

CSE370

Lab Homework:01

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Section: 08

#Task_01

Command:

Create database Developers;

Create Table Developers(member_id INT PRIMARY KEY,

-> name VARCHAR(255),

-> email VARCHAR(255),

-> 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),

-> (5, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),

-> (6, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-03', 8),

-> (7, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19),

-> (8, 'Adrian Holovaty', 'adrian@django project.com', 570724, '2020-05-07', 5),

-> (9, 'Simon Willison', 'simon@django project.com', 864615, '2020-04-30', 4),

-> (10, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5),

-> (11, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),

-> (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);

Screenshot:

```

C:\xampp\mysql\bin>mysql -u root -p
mysql: [Warning] Using a password on the command line interface can be insecure.
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.28-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
6 rows in set (0.017 sec)

MariaDB [(none)]> select developers;
ERROR 1054 (42S22): Unknown column 'developers' in 'field list'
MariaDB [(none)]> Select Developers;
ERROR 1054 (42S22): Unknown column 'Developers' in 'field list'
MariaDB [(none)]> Use Developers;
Database Changed
MariaDB [Developers]> Select * from developers;
+-----+
| member_id | name | email | influence_count | joining_date | multiplier |
+-----+
| 1 | Taylor Otwell | otwell@laravel.com | 739260 | 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 |
| 5 | Evan You | you@vuejs.org | 982630 | 2020-06-11 | 7 |
| 6 | Rasmus Lerdorf | lerdorf@php.net | 937927 | 2020-06-03 | 8 |
| 7 | Guido van Rossum | guidog@python.org | 968827 | 2020-07-18 | 19 |
| 8 | Adrian Holovaty | adrian@djangoproject.com | 570724 | 2020-05-07 | 5 |
| 9 | Simon Willison | simon@djangoproject.com | 864615 | 2020-04-30 | 4 |
| 10 | James Gosling | james@java.com | 719491 | 2020-05-18 | 5 |
| 11 | Rod Johnson | rod@spring.io | 601744 | 2020-05-18 | 7 |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |
+-----+
11 rows in set (0.034 sec)

MariaDB [Developers]>
```

#Task_02

Command:

Alter table developers

-> change column influence_count followers int;

Screenshot:

```

MariaDB [(none)]> select developers;
ERROR 1054 (42S22): Unknown column 'developers' in 'field list'
MariaDB [(none)]> Select Developers;
ERROR 1054 (42S22): Unknown column 'Developers' in 'field list'
MariaDB [(none)]> Use Developers;
Database changed
MariaDB [Developers]> 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 |
| 5 | Evan You     | you@vuejs.org       | 982630 | 2020-06-11 | 7 |
| 6 | Rasmus Lerdorf | lerdorf@php.net    | 927927 | 2020-06-03 | 8 |
| 7 | Guido van Rossum | guidoguython.org  | 968827 | 2020-07-18 | 19 |
| 8 | Adrian Holovaty | adrian@djangooproject.com | 570724 | 2020-05-07 | 5 |
| 9 | Simon Willison | simon@djangooproject.com | 864615 | 2020-04-30 | 4 |
| 10 | James Gosling | james@java.com      | 719491 | 2020-05-18 | 5 |
| 11 | Rod Johnson   | rod@spring.io       | 601744 | 2020-05-18 | 7 |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.034 sec)

MariaDB [Developers]> Alter table members Change Column influence_count follers Int;
ERROR 1146 (42S02): Table 'developers.members' doesn't exist
MariaDB [Developers]> Alter Table Change influence_count followers int;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Change infleuce_count follwers int' at line 1
MariaDB [Developers]> Alter Table influence_count to followers int;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'to followers int' at line 1
MariaDB [Developers]> Alter table developers
-> change column influence_count followers int;
Query OK, 0 rows affected (0.004 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [Developers]> 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 |
| 5 | Evan You     | you@vuejs.org       | 982630 | 2020-06-11 | 7 |
| 6 | Rasmus Lerdorf | lerdorf@php.net    | 927927 | 2020-06-03 | 8 |
| 7 | Guido van Rossum | guidoguython.org  | 968827 | 2020-07-18 | 19 |
| 8 | Adrian Holovaty | adrian@djangooproject.com | 570724 | 2020-05-07 | 5 |
| 9 | Simon Willison | simon@djangooproject.com | 864615 | 2020-04-30 | 4 |
| 10 | James Gosling | james@java.com      | 719491 | 2020-05-18 | 5 |
| 11 | Rod Johnson   | rod@spring.io       | 601744 | 2020-05-18 | 7 |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [Developers]> _
```

#Task_03

Command:

Update developers

-> SET followers = followers + 10;

