

## CSE370 : Database Systems

### Assignment 01 | Summer 2025

ID : 24241189 | Name : Abdullah Al Mazid Zomader

<b>No 1 Query (as Plain Text)</b>	<pre>mysql -u root -p create database Google_24241189; use google_24241189;  create table Developers ( member_id int,   name varchar(40),   email varchar(60),   influence_count int,   Joining_date date,   multiplier int );  INSERT INTO Developers 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@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);</pre>
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No 1 SS  
(of Query & Output  
in Shell)

11:49 PM

Tuesday, July 1, 2025 (GMT+6)

XAMPP for Windows - mysql

MariaDB [google\_24241189]> INSERT INTO Developers

-> 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@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);

Query OK, 11 rows affected (0.001 sec)

Records: 11 Duplicates: 0 Warnings: 0

11:52 PM

Tuesday, July 1, 2025 (GMT+6)

XAMPP for Windows - mysql

MariaDB [google\_24241189]> 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;

No 2 SS  
(of Query & Output  
in Shell)

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11:57 PM
Tuesday, July 1, 2025 (GMT+6)

XAMPP for Windows - mysql

MariaDB [google_24241189]> ALTER TABLE Developers CHANGE influence_count followers int;
Query OK, 0 rows affected (0.004 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [google_24241189]> select * from developers;
```

member_id	name	email	followers	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 3 Query  
(as Plain Text)

UPDATE Developers  
SET followers = followers + 10;

No 3 SS  
(of Query & Output  
in Shell)

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12:03 AM
Wednesday, July 2, 2025 (GMT+6)

XAMPP for Windows - mysql

MariaDB [google_24241189]> UPDATE Developers
    -> SET followers = followers + 10;
Query OK, 11 rows affected (0.002 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [google_24241189]> select member_id, name, followers from developers;
+-----+-----+-----+
| member_id | name           | followers |
+-----+-----+-----+
| 1         | Taylor Otwell  | 739370    |
| 2         | Ryan Dahl      | 633642    |
| 3         | Brendan Eich   | 939580    |
| 4         | Evan You       | 982640    |
| 5         | Rasmus Lerdorf | 937937    |
| 6         | Guido van Rossum | 968837    |
| 7         | Adrian Holovaty | 570734    |
| 8         | Simon Willison | 864625    |
| 9         | James Gosling  | 719501    |
| 10        | Rod Johnson    | 601754    |
| 11        | Satoshi Nakamoto | 630498    |
+-----+-----+-----+
11 rows in set (0.000 sec)
```

**No 4 Query  
(as Plain Text)**

alter table developers add efficiency double;  
UPDATE Developers  
SET efficiency = ((followers\*100/1000000) \* (multipliers\*100/20))/100;

**No 4 SS  
(of Query & Output  
in Shell)**

```
12:06 AM
Wednesday, July 2, 2025 (GMT+6)

XAMPP for Windows - mysql

MariaDB [google_24241189]> alter table developers add efficiency double;
Query OK, 0 rows affected (0.004 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [google_24241189]> 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 (0.000 sec)
```

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12:09 AM
Wednesday, July 2, 2025 (GMT+6)

