

## CSE370 : Database Systems

### Assignment 01 | Fall 2024

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#### No 1 Query (as Plain Text)

```
MariaDB [(none)]> use google_22301050
Database changed
MariaDB [google_22301050]> CREATE TABLE Developers
-> (member_id char(4),
-> name varchar(30),
-> email varchar(30),
-> influence_count int,
-> joining_date date,
-> multiplier int);
MariaDB [google_22301050]> 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 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);
MariaDB [google_22301050]> SELECT*FROM Developers;
```

No 1 SS  
(of Query & Output  
in Shell)

```
MariaDB [google_22301050]> CREATE TABLE Developers
-> (member_id char(4),
-> name varchar(30),
-> email varchar(30),
-> influence_count int,
-> joining_date date,
-> multiplier int);
```

```
Query OK, 0 rows affected (0.026 sec)
```

```
MariaDB [google_22301050]> describe Developers;
```

Field	Type	Null	Key	Default	Extra
member_id	char(4)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(30)	YES		NULL	
influence_count	int(11)	YES		NULL	
joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

```

MariaDB [google_22301050]> 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 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 (0.004 sec)
Records: 11 Duplicates: 0 Warnings: 0

```

```

MariaDB [google_22301050]> 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

**No 2 Query**  
(as Plain Text)

```

MariaDB [google_22301050]> alter table Developers Change column influence_count followers int;

```

No 2 SS  
(of Query & Output  
in Shell)

```
MariaDB [google_22301050]> alter table Developers Change column influence_count followers int;
Query OK, 0 rows affected (0.050 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [google_22301050]> 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

No 3 Query  
(as Plain Text)

MariaDB [google\_22301050]> update Developers set followers = followers + 10;

**No 3 SS**  
**(of Query & Output**  
**in Shell)**

```
MariaDB [google_22301050]> update Developers set followers = followers + 10;  
Query OK, 11 rows affected (0.003 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [google_22301050]> 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

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

```
MariaDB [google_22301050]> select name,((followers*100/1000000) * (multipliers*100/20))/100 as Efficiency from  
Developer  
s;
```

No 4 SS  
(of Query & Output  
in Shell)

```
MariaDB [google_22301050]> select name,((followers*100/1000000) * (multipliers*100/20))/100 as Efficiency from Developers;
+-----+-----+
| name          | Efficiency |
+-----+-----+
| Taylor Otwell | 36.968500000000 |
| Ryan Dahl     | 31.682100000000 |
| Brendan Eich  | 37.583200000000 |
| Evan You      | 34.392400000000 |
| Rasmus Lerdorf | 37.517480000000 |
| Guido van Rossum | 92.039515000000 |
| Adrian Holovaty | 14.268350000000 |
| Simon Willison | 17.292500000000 |
| James Gosling  | 17.987525000000 |
| Rod Johnson    | 21.061390000000 |
| Satoshi Nakamoto | 31.524900000000 |
+-----+-----+
```

No 5 Query  
(as Plain Text)

```
MariaDB [google_22301050]> select upper(name) as name, joining_date from Developers order by joining_date desc;
```

No 5 SS  
(of Query & Output  
in Shell)

```
MariaDB [google_22301050]> select upper(name) as name, joining_date from Developers order by joining_date desc;
+-----+-----+
| 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 |
+-----+-----+
```

<b>No 6 Query</b> <b>(as Plain Text)</b>	MariaDB [google_22301050]> select member_id,name,email,followers from Developers where email like '%.com' or email like '%.net%';
<b>No 6 SS</b> <b>(of Query &amp; Output in Shell)</b>	<pre> MariaDB [google_22301050]&gt; 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      +-----+-----+-----+-----+ </pre>
<b>No 7 Query</b> <b>(as Plain Text)</b>	
<b>No 7 SS</b> <b>(of Query &amp; Output in Shell)</b>	