CSE370 : Database Systems

Assignment 01 | Summer 2025

ID : 23201432 | Name : Musfikur Rahman Mahin

No 1 Query (as Plain Text)	CREATE TABLE Developers(member_id char(4), name varchar(30), email varchar(50), influence_count int, Joining_date date, multiplier int);
No 1 SS (of Query & Output in Shell)	

```
MariaDB [Google_23201432]> 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);
Query OK, 11 rows affected (0.005 sec)
Records: 11  Duplicates: 0  Warnings: 0

MariaDB [Google_23201432]> 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@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 (0.000 sec)
```

No 2 Query **(as Plain Text)**	ALTER TABLE developers CHANGE COLUMN influence_count followers INT;
| **No 2 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_23201432]> ALTER TABLE developers CHANGE COLUMN influence_count followers INT;
Query OK, 0 rows affected (0.006 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [Google_23201432]> 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 (0.000 sec)
``` |
| | |
| **No 3 Query**
(as Plain Text) | UPDATE developers SET followers = followers + 10; |

No 3 SS (of Query & Output in Shell)	

```
MariaDB [Google_23201432]> UPDATE developers SET followers = followers + 10;
Query OK, 11 rows affected (0.004 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [Google_23201432]> 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)**	``` ERROR 1054 (42S22): Unknown column 'multipliers' in 'field list' MariaDB [Google_23201432]> 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) as name, joining_date FROM developers ORDER BY joining_date DESC;

| **No 5 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_23201432]> SELECT UPPER(name) as name, 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**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_23201432]> 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@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 (0.000 sec)

MariaDB [Google_23201432]>
``` |
| | |

No 7 Query (as Plain Text)	
No 7 SS (of Query & Output in Shell)	