



CSE370
Lab Assignment: 01

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Section: 5 (Theory, Lab)
Semester: Spring' 23

Task 1

Table creation:

```
create table developers
member_id int,
name varchar(25),
email varchar(50),
influence_count int,
Joining_date date,
multiplier int
);
```

```
MariaDB [my_370_database]> create table developers
-> (
-> member_id int,
-> name varchar(25),
-> email varchar(50),
-> influence_count int,
-> Joining_date date,
-> multiplier int
-> );
Query OK, 0 rows affected (0.010 sec)
```

Table Status:

```
MariaDB [my_370_database]> describe Developers;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| member_id      | int(11)       | YES  |     | NULL    |       |
| name           | varchar(25)   | 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 (0.006 sec)
```

Value Insertion:

Insert into Developers values

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

```
MariaDB [my_370_database]> Insert into Developers values  
-> (1, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10);  
Query OK, 1 row affected (0.004 sec)
```

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@djangooproject.com', 570724, '2020-05-07', 5),  
(9, 'Simon Willison', 'simon@djangooproject.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);
```

Table Status:

```
MariaDB [my_370_database]> 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),
-> (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@djangooproject.com',570724,'2020-05-07',5),
-> (9,'Simon Willison','simon@djangooproject.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, 10 rows affected (0.003 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
MariaDB [my_370_database]> 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@djangooproject.com	570724	2020-05-07	5
9	Simon Willison	simon@djangooproject.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 (0.000 sec)
```

Task 2

Changing column name:

```
alter table developers
```

```
change influence_count followers int;
```

Table Status:

```
MariaDB [my_370_database]> alter table developers
-> change influence_count followers int;
Query OK, 0 rows affected (0.007 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [my_370_database]> 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 (0.000 sec)
```

Task 3

Updating all the values in a column:

```
update developers set followers = followers + 10;
```

Table Status:

```
MariaDB [my_370_database]> update developers set followers = followers + 10
```

```
-> ;
```

```
Query OK, 11 rows affected (0.004 sec)
```

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

```
MariaDB [my_370_database]> 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

Task 4

Show some specific columns from the table:

select name, email, followers from developers;

```
MariaDB [my_370_database]> 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 (0.000 sec)
```

Task 5

Show the efficiency of all developers in a separate column:

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

```
MariaDB [my_370_database]> 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)
```