### **CSE370 : Database Systems**

## Assignment 01/02/03 | Spring 2025

## ID: <8 Digit Student ID> | Name: Full Official Name

No 1 Query	• mysql -u root -p
· · · · · · · · · · · · · · · · · · ·	
(as Plain Text)	• CREATE DATABASE Google_==;
	• USE Google_====================================
	• create table Developers -> ( -> member_id INT PRIMARY KEY, -> name varchar(50), -> 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);
	DESCRIBE Developers;
	SELECT * FROM Developers;

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

```
MariaDB [Google_21301163]> DESCRIBE Developers;
                                  Null | Key | Default | Extra
  Field
                    Type
  member_id
                    int(11)
                                          PRI
                                               NULL
                                  NO
                    varchar(50)
                                  YES
  name
                                               NULL
                    varchar(50)
  email
                                  YES
                                               NULL
                    int(11)
  influence count
                                  YES
                                               NULL
  Joining_date
                    date
                                  YES
                                               NULL
  multiplier
                    int(11)
                                  YES
                                               NULL
6 rows in set (0.004 sec)
MariaDB [Google_21301163]> SELECT * FROM Developers;
                                                             influence_count | Joining_date | multiplier
  member_id | name
                                 email
              Taylor Otwell
                                 otwell@laravel.com
                                                                      739360
                                                                               2020-06-10
          1
                                                                                                       10
              Rvan Dahl
                                                                      633632
                                                                               2020-04-22
                                                                                                      10
                                 ryan@nodejs.org
              Brendan Eich
                                 eich@javascript.com
                                                                      939570
                                                                               2020-05-07
                                                                                                        8
              Evan You
                                 you@vuejs.org
                                                                      982630
                                                                               2020-06-11
                                                                                                        7
                                 lerdorf@php.net
              Rasmus Lerdorf
                                                                      937927
                                                                               2020-06-03
                                                                                                        8
              Guido van Rossum
                                 guido@python.org
                                                                      968827
                                                                               2020-07-18
                                                                                                       19
              Adrian Holovaty
                                 adrian@djangoproject.com
                                                                      570724
                                                                               2020-05-07
                                                                                                        5
              Simon Willison
                                 simon@djangoproject.com
                                                                               2020-04-30
                                                                                                        4
                                                                      864615
              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
11 rows in set (0.000 sec)
```

# No 2 Query (as Plain Text)

- ALTER TABLE Developers CHANGE influence\_count followers INT;
- DESCRIBE Developers;

#### No 2 SS (of Query & Output in Shell)

```
MariaDB [Google_21301163]> ALTER TABLE Developers CHANGE influence_count followers INT;
Query OK, 0 rows affected (0.017 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [Google_21301163]> DESCRIBE Developers;
 Field
                Type
                              Null | Key | Default | Extra
  member_id
                 int(11)
                               NO
                                      PRI
                                            NULL
                varchar(50)
                               YES
                                            NULL
  name
  email
                varchar(50)
                              YES
                                            NULL
  followers
                 int(11)
                               YES
                                            NULL
  Joining_date |
                date
                               YES
                                            NULL
  multiplier
                int(11)
                               YES
                                            NULL
6 rows in set (0.006 sec)
```

## 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\_21301163]> UPDATE Developers SET followers=followers+10; Query OK, 11 rows affected (0.006 sec) Rows matched: 11 Changed: 11 Warnings: 0 MariaDB [Google\_21301163]> SELECT\*FROM Developers; member\_id | name email followers | Joining\_date | multiplier otwell@laravel.com Taylor Otwell 739370 2020-06-10 10 Ryan Dahl 10 ryan@nodejs.org 633642 2020-04-22 Brendan Eich eich@javascript.com 939580 8 2020-05-07 you@vuejs.org 7 Evan You 982640 2020-06-11 Rasmus Lerdorf lerdorf@php.net 937937 2020-06-03 8 quido@python.org 968837 Guido van Rossum 2020-07-18 19 adrian@djangoproject.com Adrian Holovaty 570734 2020-05-07 5 simon@djangoproject.com 8 Simon Willison 864625 2020-04-30 4 James Gosling james@java.com 719501 2020-05-18 5 10 Rod Johnson rod@spring.io 601754 2020-05-18 nakamoto@blockchain.com 10 Satoshi Nakamoto 630498 2020-05-10 11 rows in set (0.002 sec)

## No 4 Query (as Plain Text)

ALTER TABLE Developers ADD COLUMN Efficiency FLOAT;

SELECT \* FROM Developers;

UPDATE Developers SET Efficiency = ((followers\*100/1000000) \* (multiplier\*100/20))/100;

SELECT \* FROM Developers;

