

Lab Assignmet 01

Question-1

The command will be:

CREATE TABLE Developers (member_id int, name varchar(30), email varchar(50), influence_count int, Joining_date date, multiplier int);

```
XAMPP for Windows - mysql  X + v

Setting environment for using XAMPP for Windows.
DELL@DESKTOP-8C9MINF c:\xampp

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> CREATE DATABASE Lab_Assignment_01;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> USE Lab_Assignment_01;
Database changed
MariaDB [Lab_Assignment_01]> CREATE TABLE Developers
-> (
-> member_id int, name varchar(30), email varchar(50), influence_count int, Joining_date date, multiplier int
-> );
Query OK, 0 rows affected (0.010 sec)

MariaDB [Lab_Assignment_01]> 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 | int(11) | YES | | NULL | |
| Joining_date | date | YES | | NULL | |
| multiplier | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.016 sec)
```

```

MariaDB [Lab_Assignment_01]> 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),
-> (4, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
-> (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8),
-> (6, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),
-> (7, 'Adrian Holovaty', 'adrian@django-project.com', 570724, '2020-05-07', 5),
-> (8, 'Simon Willison', 'simon@django-project.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 (0.004 sec)
Records: 11 Duplicates: 0 Warnings: 0

```

```

MariaDB [Lab_Assignment_01]> 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
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@django-project.com	570724	2020-05-07	5
8	Simon Willison	simon@django-project.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

```

11 rows in set (0.001 sec)

```

Question-2

The command will be:

ALTER TABLE Developers CHANGE influence_count followers int;

```

MariaDB [Lab_Assignment_01]> ALTER TABLE Developers CHANGE influence_count followers int;
Query OK, 0 rows affected (0.007 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```

MariaDB [Lab_Assignment_01]> 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
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@django-project.com	570724	2020-05-07	5
8	Simon Willison	simon@django-project.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

```

11 rows in set (0.001 sec)

```

Question-3

The command will be:

UPDATE Developers SET followers = followers + 10;

```
MariaDB [Lab_Assignment_01]> UPDATE Developers SET followers = followers + 10;
Query OK, 11 rows affected (0.004 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [Lab_Assignment_01]> 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          |
| 4         | Evan You      | you@vuejs.org       | 982640    | 2020-06-11   | 7          |
| 5         | Rasmus Lerdorf | lerdorf@php.net     | 937937    | 2020-06-03   | 8          |
| 6         | Guido van Rossum | guido@python.org    | 968837    | 2020-07-18   | 19         |
| 7         | Adrian Holovaty | adrian@django.org   | 570734    | 2020-05-07   | 5          |
| 8         | Simon Willison | simon@django.org    | 864625    | 2020-04-30   | 4          |
| 9         | James Gosling  | james@java.com      | 719501    | 2020-05-18   | 5          |
| 10        | Rod Johnson    | rod@spring.io       | 601754    | 2020-05-18   | 7          |
| 11        | Satoshi Nakamoto | nakamoto@blockchain.com | 630498    | 2020-05-10   | 10         |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.001 sec)
```

Question-4

The command will be:

SELECT name, ((followers*100/1000000) * (multiplier*100/20))/100 AS Efficiency FROM Developers;

```
MariaDB [Lab_Assignment_01]> 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 (0.000 sec)
```

Question-5

The command will be:

SELECT UPPER(name) FROM Developers ORDER BY Joining_date DESC;

```
MariaDB [Lab_Assignment_01]> SELECT UPPER(name) FROM Developers ORDER BY joining_date DESC;
+-----+
| UPPER(name) |
+-----+
| GUIDO VAN ROSSUM |
| EVAN YOU |
| TAYLOR OTWELL |
| RASMUS LERDORF |
| JAMES GOSLING |
| ROD JOHNSON |
| SATOSHI NAKAMOTO |
| BRENDAN EICH |
| ADRIAN HOLOVATY |
| SIMON WILLISON |
| RYAN DAHL |
+-----+
11 rows in set (0.002 sec)
```

Question-6

The command will be:

SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net';

```
MariaDB [Lab_Assignment_01]> SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net';
+-----+-----+-----+-----+
| member_id | name | email | followers |
+-----+-----+-----+-----+
| 1 | Taylor Otwell | otwell@laravel.com | 739370 |
| 3 | Brendan Eich | eich@javascript.com | 939580 |
| 5 | Rasmus Lerdorf | lerdorf@php.net | 937937 |
| 7 | Adrian Holovaty | adrian@django project.com | 570734 |
| 8 | Simon Willison | simon@django project.com | 864625 |
| 9 | James Gosling | james@java.com | 719501 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498 |
+-----+-----+-----+-----+
7 rows in set (0.000 sec)
```