CSE370 Database Systems

Lab Homework-1

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Section: 06

Answer of question 1:

```
create table Developers
```

```
-> (
-> member_id int,
-> name varchar(30),
-> email varchar(30),
-> influence_count int,
-> Joining_date date,
-> multiplier int
-> );
```

```
MariaDB [Project]> create table Developers
-> (
-> member_id int,
-> name varchar(30),
-> email varchar(30),
-> influence_count int,
-> Joining_date date,
-> multiplier int
-> );
Query OK, 0 rows affected (0.011 sec)
```

```
MariaDB [Project]> describe Developers;
 Field
                                                 Default
                    Type
                                   Null | Key
 member_id
                    int(11)
                                   YES
                                                 NULL
 name
                    varchar(30)
                                   YES
                                                 NULL
 email
                    varchar(30)
                                   YES
                                                 NULL
 influence count
                                   YES
                    int(11)
                                                 NULL
 Joining_date
                                   YES
                                                 NULL
                    date
 multiplier
                    int(11)
                                   YES
                                                 NULL
 rows in set (0.008 sec)
```

Answer of question 1:

MariaDB [project]> 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),
- -> (5, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
- -> (6,'Rasmus Lerdorf','lerdorf@php.net',937927,'2020-06-3',8),
- -> (7,'Guido van Rossum','guido@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);

```
MariaDB [project]> select* from developers;
 member_id | name
                                   email
                                                               | influence_count | Joining_date | multiplier
              Taylor Otwell
                                   otwell@laravel.com
                                                                           739360
                                                                                    2020-06-10
              Ryan Dahl
                                   ryan@nodejs.org
                                                                           633632
                                                                                     2020-04-22
                                                                           939570
                                                                                     2020-05-07
                                                                                                              8
              Brendan Eich
                                   eich@javascript.com
                                   you@vuejs.org
lerdorf@php.net
                                                                                     2020-06-11
              Evan You
                                                                           982630
              Rasmus Lendorf
                                                                           937927
                                                                                     2020-06-03
                                                                                                              8
                                   guido@python.org
adrian@djangoproject.com
              Guido van Rossum
                                                                           968827
                                                                                     2020-07-18
                                                                                                              19
              Adrian Holovaty
                                                                                     2020-05-07
                                                                           570724
              Simon Willison
                                   simon@djangoproject.com
                                                                                     2020-04-30
                                                                           864615
                                                                           719491
                                                                                     2020-05-18
         10
              James Gosling
                                   james@java.com
              Rod Johnson
                                                                                     2020-05-18
                                   rod@spring.io
                                                                           601744
              Satoshi Nakamoto
                                   nakamoto@blockchain.com
                                                                           630488
                                                                                     2020-05-10
                                                                                                              10
11 rows in set (0.000 sec)
```

Answer of question 2:

MariaDB [project]> alter table developers CHANGE influence_count followers int;

```
MariaDB [project]> alter table developers CHANGE influence_count followers int;
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

| MariaDB [project]> describe developers; | | | | | | | | |
|---|---|--|-----|--------------------------------------|-------|--|--|--|
| Field | Туре | Null | Key | Default | Extra | | | |
| member_id name email followers Joining_date multiplier | int(11) varchar(30) varchar(30) int(11) date int(11) | YES YES YES YES YES YES | | NULL NULL NULL NULL NULL | | | | |
| + | | | | | | | | |

Answer of question 3:

MariaDB [project]> update developers set followers = followers+10;

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

| ember_id | name | email | f ollo wers | 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 | guido@python.org | 968837 | 2020-07-18 | 19 |
| 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 | 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 |

Answer of question 4:

MariaDB [project] > select name, email, followers from developers;

MariaDB [project]> select name,email,followers from developers;

| name | email | ++ followers | | | | |
|---|---|--|--|--|--|--|
| Taylor Otwell Ryan Dahl Brendan Eich Evan You Rasmus Lerdorf Guido van Rossum Adrian Holovaty Simon Willison James Gosling Rod Johnson Satoshi Nakamoto | otwell@laravel.com ryan@nodejs.org eich@javascript.com you@vuejs.org lerdorf@php.net guido@python.org adrian@djangoproject.com simon@djangoproject.com james@java.com rod@spring.io nakamoto@blockchain.com | 739370 633642 939580 982640 937937 968837 570734 864625 719501 601754 630498 | | | | |
| + | | | | | | |

Answer of question 5:

MariaDB [project]> select name, (((followers*100)/1000000)*((multiplier*100)/20))/100 as efficiency from developers;

MariaDB [project]> select name, (((followers*100)/1000000)*((multiplier*100)/20))/100 as efficiency from developers;

```
efficiency
 Taylor Otwell
                     36.968500000000
 Ryan Dahl
                     31.682100000000
                     37.583200000000
 Brendan Eich
 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 (0.001 sec)
```