CSE370: DATABASE SYSTEMS

LAB HOMEWORK - 1

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```
create database Area120;
use Area120;
create table Developers (
member id int,
name varchar(300),
email varchar(320),
influence count char(6),
Joining date date,
multiplier int
);
show tables;
describe Developers;
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@djangproject.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);
select * from Developers;
```

Answer 1:

```
MariaDB [(none)]> create database Area120;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use Area120;
Database changed
MariaDB [Area120]> create table Developers (
   -> member id int,
   -> name varchar(300),
   -> email varchar(320),
   -> influence count char(6),
   -> Joining date date,
   -> multiplier int
   -> );
Query OK, 0 rows affected (0.013 sec)
MariaDB [Area120]> show tables;
+-----+
| Tables_in_area120 |
developers
1 row in set (0.001 sec)
MariaDB [Area120]> describe Developers;
+----+
               Type
                           | Null | Key | Default | Extra |
Field
             | int(11) | YES
member id
name | varchar(300) | YES
| email | varchar(320) | YES
                                        NULL
                                       NULL
| influence_count | char(6) | YES
                                       NULL
| Joining date | date
                            YES
                                        NULL
| multiplier | int(11) | YES
                                        NULL
```

Answer 2:

alter table Developers change column influence count followers int;

describe Developers;

Answer 3:

update Developers set followers = followers + 10;

select * from Developers;

MariaDB [Area120]> update Developers set followers = followers + 10; Query OK, 11 rows affected (0.006 sec) Rows matched: 11 Changed: 11 Warnings: 0 MariaDB [Area120]> select * from Developers; +-----| member_id | name | followers | Joining date | multiplier | email ------

 1 | Taylor Otwell
 otwell@laravel.com
 739370 | 2020-06-10

 2 | Ryan Dahl
 ryan@nodejs.org
 633642 | 2020-04-22

 3 | Brendan Eich
 eich@javascript.com
 939580 | 2020-05-07

 5 | Evan You
 you@vuejs.org
 982640 | 2020-06-11

 6 | Rasmus Lerdorf
 lerdorf@php.net
 937937 | 2020-06-03

 7 | Guido van Rossum
 guido@python.org
 968837 | 2020-07-18

 10 8 7 8 l 19 8 | Adrian Holovaty | adrian@djangoproject.com | 570734 | 2020-05-07 | 9 | Simon Willison | simon@djangproject.com | 864625 | 2020-04-30 | 10 | James Gosling | james@java.com | 719501 | 2020-05-18 | 5 l 4 10 | James Gosling | james@java.com 11 | Rod Johnson | rod@spring.io 5 | 601754 | 2020-05-18 7 12 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498 | 2020-05-10 | 10 11 rows in set (0.000 sec)

Answer 4:

select name, email, followers from Developers;

MariaDB [Area120]> 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	otwell@laravel.com ryan@nodejs.org eich@javascript.com you@vuejs.org lerdorf@php.net guido@python.org adrian@djangoproject.com simon@djangproject.com james@java.com	739370 739370 633642 939580 982640 937937 968837 570734 864625 719501	
Rod Johnson Satoshi Nakamoto	rod@spring.io nakamoto@blockchain.com	601754 630498	

Answer 5:

select name,((followers*100/1000000)*(multiplier*100/20))/100 as efficiency from Developers;

MariaDB [Area120]> select name,((followers*100/1000000)*(multiplier*100/20))/100 as Efficiency from Developers;

Taylor Otwell	name	Efficiency
	Ryan Dahl Brendan Eich Evan You Rasmus Lerdorf Guido van Rossum Adrian Holovaty Simon Willison James Gosling Rod Johnson	31.682100000000 37.583200000000 34.39240000000 37.517480000000 92.039515000000 14.268350000000 17.292500000000 17.9875250000000

11 rows in set (0.003 sec)