Mashrur Safir Shabab ID: 20241037 Section - 07

LAB HomeWork 01

```
-> email varchar(30),
        -> influence count char(6),
        -> joining date date,
        -> multiplier int
        -> );
MariaDB [lab_homework_01]> create table developers
    -> (
    -> member_id int,
    -> name varchar(30),
    -> email varchar(30),
    -> influence_count char(6),
    -> joining_date date,
    -> multiplier int
    -> );
Query OK, 0 rows affected (0.016 sec)
[MariaDB [lab_homework_01]> describe developers;
  Field
                       Type
                                                     Default
                                       Null
                                                                 Extra
                                               Key
  member_id
                       int(11)
                                       YES
                                                      NULL
                       varchar(30)
                                                     NULL
  name
                                       YES
                       varchar(30)
                                                     NULL
  email.
                                       YES
  influence_count
                       char(6)
                                       YES
                                                     NULL
  joining_date
                       date
                                       YES:
                                                     NULL
  multiplier
                       int(11)
                                                      NULL
                                       YES
 rows in set (0.013 sec)
```

1)

-> (

create table developers

-> member_id int,
-> name varchar(30),

insert into developers (member_id, name, email, influence_count, joining_date, multiplier) 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)

-> ;

```
MariaDB [lab_homework_01]> insert into developers values
    -> (2, 'Ryan Dahl', 'ryan@nodejs.org', '633632', '2020-04-22', 10)
Query OK, 1 row affected (0.050 sec)
MariaDB [lab_homework_01]> select * from developers;
                                                                                      multiplier
 member_id
                               email
                                                    influence_count
                                                                      joining_date
              name
              Taylor Otwell |
                              otwell@laravel.com
                                                                       2020-06-10
                                                                                               10
                                                    739360
                                                                       2020-04-22
              Ryan Dahl
                              ryan@nodejs.org
                                                    633632
                                                                                               10
 rows in set (0.002 sec)
```

insert into developers values

- -> (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@djangoproject.com', '570724', '2020-05-07', 5),
- -> (9, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4)

->;

```
MariaDB [lab_homework_01]> insert into developers values
    -> (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@djangoproject.com', '570724', '2020-05-07', 5),
    -> (9, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4)
    -> ;
Query OK, 6 rows affected (0.024 sec)
Records: 6 Duplicates: 0 Warnings: 0
MariaDB [lab_homework_01]> select * from developers;
  member_id | name
                                      email
                                                                      influence_count | joining_date | multiplier
                                      otwell@laravel.com
                Taylor Otwell
                                                                      739360
                                                                                           2020-06-10
                                                                                                                      10
            1
                Ryan Dahl
            2
                                                                                           2020-04-22
                                                                                                                      10
                                      ryan@nodejs.org
                                                                      633632
            3
                Brendan Eich
                                                                                           2020-05-07
                                      eich@javascript.com
                                                                      939570
                                                                                                                       8
            5
               Evan You
                                                                      982630
                                                                                           2020-06-11
                                                                                                                       7
                                      you@vuejs.org
            6
               Rasmus Lerdorf
                                                                      937927
                                                                                           2020-06-03
                                                                                                                       8
                                      lerdorf@php.net
                Guido Van Rossum
                                                                                           2020-07-18
                                                                                                                      19
                                      guido@python.org
                                                                      968827
                Adrian Holovaty
                                      adrian@djangoproject.com
                                                                      570724
                                                                                           2020-05-07
                                                                                                                       5
            8
                                      simon@djangoproject.com
                Simon Willison
                                                                                           2020-04-30
                                                                                                                       4
                                                                      864615
8 rows in set (0.009 sec)
```

