Setting environment for using XAMPP for Windows.

726134@128-IMAC01 c:\xampp

# mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 2

Server version: 10.1.21-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>

MariaDB [(none)]> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| performance\_schema |

| phpmyadmin |

| test |

+--------------------+

5 rows in set (0.05 sec)

MariaDB [(none)]> create database csd2204w18;

Query OK, 1 row affected (0.09 sec)

MariaDB [(none)]> use csd2204w18;

Database changed

MariaDB [csd2204w18]> CREATE TABLE `customers` (

-> `customerID` int(2) DEFAULT NULL,

-> `name` varchar(40) DEFAULT NULL,

-> `nickname` varchar(10) DEFAULT NULL,

-> `address` varchar(50) DEFAULT NULL,

-> `city` varchar(30) DEFAULT NULL,

-> `postalcode` int(6) DEFAULT NULL

-> );

Query OK, 0 rows affected (3.05 sec)

MariaDB [csd2204w18]> CREATE TABLE Persons (

-> ID integer(3) NOT NULL,

-> LastName varchar(255) NOT NULL,

-> FirstName varchar(255) NOT NULL,

-> Age integer(3),

-> UNIQUE (ID)

-> );

Query OK, 0 rows affected (4.47 sec)

MariaDB [csd2204w18]> create table CityMaster (

-> CityID integer(4) primary key,

-> cityName varchar(255) default 'toronto’

-> );

Query OK, 0 rows affected (2.45 sec)

MariaDB [csd2204w18]> create table cust as select \*

-> from customers;

Query OK, 0 rows affected (5.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> create table c like

-> customers;

Query OK, 0 rows affected (5.51 sec)

MariaDB [csd2204w18]> insert into c select \* from cust where customerID> 5;

Query OK, 0 rows affected (0.00 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> select \* from c;

Empty set (0.00 sec)

MariaDB [csd2204w18]> select \* from cust;

Empty set (0.00 sec)

MariaDB [csd2204w18]> select \* from customers;

Empty set (0.00 sec)

MariaDB [csd2204w18]> insert into customers values(1,'Ashley','Ash','32 Washington street','WDC',321200);

Query OK, 1 row affected (0.13 sec)

MariaDB [csd2204w18]> insert into customers values(2,'Bob marley','Bm','Keele street','toronto',100100);

Query OK, 1 row affected (0.16 sec)

MariaDB [csd2204w18]> insert into customers values(3,'Cherlies Theron','Cher','329 Empire state Building','north york',120134);

Query OK, 1 row affected (0.17 sec)

MariaDB [csd2204w18]> insert into customers values(4,'deniel jack','Dj','spartan Building, east','brazil',341020);

Query OK, 1 row affected (0.16 sec)

MariaDB [csd2204w18]> insert into customers values(5,'donna newman','new','250 carlson blvd','toronto',130120);

Query OK, 1 row affected (0.09 sec)

MariaDB [csd2204w18]> insert into customers values(6,'eston m.','m.','21 york. dv.','toronto',201023);

Query OK, 1 row affected (0.22 sec)

MariaDB [csd2204w18]> insert into customers values(7,'bobby chacko','chac','kennedy','new york',320300);

Query OK, 1 row affected (0.14 sec)

MariaDB [csd2204w18]> insert into customers values(8,'ashko charles','ak','washington dc','usa',421044);

Query OK, 1 row affected (0.13 sec)

MariaDB [csd2204w18]> insert into customers values(9,'tony special','specie','oakville','gta',418921);

Query OK, 1 row affected (0.15 sec)

MariaDB [csd2204w18]> insert into customers values(10,'jack sp','sparrow','oakville','gta',418921);

Query OK, 1 row affected (0.08 sec)

MariaDB [csd2204w18]> select \* from cust;

Empty set (0.00 sec)

MariaDB [csd2204w18]> insert into c select \* from cust where customerID> 5;

Query OK, 0 rows affected (0.00 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> insert into c select \* from customers where customerID> 5;

Query OK, 5 rows affected (0.14 sec)

Records: 5 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> create table c like

-> customers;

ERROR 1050 (42S01): Table 'c' already exists

MariaDB [csd2204w18]> select \* from c;

