

CSE370

Database system

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Section: 08

Lab assignment: 01

Date of Submission: 05/ 10 / 2023

Answer to the question no 1

```
Query:
create table Developers
(
member_id int,
name varchar(40),
email varchar(40),
influence_count int,
Joining date date,
```

multiplier int

);

```
MariaDB [cse370_lab_assignment_23241108]> create table Developers
    -> (
    -> member_id int,
    -> name varchar(40),
    -> email varchar(40),
    -> influence_count int,
    -> Joining_date date,
    -> multiplier int
    -> );
Query OK, 0 rows affected (0.017 sec)
```

Query: describe developers;

```
MariaDB [cse370_lab_assignment_23241108]> describe developers;
  Field
                     Type
                                    Null
                                           Key
                                                 Default
                                                            Extra
 member_id
                     int(11)
                                    YES
                                                 NULL
 name
                     varchar(40)
                                    YES
                                                 NULL
 email
                     varchar(40)
                                    YES
                                                  NULL
 influence_count
                     int(11)
                                                 NULL
                                    YES
  Joining_date
                                    YES
                                                 NULL
                     date
 multiplier
                     int(11)
                                    YES
                                                 NULL
6 rows in set (0.022 sec)
```

Query:

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

```
MariaDB [cse370_lab_assignment_23241108]> 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@djangoproject.com', 570724, '2020-05-07', 5),

-> (9, 'Simon Willison', 'simon@djangoproject.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, 11 rows affected (0.004 sec)

Records: 11 Duplicates: 0 Warnings: 0
```

Query:

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@djangoproject.com	570724	2020-05-07	5
9	Simon Willison	simon@djangoproject.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

Answer to the question no 2

Query:

alter table developers change influence count followers int;

```
MariaDB [cse370_lab_assignment_23241108]> alter table developers change influence_count followers int;
Query OK, 0 rows affected (0.020 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Ouerv:

select * from developers;

```
MariaDB [cse370_lab_assignment_23241108]> 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
             Brendan Eich
                                 eich@javascript.com
                                                                939570
                                                                         2020-05-07
             Evan You
                                 you@vuejs.org
                                                                982630
                                                                         2020-06-11
             Rasmus Lerdorf
                                 lerdorf@php.net
                                                                937927
                                                                         2020-06-03
                                                                                                  8
          6
          7
             Guido van Rossum |
                                 guido@python.org
                                                                968827
                                                                         2020-07-18
                                                                                                 19
              Adrian Holovaty
                                 adrian@djangoproject.com
                                                                570724
                                                                         2020-05-07
             Simon Willison
                                 simon@djangoproject.com
                                                                864615
                                                                         2020-04-30
         10 l
                                                                719491
                                                                         2020-05-18
                                                                                                  5
             James Gosling
                                 james@java.com
         11 I
             Rod Johnson
                                 rod@spring.io
                                                                601744
                                                                         2020-05-18
         12 | Satoshi Nakamoto | nakamoto@blockchain.com
                                                                630488 |
                                                                         2020-05-10
                                                                                                 10
11 rows in set (0.000 sec)
```

Answer to the question no 3

Query:

update developers set followers=followers+10;

```
MariaDB [cse370_lab_assignment_23241108]> update developers set followers=followers+10;
Query OK, 11 rows affected (0.009 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

Query:

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@djangoproject.com	570734	2020-05-07	5
9	Simon Willison	simon@djangoproject.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

Answer to the question no 4

Query:

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

		((followers*100/1000000) * (multiplier*100/20))/100 as Efficiency from developers;			
name	Efficiency				
Taylor Otwell Ryan Dahl Brendan Eich Evan You Rasmus Lerdorf Guido van Rossum Adrian Holovaty Simon Willison James Gosling Rod Johnson Satoshi Nakamoto	14.268350000000 17.292500000000 17.987525000000 21.061390000000				
+					

Answer to the question no 5

Query:

select name, email from developers order by followers desc limit 5;

Answer to the question no 6

Query:

select name from developers where followers < 700000 order by multiplier desc;

Answer to the question no 7

Query:

select avg(followers) from developers where joining_date < '2020-06-11';

Answer to the question no 8

Query:

select member id, name, email, followers from developers where email like '%.com' or email like '%.net';