insert into developers values

MariaDB [lab_homework_01]> insert into developers values

- -> (10, 'James Gosling', 'james@java.com', '719491', '2020-05-18', 5),
- -> (11, 'Rod Johnson', 'rod@spring.io', '601744', '2020-05-18', 7)

```
-> (10, 'James Gosling', 'james@java.com', '719491', '2020-05-18', 5),
    -> (11, 'Rod Johnson', 'rod@spring.io', '601744', '2020-05-18', 7)
    -> ;
Query OK, 2 rows affected (0.030 sec)
Records: 2 Duplicates: 0 Warnings: 0
MariaDB [lab_homework_01]> select * from developers;
 member_id | name
                                  email
                                                              influence_count | joining_date | multiplier
          1 |
              Taylor Otwell
                                  otwell@laravel.com
                                                              739360
                                                                                 2020-06-10
                                                                                                         10
                                                                                 2020-04-22
          2
              Ryan Dahl
                                  ryan@nodejs.org
                                                              633632
                                                                                                         10
                                  eich@javascript.com
          3
              Brendan Eich
                                                                                 2020-05-07
                                                                                                          8
                                                              939570
             Evan You
                                  you@vuejs.org
                                                              982630
          5
                                                                                 2020-06-11
                                                                                                          7
          6
            | Rasmus Lerdorf
                                                              937927
                                                                                 2020-06-03
                                                                                                          8
                                  lerdorf@php.net
                                                                                                         19
          7
            | Guido Van Rossum
                                  guido@python.org
                                                              968827
                                                                                 2020-07-18
          8
              Adrian Holovaty
                                  adrian@djangoproject.com
                                                              570724
                                                                                 2020-05-07
                                                                                                          5
          9
              Simon Willison
                                  simon@djangoproject.com
                                                              864615
                                                                                 2020-04-30
                                                                                                          4
                                  james@java.com
                                                              719491
                                                                                 2020-05-18
              James Gosling
                                                                                                          5
         10
             Rod Johnson
                                  rod@spring.io
                                                              601744
                                                                                 2020-05-18
10 rows in set (0.012 sec)
```

insert into developers values

11 rows in set (0.000 sec)

-> (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020_05-10', 10) -> ;

```
MariaDB [lab_homework_01]> insert into developers values
    -> (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020_05-10', 10)
    -> ;
Query OK, 1 row affected (0.012 sec)
MariaDB [lab_homework_01]> select * from developers;
  member_id | name
                                  email
                                                               influence_count | joining_date | multiplier
              Taylor Otwell
                                   otwell@laravel.com
                                                               739360
                                                                                  2020-06-10
                                                                                                          10
          1
          2
              Ryan Dahl
                                   ryan@nodejs.org
                                                               633632
                                                                                  2020-04-22
                                                                                                          10
          3
              Brendan Eich
                                   eich@javascript.com
                                                               939570
                                                                                  2020-05-07
                                                                                                           8
              Evan You
                                                                                                           7
                                   you@vuejs.org
                                                                                  2020-06-11
          5
                                                               982630
              Rasmus Lerdorf
                                   lerdorf@php.net
                                                               937927
                                                                                  2020-06-03
                                                                                                           8
          6
                                                                                                          19
          7
              Guido Van Rossum
                                  guido@python.org
                                                               968827
                                                                                  2020-07-18
                                                                                                           5
              Adrian Holovaty
                                                               570724
                                                                                  2020-05-07
          8
                                   adrian@djangoproject.com
                                                                                                           4
          9
              Simon Willison
                                   simon@djangoproject.com
                                                               864615
                                                                                  2020-04-30
                                                                                                           5
              James Gosling
                                   james@java.com
                                                               719491
                                                                                  2020-05-18
         10
              Rod Johnson
                                   rod@spring.io
                                                               601744
                                                                                  2020-05-18
                                                                                                           7
         11
              Satoshi Nakamoto
                                                               630488
         12
                                  nakamoto@blockchain.com
                                                                                  2020-05-10
                                                                                                          10
```

