

TASK - 01:

Step: creating the table "developers" with columns and their own datatypes.

Command=>

```
create table developers(member_id int, name varchar(30), email varchar(30),
influence_count int,joining_date date, multiplier int);
```

Additionally: show datatype of each column of the table:

Command=>

```
describe developers;
```

```
MariaDB [cse370_assignment01]> 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 (0.010 sec)

MariaDB [cse370_assignment01]> 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 | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.009 sec)
```

Step: inserting information by row one at a time.

Command=>

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

```

MariaDB [cse370_assignment01]> insert into developers values (1, "Taylor Otwell", "otwell@laravel.com", 739360, "2020-06-10", 10);
Query OK, 1 row affected (0.003 sec)

MariaDB [cse370_assignment01]> insert into developers values (2, "Ryan Dahl", "ryan@nodejs.org", 633632, "2020-04-22", 10);
Query OK, 1 row affected (0.003 sec)

MariaDB [cse370_assignment01]> insert into developers values (3, "Brendan Eich", "eich@javascript.com", 939570, "2020-05-07", 8);
Query OK, 1 row affected (0.002 sec)

MariaDB [cse370_assignment01]> insert into developers values (4, "Evan You", "you@vuejs.org", 982630, "2020-06-11", 7);
Query OK, 1 row affected (0.002 sec)

MariaDB [cse370_assignment01]> insert into developers values (5, "Rasmus Lerdorf", "lerdorf@php.net", 937927, "2020-06-03", 8);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (6, "Guido van Rossum", "guido@python.org", 968827, "2020-07-18", 19);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (7, "Adrian Holovaty", "adrian@django.com", 570724, "2020-05-07", 5);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (8, "Simon Willison", "simon@django.com", 864615, "2020-04-30", 4);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (9, "James Gosling", "james@java.com", 719491, "2020-05-18", 5);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (10, "Rod Johnson", "rod@spring.io", 601744, "2020-05-18", 7);
Query OK, 1 row affected (0.001 sec)

MariaDB [cse370_assignment01]> insert into developers values (11, "Satoshi Nakamoto", "nakamoto@blockchain.com", 630488, "2020-05-10", 10);
Query OK, 1 row affected (0.002 sec)

```

Additionally: show the created table.

Command=>

*select * from developers;*

```

MariaDB [cse370_assignment01]> 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.com   | 570724 | 2020-05-07 | 5 |
| 8 | Simon Willison | simon@django.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 (0.000 sec)

```

TASK - 02:

Step: changing column name and datatype.

Command=>

alter table developers change column influence_count followers int;

```
MariaDB [cse370_assignment01]> alter table developers change column influence_count followers int;
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [cse370_assignment01]> 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.org	570724	2020-05-07	5
8	Simon Willison	simon@django.org	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 (0.000 sec)

TASK - 03:

Step: updating all the rows of “followers” by adding 10.

Command=>

update developers set followers = followers + 10;

```
MariaDB [cse370_assignment01]> update developers set followers = followers + 10;
Query OK, 11 rows affected (0.001 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [cse370_assignment01]> 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 (0.000 sec)

TASK - 04:

Step: performing an operation in the command line and showing that in a new column alongside the names.

Command=>

*select name, ((followers*100/1000000) * (multiplier*100/20))/100 as efficiency from developers;*

```
MariaDB [cse370_assignment01]> select name,((followers*100/100000) * (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)
```

TASK - 05:

Step: showing the name of the developers in uppercase and by the descending order of their joining date.

Command=>

select upper(name), joining_date from developers order by joining_date desc;

```
MariaDB [cse370_assignment01]> select upper(name), joining_date from developers order by joining_date desc;
```

upper(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
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)
```

TASK - 06:

Step: showing only the member id, name, email and followers of the developers who have either ".com" or ".net" in their email address.

Command=>

select member_id, name, email, followers from developers where email like "%.com" or email like "%.net";

```
MariaDB [cse370_assignment01]> 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)
```