

Lab_Assingment-1 (Cse 370)

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sec:02

Question-1(ans)

MariaDB [As_1]> create table Developers

```
-> (  
-> member_id INT,  
-> name varchar(30),  
-> email varchar(40),  
-> influence_count INT,  
-> joining_date date,  
-> multiplier INT  
-> );
```

MariaDB [As_1]> insert into developers values

```
-> (1,'Taylor Otwell', 'otwell@laravel.com', 739360,  
-> '2020-6-10', 10);
```

MariaDB [As_1]> insert into developers values

```
-> (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, '2020-05-10', 7),

-> (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);

```
MariaDB [As_1]> create table Developers
```

```
-> (  
-> member_id INT,  
-> name varchar(30),  
-> email varchar(40),  
-> influence_count INT,  
-> joining_date date,  
-> multiplier INT  
-> );
```

```
Query OK, 0 rows affected (0.007 sec)
```

```
MariaDB [As_1]> DESCRIBE developers;
```

```
ERROR 2006 (HY000): MySQL server has gone away
```

```
No connection. Trying to reconnect...
```

```
Connection id: 10
```

```
Current database: As_1
```

| Field | Type | Null | Key | Default | Extra |
|-----------------|-------------|------|-----|---------|-------|
| member_id | int(11) | YES | | NULL | |
| name | varchar(30) | YES | | NULL | |
| email | varchar(40) | YES | | NULL | |
| influence_count | int(11) | YES | | NULL | |
| joining_date | date | YES | | NULL | |
| multiplier | int(11) | YES | | NULL | |

```
6 rows in set (0.012 sec)
```

```

MariaDB [As_1]> insert into developers values
-> (1,'Taylor Otwell', 'otwell@laravel.com', 739360,
-> '2020-6-10', 10);
Query OK, 1 row affected (0.029 sec)

MariaDB [As_1]> insert into developers values
-> (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, '2020-05-10', 7),
-> (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);
Query OK, 10 rows affected (0.005 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [As_1]> 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 | 2020-05-10 | 7 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)

```

Question-2(ans)

MariaDB [As_1]> ALTER TABLE developers

-> change column influence_count followers INT;

```
MariaDB [As_1]> ALTER TABLE developers
-> change column influence_count followers INT;
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [As_1]> 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 | 2020-05-10 | 7 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |

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

Question-3(ans)

```
MariaDB [As_1]> update developers set followers=followers+10;
```

```
Query OK, 11 rows affected (0.005 sec)
```

```
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [As_1]> update developers set followers=followers+10;
Query OK, 11 rows affected (0.005 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [As_1]> 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 project.com | 570734 | 2020-05-07 | 5 |
| 8 | Simon Willison | simon@django project.com | 864625 | 2020-04-30 | 4 |
| 9 | James Gosling | james@java.com | 719501 | 2020-05-18 | 5 |
| 10 | Rod Johnson | rod@spring.io | 601754 | 2020-05-10 | 7 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498 | 2020-05-10 | 10 |

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

Question-4(ans)

MariaDB [As_1]> select name, ((followers * 100 / 1000000) * (multiplier * 100 / 20)) /100 as Efficiency from developers;

```
MariaDB [As_1]> 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 |

Question-5(ans)

MariaDB [As_1]> select upper(name) as name_uppercase, joining_date from developers order by joining_date desc;

```
MariaDB [As_1]> select upper(name) as name_uppercase, joining_date from developers order by joining_date desc;
```

| name_uppercase | 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 |
| BRENDAN EICH | 2020-05-07 |
| ADRIAN HOLOVATY | 2020-05-07 |
| SIMON WILLISON | 2020-04-30 |
| RYAN DAHL | 2020-04-22 |

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

Question-6(ans)

```
MariaDB [As_1]> SELECT member_id, name, email, followers FROM developers WHERE email LIKE '%@%.com' OR email LIKE '%@%.net';
```

```
MariaDB [As_1]> 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)
```

```
MariaDB [As_1]> UPDATE developers set joining_date = '2020-05-18' where member_id = 10;  
Query OK, 1 row affected (0.002 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [As_1]> 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 project.com | 570734 | 2020-05-07 | 5 |
| 8 | Simon Willison | simon@django project.com | 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 (0.000 sec)

As there was a mistake with date in row 10 i fixed it with following query , was done after q3.

```
MariaDB [As_1]> UPDATE developers set joining_date = '2020-05-18' where member_id = 10;
```