

```
addweb@LP-127:~$ sudo /opt/lampp/lampp start
[sudo] password for addweb:
Starting XAMPP for Linux 8.0.11-2...
XAMPP: Starting Apache...already running.
XAMPP: Starting MySQL...already running.
XAMPP: Starting ProFTPD...already running.
addweb@LP-127:~$ /opt/lampp/bin/mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 394
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          |
+-----+
| admin_panel       |
| anjani             |
| ecommerce          |
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| queries_anjani     |
| test               |
+-----+
```

9 rows in set (0.004 sec)

```
MariaDB [(none)]> create database terminal_data
-> ;
```

Query OK, 1 row affected (0.001 sec)

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

```
+-----+
| Database          |
+-----+
| admin_panel       |
| anjani             |
| ecommerce          |
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| queries_anjani     |
| terminal_data      |
| test               |
+-----+
```

10 rows in set (0.000 sec)

```
MariaDB [(none)]> use terminal_data;
Database changed
MariaDB [terminal_data]> show tables;
Empty set (0.000 sec)
```

```
MariaDB [terminal_data]> create table student(s_id INT NOT NULL AUTO_INCREMENT,
-> s_name VARCHAR(50) NOT NULL,
-> s_email VARCHAR(50) NOT NULL,
-> s_pwd VARCHAR(10) NOT NULL,
-> PRIMARY KEY(s_id)
-> );
Query OK, 0 rows affected (0.017 sec)
```

```
MariaDB [terminal_data]> show tables;
+-----+
| Tables_in_terminal_data |
+-----+
| student                  |
+-----+
1 row in set (0.001 sec)
```

```
MariaDB [terminal_data]> INSERT INTO student(s_name,s_email,s_pwd)
VALUES('anjani','anjani@gmail.com','123');
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [terminal_data]> select * from student;
+-----+-----+-----+-----+
| s_id | s_name | s_email      | s_pwd |
+-----+-----+-----+-----+
| 1    | anjani | anjani@gmail.com | 123   |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [terminal_data]> INSERT INTO student(s_name,s_email,s_pwd)
VALUES('rakhi','rakhi@gmail.com','456');
Query OK, 1 row affected (0.004 sec)
```

```
MariaDB [terminal_data]> SELECT * FROM student WHERE s_id=
-> '1';
+-----+-----+-----+-----+
| s_id | s_name | s_email      | s_pwd |
+-----+-----+-----+-----+
| 1    | anjani | anjani@gmail.com | 123   |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [terminal_data]> select s_name from student;
+-----+
| s_name |
+-----+
| anjani |
```

```
| rakhi |
+-----+
```

2 rows in set (0.001 sec)

```
MariaDB [terminal_data]> create table customers(customerID INT NOT NULL
AUTO_INCREMENT,
-> customerName VARCHAR(50) NOT NULL,
-> contactNumber BIGINT(10) NOT NULL,
-> Address VARCHAR(100) NOT NULL,
-> City VARCHAR(30) NOT NULL,
-> PinCode BIGINT(20) NOT NULL,
-> Country VARCHAR(30) NOT NULL,
-> PRIMARY KEY(customerID) );
```

Query OK, 0 rows affected (0.012 sec)

```
MariaDB [terminal_data]> show tables;
```

```
+-----+
| Tables_in_terminal_data |
+-----+
| customers               |
| student                 |
+-----+
```

2 rows in set (0.000 sec)

```
MariaDB [terminal_data]> INSERT INTO customers(customerName, contactNumber, Address,
City, PinCode, Country) VALUES('anjani','8488057116','12
swamibapa','ahmedabad','380024','india');
Query OK, 1 row affected (0.008 sec)
```

```
MariaDB [terminal_data]> select * from customers;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india |
+-----+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.001 sec)