+------------+---------------+----------+---------------+----------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+---------------+----------+---------------+----------+------------+

| 6 | eston m. | m. | 21 york. dv. | toronto | 201023 |

| 7 | bobby chacko | chac | kennedy | new york | 320300 |

| 8 | ashko charles | ak | washington dc | usa | 421044 |

| 9 | tony special | specie | oakville | gta | 418921 |

| 10 | jack sp | sparrow | oakville | gta | 418921 |

+------------+---------------+----------+---------------+----------+------------+

5 rows in set (0.00 sec)

MariaDB [csd2204w18]> create table cust as select \*

-> from customers;

ERROR 1050 (42S01): Table 'cust' already exists

MariaDB [csd2204w18]> select \* from cust;

Empty set (0.00 sec)

MariaDB [csd2204w18]> insert into cust select \* from customers;;

Query OK, 10 rows affected (0.66 sec)

Records: 10 Duplicates: 0 Warnings: 0

ERROR: No query specified

MariaDB [csd2204w18]> insert into cust select \* from customers;

Query OK, 10 rows affected (0.58 sec)

Records: 10 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc Persons;

+-----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+--------------+------+-----+---------+-------+

| ID | int(3) | NO | PRI | NULL | |

| LastName | varchar(255) | NO | | NULL | |

| FirstName | varchar(255) | NO | | NULL | |

| Age | int(3) | YES | | NULL | |

+-----------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

MariaDB [csd2204w18]> show index from Persons;

+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| persons | 0 | ID | 1 | ID | A | 0 | NULL | NULL | | BTREE | | |

+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

1 row in set (0.00 sec)

MariaDB [csd2204w18]> insert into CityMaster values (1,'north york');

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> insert into Persons select \* from customers where age <18 and age>18;

ERROR 1054 (42S22): Unknown column 'age' in 'where clause'

MariaDB [csd2204w18]> insert into Persons select \* from Persons where age <18 and age>18;

Query OK, 0 rows affected (0.00 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> create table persons1(

-> ID integer(3),

-> LasteName varchar(255) NOT NULL,

-> FirstName Varchar(255),

-> Age integer(3),

-> CityID integer(4),

-> constraint pk\_persons primary key (ID),

-> constraint ck\_persons check (age>=18),

-> constraint fk\_persons foreign key (CityID)

-> references CityMaster (CityID)

-> );

Query OK, 0 rows affected (0.33 sec)

MariaDB [csd2204w18]> insert into Persons values (1,'shah','rushang',25);

Query OK, 1 row affected (0.04 sec)

MariaDB [csd2204w18]> insert into Persons values (2,'shah','rushang',15);

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> select \* from persons1;

Empty set (0.00 sec)

MariaDB [csd2204w18]> select \* from persons;

+----+----------+-----------+------+

| ID | LastName | FirstName | Age |

+----+----------+-----------+------+

| 1 | shah | rushang | 25 |

| 2 | shah | rushang | 15 |

+----+----------+-----------+------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table citymaster add column country varchar(100);

Query OK, 0 rows affected (1.60 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> alter table citymaster add column test1;

MariaDB [csd2204w18]> alter table citymaster modify column country varchar(20);

Query OK, 1 row affected (0.63 sec)

Records: 1 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc citymaster;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | | toronto | |

| country | varchar(20) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table citymaster change column country town varchar(20);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc citymaster;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | | toronto | |

| town | varchar(20) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table citymaster change column town town1 varchar(10);

Query OK, 1 row affected (3.81 sec)

Records: 1 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc citymaster;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | | toronto | |

| town1 | varchar(10) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table citymaster drop column town1;

Query OK, 0 rows affected (0.71 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc citymaster;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | | toronto | |

+----------+--------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> desc cust;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| customerID | int(2) | YES | | NULL | |

| name | varchar(40) | YES | | NULL | |

| nickname | varchar(10) | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

| city | varchar(30) | YES | | NULL | |

| postalcode | int(6) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.03 sec)

MariaDB [csd2204w18]> alter table cust add primary key (customerid);

ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

MariaDB [csd2204w18]> desc cust;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| customerID | int(2) | YES | | NULL | |

| name | varchar(40) | YES | | NULL | |

| nickname | varchar(10) | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

| city | varchar(30) | YES | | NULL | |

| postalcode | int(6) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.02 sec)

MariaDB [csd2204w18]> alter table cust add primary key (customerID);

ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

MariaDB [csd2204w18]> SELECT \* FROM CUST;

+------------+-----------------+----------+---------------------------+------------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+-----------------+----------+---------------------------+------------+------------+

| 1 | Ashley | Ash | 32 Washington street | WDC | 321200 |

| 2 | Bob marley | Bm | Keele street | toronto | 100100 |

| 3 | Cherlies Theron | Cher | 329 Empire state Building | north york | 120134 |

| 4 | deniel jack | Dj | spartan Building, east | brazil | 341020 |

| 5 | donna newman | new | 250 carlson blvd | toronto | 130120 |

| 6 | eston m. | m. | 21 york. dv. | toronto | 201023 |

| 7 | bobby chacko | chac | kennedy | new york | 320300 |

| 8 | ashko charles | ak | washington dc | usa | 421044 |

| 9 | tony special | specie | oakville | gta | 418921 |

| 10 | jack sp | sparrow | oakville | gta | 418921 |

| 1 | Ashley | Ash | 32 Washington street | WDC | 321200 |

| 2 | Bob marley | Bm | Keele street | toronto | 100100 |

| 3 | Cherlies Theron | Cher | 329 Empire state Building | north york | 120134 |

| 4 | deniel jack | Dj | spartan Building, east | brazil | 341020 |

| 5 | donna newman | new | 250 carlson blvd | toronto | 130120 |

| 6 | eston m. | m. | 21 york. dv. | toronto | 201023 |

| 7 | bobby chacko | chac | kennedy | new york | 320300 |

| 8 | ashko charles | ak | washington dc | usa | 421044 |

| 9 | tony special | specie | oakville | gta | 418921 |

| 10 | jack sp | sparrow | oakville | gta | 418921 |

+------------+-----------------+----------+---------------------------+------------+------------+

20 rows in set (0.00 sec)

MariaDB [csd2204w18]> create table temp as select \* from citymaster;

Query OK, 1 row affected (1.16 sec)

Records: 1 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | | NULL | |

| cityName | varchar(255) | YES | | toronto | |

+----------+--------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table temp add primary key (cityID);

Query OK, 0 rows affected (0.54 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | | toronto | |

+----------+--------------+------+-----+---------+-------+

2 rows in set (0.02 sec)

MariaDB [csd2204w18]> alter table temp add constraint unique (cityname);

Query OK, 0 rows affected (0.92 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityName | varchar(255) | YES | UNI | toronto | |

+----------+--------------+------+-----+---------+-------+

2 rows in set (0.02 sec)

MariaDB [csd2204w18]> alter table temp modify cityname varchar(40) not null;

Query OK, 1 row affected (1.06 sec)

Records: 1 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityname | varchar(40) | NO | UNI | NULL | |

+----------+-------------+------+-----+---------+-------+

2 rows in set (0.03 sec)

MariaDB [csd2204w18]> alter table temp modify cityname varchar(40);

Query OK, 0 rows affected (1.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityname | varchar(40) | YES | UNI | NULL | |

+----------+-------------+------+-----+---------+-------+

2 rows in set (0.02 sec)

MariaDB [csd2204w18]> desc temp;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| CityID | int(4) | NO | PRI | NULL | |

| cityname | varchar(40) | YES | UNI | NULL | |

+----------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> alter table temp modify cityid int(4);

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> alter table temp drop index CityID;

ERROR 1091 (42000): Can't DROP 'CityID'; check that column/key exists

MariaDB [csd2204w18]> show index from temp;

+-------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+-------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| temp | 0 | PRIMARY | 1 | cityid | A | 1 | NULL | NULL | | BTREE | | |

| temp | 0 | cityName | 1 | cityname | A | 1 | NULL | NULL | YES | BTREE | | |

+-------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> drop index cityid on temp;

