Basic MariaDB

1. How to install MariaDB

   Step1: Go to google chrome and search “Mariadb download”

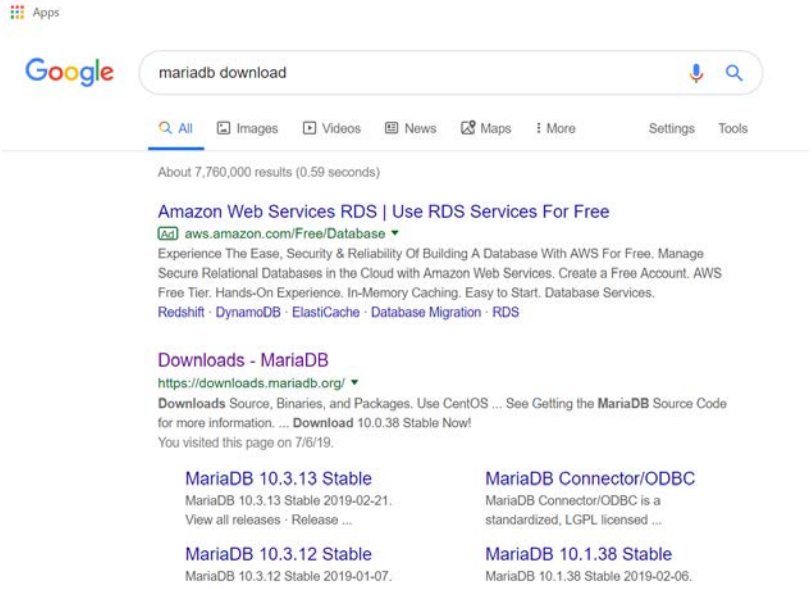


Figure1

Step2: Click on second webpage “Downloads-MariaDB”

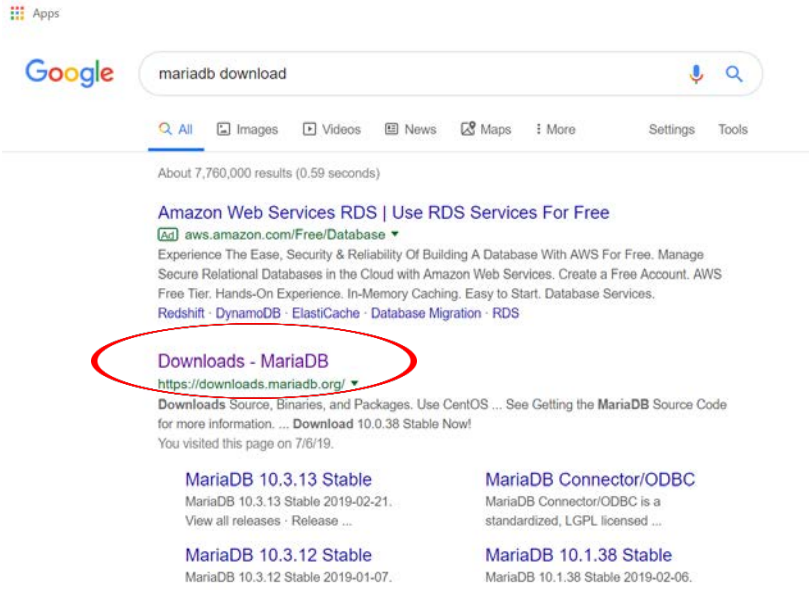


Figure2

Step3: Now, you are in Mariadb website

Figure3

Step3.1: Scroll down, you have to download Mariadb 10.2 Series. Then, click for download it.

Figure4

Step3.2: Choose maraidb-10.2.25-win64.msi (It depends on how many bits in your computer-64 bits or 86bits?) Note: you can check it by go to start, search for system and then, check system type.

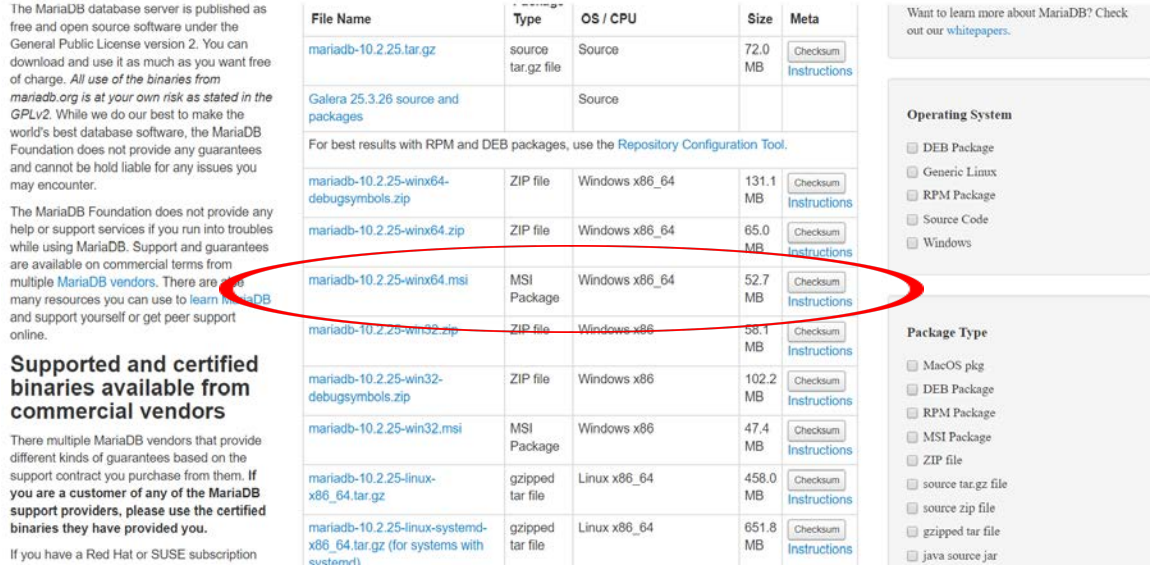


Figure5

Step4: Then, install Mariadb. Click next.

