

For creating table firstly i open xampp and then wrote the **mysql -u root -p** command to enter mariadb, after that i created a database named **lab\_homework1** using **create database**

**lab\_homework1;**

Then use **lab\_homework1;**

## Task1:

1. For creating table i used **create table Developers ( member\_id int, name varchar(30), email varchar(50), influence\_count char(6), joining\_date data, multiplier int);**

2. Show tables;

```
ter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.28-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 statement.

MariaDB [(none)]> create database lab_homework1;
Query OK, 1 row affected (0.003 sec)

MariaDB [(none)]> use lab_homework1;
Database changed
MariaDB [lab_homework1]> create table Developers;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [lab_homework1]> create table Developers(
  ->     member_id int,
  ->     name varchar(30),
  ->     email varchar(50),
  ->     influence_count char(6),
  ->     Joining_date date,
  ->     multiplier int
  -> );
Query OK, 0 rows affected (0.016 sec)

MariaDB [lab_homework1]> show tables;
+-----+
Tables_in_lab_homework1 |
+-----+
developers              |
```

3. Then to see table details i use **describe Developers;**

```
MariaDB [lab_homework1]> describe Developers;
```

Field	Type	Null	Key	Default	Extra
member_id	int(11)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
influence_count	char(6)	YES		NULL	
Joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

```
6 rows in set (0.034 sec)
```

4. For inserting i use **INSERT INTO Developers VALUES (1, 'Taylor Otwell' , 'otwell@laravel.com', '739360' , '2020-6-10', 10), (2, 'Ryan Dahl', 'ryan@nodejs.org', '633632', '2020-04-22' ,10), ('3', 'Brendan Eich', 'eich@javascript.com', '939570', '2020-05-07', 8), (5, 'Evan You', 'you@vuejs.org', '982630', '2020-06-11', 7), (6, 'Rasmus Lerdorf', 'lerdorf@php.net', '937927', '2020-06-3', 8), (7,'Guido van Rossum', 'guido@python.org', '968827', '2020-07-18', 19), (8 ,'Adrian Holovaty', 'adrian@djangoproject.com', '570724', '2020-05-07' ,5), (9, 'Simon Willison', 'simon@djangoproject.com' , '864615' , '2020-04-30' ,4),( 10, 'James Gosling', 'james@java.com', '719491', '2020-05-18', 5), (11 ,'Rod Johnson', 'rod@spring.io' , '601744' , '2020-05-18', 7), (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020-05-10', 10);**

```
MariaDB [lab_homework1]> INSERT INTO Developers VALUES (1, 'Taylor Otwell' , 'otwell@laravel.com', '739360' , '2020-6-10', 10), (2, 'Ryan Dahl', 'ryan@nodejs.org', '633632', '2020-04-22' ,10), ('3', 'Brendan Eich', 'eich@javascript.com', '939570', '2020-05-07', 8), (5, 'Evan You', 'you@vuejs.org', '982630', '2020-06-11', 7), (6, 'Rasmus Lerdorf', 'lerdorf@php.net', '937927', '2020-06-3', 8), (7,'Guido van Rossum', 'guido@python.org', '968827', '2020-07-18', 19), (8 ,'Adrian Holovaty', 'adrian@djangoproject.com', '570724', '2020-05-07' ,5), (9, 'Simon Willison', 'simon@djangoproject.com' , '864615' , '2020-04-30' ,4),( 10, 'James Gosling', 'james@java.com', '719491', '2020-05-18', 5), (11 ,'Rod Johnson', 'rod@spring.io' , '601744' , '2020-05-18', 7), (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020-05-10', 10);
Query OK, 11 rows affected (0.089 sec)
Records: 11 Duplicates: 0 Warnings: 0
```

```
MariaDB [lab_homework1]> select * from Developers;
```

member_id	name	email	influence_count	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633632	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
5	Evan You	you@vuejs.org	982630	2020-06-11	7
6	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
7	Guido van Rossum	guido@python.org	968827	2020-07-18	19

