# **Basic MariaDB**

1. How to install MariaDB

Step1: Go to google chrome and search "Mariadb download"

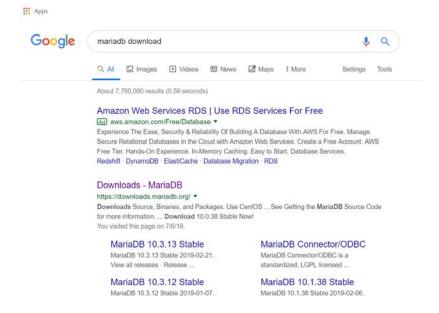


Figure1

Step2: Click on second webpage "Downloads-MariaDB"

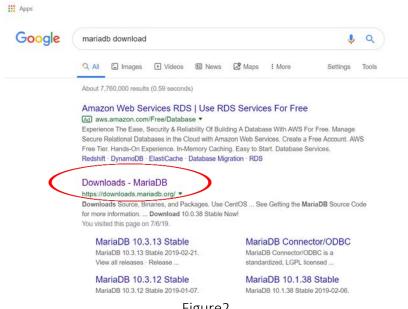


Figure 2

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.

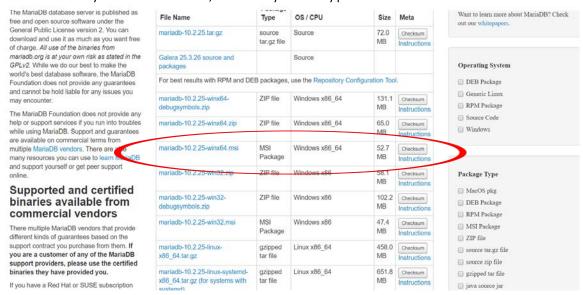


Figure5

## Step4: Then, install Mariadb. Click next.



Figure6

Step5: Choose accept and click next.



Figure 7

# Step6: Click next.

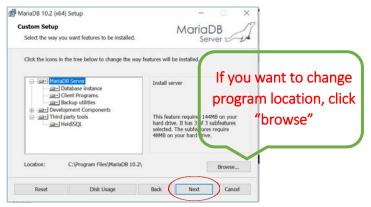


Figure8

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

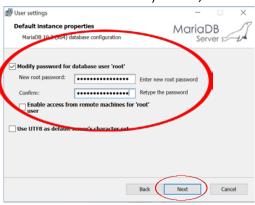


Figure9

Step8: Click next.

Database settings		-	X
<b>Default instance properties</b> MariaDB 10.2 (x64) database configuration		MariaDB	17
		Server 5	- W
✓ Install as service			
Service Name:	MySQL		
Enable networking	i		
TCP port:	3306		
Innodb engine se	ttings		
Buffer pool size:	1005 MB		
Page size:	16 × KB		
	Ba	ck Next Cancel	

Figure 10

# 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))"

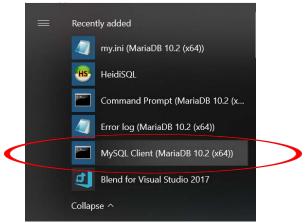


Figure12

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

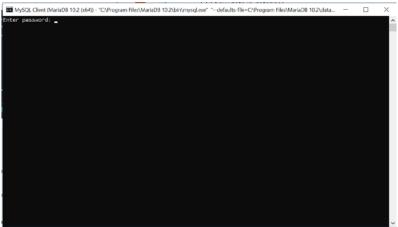


Figure13

Figure 13.1

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

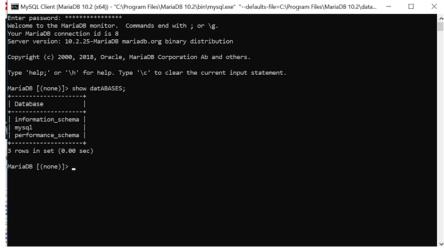


Figure14

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.

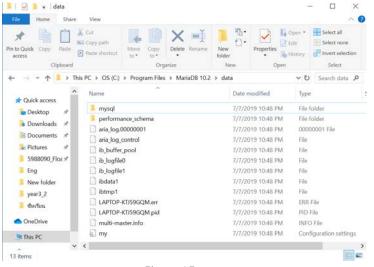


Figure 15

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

Figure 16

#### Note: command structure

create	database	name
comr	To create folder name	

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

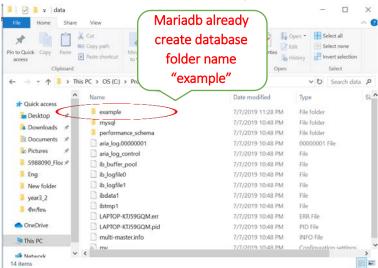


Figure17

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

Figure 18

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

Figure 19

#### 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"

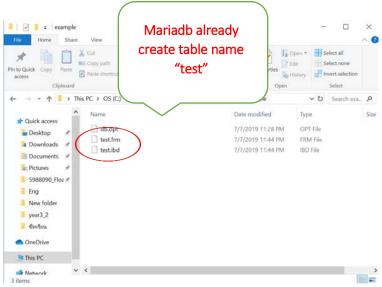


Figure 20

Step7: Open "HeidiSQL" (HeidiSQL come with Mariadb installation so, you don't need to download)