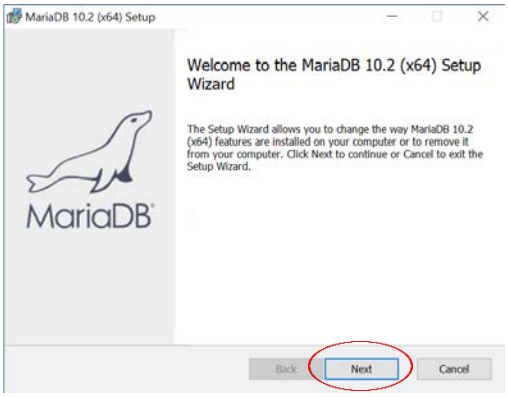


Figure6

Step5: Choose accept and click next.

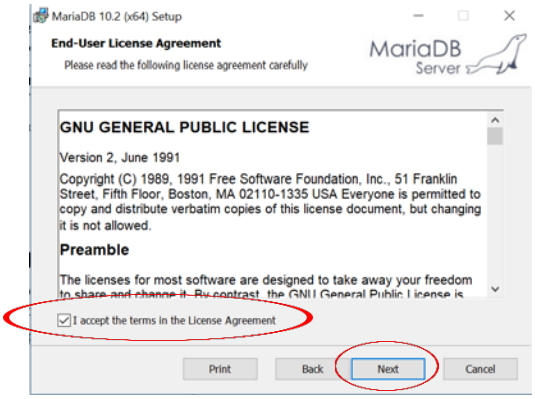


Figure7

Step6: Click next.

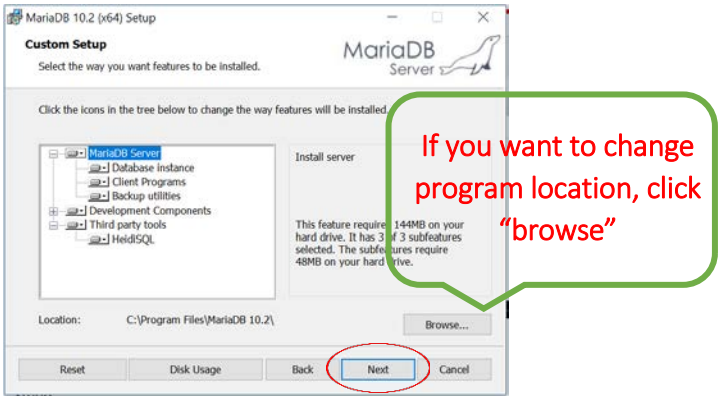


Figure8

Step7: Create a password and confirm it. (For require password every time when the user want to access to Mariadb) Then, click next.

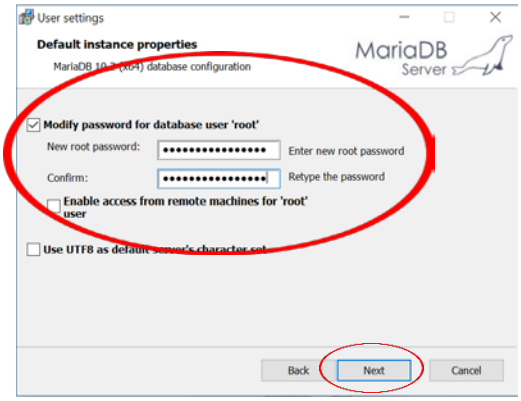


Figure9

Step8: Click next.

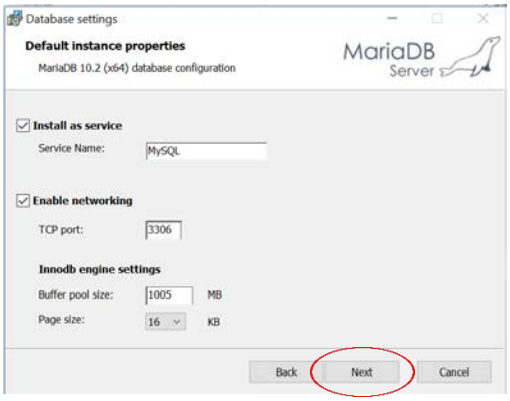


Figure10

Step9: Click next.

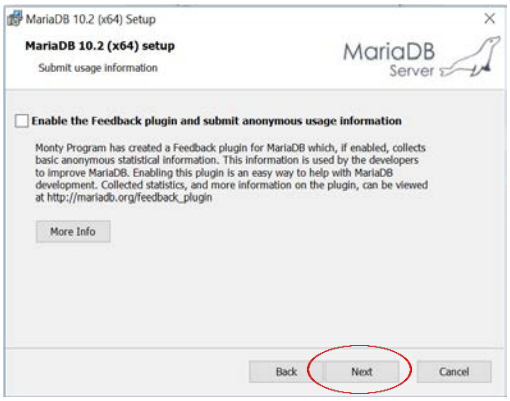


Figure11

Step10: Now, you are already finish Mariadb installation.

