# CSE-370

# **Lab Assignment - 01**

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Section: 04

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(Snapshots from XAMPP-Shell)

#### TASK-1

Create the table

Command to create table with appropriate data type

```
use cse370_db;
 1
   create table Developers
 2
 3
       member_id int auto_increment,
 4
 5
       name varchar(30),
 6
       email varchar(50),
       influence_count int,
 1
       Joining_date date,
 8
9
       multiplier int,
       primary key(member_id)
10
11 );
```

#### Show Result:

```
Your SQL query has been executed successfully.

show tables;
Profiling [ Edit inline ] [ Edit ] [ Create PHP code ] [ Refresh ]

Extra options

Tables_in_cse370_db
developers
```

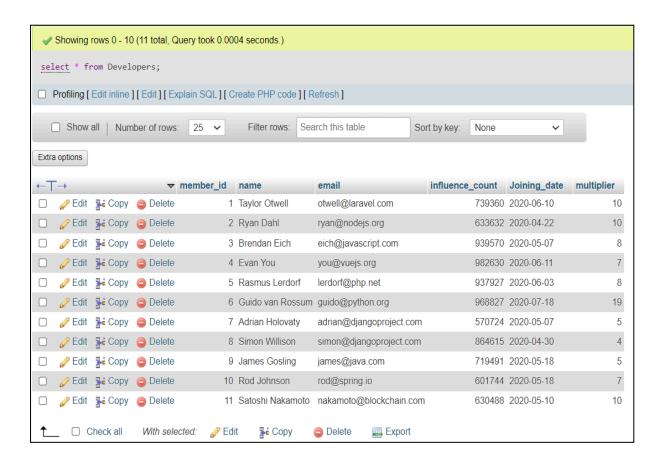
```
Your SQL query has been executed successfully.
 describe Developers;
[ Edit inline ] [ Edit ] [ Create PHP code ]
 Extra options
Field
                                         Default
                Туре
                            Null
                                  Key
                                                   Extra
member_id
                int(11)
                           NO
                                  PRI
                                         NULL
                                                   auto increment
                                         NULL
name
                varchar(30) YES
email
                varchar(50) YES
                                         NULL
influence_count int(11)
                                         NULL
                            YES
                            YES
Joining_date
                date
                                         NULL
multiplier
                                         NULL
                int(11)
                            YES
```

#### Insert Data into Table

Command to insert data, (used NULL for member\_id as we are setting it on auto-increment.)

```
1  use cse370_db;
2  INSERT INTO developers values
3  (NULL, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10),
4  (NULL, 'Ryan Dahl', 'ryan@nodejs.org', 633632, '2020-04-22', 10),
5  (NULL, 'Brendan Eich', 'eich@javascript.com', 939570, '2020-05-07', 8),
6  (NULL, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
7  (NULL, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8),
8  (NULL, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),
9  (NULL, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),
10  (NULL, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4),
11  (NULL, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5),
12  (NULL, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),
13  (NULL, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020-05-10', 10);
```

#### Show Result:



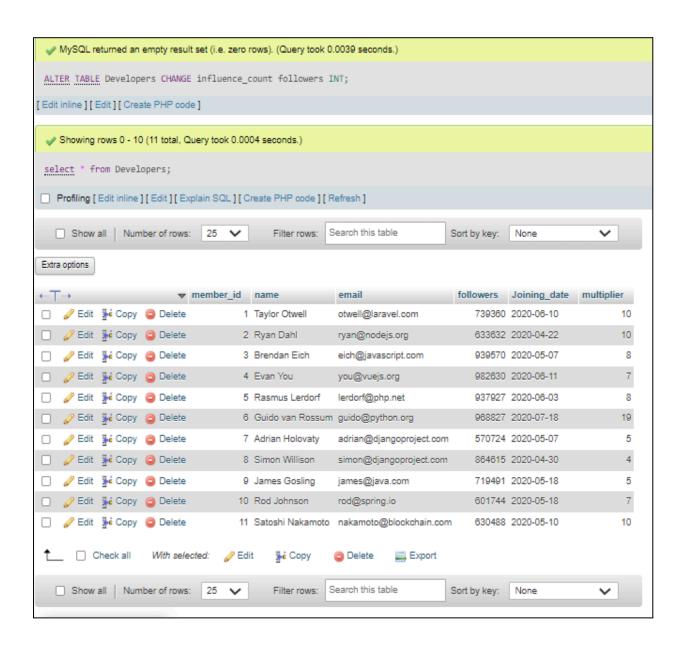
Change column name

Alter table to change column name and data-type:

