CSE370: Database Systems

Assignment 01/02/03 | Spring 2025

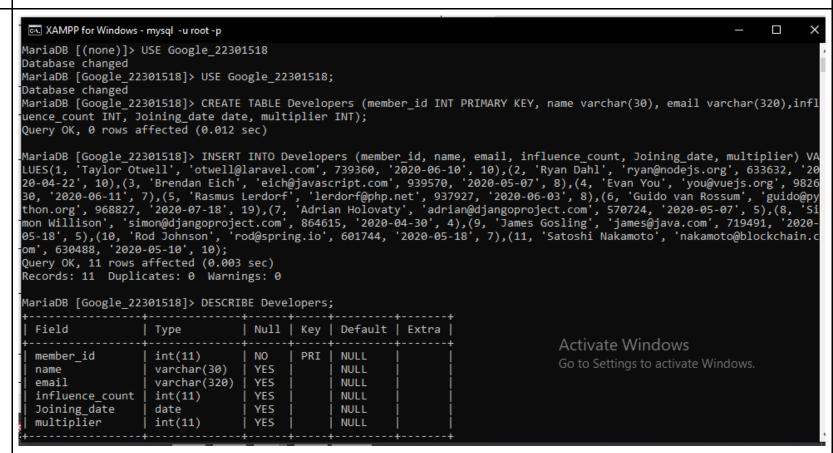
ID: 22301518 | Name: Adittya Kumar Chowdhury

No 1 Query (as Plain Text)	1) CREATE DATABASE Google_22301518; 2) USE Google_22301518
No 1 SS (of Query & Output in Shell)	Setting environment for using XAMPP for Windows. Jser@DESKTOP-T19MFTD c:\xampp # mysql -u root -p Enter password: Welcome to the MariaDB monitor. Commands end with ; or \g. Your MariaDB connection id is 8 Server version: 10.4.32-MariaDB mariadb.org binary distribution Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others. Type 'help;' or '\h' for help. Type '\c' to clear the current input statement. MariaDB [(none)]> CREATE DATABASE Google_22301518; Query OK, 1 row affected (0.001 sec) MariaDB [(none)]> USE Google_22301518; Database changed MariaDB [Google_22301518]>
No 2 Query (as Plain Text)	 CREATE TABLE Developers (member_id INT PRIMARY KEY, name varchar(30), email varchar(320),influence_count INT, Joining_date date, multiplier INT); INSERT INTO Developers (member_id, name, email, influence_count, 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),(4, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),(5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-03', 8),(6, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),(7, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),(8, 'Simon Willison', 'simon@djangoproject.com', 864615, '2020-04-30', 4),(9, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5),(10, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),(11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);

- 3) DESCRIBE Developers;
- 4) SELECT * FROM Developers;

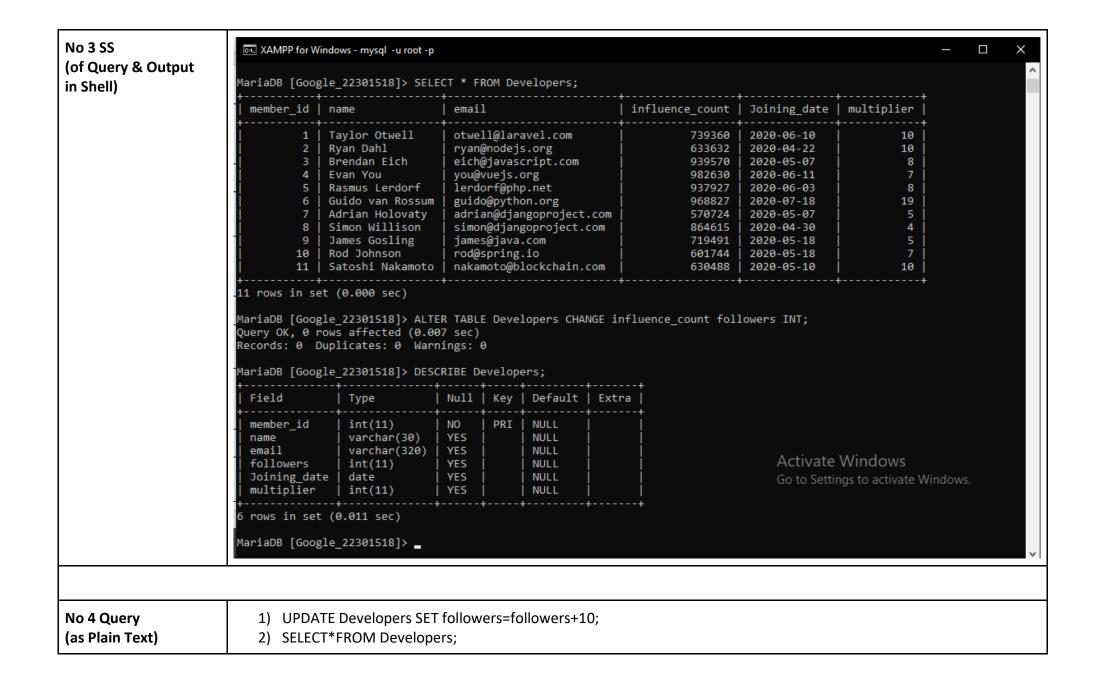
No 2 SS (of Query & Output in Shell)

