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Section:11

CSE370 Lab 01

Answer 1

```
MariaDB [370lab1_f]> 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 (0.008 sec)
```

```
MariaDB [370lab1_f]> describe developers;
```

Field	Type	Null	Key	Default	Extra
member_id	int(11)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(30)	YES		NULL	
influence_count	int(11)	YES		NULL	
Joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

```
6 rows in set (0.008 sec)
```

```
MariaDB [370lab1_f]> 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	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

```
11 rows in set (0.000 sec)
```

Answer 2

```
MariaDB [370lab1_f]> alter table developers change column influence_count followers int;
Query OK, 0 rows affected (0.020 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [370lab1_f]> describe developers
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| member_id  | int(11)       | YES  |     | NULL    |       |
| name       | varchar(30)   | YES  |     | NULL    |       |
| email      | varchar(30)   | YES  |     | NULL    |       |
| followers  | int(11)       | YES  |     | NULL    |       |
| Joining_date | date         | YES  |     | NULL    |       |
| multiplier | int(11)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.010 sec)
```

Answer 3

```
MariaDB [370lab1_f]> update developers set followers=followers+10;
Query OK, 11 rows affected (0.006 sec)
Rows matched: 11 Changed: 11 Warnings: 0

MariaDB [370lab1_f]> 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 | guido@python.org  | 968837 | 2020-07-18 | 19 |
| 8 | Adrian Holovaty | adrian@django project.com | 570734 | 2020-05-07 | 5 |
| 9 | Simon Willison | simon@django project.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)
```

Answer 4

```
MariaDB [370lab1_f]> alter table developers add column efficiency int;
Query OK, 0 rows affected (0.016 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [370lab1_f]> select* from developers;
```

member_id	name	email	followers	Joining_date	multiplier	efficiency
1	Taylor Otwel	otwell@laravel.com	739370	2020-06-10	10	NULL
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	NULL
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	NULL
5	Evan You	you@vuejs.org	982640	2020-06-11	7	NULL
6	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	NULL
7	Guido van Rossum	guido@python.org	968837	2020-07-18	19	NULL
8	Adrian Holovaty	adrian@djangoproject.com	570734	2020-05-07	5	NULL
9	Simon Willison	simon@djangoproject.com	864625	2020-04-30	4	NULL
10	James Gosling	james@java.com	719501	2020-05-18	5	NULL
11	Rod Johnson	rod@spring.io	601754	2020-05-18	7	NULL
12	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	NULL

```
11 rows in set (0.000 sec)
```

```
MariaDB [370lab1_f]> update developers set efficiency=((followers*10/100)*(multiplier*100/20))/100;
Query OK, 11 rows affected (0.003 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [370lab1_f]> select* from developers;
```

member_id	name	email	followers	Joining_date	multiplier	efficiency
1	Taylor Otwel	otwell@laravel.com	739370	2020-06-10	10	36969
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	31682
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	37583
5	Evan You	you@vuejs.org	982640	2020-06-11	7	34392
6	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	37517
7	Guido van Rossum	guido@python.org	968837	2020-07-18	19	92040
8	Adrian Holovaty	adrian@djangoproject.com	570734	2020-05-07	5	14268
9	Simon Willison	simon@djangoproject.com	864625	2020-04-30	4	17293
10	James Gosling	james@java.com	719501	2020-05-18	5	17988
11	Rod Johnson	rod@spring.io	601754	2020-05-18	7	21061
12	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	31525

```
11 rows in set (0.000 sec)
```

Answer 5

```
MariaDB [370lab1_f]> select name from developers where followers>700000 order by multiplier desc;
+-----+
| name          |
+-----+
| Guido van Rossum |
| Taylor Otwell  |
| Brendan Eich   |
| Rasmus Lerdorf |
| Evan You       |
| James Gosling  |
| Simon Willison |
+-----+
7 rows in set (0.004 sec)
```

Answer 6

```
MariaDB [370lab1_f]> select name,email from developers order by followers desc limit 5;
+-----+-----+
| name          | email          |
+-----+-----+
| Evan You      | you@vuejs.org  |
| Guido van Rossum | guido@python.org |
| Brendan Eich  | eich@javascript.com |
| Rasmus Lerdorf | lerdorf@php.net |
| Simon Willison | simon@djangoproject.com |
+-----+-----+
5 rows in set (0.001 sec)
```

Answer 7

```
MariaDB [370lab1_f]> select avg(followers) as Average_Followers from developers where Joining_date<'2020-06-11';
+-----+
| Average_Followers |
+-----+
| 737515.6667      |
+-----+
1 row in set (0.002 sec)
```

Answer 8

```
MariaDB [370lab1_f]> select member_id, name, email from developers where email like '%.com%' or email like '%.net%';
```

member_id	name	email
1	Taylor Otwel	otwell@laravel.com
3	Brendan Eich	eich@javascript.com
6	Rasmus Lerdorf	lerdorf@php.net
8	Adrian Holovaty	adrian@django project.com
9	Simon Willison	simon@django project.com
10	James Gosling	james@java.com
12	Satoshi Nakamoto	nakamoto@blockchain.com

```
7 rows in set (0.001 sec)
```