Command and affected results are shown below-

### **SQL Command:**

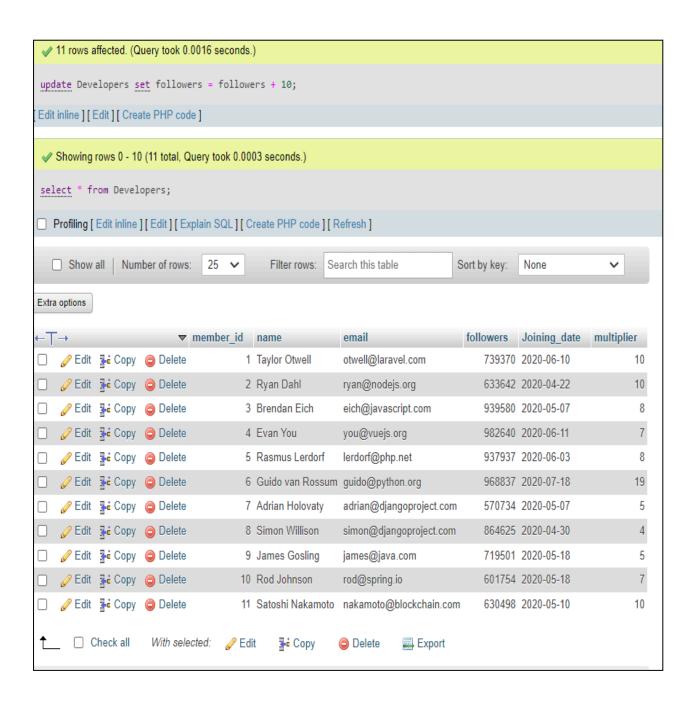
ALTER TABLE Developers CHANGE influence\_count followers INT;



UPDATE The Value of followers column by adding 10

## **SQL Command:**

update Developers set followers = followers + 10;

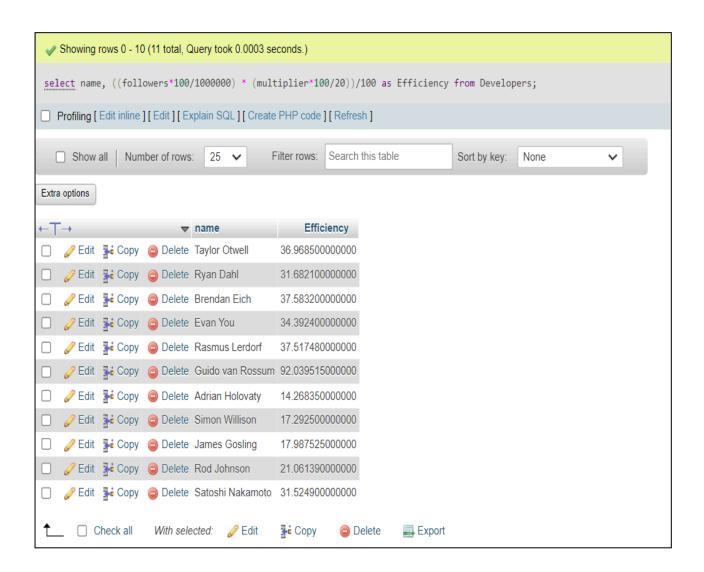


Efficiency = ((followers\*100/1000000) \* (multiplier\*100/20))/100.

Efficiency of each developer in a column named "Efficiency" along with their name -