2. How to use Mariadb in basic

2.1 Show data in database

Step1: Open Mariadb. Choose “MySQL Client (mariaDB 10.2 (x64))”

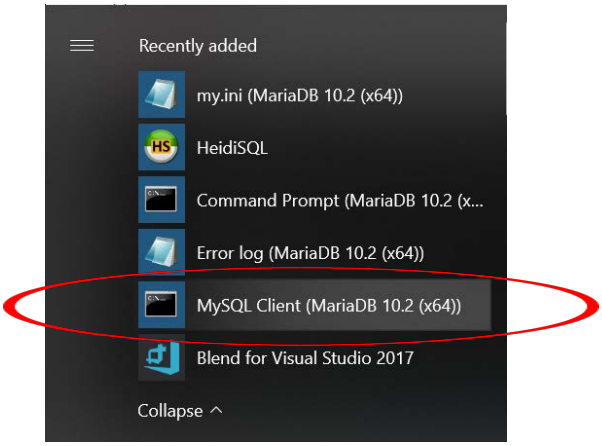


Figure12

Step2: Enter your password (you set it when installation)

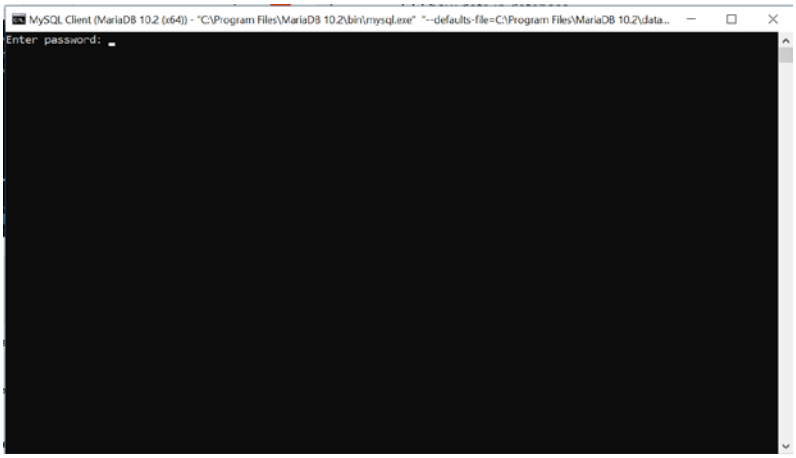


Figure13

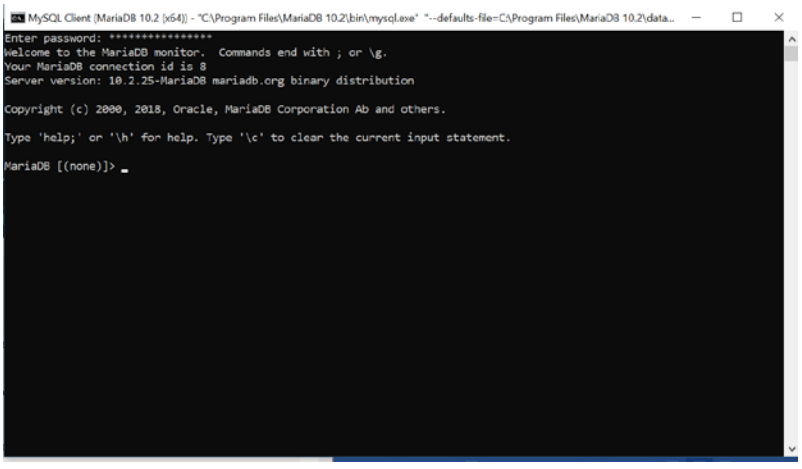


Figure13.1

Step3: Use command “show datABASES;” for shoe database now and check how many database in folder now.

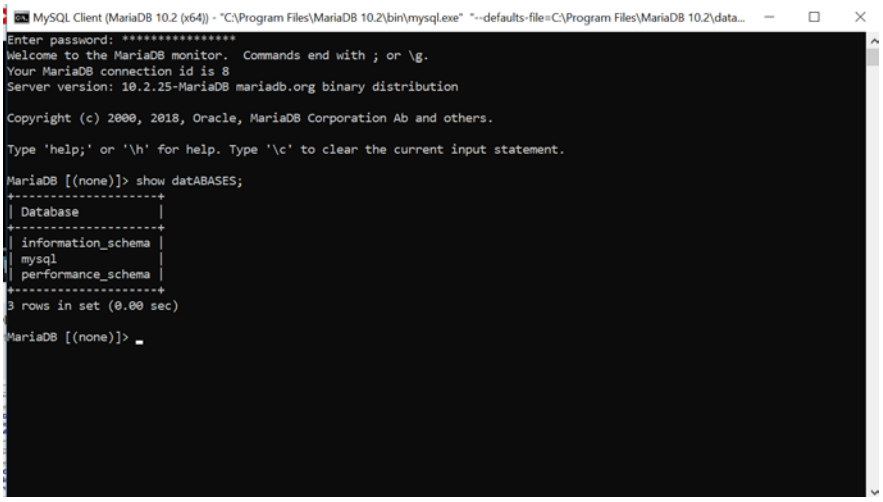


Figure14

Step4: Now, you will see there are 3 folder in database.

2.2 Create database and create table in database

Step1: Go to the Mariadb folder location for checking folder (C:\Program Files\MariaDB 10.2\data) then, you will see what folder are there.

