CSE370 : Database Systems

Assignment 01/02/03 | Fall 2024

ID : <22299510> | Name : JANNAT NUR HAFSA

No 1 Query **(as Plain Text)**	Query OK, 11 rows affected (0.035 sec) Records: 11 Duplicates: 0 Warnings: 0
No 1 SS **(of Query & Output** **in Shell)**	
No 2 Query **(as Plain Text)**	Query OK, 0 rows affected (0.043 sec) Records: 0 Duplicates: 0 Warnings: 0

Shell output:

```
MariaDB [GOOGLE_22299510]>  SELECT * FROM Developers;
+-----------+------------------+--------------------------+-----------------+--------------+-----
| member_id | name             | email                    | influence_count | joining_data | mul
+-----------+------------------+--------------------------+-----------------+--------------+-----
|         1 | Taylor otwell    | otwell@laravel.com       |          739360 | 2020-06-10   |
|         2 | Ryan Dahl        | ryan@nodejs.org          |          633632 | 2020-04-22   |
|         3 | Brendan Eich     | eich@javascript.com      |          939570 | 2020-05-07   |
|         4 | Evan You         | you@vuejs.org            |          982630 | 2020-06-11   |
|         5 | Rasmus Lerdorf   | lerdorf@php.net          |          937927 | 2020-06-03   |
|         6 | Guido van Rossum | guido@python.org         |          968827 | 2020-07-18   |
|         7 | Adrian Holovaty  | adrian@djangoproject.com |          570724 | 2020-05-07   |
|         8 | Simon Willison   | simon@djangoproject.com  |          864615 | 2020-04-30   |
|         9 | James Gosling    | james@java.com           |          719491 | 2020-05-18   |
|        10 | Rod Johnson      | rod@spring.io            |          601744 | 2020-05-18   |
|        11 | Satoshi Nakamoto | nakamoto@blockchain.com  |          630488 | 2020-05-10   |
+-----------+------------------+--------------------------+-----------------+--------------+-----
11 rows in set (0.001 sec)
```

| No 2 SS<br>(of Query & Output<br>in Shell) | ```
MariaDB [GOOGLE_22299510]> ALTER TABLE Developers CHANGE influence_count followers int;
Query OK, 0 rows affected (0.043 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [GOOGLE_22299510]> SELECT * FROM Developers;
+-----------+-----------------+-------------------------+-----------+--------------+------------+
| member_id | name            | email                   | followers | joining_data | 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) | Query OK, 11 rows affected (0.034 sec)
Rows matched: 11 Changed: 11 Warnings: 0 |
| No 3 SS<br>(of Query & Output<br>in Shell) | ```
MariaDB [GOOGLE_22299510]> UPDATE Developers SET followers = followers + 10;
Query OK, 11 rows affected (0.034 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [GOOGLE_22299510]> SELECT * FROM Developers;
+-----------+-----------------+-------------------------+-----------+--------------+------------+
| member_id | name            | email                   | followers | joining_data | 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 Developers;
| **No 4 SS**<br>**(of Query & Output in Shell)** | ```
MariaDB [GOOGLE_22299510]> 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 (0.034 sec)
``` |
| | |
| **No 5 Query**
(as Plain Text) | SELECT UPPER(name) AS name, Joining_data FROM Developers ORDER BY Joining_data DESC; |
| **No 5 SS**<br>**(of Query & Output in Shell)** | ```
MariaDB [GOOGLE_22299510]> SELECT UPPER(name) AS name, Joining_data FROM Developers ORDER BY Joining_data DESC;
+-----------------+--------------+
| name            | Joining_data |
+-----------------+--------------+
| 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 (0.039 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_22299510]> 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 (0.033 sec)

MariaDB [GOOGLE_22299510]>
``` |
No 7 Query (as Plain Text)	
No 7 SS (of Query & Output in Shell)	