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Sec: 07

Commands: `mysql -h localhost -u root`

Creating database: `create database Lab1;`

Selecting: `use Lab1`

Task 1:

create table Developers

(member_id int,

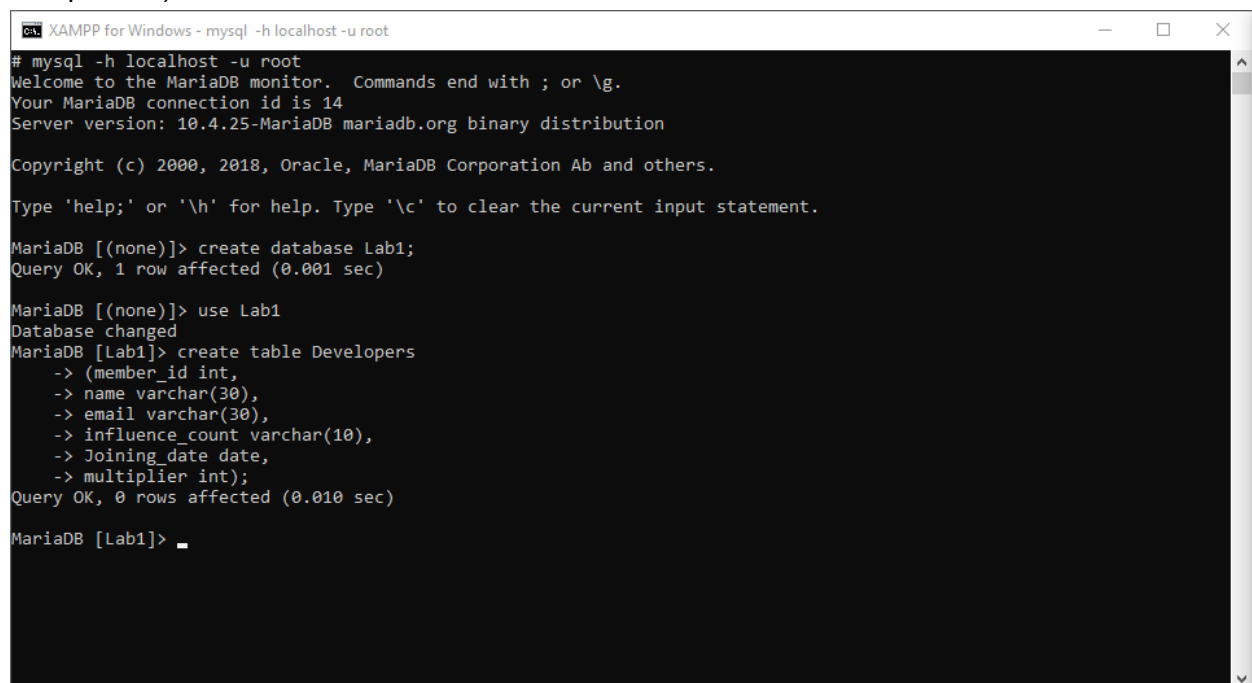
name varchar(30),

email varchar(30),

influence_count varchar(10),

Joining_date date,

multiplier int);