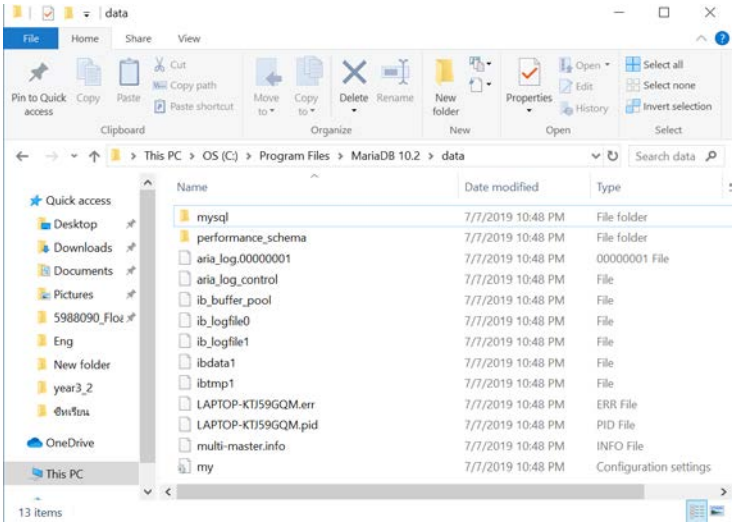


Figure15

Step2: Back to Mariadb MySQL Client and use command” create table example;”

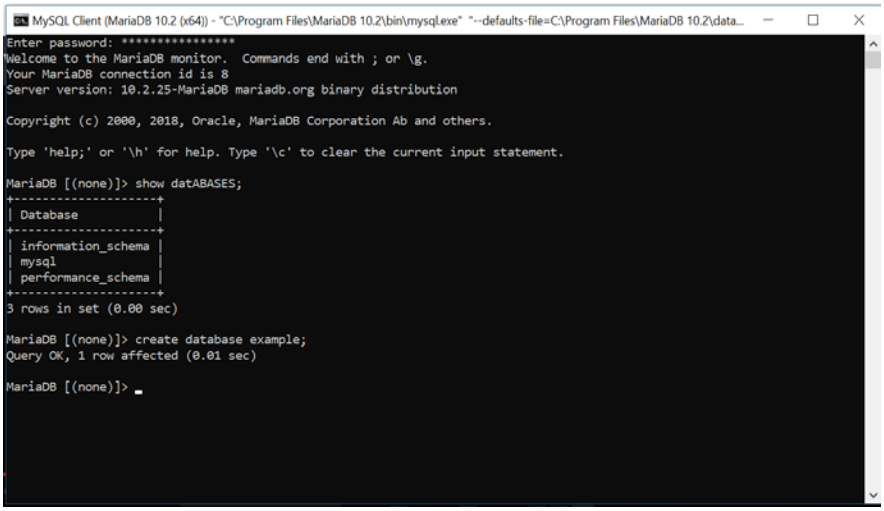


Figure16

Note: command structure

create	database	name
command		To create folder name

Step3: Go to the Mariadb folder location for checking that Mariadb already create database folder name “example”

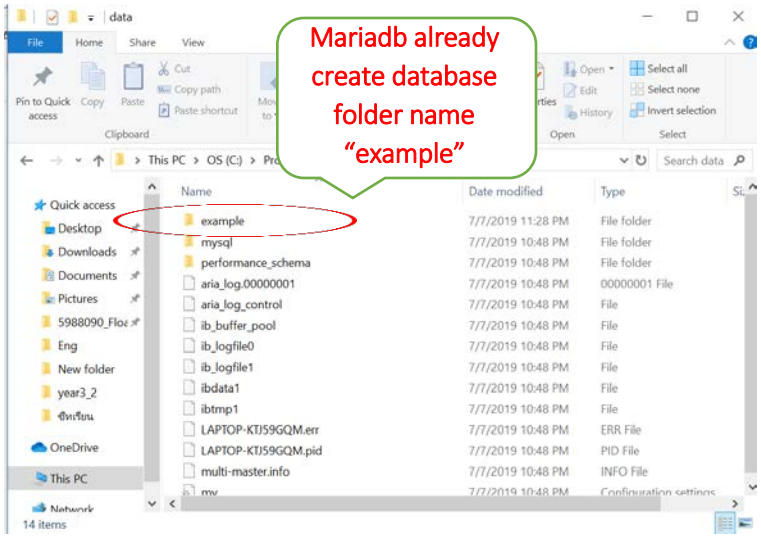


Figure17

Step4: Back to Mariadb MySQL Client and use command” create example;” for telling Mariadb that you want to use example folder.

