

## CSE370 : Database Systems

### Assignment 01 | Fall 2024

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<b>No 1 Query</b> (as Plain Text)	create table developers(member_id int, name varchar(30),email varchar(30), influence_count int, Joining_date date, multiplier int);
<b>No 1 SS</b> (of Query & Output in Shell)	<pre>MariaDB [(none)]&gt; use Google_22301242; Database changed MariaDB [Google_22301242]&gt; create table developers(member_id int, name varchar(30),email varchar(30), influence_count int, Joining_date date, multiplier int); Query OK, 0 rows affected (0.020 sec)  MariaDB [Google_22301242]&gt; describe developers; +-----+-----+-----+-----+-----+-----+   Field        Type        Null   Key   Default   Extra   +-----+-----+-----+-----+-----+-----+   member_id    int(11)     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              +-----+-----+-----+-----+-----+-----+ 6 rows in set (0.009 sec)</pre>
<b>No 2 Query</b> (as Plain Text)	alter table developers change influence_count followers int;

No 2 SS  
(of Query & Output  
in Shell)

```
MariaDB [Google_22301242]> alter table developers change influence_count followers int;
Query OK, 0 rows affected (0.010 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [Google_22301242]> 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)

```
MariaDB [Google_22301242]> update developers set followers= followers+10;  
Query OK, 11 rows affected (0.005 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [Google_22301242]> 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 (0.000 sec)
```

No 4 Query  
(as Plain Text)

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

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

```
MariaDB [Google_22301242]> select name, (((followers*100/1000000)*(multiplier*100/20))/100) as Efficiency;
+-----+-----+
| 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 |
+-----+-----+
11 rows in set (0.002 sec)
```

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

```
select upper(name) as name, Joining_date
-> from Developers
-> order by Joining_date desc;
```

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

```
MariaDB [Google_22301242]> 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   |
+-----+-----+
11 rows in set (0.002 sec)
```

**No 6 Query**  
**(as Plain Text)**

select member\_id,name,email,followers from Developers where email like '%.com' or email like '%.net';

<p>No 6 SS (of Query &amp; Output in Shell)</p>	<pre> MariaDB [Google_22301242]&gt; select member_id,name,email,followers from Developers where 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 (0.001 sec) </pre>
<p>No 7 Query (as Plain Text)</p>	
<p>No 7 SS (of Query &amp; Output in Shell)</p>	