

# Database Systems

Course Code: CSE370

## Lab Homework 02

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**Section:** 07

## Answer to the question no-1

mysql -u root -p

create database Project\_Database;

show databases;

select \* from Developers group by joining\_date;

```
MariaDB [CSE370_Lab]> select * from Developers group by joining_date;
```

member_id	name	email	followers	Joining_date	multiplier
2	Ryan Dahl	ryan@nodejs.rog	633632	2020-04-22	10
9	Simon Willison	simon@django-project.com	864615	2020-04-30	4
3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
12	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10
10	James Gosling	james@java.com	719491	2020-05-18	5
6	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
5	Evan You	you@vuejs.org	982630	2020-06-11	7
7	Guido van Rossum	guido@python.org	968827	2020-07-18	19

```
9 rows in set (0.002 sec)
```

## Answer to the question no-2

select name, email from Developers order by followers desc limit 5;

```
MariaDB [CSE370_Lab]> 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@django-project.com

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

### Answer to the question no-3

select multiplier, count(\*) as number\_of\_developers from Developers group by multiplier;

```
MariaDB [CSE370_Lab]> select multiplier, count(*) as number_of_developers from Developers group by multiplier;
+-----+-----+
| multiplier | number_of_developers |
+-----+-----+
|          4 |                    1 |
|          5 |                    2 |
|          7 |                    2 |
|          8 |                    2 |
|         10 |                    3 |
|         19 |                    1 |
+-----+-----+
6 rows in set (0.003 sec)
```

### Answer to the question no-4

select name from Developers where (member\_id, multiplier) in (select member\_id, multiplier from Developers where followers<700000 and multiplier = (select max(multiplier) from Developers where followers<700000));

```
MariaDB [CSE370_Lab]> select name from Developers where (member_id, multiplier) in (select member_id, multiplier from Developers where followers<700000 and multiplier = (select max(multiplier) from Developers where followers<700000));
+-----+
| name |
+-----+
| Ryan Dahl |
| Satoshi Nakamoto |
+-----+
2 rows in set (0.008 sec)
```

### Answer to the question no-5

select avg(followers) from Developers where joining\_date<"2020-06-11";

```
MariaDB [CSE370_Lab]> select avg(followers) from Developers where joining_date<"2020-06-11";
+-----+
| avg(followers) |
+-----+
| 737505.6667 |
+-----+
1 row in set (0.002 sec)
```

## Answer to the question no-6

select member\_id, name, email, followers from Developers where email like "%.com" or email like "%.net";

```
MariaDB [CSE370_Lab]> 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	739360
3	Brendan Eich	eich@javascript.com	939570
6	Rasmus Lerdorf	lerdorf@php.net	937927
8	Adrian Holovaty	adrian@django project.com	570724
9	Simon Willison	simon@django project.com	864615
10	James Gosling	james@java.com	719491
12	Satoshi Nakamoto	nakamoto@blockchain.com	630488

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