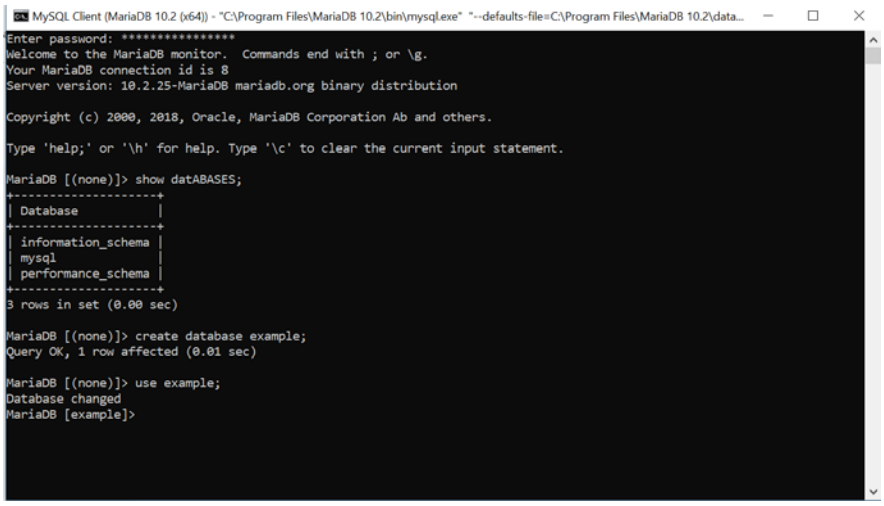


Figure18

Step5: Use Command "create table test (id int);" for create table

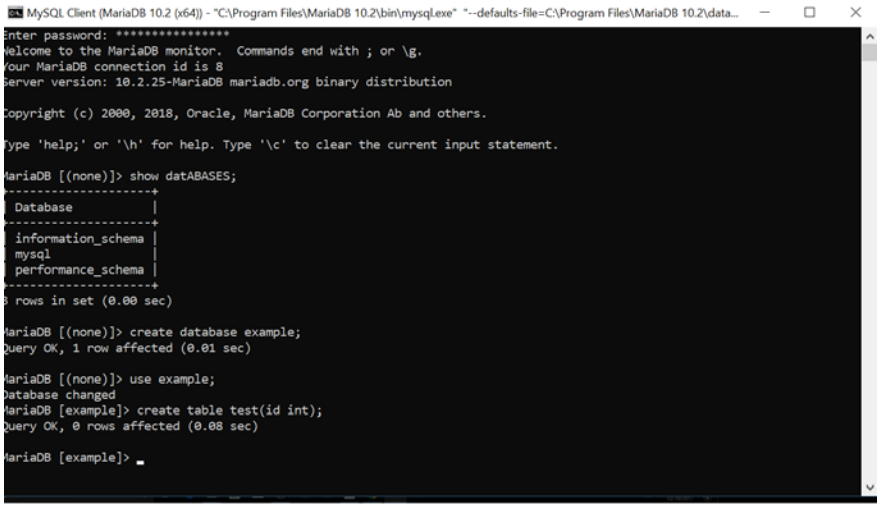


Figure19

Note: command structure

create	table	test	(id int)
command	to create table	table name	Inside table name, there are id in int data type

Step6: Go to the Mariadb folder location for checking that Mariadb already create table database in folder name “example”

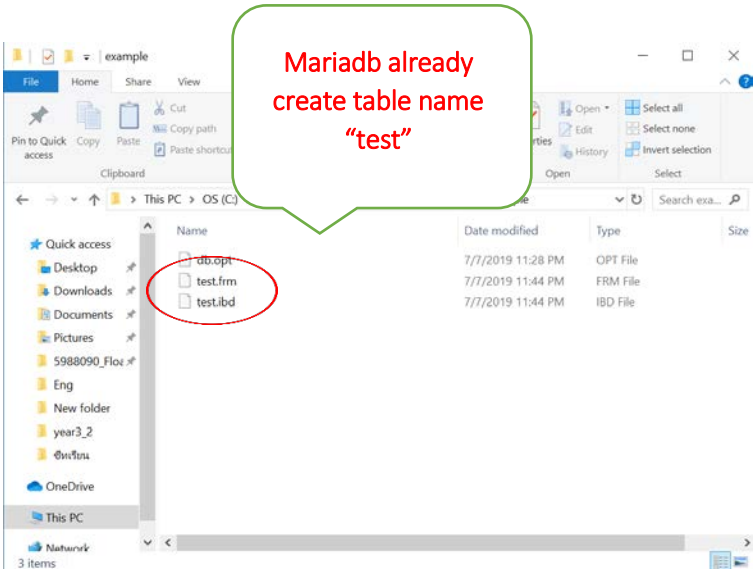


Figure20

Step7: Open “HeidiSQL” (HeidiSQL come with Mariadb installation so, you don’t need to download)

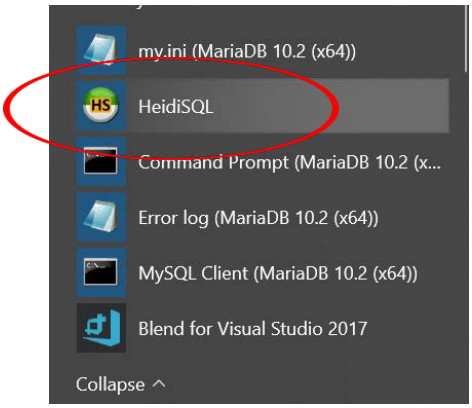


Figure21

Step8: click new for create new session database, put your password then, click open.

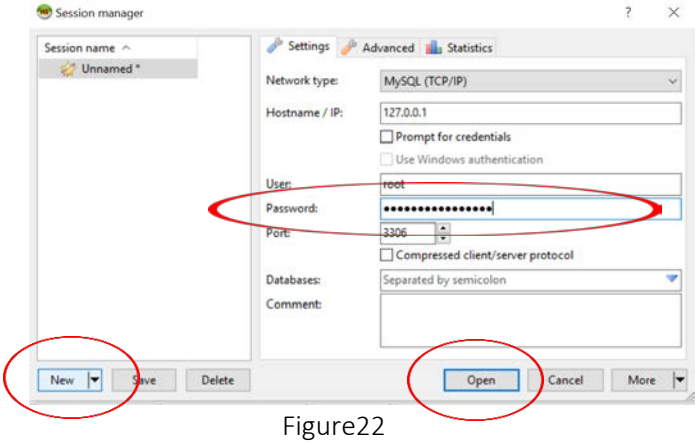


Figure22

Step9: Go to example folder and click test. Now you already have a table name test.

