

CSE370 : Database Systems

Assignment 01 | Spring 2025

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No 1 Query (as Plain Text)	create table Developers(-> member_id char(2), -> name varchar(30), -> email varchar(50), -> influence_count char(6), -> joining_date date, -> multiplier int ->);
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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)
```

No 2 Query (as Plain Text)	alter table developers CHANGE influence_count followers int; describe developers;
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [Google_20301318]> 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]> 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>
No 3 Query (as Plain Text)	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@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 (0.000 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 developers;
ERROR 1054 (42S22): Unknown column 'multipliers' in 'field list'
MariaDB [Google_20301318]> select name, ((followers*100/1000000) * (multiplier*100/20))/100 as efficiency from developers;
+-----+-----+
| name | efficiency |
+-----+-----+
| Taylor Otwell | 36.96850000000000 |
| Ryan Dahl | 31.68210000000000 |
| Brendan Eich | 37.58320000000000 |
| Evan You | 34.39240000000000 |
| Rasmus Lerdorf | 37.51748000000000 |
| Guido van Rossum | 92.03951500000000 |
| Adrian Holovaty | 14.26835000000000 |
| Simon Willison | 17.29250000000000 |
| James Gosling | 17.98752500000000 |
| Rod Johnson | 21.06139000000000 |
| Satoshi Nakamoto | 31.52490000000000 |
+-----+-----+
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 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)
```

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@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);</pre>
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Google_20301318]> 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]> select * from developers; +-----+-----+-----+-----+-----+ member_id name email followers joining_date multiplier +-----+-----+-----+-----+-----+ 1 Taylor Otwell otwell@laravel.com 739360 2020-06-10 10 +-----+-----+-----+-----+-----+ 1 row in set (0.001 sec)</pre>

```

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@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);
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@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)

```