

CSE370 : Database Systems

Assignment 01/02/03 | Spring 2025

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

No 1 Query (as Plain Text)

- `mysql -u root -p`
- `CREATE DATABASE Google_2025;`
- `USE Google_2025;`
- `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@django.org',570724,'2020-05-07',5), -> ('8','Simon Willison','simon@django.org',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;
```

Field	Type	Null	Key	Default	Extra
member_id	int(11)	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
influence_count	int(11)	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;
```

member_id	name	email	influence_count	Joining_date	multiplier
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@django project.com	570724	2020-05-07	5
8	Simon Willison	simon@django project.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

```
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	
name	varchar(50)	YES		NULL	
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
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8
4	Evan You	you@vuejs.org	982640	2020-06-11	7
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19
7	Adrian Holovaty	adrian@django project.com	570734	2020-05-07	5
8	Simon Willison	simon@django project.com	864625	2020-04-30	4
9	James Gosling	james@java.com	719501	2020-05-18	5
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	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;
```

No 4 SS
(of Query & Output
in Shell)

```
MariaDB [Google_21301163]> SELECT * FROM Developers;
```

member_id	name	email	followers	Joining_date	multiplier	Efficiency
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10	NULL
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	NULL
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	NULL
4	Evan You	you@vuejs.org	982640	2020-06-11	7	NULL
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	NULL
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19	NULL
7	Adrian Holovaty	adrian@django project.com	570734	2020-05-07	5	NULL
8	Simon Willison	simon@django project.com	864625	2020-04-30	4	NULL
9	James Gosling	james@java.com	719501	2020-05-18	5	NULL
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7	NULL
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	NULL

```
11 rows in set (0.001 sec)
```

```
MariaDB [Google_21301163]> UPDATE Developers SET Efficiency = ((followers*100/1000000) * (multiplier*100/20))/100;
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	Efficiency
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10	36.9685
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	31.6821
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	37.5832
4	Evan You	you@vuejs.org	982640	2020-06-11	7	34.3924
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	37.5175
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19	92.0395
7	Adrian Holovaty	adrian@django project.com	570734	2020-05-07	5	14.2683
8	Simon Willison	simon@django project.com	864625	2020-04-30	4	17.2925
9	James Gosling	james@java.com	719501	2020-05-18	5	17.9875
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7	21.0614
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	31.5249

```
11 rows in set (0.001 sec)
```

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
(of Query & Output
in Shell)

```
MariaDB [Google_21301163]> 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 (0.001 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)	<ul style="list-style-type: none">SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net';
No 6 SS (of Query & Output in Shell)	<pre>MariaDB [Google_21301163]> SELECT member_id, name, email, followers FROM Developers WHERE email LIKE '%.com' OR email LIKE '%.net'; +-----+-----+-----+-----+ member_id name email followers +-----+-----+-----+-----+ 1 Taylor Otwell otwell@laravel.com 739370 3 Brendan Eich eich@javascript.com 939580 5 Rasmus Lerdorf lerdorf@php.net 937937 7 Adrian Holovaty adrian@django project.com 570734 8 Simon Willison simon@django project.com 864625 9 James Gosling james@java.com 719501 11 Satoshi Nakamoto nakamoto@blockchain.com 630498 +-----+-----+-----+-----+ 7 rows in set (0.001 sec) MariaDB [Google_21301163]> </pre>