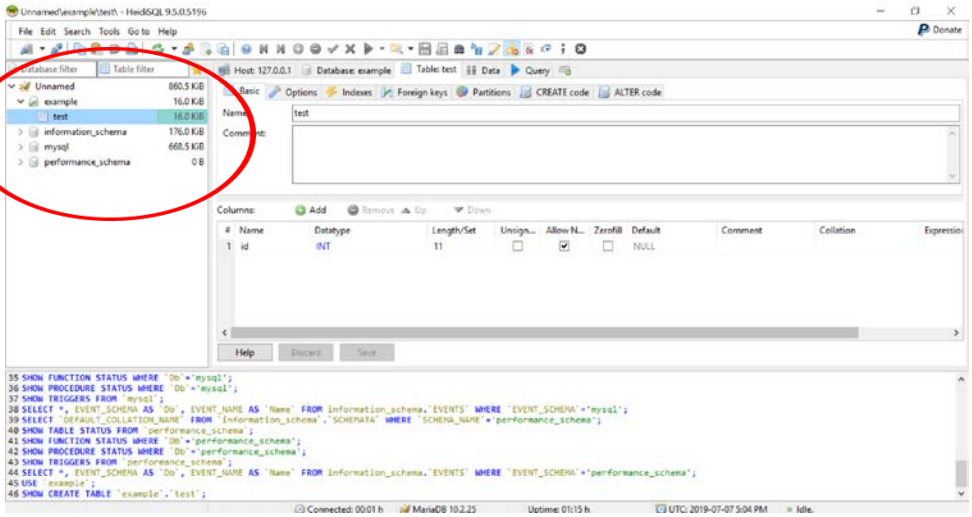


Figure23

2.3 Grant select permission on Table

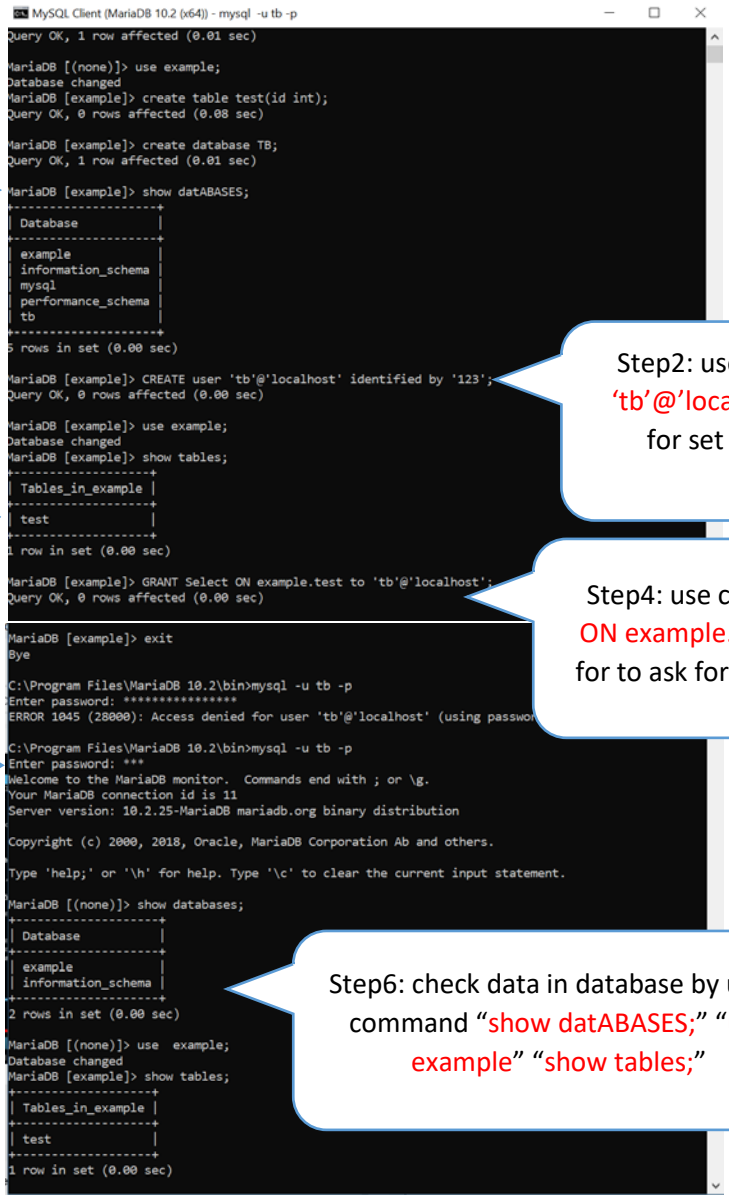
Step1: use command "show databases;" for checking database.

Step3: use command "use example;" and "show tables;" for indicate to use example folder and look the table that was created in example.

Step5: exit from database and login again for selecting database.

Step7: use command "Select * from test;" for looking data inside test table.

Note: in test table, there are no data base so, it shows, empty.



Step2: use command "CREATE user 'tb'@'localhost' identified by '123';" for set password before select database.

Step4: use command "GRANT Select ON example.test to 'tb'@'localhost';" for to ask for permission on test table.

Step6: check data in database by using command "show datABASES;" "use example" "show tables;"

Figure24

2.4 Import/export data

2.4.1 Import data

Step1: Check data inside database by using command "show datABASES;"

Step2: Use command "use (database name)" for call database that you select

Step3: Create table employees. Inside table, including id, name and city in varchar datatype, salary in decimal unit

Step4: Select table by using by using command "select * from table name;" for show output

Step5: call database that you want to import by using command "load data infile 'file location' into **table name**"

Step6: Select table by using by using command "select * from table name;" for show output

Figure25

Step7: Open HeidiSQL to check the output by select ‘data tab’

