

CSE370 Assignment 1

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Sec: 04

1. Create the above table with appropriate data type for each column.

create database Developers;

use Developers;

create table Developers

- -> (
- -> member_id char(4),
- -> name varchar(30),
- -> email varchar(30),
- -> influence_count int,
- -> Joining_date date,
- -> multiplier int
- ->);

show tables;

describe Developers;

```
# Bayked - or took - 9
Enter password:
Enter p
```

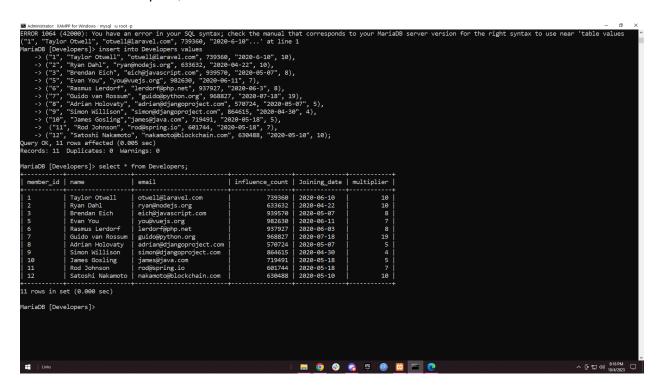
insert into Developers values

-> ("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);

select * from Developers;

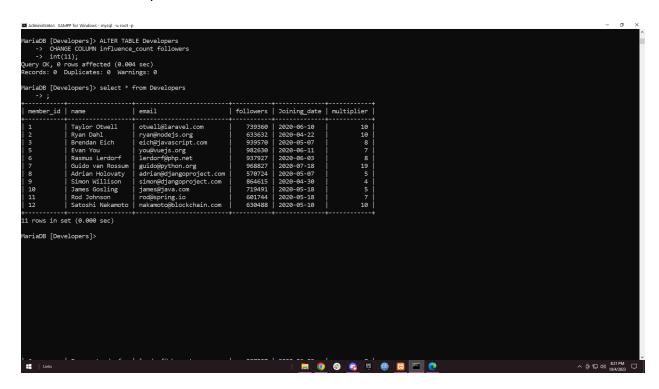


2. Change the column name "influence_count". The new name should be "followers" and the data type should be integer.

ALTER TABLE Developers

- -> CHANGE COLUMN influence count followers
- -> int(11);

select * from Developers;



3. Update the number of followers of each developer by +10.

Update Developers

-> SET followers = followers + 10;

select * from Developers;

```
MariaDB [Developers]> Update Developers
    -> SET followers = followers + 10;
Query OK, 11 rows affected (0.002 sec)
Rows matched: 11 Changed: 11 Warnings: 0
MariaDB [Developers]> select * from Developers;
 member_id | name
                               email
                                                          | followers | Joining_date | multiplier |
              Taylor Otwell
                               otwell@laravel.com
                                                               739370
                                                                        2020-06-10
                                                               633642
                                                                        2020-04-22
             Ryan Dahl
                                ryan@nodejs.org
                                                                                                10
             Brendan Eich
                               eich@javascript.com
                                                               939580
                                                                        2020-05-07
                                                                                                8
 5
                                                                        2020-06-11
                                                                                                 7
             Evan You
                                 you@vuejs.org
                                                               982640
             Rasmus Lerdorf
                                lerdorf@php.net
                                                               937937
                                                                        2020-06-03
                                                                                                 8
 6
7
8
             Guido van Rossum | guido@python.org
                                                                        2020-07-18
                                                                                                19
                                                               968837
             Adrian Holovaty
                                 adrian@djangoproject.com
                                                               570734
                                                                        2020-05-07
                                                                                                5
             Simon Willison
 9
                                 simon@djangoproject.com
                                                               864625
                                                                        2020-04-30
  10
              James Gosling
                                 james@java.com
                                                               719501
                                                                        2020-05-18
             Rod Johnson
                                 rod@spring.io
                                                               601754
                                                                        2020-05-18
 12
                                                                        2020-05-10
             Satoshi Nakamoto | nakamoto@blockchain.com
                                                               630498
                                                                                                10
11 rows in set (0.000 sec)
MariaDB [Developers]>
```

4. There is a formula to find the efficiency of the developers. Efficiency = ((followers*100/1000000) * (multipliers*100/20))/100. Show the efficiency of each developer in a column named "Efficiency" along with their name.

Select name, ((followers*100/1000000) * (multiplier*100/20)) /100 as

-> Efficiency from Developers;

5. Show the name and email of the developers who have the 5 highest numbers of followers.

select name, email from Developers

-> order by followers desc limit 5;

6. Show the name of all users with the maximum multiplier among the developers whose number of followers is less than 700000.

Select name From Developers Where followers < 700000

-> AND multiplier = (Select MAX(multiplier) From Developers Where followers < 700000);

7. Find the average of the number of followers but only consider the members who joined before 11 June 2020.

select avg(followers) as avg_followers from Developers

-> where Joining_date < '2020-06-11';

```
MariaDB [developers]> select avg(followers) as avg_followers from Developers
-> where Joining_date < '2020-06-11';
+-----+
| avg_followers |
+-----+
| 737515.6667 |
+-----+
1 row in set (0.000 sec)
```

8. Retrieve the member_ id, name, email and followers of the developers who have either ".com" or ".net" in their email address.

SELECT member id, name, email, followers From Developers

-> where email like '%.com' or email like '%.net';

MariaDB [developers]> SELECT member_id, name, email, followers From Developers -> where email like '%.com' or email like '%.net'; member id | name | email followers Taylor Otwell otwell@laravel.com 739370 Brendan Eich eich@javascript.com 939580 6 Rasmus Lerdorf lerdorf@php.net 937937 Adrian Holovaty adrian@djangoproject.com 8 570734 9 Simon Willison simon@djangoproject.com 864625 James Gosling james@java.com 10 719501 Satoshi Nakamoto | nakamoto@blockchain.com 12 630498

rows in set (0.000 sec)