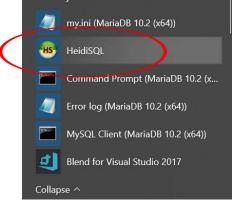


Figure21

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

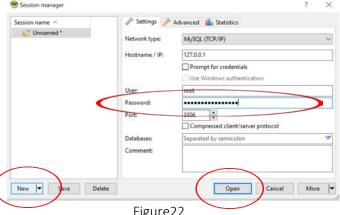


Figure22

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

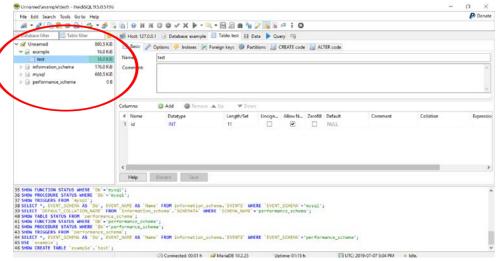


Figure23

# 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.



Figure 24

# 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

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"

```
MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\...
                                                                          \times
Enter password: ***********
 Welcome to the MariaDB monitor. Commands end with ; or \g.
 Your MariaDB connection id is 21
Server version: 10.2.25-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statem
 MariaDB [(none)]> show datABASE;
 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 u
se near 'datABASE' at line 1
 MariaDB [(none)]> show datABASES;
  Database
  example
  information_schema
  mysql
  new_database
  performance_schema
  th
6 rows in set (0.00 sec)
 MariaDB [(none)]> use example
                                                              Step3: Create table
Database changed
 MariaDB [example]> create table employees
                                                           employees. Inside table,
                                                         including id, name and city
    -> id int not null primary key auto_increment,
    -> name varchar(50),
                                                        in varchar datatype, salary in
    -> city varchar(50),
                                                                  decimal unit
    -> salary decimal
Query OK, 0 rows affected (0.04 sec)
 MariaDB [example]> select * from employees;
 Empty set (0.01 sec)
MariaDB [example]> load data infile 'C:/Program Files/MariaDB 10.2/data/my
ql/employees.csv' into table employees fields terminated by ',' lines ter
minated by '\n' (name,city,salary);
Query OK, 3 rows affected, 2 warnings (0.01 sec)
Records: 3 Deleted: 0 Skipped: 0 Warnings: 2
                                                     Step6: Select table by using
MariaDB [example]> select * from employees;
                                                     by using command "select *
 id | name | city
                      salary
                                                     from table name;" for show
      Tick
            Bangkok
                          1998
                                                                 output
      Pan
              Japan
                          2010
    Hy
             Tokyo
                          2019
 rows in set (0.00 sec)
```

Figure25

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

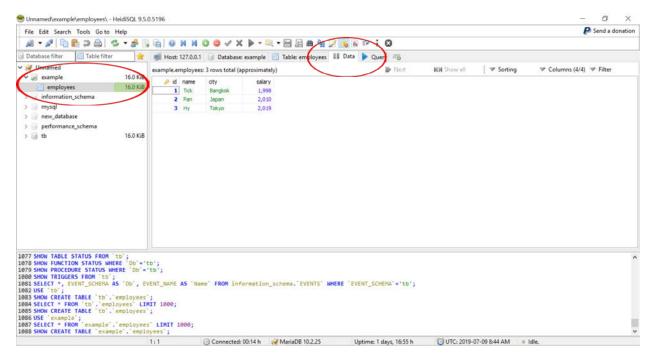


Figure 26

# 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'

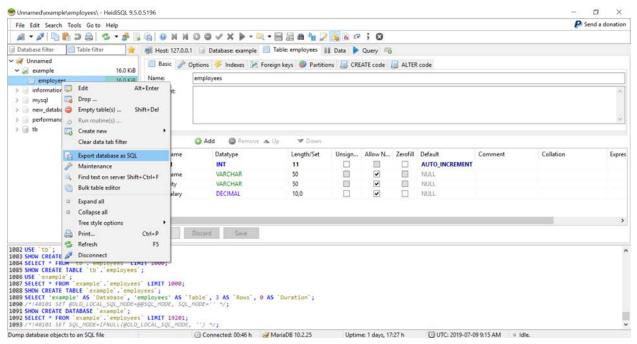


Figure27

### Step2: setting as same as picture below.

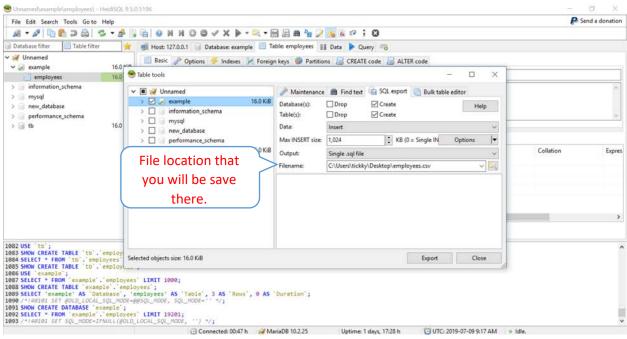


Figure 28

## Step3: Check output

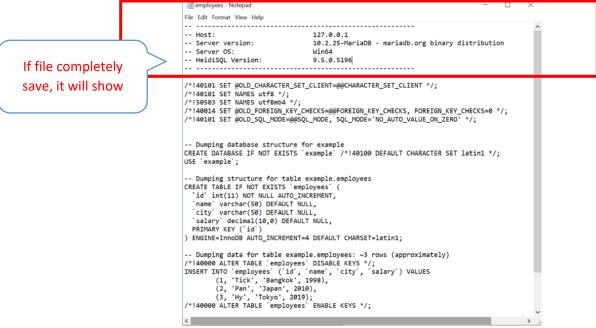


Figure29

# 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.