

LAB ASSIGNMENT 01

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ID: 22201373

SECTION: 18

1. Initializing the table:

CREATE DATABASE 22201373_Lab_01

```
mysql> CREATE DATABASE 22201373_Lab_01;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SHOW DATABASES  
-> ;
```

Database
22201373_lab_01

2. Inserting the data:

INSERT INTO Developers

- > Values (1,"Taylor Otwell", "otwell@laravel.com",739260,"2020-6-10",10),
- > (2,"Ryan Dahi","ryan@nodejs.org",633632,"2020-04-22",10),
- > (3,"Brendan Eich","eich@javascript.com",939570,"2020-05-07",8),
- > (4,"Evan You","you@vuejs.org",982630,"2020-06-11",7),
- > (5,"Rasmus Lerdorf", "lerdorf@php.net", 937927, "2020-06-3", 8);
- > (6,"Guido van Rossum", "guido@python.org", 968827,"2020-07-18",19),
- > (7,"Adrian Holovaty", "adrian@djangoproject.com",570724,"2020-05-07",5),
- > (8,"Simon Willison", "simon@djangoproject.com",864615,"2020-04-30",4),
- > (9,"James Gosling", "james@java.com",719491,"2020-05-18",5),
- > (10,"Rod Johnson","rod@spring.io",601744,"2020-05-18",7),
- > (11,"Satoshi

Nakamoto", "nakamoto@blockchain.com",630488,"2020-05-10",10);

```
Empty set (0.00 sec)  
  
mysql> INSERT INTO Developers  
-> VALUES (1,"Taylor Otwell","otwell@laravel.com",739260,"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),  
-> (4,"Evan You","you@vuejs.org",982630,"2020-06-11",7),  
-> (5,"Rasmus Lerdorf","lerdorf@php.net",937927,"2020-06-3",8),  
-> (6,"Guido van Rossum","guido@python.org",968827,"2020-07-18",19),  
-> (7,"Adrian Holovaty","adrian@djangoproject.com",570724,"2020-05-07",5),  
-> (8,"Simon Willison","simon@djangoproject.com",864615,"2020-04-30",4),  
-> (9,"James Gosling","james@java.com",719491,"2020-05-18",5),  
-> (10,"Rod Johnson","rod@spring.io",601744,"2020-05-18",7),  
-> (11,"Satoshi Nakamoto","nakamoto@blockchain.com",630488,"2020-05-10",10);  
Query OK, 11 rows affected (0.00 sec)  
  
mysql> SELECT * FROM Developers;  
+-----+-----+-----+-----+-----+-----+  
| member_id | name | email | influence_count | Joining_date | multiplier |  
+-----+-----+-----+-----+-----+-----+  
| 1 | Taylor Otwell | otwell@laravel.com | 739260 | 2020-06-10 | 10 |  
+-----+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)  
  
mysql> INSERT INTO Developers  
-> VALUES (2,"Ryan Dahl","ryan@nodejs.org",633632,"2020-04-22",10),  
-> (3,"Brendan Eich","eich@javascript.com",939570,"2020-05-07",8),  
-> (4,"Evan You","you@vuejs.org",982630,"2020-06-11",7),  
-> (5,"Rasmus Lerdorf","lerdorf@php.net",937927,"2020-06-3",8),  
-> (6,"Guido van Rossum","guido@python.org",968827,"2020-07-18",19),  
-> (7,"Adrian Holovaty","adrian@djangoproject.com",570724,"2020-05-07",5),  
-> (8,"Simon Willison","simon@djangoproject.com",864615,"2020-04-30",4),  
-> (9,"James Gosling","james@java.com",719491,"2020-05-18",5),  
-> (10,"Rod Johnson","rod@spring.io",601744,"2020-05-18",7),  
-> (11,"Satoshi Nakamoto","nakamoto@blockchain.com",630488,"2020-05-10",10);  
Query OK, 11 rows affected (0.00 sec)  
  
Records: 4 Duplicates: 0 Warnings: 0
```

```

-> (6,"Simon Willison", "simon@djangooproject.com",864615,"2020-04-30",4),
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(5,"Rasmus Lerdorf", "lerdorf@ph
06-3", 7),
(6,"Guido van R' at line 5
mysql> INSERT INTO Developers
-> -> VALUES (2,"Ryan Dahl", "ryan@nodejs.org",633632,"2020-04-22",10),
-> -> (3,"Brendan Eich", "eich@javascript.com",939570,"2020-05-07",8)^C
mysql> INSERT INTO Developers
-> Values
-> (2,"Ryan Dahl", "ryan@nodejs.org",633632,"2020-04-22",10),
-> ^C
mysql> INSERT INTO Developers Values
-> (2,"Ryan Dahl", "ryan@nodejs.org",633632,"2020-04-22",10),
-> (3,"Brendan Eich", "eich@javascript.com",939570,"2020-05-07",8),
-> (4,"Evan You", "you@vuejs.org",982630,"2020-06-11",7),
-> (5,"Rasmus Lerdorf", "lerdorf@php.net",937927,"2020-06-03",8);
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Developers Values
-> (6,"Guido van Rossum", "guido@python.org",968827,"2020-07-18",19),
-> (7,"Adrian Holovaty", "adrian@djangooproject.com",570724,"2020-05-07",5),
-> (8,"Simon Willison", "simon@djangooproject.com",864615,"2020-04-30",4),
-> (9,"James Gosling", "james@java.com",719491,"2020-05-18",5),
-> (10,"Rod Johnson", "rod@spring.io",601744,"2020-05-18",7),
-> (11,"Satoshi Nakamoto", "nakamoto@blockchain.com",630488,"2020-05-10",10);
ERROR 1136 (21501): Column count doesn't match value count at row 2
mysql> INSERT INTO Developers Values
-> (6,"Guido van Rossum", "guido@python.org",968827,"2020-07-18",19),
-> (7,"Adrian Holovaty", "adrian@djangooproject.com",570724,"2020-05-07",5),
-> (8,"Simon Willison", "simon@djangooproject.com",864615,"2020-04-30",4),
-> (9,"James Gosling", "james@java.com",719491,"2020-05-18",5),
-> (10,"Rod Johnson", "rod@spring.io",601744,"2020-05-18",7),
-> (11,"Satoshi Nakamoto", "nakamoto@blockchain.com",630488,"2020-05-10",10);
Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

