedabad	380009	india
6	kajal	98765432	london	521	UK

6 rows in set (0.001 sec)

MariaDB [practice]> select distinct country from Customer ;

country
India
germany
Mexico
UK

4 rows in set (0.001 sec)

MariaDB [practice]> select count(distinct country) from Customer ;

count(distinct country)
4

1 row in set (0.001 sec)

MariaDB [practice]> select \* from Customer where country='India';

id	cname	contact	city	pincode	country
1	riya	9876543210	chittor	312622	India
5	anjani	9898767654	ahmedabad	380009	india

2 rows in set (0.001 sec)

MariaDB [practice]> select \* from Customer where country = 'India' and city='ahmedabad';

id	cname	contact	city	pincode	country
5	anjani	9898767654	ahmedabad	380009	india

1 row in set (0.001 sec)

MariaDB [practice]> select \* from Customer where country='india' or country='uk';

```
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country |
+---+-----+-----+-----+-----+-----+
| 1 | riya | 9876543210 | chittor | 312622 | India |
| 4 | shriya | 9988776655 | london | 5021 | UK |
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india |
| 6 | kajal | 98765432 | london | 521 | UK |
+---+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

MariaDB [practice]> select \* from Customer where not country='india';

```
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country |
+---+-----+-----+-----+-----+-----+
| 2 | avni | 9887897685 | berlin | 12777 | germany |
| 3 | shreyanshi | 9887897685 | mexico | 5021 | Mexico |
| 4 | shriya | 9988776655 | london | 5021 | UK |
| 6 | kajal | 98765432 | london | 521 | UK |
+---+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

MariaDB [practice]> select \* from Customer order by country;

```
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country |
+---+-----+-----+-----+-----+-----+
| 2 | avni | 9887897685 | berlin | 12777 | germany |
| 1 | riya | 9876543210 | chittor | 312622 | India |
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india |
| 3 | shreyanshi | 9887897685 | mexico | 5021 | Mexico |
| 4 | shriya | 9988776655 | london | 5021 | UK |
| 6 | kajal | 98765432 | london | 521 | UK |
+---+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

MariaDB [practice]> select \* from Customer order by country desc;

```
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country |
+---+-----+-----+-----+-----+-----+
| 4 | shriya | 9988776655 | london | 5021 | UK |
| 6 | kajal | 98765432 | london | 521 | UK |
| 3 | shreyanshi | 9887897685 | mexico | 5021 | Mexico |
| 1 | riya | 9876543210 | chittor | 312622 | India |
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india |
| 2 | avni | 9887897685 | berlin | 12777 | germany |
+---+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

MariaDB [practice]> select \* from Customer order by country, cname;

```
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country |
+---+-----+-----+-----+-----+-----+
```

```
| 2 | avni      | 9887897685 | berlin  | 12777 | germany |
| 5 | anjani     | 9898767654 | ahmedabad | 380009 | india   |
| 1 | riya       | 9876543210 | chittor | 312622 | India   |
| 3 | shreyanshi | 9887897685 | mexico  | 5021   | Mexico  |
| 6 | kajal      | 98765432   | london  | 521    | UK      |
| 4 | shriya     | 9988776655 | london  | 5021   | UK      |
+---+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

MariaDB [practice]> select \* from Customer order by country asc, cname desc;

```
+---+-----+-----+-----+-----+-----+
| id | cname      | contact    | city    | pincode | country |
+---+-----+-----+-----+-----+-----+
| 2 | avni       | 9887897685 | berlin  | 12777   | germany |
| 1 | riya       | 9876543210 | chittor | 312622  | India   |
| 5 | anjani     | 9898767654 | ahmedabad | 380009 | india   |
| 3 | shreyanshi | 9887897685 | mexico  | 5021    | Mexico  |
| 4 | shriya     | 9988776655 | london  | 5021    | UK      |
| 6 | kajal      | 98765432   | london  | 521     | UK      |
+---+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

MariaDB [practice]> update Customer set city='berlin', country='germany' where id=3;

Query OK, 1 row affected (0.030 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> delete from Customer where id=1;

Query OK, 1 row affected (0.030 sec)

MariaDB [practice]> select \* from Customer limit 3;

```
+---+-----+-----+-----+-----+-----+
| id | cname      | contact    | city    | pincode | country |
+---+-----+-----+-----+-----+-----+
| 2 | avni       | 9887897685 | berlin  | 12777   | germany |
| 3 | shreyanshi | 9887897685 | berlin  | 5021    | germany |
| 4 | shriya     | 9988776655 | london  | 5021    | UK      |
+---+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

MariaDB [practice]> ALTER TABLE Customer ADD bill\_amount bigint(40) NOT NULL AFTER country;

Query OK, 0 rows affected (0.064 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [practice]> select \* from Customer;