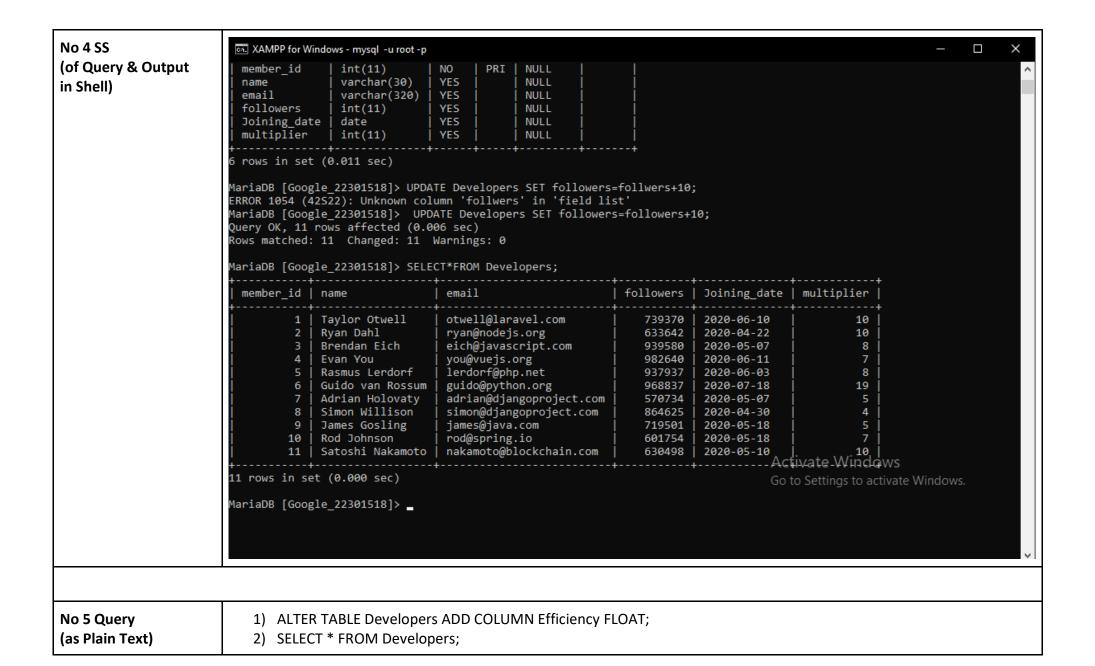


```
MariaDB [Google_22301518]> DESCRIBE Developers;
                                  Null | Key | Default | Extra
 Field
                   Type
 member id
                   int(11)
                                   NO
                                          PRI |
                                                NULL
                   varchar(30)
                                   YES
 name
                                                NULL
                   varchar(320)
 email
                                   YES
                                                NULL
 influence count
                   int(11)
                                   YES
                                                NULL
 Joining_date
                   date
                                   YES
                                                NULL
 multiplier
                   int(11)
                                   YES
                                                NULL
 rows in set (0.012 sec)
MariaDB [Google 22301518]> SELECT * FROM Developers;
 member id | name
                                                           influence count | Joining date | multiplier
                                 email
             Taylor Otwell
                                 otwell@laravel.com
                                                                     739360
                                                                               2020-06-10
                                                                                                      10
         2 | Ryan Dahl
                                 ryan@nodejs.org
                                                                     633632
                                                                               2020-04-22
                                                                                                      10
                                 eich@javascript.com
             Brendan Eich
                                                                     939570
                                                                               2020-05-07
                                                                                                       8
         4 | Evan You
                                 you@vuejs.org
                                                                     982630
                                                                               2020-06-11
                                 lerdorf@php.net
             Rasmus Lerdorf
                                                                     937927
                                                                               2020-06-03
                                                                                                       8
                                 guido@python.org
             Guido van Rossum
                                                                     968827
                                                                               2020-07-18
                                                                                                      19
                                 adrian@djangoproject.com
             Adrian Holovaty
                                                                     570724
                                                                               2020-05-07
                                 simon@djangoproject.com
         8 | Simon Willison
                                                                     864615
                                                                               2020-04-30
         9 | James Gosling
                                                                              2020 COSTANTE Windows 5
                                 james@java.com
                                                                     719491
                                                                              2020-05-18
2020-05-10 tings to activate 10
         10 | Rod Johnson
                                 rod@spring.io
                                                                     601744
        11 | Satoshi Nakamoto | nakamoto@blockchain.com
                                                                     630488
11 rows in set (0.000 sec)
MariaDB [Google 22301518]> _
```