## **SQL Command:**

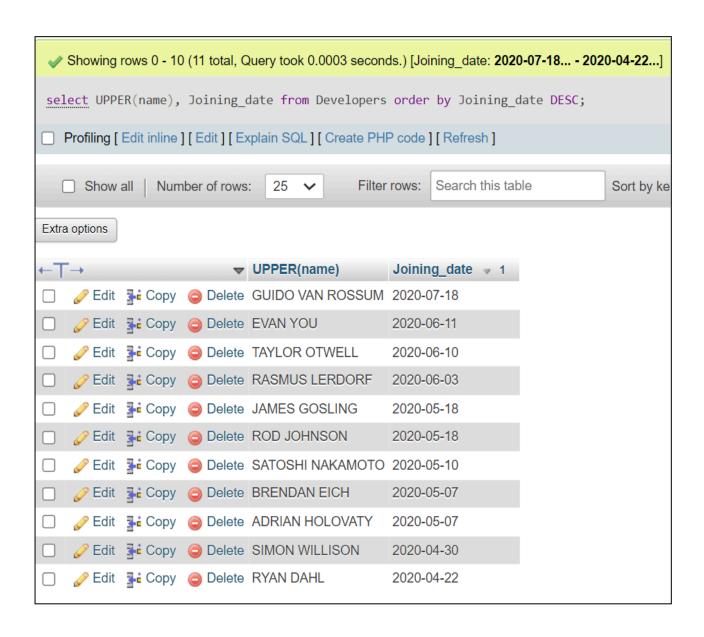
```
select name, ((followers*100/1000000) *
(multiplier*100/20))/100 as Efficiency from
Developers;
```



Show name in upper-class and sort them by descending order of joining date

## **SQL Command:**

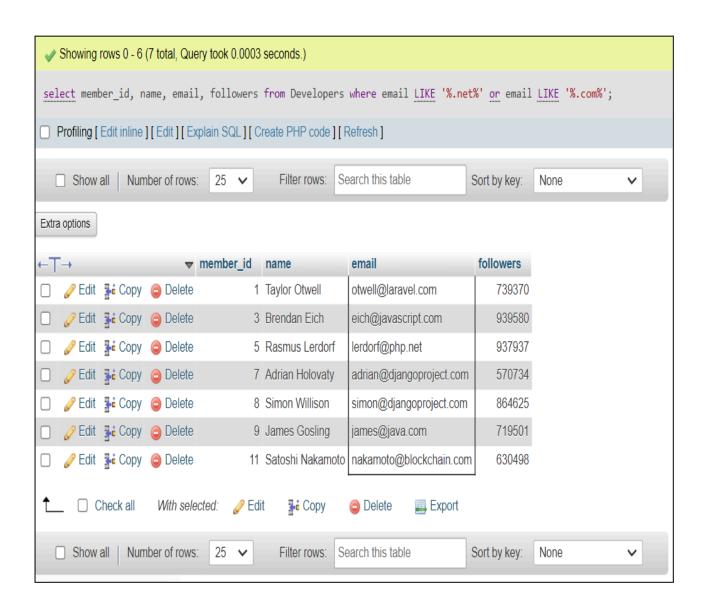
select UPPER(name), Joining\_date from Developers
order by Joining date DESC;



Show id, name, email, followers where email contains .com or .net. Used the LIKE keyword from SQL.

### **SQL Command:**

```
select member_id, name, email, followers from
Developers where email LIKE '%.net%' or email LIKE
'%.com%';
```



#### **Add Commands as plain text:**

To Show Table Information

- show tables:
- describe Developers;

To Create Database

• create DATABASE cse370\_db;

To work in particular Database

• **use** cse370\_db;

Task-1 (Create Table Column with data-types)

• create table Developers

```
member_id int auto_increment,
name varchar(30),
email varchar(50),
influence_count int,
Joining_date date,
multiplier int,
primary key(member_id)
);
```

## Task-1 (Insert Info into Table)

• INSERT INTO developers values

```
(NULL, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10), (NULL, 'Ryan Dahl', 'ryan@nodejs.org', 633632, '2020-04-22', 10), (NULL, 'Brendan Eich', 'eich@javascript.com', 939570,'2020-05-07', 8), (NULL, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7), (NULL, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8), (NULL, 'Guido van Rossum', 'guido@python.org', 968827,'2020-07-18', 19),
```

(NULL, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),

(NULL, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4),

(NULL, 'James Gosling', 'james@java.com', 719491,'2020-05-18', 5),

(NULL, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),

(NULL, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488','2020-05-10', 10);

## To Show all Data of Created Table

• **select** \* **from** Developers;

Task-2

- ALTER TABLE Developers CHANGE influence\_count followers INT;

  Task-3
- update Developers set followers = followers + 10;
   Task-4
- **select** name, ((followers\*100/1000000) \* (multiplier\*100/20))/100 **as** Efficiency **from** Developers;

Task-5

 select UPPER(name), Joining\_date from Developers order by Joining\_date DESC;

Task-6

 select member\_id, name, email, followers from Developers where email LIKE '%.net%' or email LIKE '%.com%';