2)alter table developers change influence count followers int;

```
MariaDB [lab_homework_01]> alter table developers change influence_count followers int;
Query OK, 11 rows affected (0.064 sec)
Records: 11 Duplicates: 0 Warnings: 0
MariaDB [lab_homework_01]> describe developers;
  Field
                Type
                                Null |
                                        Key
                                              Default |
                                                        Extra
  member_id
                  int(11)
                                YES
                                              NULL
  name
                  varchar(30)
                                YES
                                              NULL
  email
                  varchar(30)
                                YES
                                              NULL
  followers
                  int(11)
                                YES
                                              NULL
  joining_date
                                YES
                                              NULL
                  date
  multiplier
                  int(11)
                                YES
                                              NULL
 rows in set (0.006 sec)
MariaDB [lab_homework_01]> select * from developers;
                                                                            joining_date | multiplier
  member_id |
              name
                                   email
                                                               followers
              Taylor Otwell
                                   otwell@laravel.com
                                                                  739360
                                                                            2020-06-10
                                                                                                    10
          1
          2
              Ryan Dahl
                                   ryan@nodejs.org
                                                                  633632
                                                                            2020-04-22
                                                                                                    10
          3
              Brendan Eich
                                   eich@javascript.com
                                                                  939570
                                                                            2020-05-07
                                                                                                     8
                                                                                                     7
          5
              Evan You
                                   you@vuejs.org
                                                                  982630
                                                                            2020-06-11
          6
              Rasmus Lerdorf
                                   lerdorf@php.net
                                                                  937927
                                                                            2020-06-03
                                                                                                     8
          7
              Guido Van Rossum
                                                                                                    19
                                  guido@python.org
                                                                  968827
                                                                            2020-07-18
                                                                  570724
              Adrian Holovaty
                                   adrian@djangoproject.com
                                                                                                     5
          8
                                                                            2020-05-07
                                                                                                     4
          9
              Simon Willison
                                   simon@djangoproject.com
                                                                  864615
                                                                            2020-04-30
         10
              James Gosling
                                   james@java.com
                                                                  719491
                                                                                                     5
                                                                            2020-05-18
                                                                                                     7
         11
              Rod Johnson
                                   rod@spring.io
                                                                  601744
                                                                            2020-05-18
         12
              Satoshi Nakamoto
                                  nakamoto@blockchain.com
                                                                  630488
                                                                            2020-05-10
                                                                                                    10
11 rows in set (0.002 sec)
```

3)select member_id, name, email, joining_date, multiplier, followers+10 from developers;

member_id	name	email	joining_date	multiplier	followers+10
1	Taylor Otwell	otwell@laravel.com	2020-06-10	10	739370
2	Ryan Dahl	ryan@nodejs.org	2020-04-22	10	633642
3	Brendan Eich	eich@javascript.com	2020-05-07	8	939580
5	Evan You	you@vuejs.org	2020-06-11	7	982640
6	Rasmus Lerdorf	lerdorf@php.net	2020-06-03	8	937937
7	Guido Van Rossum	guido@python.org	2020-07-18	19	968837
8	Adrian Holovaty	adrian@djangoproject.com	2020-05-07	5	570734
9	Simon Willison	simon@djangoproject.com	2020-04-30	4	864625
10	James Gosling	james@java.com	2020-05-18	5	719501
11	Rod Johnson	rod@spring.io	2020-05-18	7	601754
12	Satoshi Nakamoto	nakamoto@blockchain.com	2020-05-10	10	630498

4) select name, email, followers from developers;

MariaDB [lab_homework_01]> select name, email, followers from developers;						
name	email	followers				
Taylor Otwell Ryan Dahl Brendan Eich Evan You Rasmus Lerdorf Guido Van Rossum Adrian Holovaty Simon Willison James Gosling	otwell@laravel.com ryan@nodejs.org eich@javascript.com you@vuejs.org lerdorf@php.net guido@python.org adrian@djangoproject.com simon@djangoproject.com james@java.com	739360 633632 939570 982630 937927 968827 570724 864615 719491				
Rod Johnson Satoshi Nakamoto	rod@spring.io nakamoto@blockchain.com	601744 630488				
!						

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

```
MariaDB [lab_homework_01]> select name, ((followers*100/1000000) * (multiplier*100/20))/100 as efficiency from developers;
                   | efficiency
 name
 Taylor Otwell
                    36.9680000000000
  Ryan Dahl
                     31.6816000000000
 Brendan Eich
                     37.582800000000
                     34.392050000000
 Evan You
 Rasmus Lerdorf
                    37.517080000000
 Guido Van Rossum
                     92.038565000000
 Adrian Holovaty
                    14.268100000000
 Simon Willison
                     17.2923000000000
  James Gosling
                     17.987275000000
 Rod Johnson
                     21.061040000000
 Satoshi Nakamoto | 31.524400000000
11 rows in set (0.008 sec)
```