Lab_Assignment01_Spring2024
CSE370
22101593
Abrar Mojahid Rafi
Section: 05

Question 01:

create table Developers

   -> (

   -> member_id int,

   -> name varchar(30),

   -> email varchar(255),

   -> influence_count int,

   -> Joining_date date,

   -> multiplier int

   ->);

```
XAMPP for Windows - mysql -u root -p

MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> create table Developers
    -> (
    -> member_id int,
    -> name varchar(30),
    -> email varchar(255),
    -> influence_count int,
    -> Joining_date date,
    -> multiplier int
    -> );
Query OK, 0 rows affected (0.010 sec)

MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> describe Developers
    -> ;
+-----------------+--------------+------+-----+---------+-------+
| Field           | Type         | Null | Key | Default | Extra |
+-----------------+--------------+------+-----+---------+-------+
| member_id       | int(11)      | YES  |     | NULL    |       |
| name            | varchar(30)  | YES  |     | NULL    |       |
| email           | varchar(255) | YES  |     | NULL    |       |
| influence_count | int(11)      | YES  |     | NULL    |       |
| Joining_date    | date         | YES  |     | NULL    |       |
| multiplier      | int(11)      | YES  |     | NULL    |       |
+-----------------+--------------+------+-----+---------+-------+
6 rows in set (0.016 sec)

MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> _
```

select * from developers;

```
MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> 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)
```

Question 02:

alter table developers

   -> change column influence_count followers int;

```
MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> alter table developers
    -> change column influence_count followers int;
Query OK, 0 rows affected (0.008 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> describe developers
    -> ;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| member_id    | int(11)      | YES  |     | NULL    |       |
| name         | varchar(30)  | YES  |     | NULL    |       |
| email        | varchar(255) | YES  |     | NULL    |       |
| followers    | int(11)      | YES  |     | NULL    |       |
| Joining_date | date         | YES  |     | NULL    |       |
| multiplier   | int(11)      | YES  |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
6 rows in set (0.014 sec)
```

```
MariaDB [CSE370_abrarmojahidrafi_22101593_lab1]> 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)
```

Question 03:

update developers

   -> set followers = followers + 10

  -> ;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> 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)

MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> update developers
    -> set followers = followers + 10
    -> ;
Query OK, 11 rows affected (0.003 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> 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)
```

Question 04:

SELECT name, ((followers*100/1000000) * (multiplier*100/20))/100 AS Efficiency

    -> FROM Developers;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> 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)
```

Question 05:

select upper(name) as NAME, Joining_date

    -> from developers

    -> order by Joining_date desc;

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> 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 (0.000 sec)
```

Question 06:

select member_id, name, email, followers

   -> from developers

   -> where email like '%.com' or email like '%.net';

```
MariaDB [cse370_abrarmojahidrafi_22101593_lab1]> 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 (0.000 sec)
```