No 3 Query (as Plain Text)

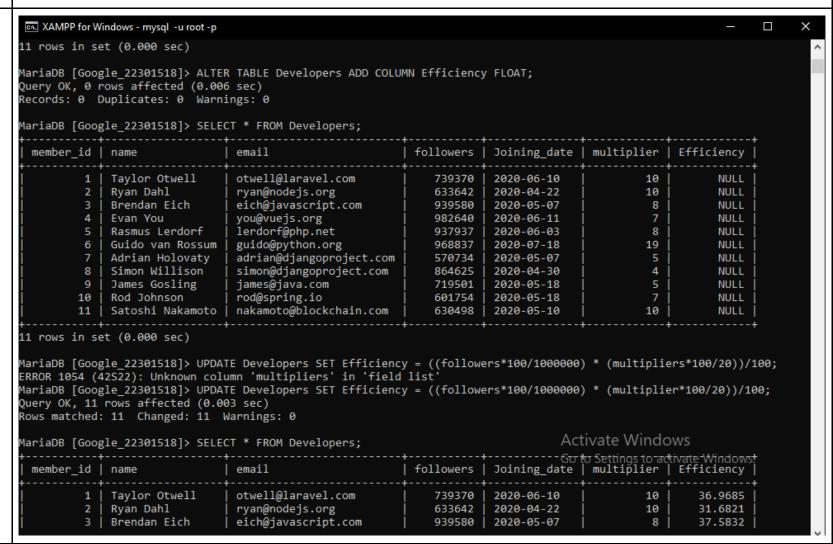
1) ALTER TABLE Developers CHANGE influence_count followers INT;