```
+---+-----+-----+-----+-----+-----+-----+
| id | cname      | contact    | city    | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+-----+
| 2 | avni       | 9887897685 | berlin  | 12777   | germany | 0           |
| 3 | shreyanshi | 9887897685 | berlin  | 5021    | germany | 0           |
| 4 | shriya     | 9988776655 | london  | 5021    | UK      | 0           |
| 5 | anjani     | 9898767654 | ahmedabad | 380009 | india   | 0           |
```

6	kajal	98765432	london	521	UK	0
---	-------	----------	--------	-----	----	---

5 rows in set (0.001 sec)

MariaDB [practice]> update Customer set bill\_amount=2500 where id=2;  
Query OK, 1 row affected (0.037 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> update Customer set bill\_amount=2000 where id=3;  
Query OK, 1 row affected (0.037 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> update Customer set bill\_amount=3000 where id=4;  
Query OK, 1 row affected (0.039 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> update Customer set bill\_amount=3300 where id=5;  
Query OK, 1 row affected (0.041 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> update Customer set bill\_amount=3500 where id=6;  
Query OK, 1 row affected (0.033 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [practice]> select \* from Customer;

id	cname	contact	city	pincode	country	bill_amount
2	avni	9887897685	berlin	12777	germany	2500
3	shreyanshi	9887897685	berlin	5021	germany	2000
4	shriya	9988776655	london	5021	UK	3000
5	anjani	9898767654	ahmedabad	380009	india	3300
6	kajal	98765432	london	521	UK	3500

5 rows in set (0.001 sec)

MariaDB [practice]> select max(bill\_amount) from Customer;

max(bill_amount)
3500

1 row in set (0.001 sec)

MariaDB [practice]> select min(bill\_amount) from Customer;

min(bill_amount)
2000

1 row in set (0.001 sec)

MariaDB [practice]> select avg(bill\_amount) from Customer;

```
+-----+
| avg(bill_amount) |
+-----+
|      2860.0000 |
+-----+
```

1 row in set (0.001 sec)

MariaDB [practice]> select sum(bill\_amount) from Customer;

```
+-----+
| sum(bill_amount) |
+-----+
|          14300 |
+-----+
```

1 row in set (0.001 sec)

MariaDB [practice]> select \* from Customer where cname like '%i%';

```
+---+-----+-----+-----+-----+-----+-----+
| id | cname   | contact | city   | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+-----+
| 2 | avni    | 9887897685 | berlin | 12777 | germany | 2500 |
| 3 | shreyanshi | 9887897685 | berlin | 5021 | germany | 2000 |
| 4 | shriya  | 9988776655 | london | 5021 | UK      | 3000 |
| 5 | anjani  | 9898767654 | ahmedabad | 380009 | india  | 3300 |
+---+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.001 sec)

MariaDB [practice]> select \* from Customer where country like '%er%';

```
+---+-----+-----+-----+-----+-----+-----+
| id | cname   | contact | city   | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+-----+
| 2 | avni    | 9887897685 | berlin | 12777 | germany | 2500 |
| 3 | shreyanshi | 9887897685 | berlin | 5021 | germany | 2000 |
+---+-----+-----+-----+-----+-----+-----+
```

2 rows in set (0.001 sec)

MariaDB [practice]> select \* from Customer where country like '\_nd\_a';

```
+---+-----+-----+-----+-----+-----+-----+
| id | cname   | contact | city   | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+-----+
| 5 | anjani  | 9898767654 | ahmedabad | 380009 | india  | 3300 |
+---+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.000 sec)

MariaDB [practice]> select \* from Customer where country in ('germany','UK');

```
+---+-----+-----+-----+-----+-----+-----+
| id | cname   | contact | city   | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+-----+
| 2 | avni    | 9887897685 | berlin | 12777 | germany | 2500 |
| 3 | shreyanshi | 9887897685 | berlin | 5021 | germany | 2000 |
| 4 | shriya  | 9988776655 | london | 5021 | UK      | 3000 |
+---+-----+-----+-----+-----+-----+-----+
```

```
| 6 | kajal | 98765432 | london | 521 | UK | 3500 |
+---+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [practice]> select * from Customer where country not in ('germany','UK');
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india | 3300 |
+---+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [practice]> select * from Customer where bill_amount between 2000 and 3000;
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+
| 2 | avni | 9887897685 | berlin | 12777 | germany | 2500 |
| 3 | shreyanshi | 9887897685 | berlin | 5021 | germany | 2000 |
| 4 | shriya | 9988776655 | london | 5021 | UK | 3000 |
+---+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [practice]> select * from Customer where bill_amount not between 2000 and 3000;
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india | 3300 |
| 6 | kajal | 98765432 | london | 521 | UK | 3500 |
+---+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [practice]> select * from Customer where bill_amount between 2000 and 3000 and id not
in(1,3,5);
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+
| 2 | avni | 9887897685 | berlin | 12777 | germany | 2500 |
| 4 | shriya | 9988776655 | london | 5021 | UK | 3000 |
+---+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [practice]> select * from Customer where bill_amount not between 2000 and 3000 order
by cname;
+---+-----+-----+-----+-----+-----+
| id | cname | contact | city | pincode | country | bill_amount |
+---+-----+-----+-----+-----+-----+
| 5 | anjani | 9898767654 | ahmedabad | 380009 | india | 3300 |
| 6 | kajal | 98765432 | london | 521 | UK | 3500 |
+---+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [practice]> select cname, concat_ws(' ',city,country,pincode) as addres from Customer;
```

```
+-----+-----+
| cname  | addres          |
+-----+-----+
| avni   | berlin, germany, 12777 |
| shreyanshi | berlin, germany, 5021  |
| shriya | london, UK, 5021      |
| anjani | ahmedabad, india, 380009 |
| kajal  | london, UK, 521       |
+-----+-----+
```

```
5 rows in set (0.001 sec)
```