```
MariaDB [terminal_data]> INSERT INTO customers(customerName, contactNumber, Address,
City, PinCode, Country) VALUES('rani','8488057886','matti keskuskatu
45','helsinki','21240','finland');
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [terminal_data]> INSERT INTO customers(customerName, contactNumber, Address,
City, PinCode, Country) VALUES('rishi','8488227886','ul filtrowa 68','walla','01022','poland');
Query OK, 1 row affected (0.005 sec)
```

```
MariaDB [terminal_data]> select * from customers;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india |
+-----+-----+-----+-----+-----+-----+-----+
```

2	rani	8488057886	matti keskuskatu 45	helsinki	21240	finland
3	rishi	8488227886	ul filtrowa 68	walla	1022	poland

3 rows in set (0.001 sec)

MariaDB [terminal\_data]> select customerName, City, Country from customers;

customerName	City	Country
anjani	ahmedabad	india
rani	helsinki	finland
rishi	walla	poland

3 rows in set (0.001 sec)

MariaDB [terminal\_data]> INSERT INTO customers(customerName, contactNumber, Address, City, PinCode, Country) VALUES('rishi','8488227886','ul filtrowa 68','walla','01022','poland');  
Query OK, 1 row affected (0.004 sec)

MariaDB [terminal\_data]> select \* from customers;

customerID	customerName	contactNumber	Address	City	PinCode	Country
1	anjani	8488057116	12 swamibapa	ahmedabad	380024	india
2	rani	8488057886	matti keskuskatu 45	helsinki	21240	finland
3	rishi	8488227886	ul filtrowa 68	walla	1022	poland
4	rishi	8488227886	ul filtrowa 68	walla	1022	poland

4 rows in set (0.001 sec)

MariaDB [terminal\_data]> SELECT DISTINCT Country FROM customers;

Country
india
finland
poland

3 rows in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where Country="poland" AND City="walla";

customerID	customerName	contactNumber	Address	City	PinCode	Country
3	rishi	8488227886	ul filtrowa 68	walla	1022	poland
4	rishi	8488227886	ul filtrowa 68	walla	1022	poland

2 rows in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where Country="poland" OR City="ahmedabad";

customerID	customerName	contactNumber	Address	City	PinCode	Country
------------	--------------	---------------	---------	------	---------	---------

```
| customerID | customerName | contactNumber | Address      | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india  |
|      3 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
|      4 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers where not Country="poland";
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india  |
|      2 | rani        | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers order by Country;
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
|      2 | rani        | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
|      1 | anjani      | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india  |
|      3 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
|      4 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers order by Country desc;
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
|      3 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
|      4 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
|      1 | anjani      | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india  |
|      2 | rani        | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers order by Country, customerName;
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
|      2 | rani        | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
|      1 | anjani      | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india  |
|      3 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
|      4 | rishi       | 8488227886 | ul filtrowa 68 | walla    | 1022  | poland  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> update customers set customerName='nisha' where customerID='2';
Query OK, 1 row affected (0.003 sec)
```

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [terminal\_data]> select \* from customers;

```
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address          | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
| 1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india |
| 2 | nisha | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
| 3 | rishi | 8488227886 | ul filtrowa 68 | walla | 1022 | poland |
| 4 | rishi | 8488227886 | ul filtrowa 68 | walla | 1022 | poland |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

MariaDB [terminal\_data]> delete from customers where customerID='4';  
Query OK, 1 row affected (0.005 sec)

MariaDB [terminal\_data]> select \* from customers;

```
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address          | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
| 1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india |
| 2 | nisha | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
| 3 | rishi | 8488227886 | ul filtrowa 68 | walla | 1022 | poland |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

MariaDB [terminal\_data]> select \* from customers limit 2;

```
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address          | City   | PinCode | Country |
+-----+-----+-----+-----+-----+-----+
| 1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india |
| 2 | nisha | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

MariaDB [terminal\_data]> alter table customers add salary bigint(40) not null after Country;  
Query OK, 0 rows affected (0.008 sec)  
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [terminal\_data]> show tables;

```
+-----+
| Tables_in_terminal_data |
+-----+
| customers                |
| student                  |
+-----+
2 rows in set (0.001 sec)
```