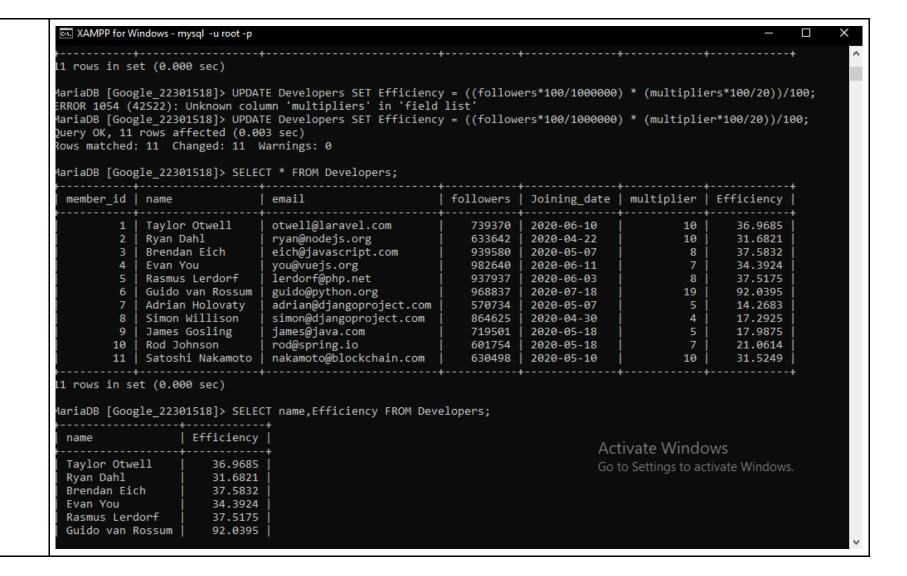


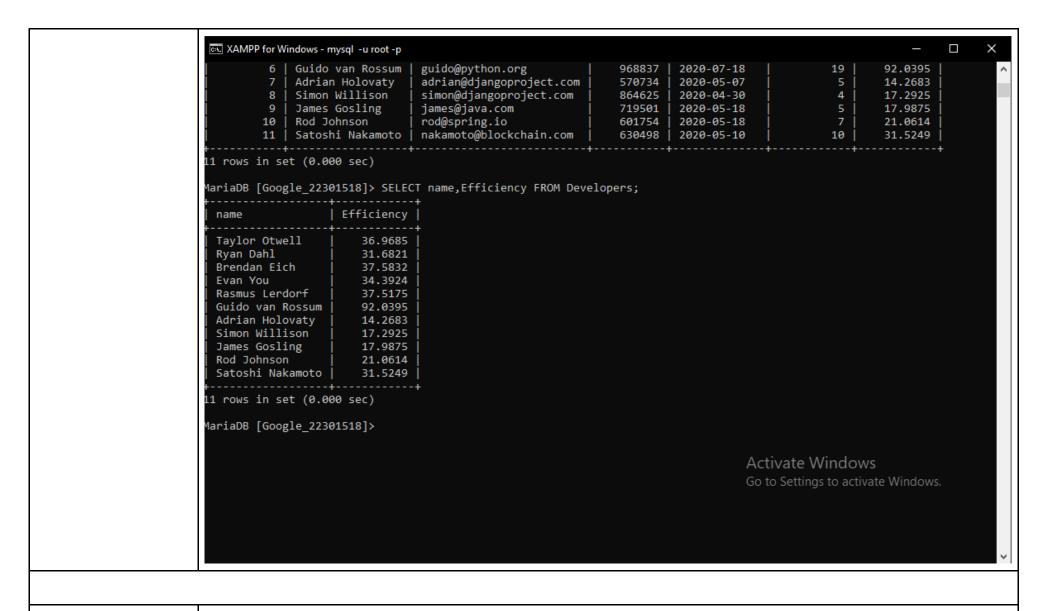


- 3) UPDATE Developers SET Efficiency = ((followers*100/1000000) * (multiplier*100/20))/100;
- 4) SELECT name, Efficiency FROM Developers;

No 5 SS (of Query & Output in Shell)







No 6 Query (as Plain Text)