A screenshot of a terminal window titled "XAMPP for Windows - mysql -h localhost -u root". The terminal shows the following commands and output:

```
# mysql -h localhost -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.4.25-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)]> create database Lab1;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use Lab1
Database changed
MariaDB [Lab1]> create table Developers
-> (member_id int,
-> name varchar(30),
-> email varchar(30),
-> influence_count varchar(10),
-> Joining_date date,
-> multiplier int);
Query OK, 0 rows affected (0.010 sec)

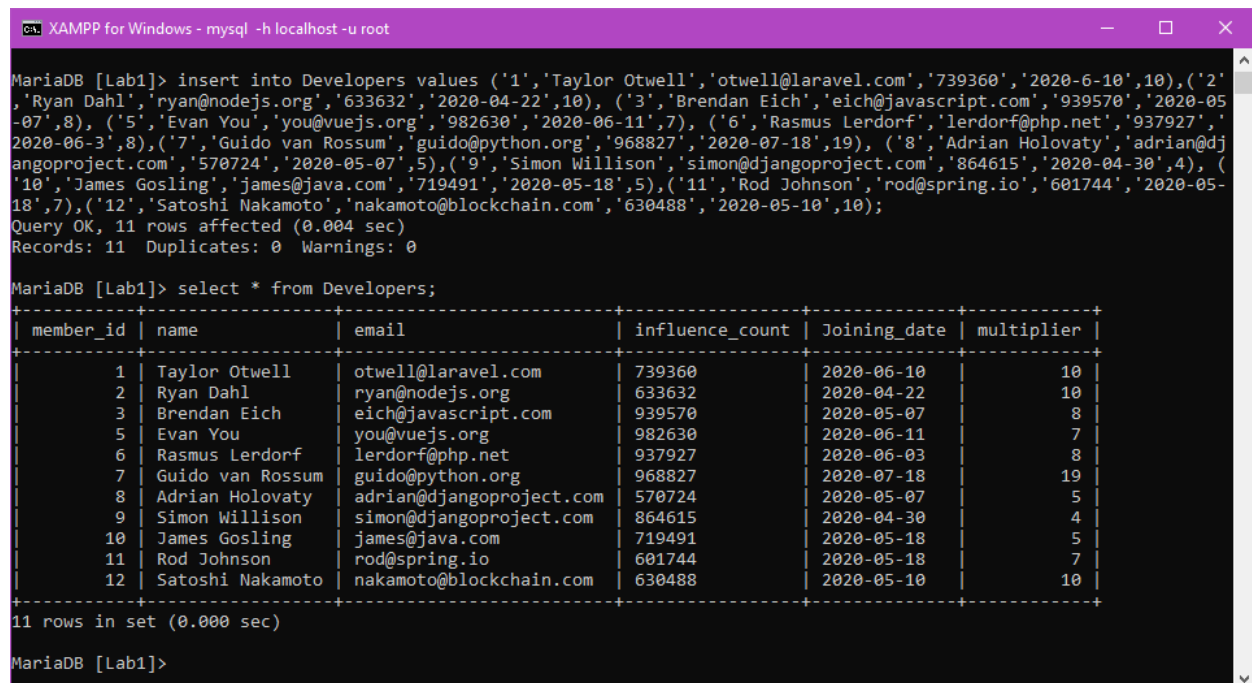
MariaDB [Lab1]> _
```

Inserting Values:

```
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@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);
```

Showing:

```
select * from Developers;
```



```

XAMPP for Windows - mysql -h localhost -u root
MariaDB [Lab1]> 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@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);
Query OK, 11 rows affected (0.004 sec)
Records: 11  Duplicates: 0  Warnings: 0

MariaDB [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          |
| 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@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 [Lab1]>
```

Task-2

alter table Developers change column influence_count followers int;

```
MariaDB [Lab1]> alter table Developers change column influence_count followers int;
Query OK, 11 rows affected (0.035 sec)
Records: 11 Duplicates: 0 Warnings: 0

MariaDB [Lab1]> 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 (0.005 sec)

MariaDB [Lab1]>
```

Task-3

update Developers set followers = (select followers+10);

```
XAMPP for Windows - mysql -h localhost -u root

+-----+-----+-----+-----+-----+-----+
| email      | varchar(30) | YES  |     | NULL    |       |
| followers  | int(11)     | YES  |     | NULL    |       |
| Joining_date | date        | YES  |     | NULL    |       |
| multiplier | int(11)     | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.005 sec)

MariaDB [Lab1]> update Developers set followers = (select followers+10);
Query OK, 11 rows affected (0.004 sec)
Rows matched: 11 Changed: 11 Warnings: 0

MariaDB [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          |
| 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)

MariaDB [Lab1]>
```

Task-4

select name,email,followers from developers;

```
XAMPP for Windows - mysql -h localhost -u root

+-----+-----+-----+-----+-----+-----+
| 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)

MariaDB [Lab1]> 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 | guido@python.org | 968837 |
| Adrian Holovaty | adrian@django project.com | 570734 |
| Simon Willison | simon@django project.com | 864625 |
| James Gosling | james@java.com | 719501 |
| Rod Johnson | rod@spring.io | 601754 |
| Satoshi Nakamoto | nakamoto@blockchain.com | 630498 |
+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [Lab1]>
```

Task-5

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

```
XAMPP for Windows - mysql -h localhost -u root

+-----+-----+-----+
| Evan You | you@vuejs.org | 982640 |
| Rasmus Lerdorf | lerdorf@php.net | 937937 |
| Guido van Rossum | guido@python.org | 968837 |
| Adrian Holovaty | adrian@django project.com | 570734 |
| Simon Willison | simon@django project.com | 864625 |
| James Gosling | james@java.com | 719501 |
| Rod Johnson | rod@spring.io | 601754 |
| Satoshi Nakamoto | nakamoto@blockchain.com | 630498 |
+-----+-----+-----+
11 rows in set (0.000 sec)

MariaDB [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 (0.001 sec)

MariaDB [Lab1]>
```