## Lab Assignment 01

```
Setting environment for using XAMPP for Windows.

Asus@EMON c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.32-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)]>
```

1. Create the above table with the appropriate data type for each column.

create database LAB\_Assignment\_1;

```
MariaDB [(none)]> create database LAB_Assignment_1;
Query OK, 1 row affected (0.001 sec)
```

use LAB Assignment 1;

```
MariaDB [(none)]> use LAB_Assignment_1;
Database changed
```

create table Developers(member\_id int, name varchar(30), email varchar(30), influence count int, joining\_date date, multiplier int);

```
MariaDB [LAB_Assignment_1]> create table Developers(
    -> member_id int,
    -> name varchar(30),
    -> email varchar(30),
    -> influence_count int,
    -> joining_date date,
    -> multiplier int)
    -> ;
Query OK, 0 rows affected (0.005 sec)
```

## Describe Developers;

```
MariaDB [LAB_Assignment_1]> describe Developers;
 Field
                    Type
                                   Null
                                           Key | Default | Extra
 member_id
                     int(11)
                                   YES
                                                 NULL
 name
                    varchar(30)
                                   YES
                                                 NULL
 email
                    varchar(30)
                                   YES
                                                 NULL
 influence_count
                     int(11)
                                   YES
                                                 NULL
  joining_date
                     date
                                    YES
                                                 NULL
 multiplier
                    int(11)
                                   YES
                                                 NULL
 rows in set (0.007 sec)
```

## insert into Developers values

- (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),
- (4, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
- (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-03', 8),
- (6, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),
- (7, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),
- (8, 'Simon Willison', 'simon@djangoproject.com', 864615, '2020-04-30', 4),
- (9, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5),
- (10, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),
- (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);

```
MariaDB [LAB_Assignment_1]> insert into Developers values
    -> (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),
    -> (4, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
    -> (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-03', 8),
    -> (6, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),
    -> (7, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),
    -> (8, 'Simon Willison', 'simon@djangoproject.com', 864615, '2020-04-30', 4),
    -> (9, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5),
    -> (10, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),
    -> (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);
Query OK, 11 rows affected (0.008 sec)
Records: 11 Duplicates: 0 Warnings: 0
```

2. Change the column name "influence\_count". The new name should be "followers," and the data type should be integer.

ALTER TABLE Developers CHANGE COLUMN influence count followers INT;

```
MariaDB [LAB_Assignment_1]> ALTER TABLE Developers CHANGE COLUMN followes followers INT;
Query OK, 0 rows affected (0.009 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

3. Update the number of followers of each developer by +10.

UPDATE Developers SET followers = followers + 10;

```
MariaDB [LAB_Assignment_1]> update Developers set followers = followers + 10;
Query OK, 11 rows affected (0.002 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

## Select \* from Developers;

```
MariaDB [LAB_Assignment_1]> select * from Developers;
  member_id | name
                                                           | followers |
                                                                        joining_date | multiplier |
                                 email
           | Taylor Otwell
                                 otwell@laravel.com
                                                               739370
                                                                        2020-06-10
                                                                                                10
             Ryan Dahl
                                                                        2020-04-22
          2 I
                                 ryan@nodejs.org
                                                               633642
                                                                                                10
             Brendan Eich
                                 eich@javascript.com
                                                               939580
                                                                        2020-05-07
                                                                                                8
         4 | Evan You
                                you@vuejs.org
                                                               982640 l
                                                                        2020-06-11
                                                                                                7
                               | lerdorf@php.net
             Rasmus Lerdorf
                                                               937937
                                                                        2020-06-03
                                                                                                8
          6 | Guido van Rossum | guido@python.org
                                                               968837
                                                                        2020-07-18
                                                                                                19
             Adrian Holovaty
                               | adrian@djangoproject.com
                                                               570734 |
                                                                        2020-05-07
                                                                                                5
             Simon Willison
                                 simon@djangoproject.com
                                                               864625
                                                                        2020-04-30
                                                                                                4
         9
             James Gosling
                               | james@java.com
                                                               719501 |
                                                                        2020-05-18
         10
              Rod Johnson
                                 rod@spring.io
                                                               601754 |
                                                                        2020-05-18
                                                                                                7
         11
             Satoshi Nakamoto | nakamoto@blockchain.com
                                                               630498 |
                                                                        2020-05-10
                                                                                                10 l
11 rows in set (0.000 sec)
```

4. There is a formula to find the efficiency of the developers. Efficiency =

((followers\*100/1000000) \* (multipliers\*100/20))/100. Show the efficiency of each

developer in a column named "Efficiency" along with their name.

select name, ((followers\*100/1000000) \* (multiplier\*100/20))/100 as Efficiency FROM

Developers;

```
MariaDB [LAB_Assignment_1]> select name, ((followers*100/1000000) * (multiplier*100/20))/100 as Efficiency FROM Developers;
                    | Efficiency
 Taylor Otwell
                    1 36.968500000000
 Ryan Dahl
                     31.682100000000
 Brendan Eich
                     37.583200000000
 Evan You
                     34.3924000000000
 Rasmus Lerdorf
                     37.517480000000
 Guido van Rossum | 92.039515000000
Adrian Holovaty | 14.268350000000
 Simon Willison
                     17.292500000000
                    17.987525000000
 James Gosling
 Rod Johnson
                     21.061390000000
 Satoshi Nakamoto | 31.524900000000
l1 rows in set (0.001 sec)
```

5. Show the name of the developers in UpperCase and the descending order of their Joining\_date.

select upper(name) as name, joining\_date from Developers ORDER BY joining\_date DESC;

```
MariaDB [LAB_Assignment_1]>  select upper(name) as name, joining_date from Developers ORDER BY joining_date DESC;
 name
                  | joining_date |
 GUIDO VAN ROSSUM | 2020-07-18
 EVAN YOU
                    2020-06-11
 TAYLOR OTWELL
                    2020-06-10
 RASMUS LERDORF
                    2020-06-03
 JAMES GOSLING
                    2020-05-18
 ROD JOHNSON
                    2020-05-18
 SATOSHI NAKAMOTO |
                    2020-05-10
                    2020-05-07
 BRENDAN EICH
 ADRIAN HOLOVATY
                    2020-05-07
 SIMON WILLISON
                    2020-04-30
 RYAN DAHL
                    2020-04-22
11 rows in set (0.006 sec)
```

6. Retrieve the member\_ id, name, email and followers of the developers who have either ".com" or ".net" in their email address.

select member\_id, name, email, followers from Developers where email LIKE '%.com%' OR email LIKE '%.net%';

ariaDB [LAB_ +	Assignment_1]> sel	ect member_id, name, email, +	follower	s from Developers	where email	LIKE '%.com%	' OR email L	.IKE '%.net%';
member_id	name	email	followe	rs				
1	Taylor Otwell	otwell@laravel.com	+   7393	+ 70				
3	Brendan Eich	eich@javascript.com	9395	80				
5	Rasmus Lerdorf	lerdorf@php.net	9379	37				
7	Adrian Holovaty	adrian@djangoproject.com	5707	34				
8	Simon Willison	simon@djangoproject.com	8646	25				
9 j	James Gosling	james@java.com	7195	01				
11	Satoshi Nakamoto	nakamoto@blockchain.com	6304	98				
		, +	+	+				
rows in set	(0.001 sec)							