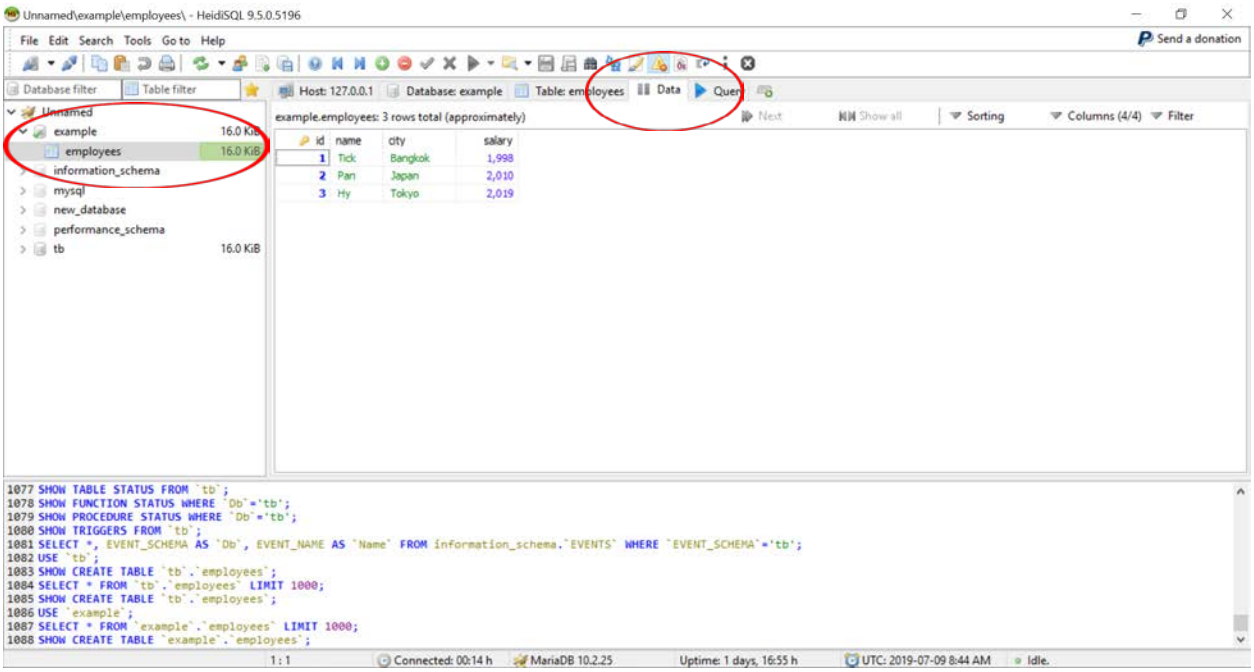


Figure26

2.4.2 Export data

Step1: Open HeidiSQL and go to file that you want to export. Then, right click and select ‘Export database as SQL’

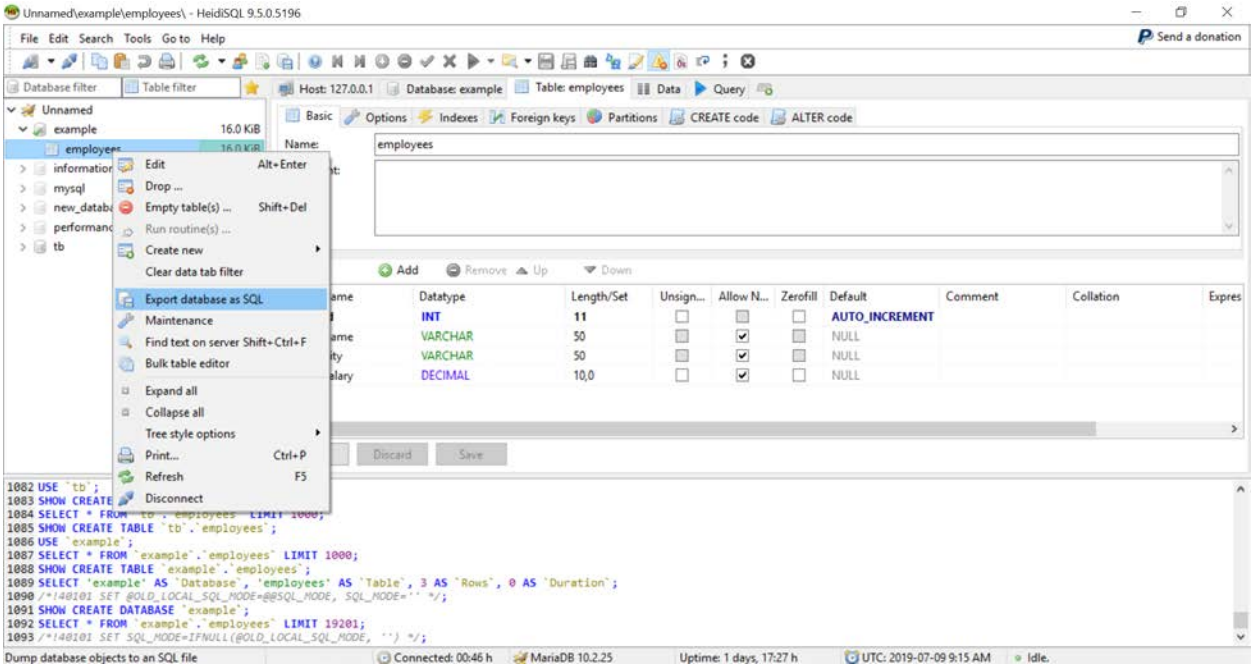


Figure27

Step2: setting as same as picture below.

