CSE370: Database Systems

Assignment 01 | Fall 2024

ID: 22201421 | Name: Masrura Nahian Nodi

Make a PDF after completing the assignment

```
No 1 Query
                          create database Google 22201421;
(as Plain Text)
                          create table Developers
                            member id int,
                            name varchar(30),
                            email varchar(50),
                            influence count int,
                           Joining date date,
                            multiplier int
                          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),
                            (4,'Evan You','you@vuejs.org',982630,'2020-06-11',7),
                            (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 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)
                         show tables;
                          describe Developers;
                          select * from Developers;
```

```
No 1 SS
(of Query & Output
in Shell)
```

```
MariaDB [(none)]> create database Google_22201421;
Query OK, 1 row affected (0.002 sec)
MariaDB [(none)]> use Google_22201421;
Database changed
MariaDB [Google_22201421]> create table Developers
    -> (
    -> member_id int.
    -> name varchar(30),
    -> email varchar(50),
    -> influence_count int.
    -> Joining_date date,
    -> multiplier int
    -> ):
Query OK, 0 rows affected (1.859 sec)
MariaDB [Google_22201421] > 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),
    -> (4,'Evan You','you@vuejs.org',982630,'2020-06-11',7),
    -> (5,'Rasmus Lerdorf','lerdorf@php.net',937927,'2020-06-3',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)
    -> :
Query OK, 11 rows affected (2.256 sec)
Records: 11 Duplicates: 0 Warnings: 0
```

```
MariaDB [Google_22201421]> show tables;
  Tables_in_google_22201421
  developers
1 row in set (0.435 sec)
MariaDB [Google_22201421]> describe Developers;
                                  Null | Key | Default | Extra
  Field
                    Type
  member_id
                    int(11)
                                                NULL
                                   YES
                    varchar(30)
                                  YES
                                                NULL
  name
  email
                    varchar(50)
                                  YES
                                                NULL
                    int(11)
                                  YES
  influence_count |
                                                NULL
  Joining_date
                                  YES
                                                NULL
                    date
  multiplier
                    int(11)
                                  YES
                                                NULL
6 rows in set (0.519 sec)
MariaDB [Google_22201421]> select * from Developers;
                                                            influence_count | Joining_date | multiplier
  member_id | name
                                 email
              Taylor Otwell
                                 otwell@laravel.com
                                                                               2020-06-10
                                                                      739360
                                                                                                       10
                                 rvan@nodejs.org
                                                                                                       10
              Ryan Dahl
                                                                      633632
                                                                               2020-04-22
                                 eich@javascript.com
              Brendan Eich
                                                                                                       8
                                                                      939570
                                                                               2020-05-07
                                                                                                       7
              Evan You
                                 vou@vuejs.org
                                                                      982630
                                                                               2020-06-11
              Rasmus Lerdorf
                                 lerdorf@php.net
                                                                                                       8
                                                                      937927
                                                                               2020-06-03
              Guido van Rossum
                                 guido@python.org
                                                                      968827
                                                                               2020-07-18
                                                                                                       19
              Adrian Holovaty
                                 adrian@djangoproject.com
                                                                      570724
                                                                               2020-05-07
                                                                                                       5
                                                                                                       4
                                 simon@djangoproject.com
          8 I
              Simon Willison
                                                                      864615
                                                                               2020-04-30
              James Gosling
                                                                                                       5
                                 james@java.com
                                                                      719491
                                                                               2020-05-18
                                 rod@spring.io
                                                                                                       7
         10 l
              Rod Johnson
                                                                      601744
                                                                               2020-05-18
                                 nakamoto@blockchain.com
              Satoshi Nakamoto
                                                                                                       10
                                                                      630488
                                                                               2020-05-10
11 rows in set (1.679 sec)
```

No 2 Query (as Plain Text)	alter table Developers change column influence_count followers int; select * from Developers;									
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [Google_22201421]> alter table Developers -> change column influence_count followers int; Query OK, 0 rows affected (0.507 sec) Records: 0 Duplicates: 0 Warnings: 0 MariaDB [Google_22201421]> select * from Developers;</pre>									
	+ member_id	 name	+ email	followers	Joining_date	multiplier				
	+	Taylor Otwell Ryan Dahl Brendan Eich Evan You Rasmus Lerdorf Guido van Rossum Adrian Holovaty Simon Willison James Gosling Rod Johnson Satoshi Nakamoto			2020-04-22 2020-05-07 2020-06-11 2020-06-03 2020-07-18 2020-05-07					

