

CSE370 : Database Systems

Assignment 01 | Fall 2024

ID : 22301689 | Name : Tasnim Rahman Moumita

No 1 Query (as Plain Text)	CREATE DATABASE Google_22301689;
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [(none)]> CREATE DATABASE Google_22301689; Query OK, 1 row affected (0.006 sec) MariaDB [(none)]> USE Google_22301689; Database changed</pre>
No 2 Query (as Plain Text)	<p><u>Answer to the question no: 01</u></p> <pre>CREATE TABLE Developers (member_id CHAR(2), name VARCHAR(30), email VARCHAR(50), influence_count INT, Joining_date DATE, multiplier INT);</pre>

No 2 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> CREATE TABLE Developers
-> (
-> member_id CHAR(2),
-> name VARCHAR(30),
-> email VARCHAR(50),
-> influence_count INT,
-> Joining_date DATE,
-> multiplier INT
-> );
Query OK, 0 rows affected (0.016 sec)

MariaDB [Google_22301689]> SHOW TABLES;
+-----+
| Tables_in_google_22301689 |
+-----+
| developers                  |
+-----+
1 row in set (0.001 sec)
```

No 3 Query
(as Plain Text)

```
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);
```

```
SELECT*FROM Developers;
```

No 3 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> 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 (0.045 sec)
Records: 11  Duplicates: 0  Warnings: 0
```

```
MariaDB [Google_22301689]> 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 (0.001 sec)
```

No 4 Query (as Plain Text)	<p><u>Answer to the question no: 02</u></p> <p>ALTER TABLE Developers CHANGE COLUMN influence_count followers INT;</p>
No 4 SS (of Query & Output in Shell)	<pre> MariaDB [Google_22301689]> ALTER TABLE Developers CHANGE COLUMN influence_count followers INT; Query OK, 0 rows affected (0.012 sec) Records: 0 Duplicates: 0 Warnings: 0 MariaDB [Google_22301689]> 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.com 570724 2020-05-07 5 8 Simon Willison simon@django.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) </pre>
No 5 Query (as Plain Text)	<p><u>Answer to the question no: 03</u></p> <p>UPDATE Developers SET followers = followers + 10;</p>

No 5 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> UPDATE Developers SET followers = followers + 10;  
Query OK, 11 rows affected (0.011 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [Google_22301689]> SELECT*FROM Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739380	2020-06-10	10
2	Ryan Dahl	ryan@nodejs.org	633652	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939590	2020-05-07	8
4	Evan You	you@vuejs.org	982650	2020-06-11	7
5	Rasmus Lerdorf	lerdorf@php.net	937947	2020-06-03	8
6	Guido van Rossum	guido@python.org	968847	2020-07-18	19
7	Adrian Holovaty	adrian@django project.com	570744	2020-05-07	5
8	Simon Willison	simon@django project.com	864635	2020-04-30	4
9	James Gosling	james@java.com	719511	2020-05-18	5
10	Rod Johnson	rod@spring.io	601764	2020-05-18	7
11	Satoshi Nakamoto	nakamoto@blockchain.com	630508	2020-05-10	10

11 rows in set (0.001 sec)

No 6 Query
(as Plain Text)

Answer to the question no: 04

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

No 6 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> SELECT name, ((followers * 100 / 1000000) * (multiplier * 100 / 20)) / 100 as Efficiency FROM  
-> Developers;  
+-----+-----+  
| name          | Efficiency |  
+-----+-----+  
| Taylor Otwell  | 36.969000000000 |  
| Ryan Dahl     | 31.682600000000 |  
| Brendan Eich  | 37.583600000000 |  
| Evan You      | 34.392750000000 |  
| Rasmus Lerdorf | 37.517880000000 |  
| Guido van Rossum | 92.040465000000 |  
| Adrian Holovaty | 14.268600000000 |  
| Simon Willison | 17.292700000000 |  
| James Gosling  | 17.987775000000 |  
| Rod Johnson    | 21.061740000000 |  
| Satoshi Nakamoto | 31.525400000000 |  
+-----+-----+  
11 rows in set (0.001 sec)
```

No 7 Query
(as Plain Text)

Answer to the question no: 05

SELECT UPPER(name), Joining_date FROM Developers ORDER BY Joining_date DESC;

No 7 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> 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 (0.001 sec)
```

No 8 Query
(as Plain Text)

Answer to the question no:6

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

No 8 SS
(of Query & Output
in Shell)

```
MariaDB [Google_22301689]> 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	739380
3	Brendan Eich	eich@javascript.com	939590
5	Rasmus Lerdorf	lerdorf@php.net	937947
7	Adrian Holovaty	adrian@django project.com	570744
8	Simon Willison	simon@django project.com	864635
9	James Gosling	james@java.com	719511
11	Satoshi Nakamoto	nakamoto@blockchain.com	630508

```
7 rows in set (0.001 sec)
```