Screenshot:

```
xampp for Windows
MariaDB [Developers]> 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          |
| 5 | Evan You     | you@vuejs.org       | 982630    | 2020-06-11   | 7          |
| 6 | Rasmus Lerdorf | lerdorf@php.net    | 937927    | 2020-06-03   | 8          |
| 7 | Guido van Rossum | guidogpython.org   | 968827    | 2020-07-18   | 19         |
| 8 | Adrian Holovaty | adrian@djangooproject.com | 570724    | 2020-05-07   | 5          |
| 9 | Simon Willison | simon@djangooproject.com | 864615    | 2020-04-30   | 4          |
| 10 | James Gosling | james@java.com      | 719491    | 2020-05-18   | 5          |
| 11 | Rod Johnson   | rod@spring.io       | 601744    | 2020-05-18   | 7          |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488    | 2020-05-10   | 10         |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [Developers]> Update developers
-> SET followers = follower + 10;
ERROR 1054 (42S22): Unknown column 'follower' in 'field list'
MariaDB [Developers]> SET followers = followers + 10;
ERROR 1193 (HY000): Unknown system variable 'followers'
MariaDB [Developers]> Update developers
-> SET followers = followers + 10;
Query OK, 11 rows affected (0.010 sec)
Rows matched: 11 Changed: 11 Warnings: 0

MariaDB [Developers]> 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          |
| 5 | Evan You     | you@vuejs.org       | 982640    | 2020-06-11   | 7          |
| 6 | Rasmus Lerdorf | lerdorf@php.net    | 937937    | 2020-06-03   | 8          |
| 7 | Guido van Rossum | guidogpython.org   | 968837    | 2020-07-18   | 19         |
| 8 | Adrian Holovaty | adrian@djangooproject.com | 570734    | 2020-05-07   | 5          |
| 9 | Simon Willison | simon@djangooproject.com | 864625    | 2020-04-30   | 4          |
| 10 | James Gosling | james@java.com      | 719501    | 2020-05-18   | 5          |
| 11 | Rod Johnson   | rod@spring.io       | 601754    | 2020-05-18   | 7          |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498    | 2020-05-10   | 10         |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [Developers]> Bye
Shabbab Abdullah@SHABAB_ABDULLAH c:\xampp
#
Shabbab Abdullah@SHABAB_ABDULLAH c:\xampp
#
```

#Task_04

Command:

Select name,email,followers from developers;

Screenshot:

```
XAMPP for Windows - mysql -u root -p
# Select * from developers;
'Select' is not recognized as an internal or external command,
operable program or batch file.

Shahab Abdullah@SHAHAB_ABOULIAH c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use developers;
Database changed
MariaDB [developers]> 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 |
| 5 | Evan You     | you@vuejs.org       | 982640   | 2020-05-11   | 7 |
| 6 | Rasmus Lerdorf | lerdorf@php.net     | 937937   | 2020-06-03   | 8 |
| 7 | Guido van Rossum | guidogpython.org    | 968837   | 2020-07-18   | 49 |
| 8 | Adrian Holovaty | adrian@djangoproject.com | 570734   | 2020-05-07   | 5 |
| 9 | Simon Willison | simon@djangoproject.com | 864625   | 2020-04-30   | 4 |
| 10 | James Gosling | james@java.com       | 719561   | 2020-05-13   | 5 |
| 11 | Rod Johnson   | rod@spring.io        | 601754   | 2020-05-18   | 7 |
| 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498   | 2020-05-10   | 10 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [developers]> Select name,email,followers from developers;
+-----+-----+-----+
| name      | email              | followers |
+-----+-----+-----+
| Taylor Otwell | otwell@laravel.com | 739370   |
| Ryan Dahl     | ryan@nodejs.org    | 633642   |
| Brendan Eich  | eich@javascript.com | 939580   |
| Evan You     | you@vuejs.org       | 982640   |
| Rasmus Lerdorf | lerdorf@php.net     | 937937   |
| Guido van Rossum | guidogpython.org    | 968837   |
| Adrian Holovaty | adrian@djangoproject.com | 570734   |
| Simon Willison | simon@djangoproject.com | 864625   |
| James Gosling | james@java.com       | 719561   |
| Rod Johnson   | rod@spring.io        | 601754   |
| Satoshi Nakamoto | nakamoto@blockchain.com | 630498   |
+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [developers]>
```

#Task_05

Command:

Select name, $((\text{followers} * 100 / 1000000) * (\text{multiplier} * 100 / 20)) / 100$ as efficiency from developers;

Screenshot:

```
11 rows in set (0.000 sec)

MariaDB [developers]> SELECT name, ((followers * 100 / 1000000) * (multiplier * 100 / 20)) / 100 AS Efficiency
  -> FROM members;
ERROR 1146 (42502): Table 'developers.members' doesn't exist
MariaDB [developers]> SELECT name, ((followers * 100 / 1000000) * (multiplier * 100 / 20)) / 100 AS Efficiency
  -> FROM members;
ERROR 1146 (42502): Table 'developers.members' doesn't exist
MariaDB [developers]> Select name, ((followers * 100 / 1000000) * (multiplier * 100 / 20)) / 100 as efficiency from developers;
+-----+-----+
| name | efficiency |
+-----+-----+
| Taylor Otwell | NULL |
| Ryan Dahl | NULL |
| Brendan Eich | NULL |
| Evan You | NULL |
| Rasmus Lerdorf | NULL |
| Guido van Rossum | NULL |
| Adrian Holovaty | NULL |
| Simon Willison | NULL |
| James Gosling | NULL |
| Rod Johnson | NULL |
| Satoshi Nakamoto | NULL |
+-----+-----+
11 rows in set (0.000 sec)

MariaDB [developers]> select name, ((followers*100/1000000) * (multipliers*100/20))/100 as efficiency from developers;
ERROR 1054 (42522): Unknown column 'multipliers' in 'field list'
MariaDB [developers]> Select name, ((followers*100/1000000) * (multiplier*100/20))/100 as efficiency from developers;
+-----+-----+
| name | efficiency |
+-----+-----+
| Taylor Otwell | 36.96850000000000 |
| Ryan Dahl | 31.68210000000000 |
| Brendan Eich | 37.58320000000000 |
| Evan You | 34.39240000000000 |
| Rasmus Lerdorf | 37.51740000000000 |
| Guido van Rossum | 92.03951500000000 |
| Adrian Holovaty | 14.26835000000000 |
| Simon Willison | 17.29250000000000 |
| James Gosling | 17.98752500000000 |
| Rod Johnson | 21.06139000000000 |
| Satoshi Nakamoto | 31.52490000000000 |
+-----+-----+
11 rows in set (0.000 sec)

MariaDB [developers]>
```