```

```

-> (10,"Rod Johnson", "rod@spring.io",601744,"2020-05-18",7),
-> (11,"Satoshi Nakamoto", "nakamoto@blockchain.com",630488,"2020-05-10",10);
Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> 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 |
| 4 | Evan You      | you@vuejs.org       | 982630 | 2020-06-11 |    |
7 |
| 5 | Rasmus Lerdorf | lerdorf@php.net     | 937927 | 2020-06-03 |    |
8 |
| 6 | Guido van Rossum | guido@python.org    | 968827 | 2020-07-18 | 19 |
| 7 | Adrian Holovaty | adrian@djangooproject.com | 570724 | 2020-05-07 |    |
5 |
| 8 | Simon Willison | simon@djangooproject.com | 864615 | 2020-04-30 |    |
4 |
| 9 | James Gosling  | james@java.com      | 719491 | 2020-05-18 |    |
5 |
| 10 | Rod Johnson    | rod@spring.io       | 601744 | 2020-05-18 |    |
7 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630488 | 2020-05-10 | 10 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql>

```

3. Renaming the influence Column:

ALTER TABLE Developers

-> RENAME COLUMN influence_count to followers

```
mysql> ALTER TABLE Developers
  -> RENAME COLUMN influence_count TO followers;
mysql>
Records: 0  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739260	2020-06-10	10
2	Ryan Dahi	ryan@nodejs.org	633632	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
4	Evan You	you@vuejs.org	982630	2020-06-11	7
5	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
6	Guido van Rossum	guido@python.org	968827	2020-07-18	19
7	Adrian Holovaty	adrian@djangooproject.com	570724	2020-05-07	5
8	Simon Willison	simon@djangooproject.com	864615	2020-04-30	4
9	James Gosling	james@java.com	719491	2020-05-18	5
10	Rod Johnson	rod@spring.io	601744	2020-05-18	7
11	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10

```
11 rows in set (0.00 sec)

mysql> |
```

4. Updating the followers:

UPDATE Developers

-> SET followers = followers+10;

```
mysql> UPDATE Developers
  -> SET followers = followers+10;
Query OK, 11 rows affected (0.00 sec)
Rows matched: 11  Changed: 11  Warnings: 0

mysql> SELECT * FROM Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739270	2020-06-10	10
2	Ryan Dahi	ryan@nodejs.org	633642	2020-04-22	10
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8
4	Evan You	you@vuejs.org	982640	2020-06-11	7
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19
7	Adrian Holovaty	adrian@djangooproject.com	570734	2020-05-07	5
8	Simon Willison	simon@djangooproject.com	864625	2020-04-30	4
9	James Gosling	james@java.com	719501	2020-05-18	5
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10

```
11 rows in set (0.00 sec)

mysql> |
```

5. Efficiency Check:

Select name, ((followers*100/1000000) * (multiplier*100/20))/100
-> AS Efficiency FROM Developers;

```
mysql> Select name, ((followers*100/1000000) * (multiplier*100/20))/100
-> AS Efficiency FROM Developers;
```

name	Efficiency
Taylor Otwell	36.963500000000
Ryan Dahi	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 (0.00 sec)

6. Showing the name of the Developers:

SELECT UPPER(name) FROM Developers ORDER BY Joining_date DESC;

```
mysql> SELECT UPPER(name) FROM Developers ORDER BY Joining_date DESC;
```

UPPER(name)
GUIDO VAN ROSSUM
EVAN YOU
TAYLOR OTWELL
RASMUS LERDORF
JAMES GOSLING
ROD JOHNSON
SATOSHI NAKAMOTO
BRENDAN EICH
ADRIAN HOLOVATY
SIMON WILLISON
RYAN DAHI

11 rows in set (0.00 sec)

7. Finding .com and .net email addresses:

SELECT member_id, name, email, followers FROM Developers WHERE email LIKE "%com" or email LIKE "%net";

```
mysql> SELECT member_id, name, email, followers FROM Developers WHERE email LIKE "%com" or email LIKE "%net";
```

member_id	name	email	followers
1	Taylor Otwell	otwell@laravel.com	739270
3	Brendan Eich	eich@javascript.com	939580
5	Rasmus Lerdorf	lerdorf@php.net	937937
7	Adrian Holovaty	adrian@djangooproject.com	570734
8	Simon Willison	simon@djangooproject.com	864625
9	James Gosling	james@java.com	719501
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498

```
7 rows in set (0.00 sec)
```