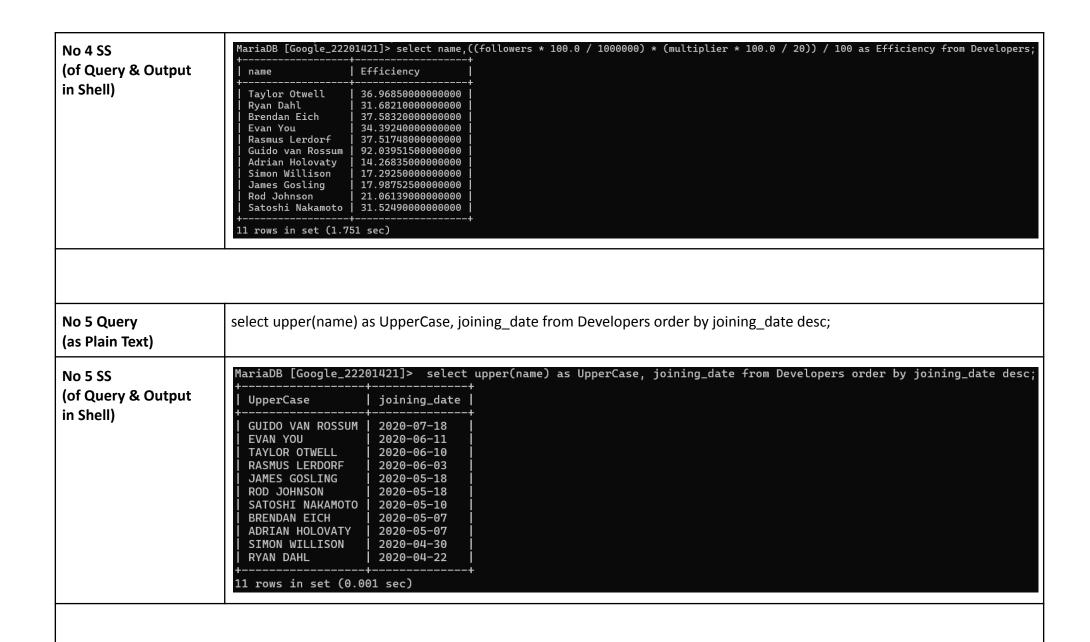
No 3 Query (as Plain Text) update Developers set followers = followers + 10; select * from Developers;

No 3 SS (of Query & Output in Shell)

```
MariaDB [Google_22201421]> update Developers
    -> set followers = followers + 10;
Query OK, 11 rows affected (1.865 sec)
Rows matched: 11 Changed: 11 Warnings: 0
MariaDB [Google_22201421]> select * from Developers;
  member_id | name
                                 email
                                                            followers | Joining_date | multiplier
                                 otwell@laravel.com
              Taylor Otwell
                                                               739370
                                                                        2020-06-10
                                                                                                10
              Ryan Dahl
                                 ryan@nodejs.org
                                                               633642
                                                                        2020-04-22
                                                                                                10
              Brendan Eich
                                 eich@javascript.com
                                                               939580
                                                                        2020-05-07
                                                                                                8
              Evan You
                                 you@vuejs.org
                                                               982640
                                                                                                7
                                                                        2020-06-11
                                                                        2020-06-03
              Rasmus Lerdorf
                                 lerdorf@php.net
                                                               937937
                                                                                                8
              Guido van Rossum
                                 guido@python.org
                                                               968837
                                                                        2020-07-18
                                                                                               19
             Adrian Holovaty
                                 adrian@djangoproject.com
                                                                                                5
                                                               570734
                                                                        2020-05-07
                                                               864625
              Simon Willison
                                 simon@djangoproject.com
                                                                        2020-04-30
                                                                                                4
              James Gosling
                                 james@java.com
                                                               719501
                                                                        2020-05-18
                                                                                                5
             Rod Johnson
                                 rod@spring.io
                                                               601754
                                                                        2020-05-18
         10
                                                                                                7
                                 nakamoto@blockchain.com
                                                                        2020-05-10
                                                                                               10
         11 | Satoshi Nakamoto
                                                               630498
11 rows in set (0.002 sec)
```

No 4 Query (as Plain Text)

select name,((followers * 100.0 / 1000000) * (multiplier * 100.0 / 20)) / 100 as Efficiency from Developers;



No 6 Query (as Plain Text)	select member_id,name,email,followers from Developers where email like '%.com%' or email like '%.net%';						
No 6 SS (of Query & Output in Shell)	MariaDB [Google_22201421]> select member_id,name,email,followers from Developers where email like '%.com%' or email like '%.net%						
	member_id	name	email	followers			
	1 3 5 7 8 8 9 11 +7 rows in set		otwell@laravel.com eich@javascript.com lerdorf@php.net adrian@djangoproject.com simon@djangoproject.com james@java.com nakamoto@blockchain.com	739370 939580 937937 570734 864625 719501 630498			
L. 7.0		(2100) 366)					
No 7 Query							
(as Plain Text)							