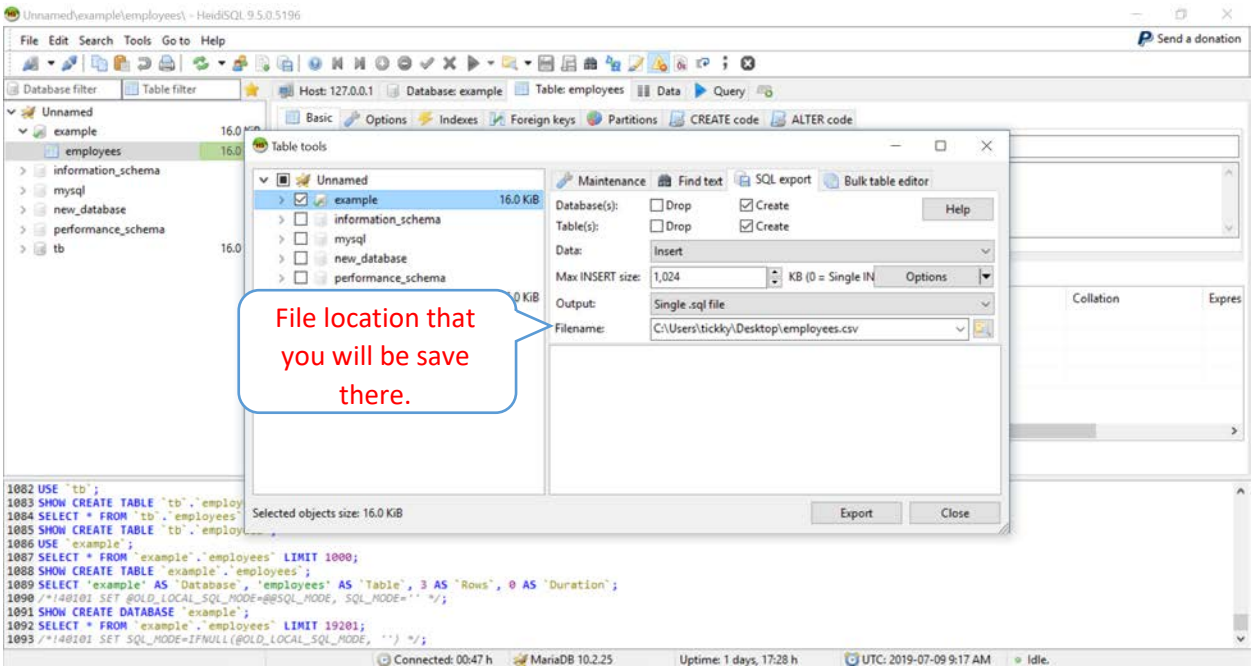


Figure28

Step3: Check output

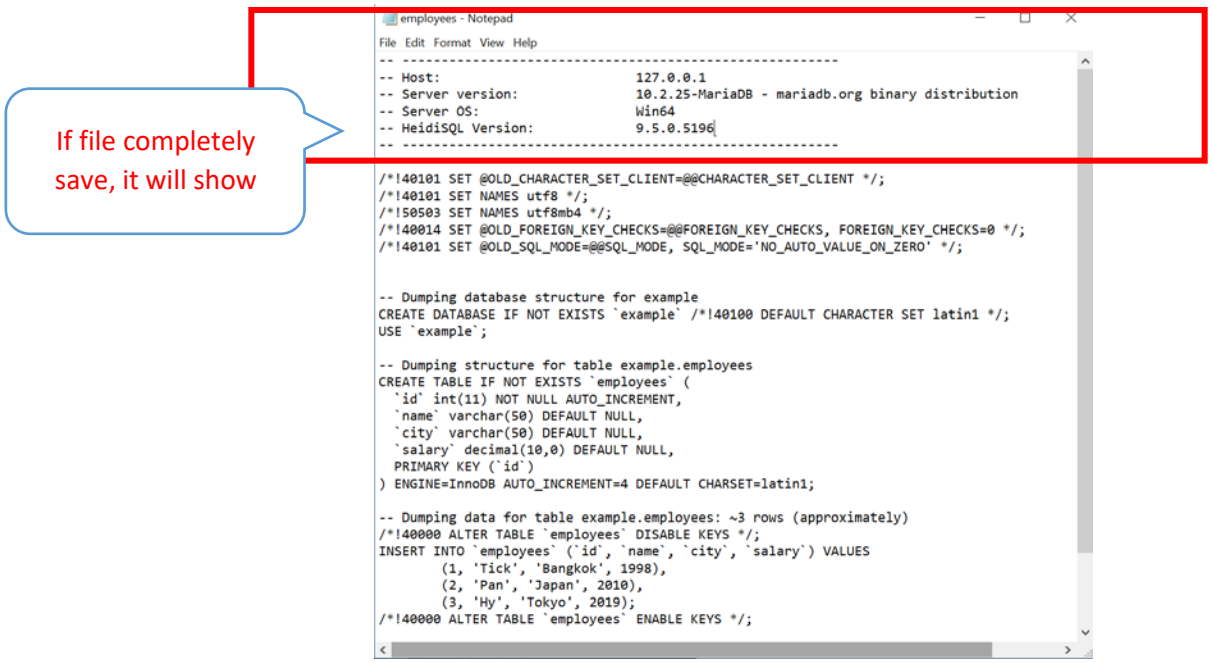


Figure29

Exercise

1. Try to database file in MariaDB.

2. Try to create table in MariaDB.

3. Create table name “Sport” in MariaDB and make the table in MariaDB like this.

ID	Sport_Name	Number_of_Player	Calories_Burn
1	Volleyball	12	340
2	Tennis	2 to 4	480
3	Football	12	660
4	Basketball	10 to 20	288
5	Badminton	2 to 4	500

4. Export data in the table into your computer.