

CSE370 : Database Systems

Assignment 01/02/03 | Spring 2025

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

No 1 Query (as Plain Text)	create table Developers1 (member_id INT PRIMARY KEY, name VARCHAR(100), email VARCHAR(100) UNIQUE, influence_count INT, joining_date DATE, multiplier INT);
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [(none)]> use Google1_22301202; Database changed MariaDB [Google1_22301202]> create table Developers1; ERROR 1113 (42000): A table must have at least 1 column MariaDB [Google1_22301202]> create table Developers1(-> member_id INT PRIMARY KEY, -> name VARCHAR(100), -> email VARCHAR(100) UNIQUE, -> influence_count INT, -> joining_date DATE, -> multiplier INT); Query OK, 0 rows affected (0.078 sec)</pre>

```

MariaDB [Google1_22301202]> ALTER TABLE Developers CHANGE influence_count followers INT;
Query OK, 0 rows affected (0.013 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [Google1_22301202]> select * from Developers1;
+-----+-----+-----+-----+-----+-----+
| 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@djangoproject.com | 570724 | 2020-05-07 | 5 |
| 8 | Simon Willison | simon@djangoproject.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 (0.005 sec)

```

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

ALTER TABLE Developers1 CHANGE influence_count followers INT;

No 2 SS
(of Query & Output
in Shell)

```
MariaDB [Google1_22301202]> ALTER TABLE Developers1 CHANGE influence_count followers INT;
Query OK, 0 rows affected (0.007 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [Google1_22301202]> select * from Developers1;
+-----+-----+-----+-----+-----+-----+
| 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@djangoproject.com | 570724 | 2020-05-07 | 5 |
| 8 | Simon Willison | simon@djangoproject.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)
```

No 3 Query
(as Plain Text)

```
UPDATE Developers1 SET followers = followers + 10;
```

No 3 SS
(of Query & Output
in Shell)

```
MariaDB [Google1_22301202]> UPDATE Developers1 SET followers = followers + 10;
```

```
Query OK, 11 rows affected (0.003 sec)
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [Google1_22301202]> select * from Developers1;
```

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@djangoproject.com	570734	2020-05-07	5
8	Simon Willison	simon@djangoproject.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 (0.001 sec)
```

No 4 Query
(as Plain Text)

```
select
name,
((followers * 100 / 1000000) * (multiplier * 100/ 20)) / 100 as efficiency from Developers1;
```

No 4 SS
(of Query & Output
in Shell)

```
MariaDB [Google1_22301202]> select
    -> name,
    -> ((followers * 100 / 10000000) * (multiplier * 100 / 20)) / 100 as effic
iency from Developers1;
+-----+-----+
| name      | efficiency |
+-----+-----+
| Taylor Otwell | 3.696850000000 |
| Ryan Dahl   | 3.168210000000 |
| Brendan Eich | 3.758320000000 |
| Evan You    | 3.439240000000 |
| Rasmus Lerdorf | 3.751748000000 |
| Guido van Rossum | 9.203951500000 |
| Adrian Holovaty | 1.426835000000 |
| Simon Willison | 1.729250000000 |
| James Gosling | 1.798752500000 |
| Rod Johnson  | 2.106139000000 |
| Satoshi Nakamoto | 3.152490000000 |
+-----+-----+
11 rows in set (0.004 sec)
```

No 5 Query
(as Plain Text)

```
SELECT UPPER(name) AS Developers_Name, joining_date
FROM Developers1
ORDER BY joining_date DESC;
```

No 5 SS
(of Query & Output
in Shell)

```
MariaDB [Google1_22301202]> SELECT UPPER(name) AS Developer_Name, joining_date
-> FROM Developers1
-> ORDER BY joining_date DESC;
+-----+-----+
| Developer_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 (0.007 sec)
```

No 6 Query
(as Plain Text)

```
SELECT member_id, name, email, followers
FROM Developers1
WHERE email LIKE '%.com' OR email LIKE '%.net';
```

No 6 SS
(of Query & Output
in Shell)

```
MariaDB [Google1_22301202]> SELECT member_id, name, email, followers
-> FROM Developers1
-> 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 (0.002 sec)
```

No 7 Query
(as Plain Text)

No 7 SS
(of Query & Output
in Shell)