1) SELECT UPPER(name), Joining_date FROM Developers ORDER BY Joining_date DESC;

```
No 6 SS
                                                                                                                                        XAMPP for Windows - mysql -u root -p
(of Query & Output
in Shell)
                           Taylor Otwell
                                                 36.9685
                           Ryan Dahl
                                                 31.6821
                           Brendan Eich
                                                 37.5832
                           Evan You
                                                 34.3924
                           Rasmus Lerdorf
                                                 37.5175
                           Guido van Rossum
                                                 92.0395
                           Adrian Holovaty
                                                 14.2683
                           Simon Willison
                                                 17.2925
                           James Gosling
                                                 17.9875
                           Rod Johnson
                                                21.0614
                           Satoshi Nakamoto | 31.5249
                         11 rows in set (0.000 sec)
                         MariaDB [Google_22301518]> SELECT UPPER(name) FROM Developers ORDER BY Joining_date DESC;
                           UPPER(name)
                           GUIDO VAN ROSSUM
                           EVAN YOU
                           TAYLOR OTWELL
                           RASMUS LERDORF
                           JAMES GOSLING
                           ROD JOHNSON
                           SATOSHI NAKAMOTO
                           BRENDAN EICH
                           ADRIAN HOLOVATY
                           SIMON WILLISON
                           RYAN DAHL
                         11 rows in set (0.000 sec)
                         MariaDB [Google 22301518]> SELECT UPPER(name),Joining date FROM Developers ORDER BY Joining date DESC;
                                            | Joining_date
                           UPPER(name)
                           GUIDO VAN ROSSUM | 2020-07-18
                           EVAN YOU
                                             2020-06-11
                           TAYLOR OTWELL
                                             2020-06-10
                           RASMUS LERDORF
                                             2020-06-03
                           JAMES GOSLING
                                              2020-05-18
                           ROD JOHNSON
                                              2020-05-18
                           SATOSHI NAKAMOTO | 2020-05-10
                                                                                                          Activate Windows
                           BRENDAN EICH
                                             2020-05-07
                           ADRIAN HOLOVATY
                                             2020-05-07
                                                                                                          Go to Settings to activate Windows.
                           SIMON WILLISON
                                             2020-04-30
                           RYAN DAHL
                                             2020-04-22
                         11 rows in set (0.000 sec)
```

MariaDB [Google 22301518]>

No 7 Query (as Plain Text)	1) SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net';

```
No 7 SS
                          XAMPP for Windows - mysql -u root -p
                                                                                                                                         (of Query & Output
                           ROD JOHNSON
                           SATOSHI NAKAMOTO
in Shell)
                           BRENDAN EICH
                           ADRIAN HOLOVATY
                           SIMON WILLISON
                           RYAN DAHL
                          11 rows in set (0.000 sec)
                          MariaDB [Google_22301518]> SELECT UPPER(name), Joining_date FROM Developers ORDER BY Joining_date DESC;
                           UPPER(name)
                                              Joining_date
                           GUIDO VAN ROSSUM | 2020-07-18
                           EVAN YOU
                                              2020-06-11
                           TAYLOR OTWELL
                                              2020-06-10
                           RASMUS LERDORF
                                              2020-06-03
                           JAMES GOSLING
                                              2020-05-18
                           ROD JOHNSON
                                              2020-05-18
                           SATOSHI NAKAMOTO | 2020-05-10
                           BRENDAN EICH
                                              2020-05-07
                           ADRIAN HOLOVATY | 2020-05-07
                           SIMON WILLISON
                                              2020-04-30
                           RYAN DAHL
                                            2020-04-22
                          11 rows in set (0.000 sec)
                          MariaDB [Google 22301518]> SELECT member id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LI
                          KE '%.net';
                           member_id | name | email
                                                                                   followers
                                                          otwell@laravel.com
                                   1 | Taylor Otwell
                                   3 | Brendan Eich
                                                          eich@javascript.com
                                                                                        939580
                                   5 | Rasmus Lerdorf
                                                          lerdorf@php.net
                                                                                        937937
                                   7 | Adrian Holovaty
                                                          adrian@djangoproject.com
                                                                                        570734
                                   8 | Simon Willison
                                                          simon@djangoproject.com
                                                                                        864625
                                  9 | James Gosling | james@java.com |
11 | Satoshi Nakamoto | nakamoto@blockchain.com |
                                                                                        719501
                                                                                       630498
                          7 rows in set (0.000 sec)
                          MariaDB [Google_22301518]> _
                                                                                                          Activate Windows
                                                                                                           Go to Settings to activate Windows.
```