

CSE370 : Database Systems

Assignment 01/02/03 | Fall 2024

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No 1 Query
(as Plain Text)

```
CREATE DATABASE Google_22201910;
USE Google_22201910;
CREATE TABLE Developers(
  -> member_id INT PRIMARY KEY,
  -> name VARCHAR(50),
  -> email VARCHAR(100),
  -> influence_count INT,
  -> joining_date DATE,
  -> multiplier INT);
INSERT INTO Developers (member_id, name, email, influence_count, joining_date, multiplier) VALUES
  -> (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 1 SS
(of Query & Output
in Shell)

```
MariaDB [(none)]> SHOW DATABASES;
```

```
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
| phpmyadmin |  
| test |  
+-----+
```

```
5 rows in set (0.015 sec)
```

```
MariaDB [(none)]> CREATE DATABASE Google_22201910;
```

```
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [(none)]> USE Google_22201910;
```

```
Database changed
```

```
MariaDB [Google_22201910]> CREATE TABLE Developers (
```

```
    -> member_id INT PRIMARY KEY,
```

```
    -> name VARCHAR(50),
```

```
    -> email VARCHAR(100),
```

```
    -> influence_count INT,
```

```
    -> joining_date DATE,
```

```
    -> multiplier INT);
```

```
Query OK, 0 rows affected (0.012 sec)
```

```

MariaDB [Google_22201910]> INSERT INTO Developers (member_id, name, email, influence_count, joining_date, multiplier) VALUES
-> (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);
Query OK, 11 rows affected (0.051 sec)
Records: 11 Duplicates: 0 Warnings: 0

```

```

MariaDB [Google_22201910]> 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

```

11 rows in set (0.000 sec)

```

No 2 Query
(as Plain Text)

ALTER TABLE Developers CHANGE influence_count followers INT;

No 2 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22201910]> ALTER TABLE Developers CHANGE influence_count followers INT;
Query OK, 0 rows affected (0.006 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [Google_22201910]> SELECT
-> 8');
-> ');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server v
')' at line 2
MariaDB [Google_22201910]> SELECT
-> 8
-> ');
-> ');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server v
')' at line 3
MariaDB [Google_22201910]> 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_22201910]> UPDATE Developers  
-> SET followers = followers + 10;  
Query OK, 11 rows affected (0.003 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [Google_22201910]> 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_22201910]> SELECT name,((followers*100/1000000)*(multiplier*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 |
+-----+-----+
11 rows in set (0.000 sec)
```

No 5 Query
(as Plain Text)

```
SELECT UPPER(name), joining_date
-> FROM Developers
-> ORDER BY
-> joining_date DESC;
```

No 5 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22201910]> SELECT UPPER(name), joining_date  
-> FROM Developers  
-> ORDER BY  
-> joining_date DESC;
```

UPPER(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 (0.000 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_22201910]> 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

```
7 rows in set (0.000 sec)
```

No 7 Query
(as Plain Text)

No 7 SS
(of Query & Output
in Shell)