5. To see all the inserted data i use **select \* from Developers;**

```
MariaDB [lab_homework1]> select * from Developers;
```

member_id	name	email	influence_count	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633632	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
5	Evan You	you@vuejs.org	982630	2020-06-11	7
6	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
7	Guido van Rossum	guido@python.org	968827	2020-07-18	19
8	Adrian Holovaty	adrian@django project.com	570724	2020-05-07	5
9	Simon Willison	simon@django project.com	864615	2020-04-30	4
10	James Gosling	james@java.com	719491	2020-05-18	5
11	Rod Johnson	rod@spring.io	601744	2020-05-18	7
12	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10

```
11 rows in set (0.002 sec)
```

## Task 2:

To change the column name i used **ALTER TABLE Developers CHANGE influence\_count followers int;**

Then to check if it worked perfectly i used **select \* from Developers;**

```
MariaDB [lab_homework1]> ALTER TABLE Developers CHANGE influence_count followers int;
Query OK, 11 rows affected (0.089 sec)
Records: 11 Duplicates: 0 Warnings: 0

MariaDB [lab_homework1]> select * from Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633632	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
5	Evan You	you@vuejs.org	982630	2020-06-11	7
6	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
7	Guido van Rossum	guido@python.org	968827	2020-07-18	19
8	Adrian Holovaty	adrian@django project.com	570724	2020-05-07	5
9	Simon Willison	simon@django project.com	864615	2020-04-30	4
10	James Gosling	james@java.com	719491	2020-05-18	5
11	Rod Johnson	rod@spring.io	601744	2020-05-18	7
12	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10

```
11 rows in set (0.002 sec)

MariaDB [lab_homework1]> show tables;
+-----+
| Tables_in_lab_homework1 |
+-----+
| developers               |
+-----+
1 row in set (0.001 sec)
```

So here it changed perfectly,

```
MariaDB [lab_homework1]> describe Developers;
```

Field	Type	Null	Key	Default	Extra
member_id	int(11)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
followers	int(11)	YES		NULL	
Joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

```
6 rows in set (0.024 sec)
```

## Task 3:

Update the number of followers of each developer by +10 i used, **update Developers set followers = followers+10;**

Then to check if it worked properly i used **select \* from Developers;**

```
MariaDB [lab_homework1]> update Developers set followers =followers+10;
Query OK, 11 rows affected (0.012 sec)
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [lab_homework1]> select * from Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8
5	Evan You	you@vuejs.org	982640	2020-06-11	7
6	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8
7	Guido van Rossum	guido@python.org	968837	2020-07-18	19
8	Adrian Holovaty	adrian@django-project.com	570734	2020-05-07	5
9	Simon Willison	simon@django-project.com	864625	2020-04-30	4
10	James Gosling	james@java.com	719501	2020-05-18	5
11	Rod Johnson	rod@spring.io	601754	2020-05-18	7
12	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10

```
11 rows in set (0.000 sec)
```

## Task 4:

For Showing the name, email, and follower number of the developers i used **select name,email,followers from Developers;**

```
MariaDB [lab_homework1]> select name,email,followers from Developers;
```

name	email	followers
Taylor Otwell	otwell@laravel.com	739370
Ryan Dahl	ryan@nodejs.org	633642
Brendan Eich	eich@javascript.com	939580
Evan You	you@vuejs.org	982640
Rasmus Lerdorf	lerdorf@php.net	937937
Guido van Rossum	guido@python.org	968837
Adrian Holovaty	adrian@django project.com	570734
Simon Willison	simon@django project.com	864625
James Gosling	james@java.com	719501
Rod Johnson	rod@spring.io	601754
Satoshi Nakamoto	nakamoto@blockchain.com	630498

```
11 rows in set (0.002 sec)
```

```
MariaDB [lab_homework1]>
```

## Task 5:

To find the efficiency of the developers i wrote **Select Name, ((followers\*100/1000000) \* (multiplier\*100/20))/100 as Efficiency from Developers;**

```
MariaDB [lab_homework1]> Select Name, ((followers*100/1000000) * (multiplier*100/20))/100 as Efficiency from Developers;
```

Name	Efficiency
Taylor Otwell	36.968500000000
Ryan Dahl	31.682100000000
Brendan Eich	37.583200000000
Evan You	34.392400000000
Rasmus Lerdorf	37.517480000000
Guido van Rossum	92.039515000000
Adrian Holovaty	14.268350000000
Simon Willison	17.292500000000
James Gosling	17.987525000000
Rod Johnson	21.061390000000
Satoshi Nakamoto	31.524900000000

```
11 rows in set (0.003 sec)
```