

## CSE370 : Database Systems

### Assignment 01 | Spring 2025

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<b>No 1 Query</b> <b>(as Plain Text)</b>	<pre>create table Developers(   -&gt; member_id char(2),   -&gt; name varchar(30),   -&gt; email varchar(50),   -&gt; influence_count char(6),   -&gt; joining_date date,   -&gt; multiplier int   -&gt; );</pre>
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No 1 SS  
(of Query & Output  
in Shell)

```
MariaDB [Google_20301318]> create table Developers;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [Google_20301318]> create table Developers(
    -> member_id char(2),
    -> name varchar(30),
    -> email varchar(50),
    -> influence_count char(6),
    -> joining_date date,
    -> multiplier int
    -> );
```

Query OK, 0 rows affected (0.017 sec)

```
MariaDB [Google_20301318]> show tables;
```

```
+-----+
| Tables_in_google_20301318 |
+-----+
| developers                |
+-----+
```

1 row in set (0.001 sec)

```
MariaDB [Google_20301318]> describe developers;
```

Field	Type	Null	Key	Default	Extra
member_id	char(2)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
influence_count	char(6)	YES		NULL	
joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

6 rows in set (0.049 sec)

<b>No 2 Query</b> <b>(as Plain Text)</b>	alter table developers CHANGE influence_count followers int; describe developers;
<b>No 2 SS</b> <b>(of Query &amp; Output</b> <b>in Shell)</b>	<pre> MariaDB [Google_20301318]&gt; alter table developers CHANGE influence_count followers int; Query OK, 0 rows affected (0.037 sec) Records: 0  Duplicates: 0  Warnings: 0  MariaDB [Google_20301318]&gt; describe developers; +-----+-----+-----+-----+-----+-----+   Field        Type            Null   Key   Default   Extra   +-----+-----+-----+-----+-----+-----+   member_id    char(2)         YES          NULL                name         varchar(30)     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 (0.025 sec) </pre>
<b>No 3 Query</b> <b>(as Plain Text)</b>	update developers set followers = followers + 10; select * from developers;

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

```
MariaDB [Google_20301318]> update developers set followers = followers + 10;  
Query OK, 11 rows affected (0.006 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [Google_20301318]> 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_20301318]> select name, ((followers*100/1000000) * (multipliers*100/20))/100 as efficiency from devel  
opers;  
ERROR 1054 (42S22): Unknown column 'multipliers' in 'field list'  
MariaDB [Google_20301318]> select name, ((followers*100/1000000) * (multiplier*100/20))/100 as efficiency from develo  
pers;  
+-----+-----+  
| 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 (0.001 sec)
```

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

```
select upper(name) as Name, joining_date as Joining_Date from developers order by joining_date desc;
```

No 5 SS  
(of Query & Output  
in Shell)

```
MariaDB [Google_20301318]> select upper(name) as Name, joining_date as 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 (0.001 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_20301318]> select member_id,name,email,followers from developers where email like '%.com' or email li
ke '%.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)
```

No 7 Query (as Plain Text)	<p>No task-7 in assignment. Query of table creation below,</p> <pre>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);</pre>												
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Google_20301318]&gt; insert into developers values ('1','Taylor Otwell','otwell@laravel.com','739360','2020-6-10',10); Query OK, 1 row affected (0.006 sec)  MariaDB [Google_20301318]&gt; select * from developers;</pre> <table><tr><th>member_id</th><th>name</th><th>email</th><th>followers</th><th>joining_date</th><th>multiplier</th></tr><tr><td>1</td><td>Taylor Otwell</td><td>otwell@laravel.com</td><td>739360</td><td>2020-06-10</td><td>10</td></tr></table> <pre>1 row in set (0.001 sec)</pre>	member_id	name	email	followers	joining_date	multiplier	1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
member_id	name	email	followers	joining_date	multiplier								
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10								

```
MariaDB [Google_20301318]> insert into developers values ('2','Ryan Dahl','ryan@nodejs.org','633632','2020-04-22',10);
Query OK, 1 row affected (0.005 sec)
```

```
MariaDB [Google_20301318]> insert into developers values ('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, 9 rows affected (0.008 sec)
```

```
Records: 9 Duplicates: 0 Warnings: 0
```

```
MariaDB [Google_20301318]> 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 (0.001 sec)
```