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Theory & Lab section: 09

Task 1:
- create table developers (member_id int, name varchar(30), email varchar(25), influence_count char(6),joining_date date, multiplier int);

```
MariaDB [(none)]> create database project;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use project;
Database changed
MariaDB [project]> create table developers (member_id int, name varchar(30), email varchar(25), influence_count char(6),
joining_date date, multiplier int);
Query OK, 0 rows affected (0.114 sec)

MariaDB [project]> show tables;
+------------------+
| Tables_in_project |
+------------------+
| developers       |
+------------------+
1 row in set (0.001 sec)

MariaDB [project]>
```

- insert into developers values (1, 'Taylor Otwell','otwell@laravel.com', '739360', '2020-6-10', 10);

```
MariaDB [project]> insert into developers values (8, 'Adrian Holovaty','adrian@djangoproject.com', '570724', '2020-05-07
', 5);
Query OK, 1 row affected (0.051 sec)

MariaDB [project]> insert into developers values (9, 'Simon Willison','simon@djangoproject.com', '864615', '2020-04-30',
 4);
Query OK, 1 row affected (0.050 sec)

MariaDB [project]> insert into developers values (10, 'James Gosling','james@java.com', '719491', '2020-05-18', 5);
Query OK, 1 row affected (0.029 sec)

MariaDB [project]> insert into developers values (11, 'Rod Johnson','rod@spring.io', '601744', '2020-05-18', 7);
Query OK, 1 row affected (0.032 sec)

MariaDB [project]> insert into developers values (12, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488', '2020-05-
10', 10);
Query OK, 1 row affected (0.023 sec)

MariaDB [project]> 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@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 |
+-----------+------------------+--------------------------+----------------+--------------+------------+
11 rows in set (0.000 sec)
```

Task 2:
- Alter table developers change column influence_count followers int;

```
MariaDB [project]> Alter table developers change column influence_count followers int;
Query OK, 11 rows affected (0.449 sec)
Records: 11  Duplicates: 0  Warnings: 0

MariaDB [project]> describe developers;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| member_id    | int(11)     | YES  |     | NULL    |       |
| name         | varchar(30) | YES  |     | NULL    |       |
| email        | varchar(25) | YES  |     | NULL    |       |
| followers    | int(11)     | YES  |     | NULL    |       |
| joining_date | date        | YES  |     | NULL    |       |
| multiplier   | int(11)     | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.047 sec)

MariaDB [project]>
```

Task 3:
- update developers set followers = followers+10;

```
MariaDB [project]> update developers set followers = followers+10;
Query OK, 11 rows affected (0.091 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [project]> 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@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 |
+-----------+------------------+---------------------------+-----------+--------------+------------+
11 rows in set (0.000 sec)

MariaDB [project]>
```

Task 4:
- select name, email, followers from developers;

```
MariaDB [project]> 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@djangoproject.com|    570734 |
| Simon Willison   | simon@djangoproject.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)
```

Task 5:
- 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;
+------------------+-----------------+
| 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 (0.028 sec)
```