SELECT name, Efficiency FROM Developers;

member_id	name	email	followers	Joining_date	multiplier	Efficiency
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10	NULI
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	NULI
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	NULI
4	Evan You	you@vuejs.org	982640	2020-06-11	7	NULI
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	NUL
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19	NUL
7	Adrian Holovaty	adrian@djangoproject.com	570734	2020-05-07	5	NUL
8	Simon Willison	simon@djangoproject.com	864625	2020-04-30	4	NUL
9	James Gosling	james@java.com	719501	2020-05-18	5	NUL
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7	NUL
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	NUL
MariaDB [Goo Query OK, 11 Rows matched	rows affected (0.0 : 11 Changed: 11		y = ((followe	ers*100/1000000)	) * (multiplio	er*100/20))
MariaDB [Goo Query OK, 11 Rows matched	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE	06 sec) Warnings: 0	+	ers*100/1000000)	· +	<b>+</b>
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +	06 sec) Warnings: 0 CT * FROM Developers; +   email +	   followers	Joining_date	   multiplier 	Efficienc
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +   member_id +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name   Taylor Otwell	06 sec) Warnings: 0 CT * FROM Developers; +   email +	+	Joining_date 2020-06-10	   multiplier 	+   Efficienc +   36.968
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +   member_id +   1	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name +   Taylor Otwell   Ryan Dahl	06 sec) Warnings: 0 CT * FROM Developers; +   email +   otwell@laravel.com   ryan@nodejs.org	+	Joining_date 2020-06-10 2020-04-22	   multiplier      10	+   Efficienc +   36.968   31.682
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name +   Taylor Otwell   Ryan Dahl   Brendan Eich	06 sec) Warnings: 0  CT * FROM Developers; +   email +   otwell@laravel.com   ryan@nodejs.org   eich@javascript.com	+	Joining_date 2020-06-10 2020-04-22 2020-05-07	   multiplier 	+   Efficienc +   36.968   31.682   37.583
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name +   Taylor Otwell   Ryan Dahl   Brendan Eich   Evan You	06 sec) Warnings: 0  CT * FROM Developers; +   email +   otwell@laravel.com   ryan@nodejs.org   eich@javascript.com   you@vuejs.org	+	Joining_date 2020-06-10 2020-04-22 2020-05-07 2020-06-11	   multiplier 	+   Efficienc +   36.968   31.682   37.583   34.392
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name +   Taylor Otwell   Ryan Dahl   Brendan Eich   Evan You   Rasmus Lerdorf	06 sec) Warnings: 0  CT * FROM Developers; +	+	Joining_date 2020-06-10 2020-04-22 2020-05-07 2020-06-11 2020-06-03	+	+   Efficienc +   36.968   31.682   37.583   34.392   37.517
MariaDB [Goo Query OK, 11 Rows matched MariaDB [Goo +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +   name +   Taylor Otwell   Ryan Dahl   Brendan Eich   Evan You   Rasmus Lerdorf   Guido van Rossum	06 sec) Warnings: 0  CT * FROM Developers; +	+	Joining_date 2020-06-10 2020-04-22 2020-05-07 2020-06-11 2020-06-03 2020-07-18	   multiplier 	+
MariaDB [Good Query OK, 11 Rows matched MariaDB [Good +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +	06 sec) Warnings: 0  CT * FROM Developers; +	+	Joining_date  2020-06-10 2020-04-22 2020-05-07 2020-06-11 2020-06-03 2020-07-18 2020-05-07	+	+   Efficienc +   36.968   31.682   37.583   34.392   37.517   92.039   14.268
MariaDB [Good Query OK, 11 Rows matched MariaDB [Good +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +	06 sec) Warnings: 0  CT * FROM Developers; +	+	Joining_date  2020-06-10 2020-04-22 2020-05-07 2020-06-11 2020-06-03 2020-07-18 2020-05-07		+   Efficienc +   36.968   31.682   37.583   34.392   37.517   92.039   14.268   17.292
MariaDB [Good Query OK, 11 Rows matched MariaDB [Good +	gle_21301163]> UPDA rows affected (0.0 : 11 Changed: 11 gle_21301163]> SELE +	06 sec) Warnings: 0  CT * FROM Developers; +	+	Joining_date  2020-06-10 2020-04-22 2020-05-07 2020-06-11 2020-06-03 2020-07-18 2020-05-07		+

No 5 Query

• SELECT UPPER(name) FROM Developers ORDER BY Joining\_date DESC;

#### (as Plain Text) • SELECT UPPER(name), Joining date FROM Developers ORDER BY Joining date DESC; No 5 SS MariaDB [Google\_21301163] > SELECT UPPER(name) FROM Developers ORDER BY Joining\_date DESC; (of Query & Output in Shell) 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 (0.001 sec) MariaDB [Google\_21301163] > 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 (0.001 sec)

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_21301163]> SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.    member_id   name	net';				