XAMPP for Windows - mysql

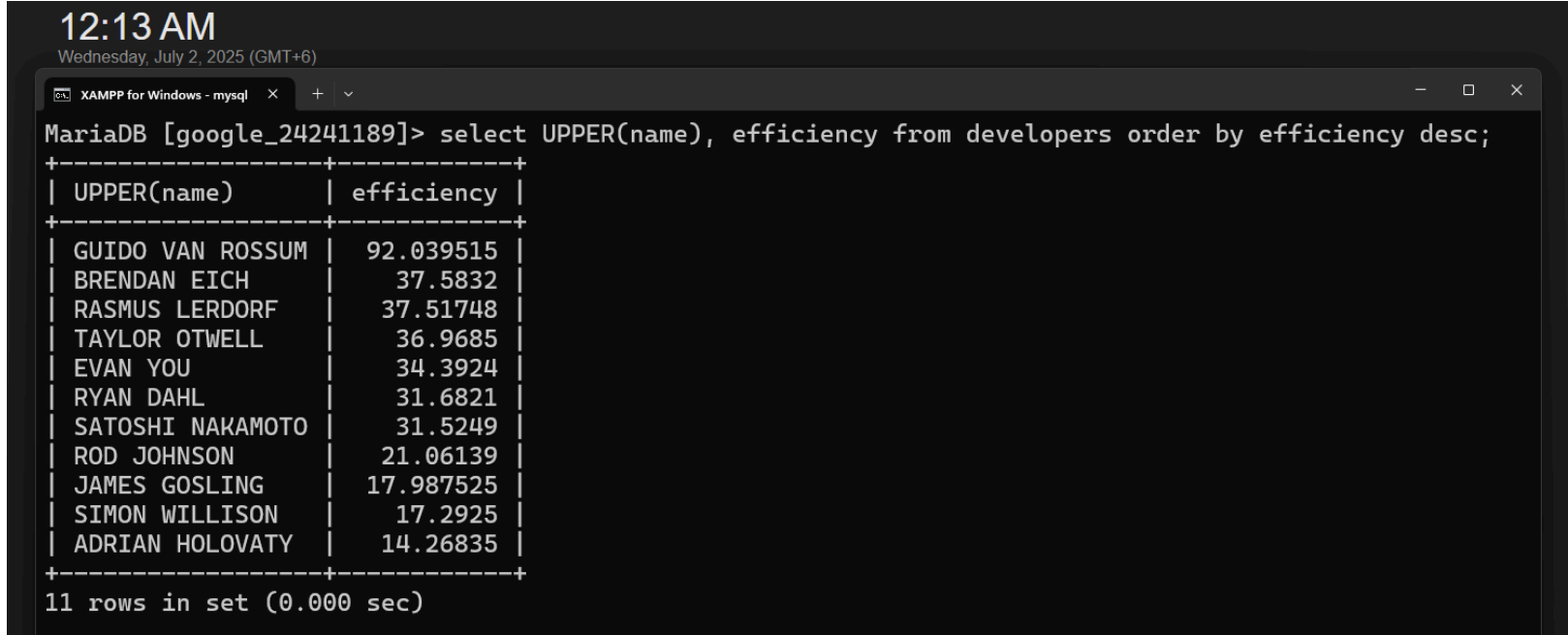
MariaDB [google_24241189]> UPDATE Developers
-> SET efficiency = ((followers*100/1000000) * (multiplier*100/20))/100;
Query OK, 11 rows affected (0.001 sec)
Rows matched: 11 Changed: 11 Warnings: 0

MariaDB [google_24241189]> 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 | 37.51748 |
| 6 | Guido van Rossum | guido@python.org    | 968837 | 2020-07-18 | 19 | 92.039515 |
| 7 | Adrian Holovaty | adrian@django project.com | 570734 | 2020-05-07 | 5 | 14.26835 |
| 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 | 17.987525 |
| 10 | Rod Johnson   | rod@spring.io        | 601754 | 2020-05-18 | 7 | 21.06139 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498 | 2020-05-10 | 10 | 31.5249 |
+-----+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)
```

**No 5 Query**  
**(as Plain Text)**

select UPPER(name), efficiency from developers order by efficiency desc;

**No 5 SS**  
**(of Query & Output**  
**in Shell)**



The screenshot shows a terminal window titled "XAMPP for Windows - mysql". The prompt is "MariaDB [google\_24241189]>". The query entered is "select UPPER(name), efficiency from developers order by efficiency desc;". The output is a table with two columns: "UPPER(name)" and "efficiency". The data is sorted in descending order of efficiency. The output shows 11 rows of data.

```
12:13 AM
Wednesday, July 2, 2025 (GMT+6)

XAMPP for Windows - mysql
MariaDB [google_24241189]> select UPPER(name), efficiency from developers order by efficiency desc;
+-----+-----+
| UPPER(name) | efficiency |
+-----+-----+
| GUIDO VAN ROSSUM | 92.039515 |
| BRENDAN EICH | 37.5832 |
| RASMUS LERDORF | 37.51748 |
| TAYLOR OTWELL | 36.9685 |
| EVAN YOU | 34.3924 |
| RYAN DAHL | 31.6821 |
| SATOSHI NAKAMOTO | 31.5249 |
| ROD JOHNSON | 21.06139 |
| JAMES GOSLING | 17.987525 |
| SIMON WILLISON | 17.2925 |
| ADRIAN HOLOVATY | 14.26835 |
+-----+-----+
11 rows in set (0.000 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)**

```
12:22 AM
Wednesday, July 2, 2025 (GMT+6)
XAMPP for Windows - mysql

MariaDB [google_24241189]> 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@djangoproject.com  | 570734    |
| 8         | Simon Willison | simon@djangoproject.com   | 864625    |
| 9         | James Gosling  | james@java.com             | 719501    |
| 11        | Satoshi Nakamoto | nakamoto@blockchain.com   | 630498    |
+-----+-----+-----+-----+

7 rows in set (0.000 sec)
```