ERROR 1091 (42000): Can't DROP 'cityid'; check that column/key exists

MariaDB [csd2204w18]> alter table temp drop CityID;

Query OK, 1 row affected (9.03 sec)

Records: 1 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]> desc temp;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| cityname | varchar(40) | YES | UNI | NULL | |

+----------+-------------+------+-----+---------+-------+

1 row in set (0.08 sec)

MariaDB [csd2204w18]> select \* from c;

+------------+---------------+----------+---------------+----------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+---------------+----------+---------------+----------+------------+

| 6 | eston m. | m. | 21 york. dv. | toronto | 201023 |

| 7 | bobby chacko | chac | kennedy | new york | 320300 |

| 8 | ashko charles | ak | washington dc | usa | 421044 |

| 9 | tony special | specie | oakville | gta | 418921 |

| 10 | jack sp | sparrow | oakville | gta | 418921 |

+------------+---------------+----------+---------------+----------+------------+

5 rows in set (0.27 sec)

MariaDB [csd2204w18]> select \* from citymaster;

+--------+------------+

| CityID | cityName |

+--------+------------+

| 1 | north york |

+--------+------------+

1 row in set (0.00 sec)

MariaDB [csd2204w18]> update c set postalcode=200000 where customerid=6;

Query OK, 1 row affected (0.20 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [csd2204w18]> update c set city=london;

ERROR 1054 (42S22): Unknown column 'london' in 'field list'

MariaDB [csd2204w18]> update c set city='london';

Query OK, 5 rows affected (0.11 sec)

Rows matched: 5 Changed: 5 Warnings: 0

MariaDB [csd2204w18]> select \* from c;

+------------+---------------+----------+---------------+--------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+---------------+----------+---------------+--------+------------+

| 6 | eston m. | m. | 21 york. dv. | london | 200000 |

| 7 | bobby chacko | chac | kennedy | london | 320300 |

| 8 | ashko charles | ak | washington dc | london | 421044 |

| 9 | tony special | specie | oakville | london | 418921 |

| 10 | jack sp | sparrow | oakville | london | 418921 |

+------------+---------------+----------+---------------+--------+------------+

5 rows in set (0.00 sec)

MariaDB [csd2204w18]> delete from c where customerid=7;

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> select \* from c;

+------------+---------------+----------+---------------+--------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+---------------+----------+---------------+--------+------------+

| 6 | eston m. | m. | 21 york. dv. | london | 200000 |

| 8 | ashko charles | ak | washington dc | london | 421044 |

| 9 | tony special | specie | oakville | london | 418921 |

| 10 | jack sp | sparrow | oakville | london | 418921 |

+------------+---------------+----------+---------------+--------+------------+

4 rows in set (0.00 sec)

MariaDB [csd2204w18]> delete from c where nickname like 's%';

Query OK, 2 rows affected (0.05 sec)

MariaDB [csd2204w18]> select \* from c;

+------------+---------------+----------+---------------+--------+------------+

| customerID | name | nickname | address | city | postalcode |

+------------+---------------+----------+---------------+--------+------------+

| 6 | eston m. | m. | 21 york. dv. | london | 200000 |

| 8 | ashko charles | ak | washington dc | london | 421044 |

+------------+---------------+----------+---------------+--------+------------+

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> delete from persons1;

Query OK, 0 rows affected (0.03 sec)

MariaDB [csd2204w18]> desc person1;

ERROR 1146 (42S02): Table 'csd2204w18.person1' doesn't exist

MariaDB [csd2204w18]> drop person1;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'person1' at line 1

MariaDB [csd2204w18]> truncate table c;

Query OK, 0 rows affected (0.44 sec)

MariaDB [csd2204w18]> desc c;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| customerID | int(2) | YES | | NULL | |

| name | varchar(40) | YES | | NULL | |

| nickname | varchar(10) | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

| city | varchar(30) | YES | | NULL | |

| postalcode | int(6) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

MariaDB [csd2204w18]> select \* from c;

Empty set (0.00 sec)

MariaDB [csd2204w18]> drop c;

MariaDB [csd2204w18]> drop table c;

Query OK, 0 rows affected (0.16 sec)

MariaDB [csd2204w18]> exit

Bye