MariaDB [terminal\_data]> select \* from customers;

```
+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address          | City   | PinCode | Country |
| salary |
+-----+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa      | ahmedabad | 380024 | india | 0 |
|      2 | nisha       | 8488057886 | matti keskuskatu 45 | helsinki  | 21240 | finland | 0 |
|      3 | rishi       | 8488227886 | ul filtrowa 68    | walla     | 1022 | poland | 0 |
+-----+-----+-----+-----+-----+-----+

```

3 rows in set (0.001 sec)

MariaDB [terminal\_data]> update customers set salary=20000 where customerID='1';  
Query OK, 1 row affected (0.004 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [terminal\_data]> update customers set salary=30000 where customerID='2';  
Query OK, 1 row affected (0.004 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [terminal\_data]> update customers set salary=25000 where customerID='3';  
Query OK, 1 row affected (0.004 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [terminal\_data]> select \* from customers;

```

+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address          | City    | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa      | ahmedabad | 380024 | india | 20000 |
|      2 | nisha       | 8488057886 | matti keskuskatu 45 | helsinki  | 21240 | finland | 30000 |
|      3 | rishi       | 8488227886 | ul filtrowa 68    | walla     | 1022 | poland | 25000 |
+-----+-----+-----+-----+-----+-----+

```

3 rows in set (0.001 sec)

MariaDB [terminal\_data]> select MIN(salary) as LowSalary from customers;

```

+-----+
| LowSalary |
+-----+
| 20000 |
+-----+

```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select MAX(salary) as HighSalary from customers;

```

+-----+
| HighSalary |
+-----+
| 30000 |
+-----+

```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select COUNT(customerID) from customers;

```

+-----+
| COUNT(customerID) |
+-----+
| 3 |
+-----+

```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select AVG(salary) from customers;

```
+-----+
| AVG(salary) |
+-----+
| 25000.0000 |
+-----+
```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select SUM(salary) from customers;

```
+-----+
| SUM(salary) |
+-----+
|      75000 |
+-----+
```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where customerName LIKE 'a%';

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+-----+
|      1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india | 20000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where customerName LIKE '%a';

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+-----+
|      2 | nisha | 8488057886 | matti keskuskatu 45 | helsinki | 21240 | finland | 30000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where customerName LIKE '\_r%';

Empty set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where City LIKE '\_h\_edabad';

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+-----+
|      1 | anjani | 8488057116 | 12 swamibapa | ahmedabad | 380024 | india | 20000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.001 sec)

MariaDB [terminal\_data]> select \* from customers where Country IN ('india','finland');

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+-----+
```



```
+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa      | ahmedabad | 380024 | india  | 20000 |
|      2 | nisha        | 8488057886 | matti keskuskatu 45 | helsinki  | 21240  | finland | 30000 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers where Country NOT IN ('india','finland');
+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      3 | rishi      | 8488227886 | ul filtrowa 68 | walla | 1022 | poland  | 25000 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [terminal_data]> select * from customers where salary BETWEEN 23000 AND 26000;
+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      3 | rishi      | 8488227886 | ul filtrowa 68 | walla | 1022 | poland  | 25000 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers where salary NOT BETWEEN 23000 AND 26000;
+-----+-----+-----+-----+-----+-----+-----+
| customerID | customerName | contactNumber | Address      | City | PinCode | Country | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      1 | anjani      | 8488057116 | 12 swamibapa      | ahmedabad | 380024 | india  | 20000 |
|      2 | nisha        | 8488057886 | matti keskuskatu 45 | helsinki  | 21240  | finland | 30000 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
MariaDB [terminal_data]> select * from customers where salary BETWEEN 23000 AND 26000
AND customerID NOT IN (1,3);
Empty set (0.000 sec)
```

```
MariaDB [terminal_data]> select customerID as ID from customers;
+----+
| ID |
+----+
| 1 |
| 2 |
| 3 |
+----+
3 rows in set (0.001 sec)
```