Department of Computer Science and Engineering

Course Code: CSE 370	Credits: 3.0
Course Name: Database Systems	

Lab Homework 2

Create database:

create database home work 2;

use home_work_2;

```
MariaDB [(none)]> create database home_work_2;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> use home_work_2;
Database changed
```

Create Table:

create table Developers(member_id INT primary key, name varchar(50), email varchar(100), followers INT, joining date Date, multiplier INT);

```
MariaDB [home_work_2]> create table Developers(
-> member_id INT primary key, name varchar(50), email varchar(100), followers INT, joining_date Date, multiplier INT);
Query OK, 0 rows affected (0.032 sec)
```

Insert info:

INSERT INTO Developers (member_id, name, email, followers, joining_date, multiplier)

VALUES

- (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);

```
MariaDB [home_work_2]> INSERT INTO Developers (member_id, name, email, followers, joining_date, multiplier)
     -> VALUES
    -> (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, '2020-06-10', 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),
    Query OK, 11 rows affected (0.010 sec)
Records: 11 Duplicates: 0 Warnings: 0
MariaDB [home_work_2]> select * from Developers;
  member id | name
                                           email
                                                                            followers
                                                                                              joining date | multiplier
                  Taylor Otwell
                                           otwell@laravel.com
                                                                                                                             10
                                           ryan@nodejs.org
                                                                                               2020-04-22
                  Ryan Dahl
                                                                                   633632
                                                                                                                             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
                                                                                               2020-07-18
                 Guido van Rossum
                                                                                                                             19
                                           guido@python.org
                                                                                   968827
                 Adrian Holovaty
                                           adrian@djangoproject.com
                                                                                   570724
                                                                                               2020-05-07
                 Simon Willison
                                           simon@djangoproject.com
                                                                                   864615
                                                                                               2020-04-30
           10
                  James Gosling
                                           james@java.com
                                                                                   719491
                                                                                               2020-05-18
                  Rod Johnson
                                                                                               2020-05-18
           11
                                           rod@spring.io
                                                                                   601744
           12
                 Satoshi Nakamoto
                                           nakamoto@blockchain.com
                                                                                   630488
                                                                                               2020-05-10
                                                                                                                             10
11 rows in set (0.003 sec)
```

Task

select distinct joining_date from Developers order by joining_date asc;

2. SELECT name, email FROM Developers ORDER BY followers DESC LIMIT 5;

3. SELECT multiplier, COUNT(*) as count FROM Developers GROUP BY multiplier;

 SELECT name FROM Developers WHERE followers < 700000 GROUP BY multiplier HAVING multiplier = MAX(multiplier);

- 5. SELECT AVG(followers) AS average_followers FROM Developers WHERE joining date < '2020-06-11';
- 6. SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net';

```
ariaDB [home_work_2]> SELECT AVG(followers) AS average_followers FROM Developers WHERE joining_date < '2020-06-11';
average_followers |
      737505.6667
row in set (0.002 sec)
ariaDB [home_work_2]> 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
                                                                739360
            Brendan Eich
                                eich@javascript.com
                                                                939570
        6 | Rasmus Lerdorf
                                lerdorf@php.net
                                                                937927
        8 | Adrian Holovaty
                                adrian@djangoproject.com
                                                                570724
        9 | Simon Willison
                                simon@djangoproject.com
                                                                864615
       10 | James Gosling | james@java.com
12 | Satoshi Nakamoto | nakamoto@blockchain.com
                                                                719491
                                                                630488
rows in set (0.003 sec)
```