

Task01. Create the above table with the appropriate data type for each column.

Command:

```
create database labAss01db;
```

```
use labAss01db;
```

```
create table Developers (  
    member_id int,  
    name varchar (50),  
    email varchar(100),  
    influence_count int,  
    Joining_date date,  
    multiplier int  
);
```

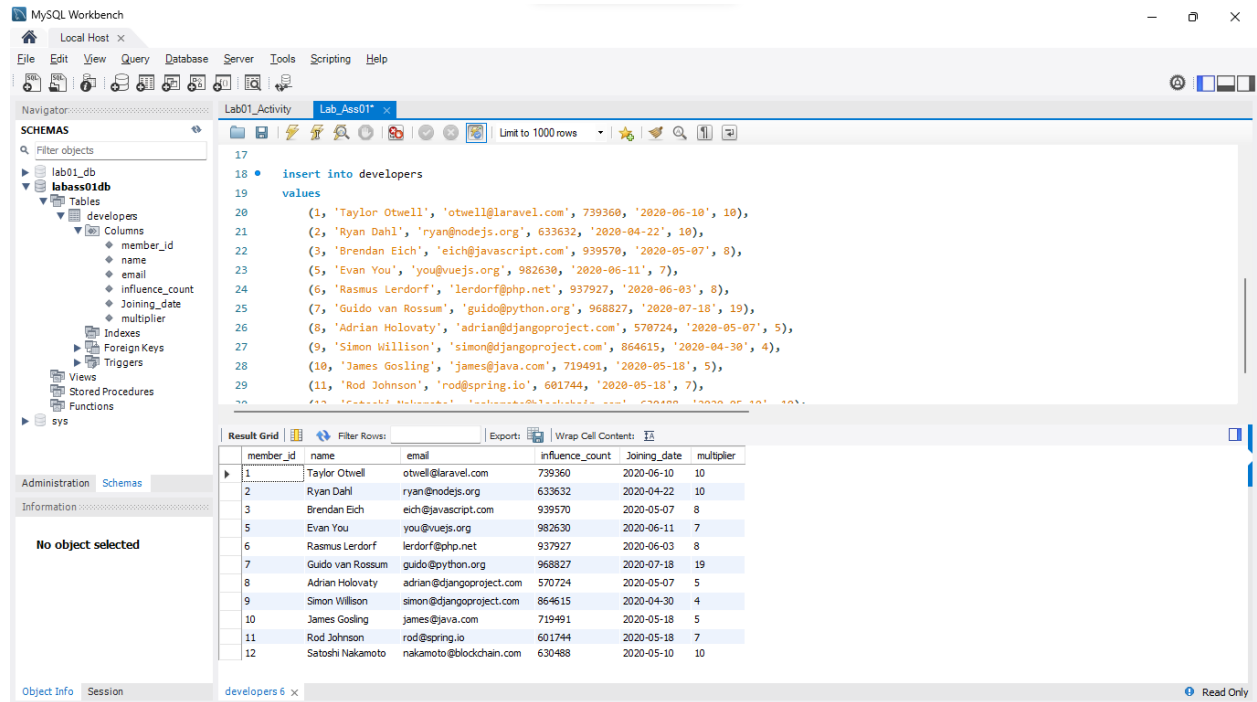
```
show tables;
```

```
select *from developers;
```

```
insert into developers
```

```
values
```

```
(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);
```



TASK02: Change the column name "influence_count". The new name should be "followers" and the data type should be integer.

Command:

alter table developers rename column influence_count to followers;

alter table developers modify column followers int;

select *from developers;

describe developers;

```

35
36 • select *from developers;
37 • alter table developers rename column influence_count to followers;
38 • alter table developers modify column followers int;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	member_id	name	email	followers	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

developers 10 ×

Output

Action Output

#	Time	Action	Message
✓ 84	16:39:49	select *from developers LIMIT 0, 1000	11 row(s) returned
✓ 85	16:39:56	alter table developers modify column followers int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 86	16:40:05	select *from developers LIMIT 0, 1000	11 row(s) returned

```

38 • alter table developers modify column followers int;
39 • describe developers;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	Field	Type	Null	Key	Default	Extra
	member_id	int	YES		NULL	
	name	varchar(50)	YES		NULL	
	email	varchar(100)	YES		NULL	
	followers	int	YES		NULL	
	Joining_date	date	YES		NULL	
	multiplier	int	YES		NULL	

Result 13 ×

Output

Action Output

#	Time	Action	Message
▶ 87	16:42:29	describe table developers	1 row(s) returned
▶ 88	16:42:48	describe developers	6 row(s) returned
▶ 89	16:43:14	describe developers	6 row(s) returned

3. Update the number of followers of each developer by +10.

Command:

update developers set followers = followers +10;

```
41
42 • update developers set followers = followers +10;
43 • select *from developers;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [fA](#)

	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

developers 15 x

Output

Action Output

#	Time	Action	Message
✓ 90	16:53:23	select *from developers LIMIT 0, 1000	11 row(s) returned
✓ 91	16:53:42	update developers set followers = followers +10	11 row(s) affected Rows matched: 11 Changed: 11
✓ 92	16:53:48	select *from developers LIMIT 0, 1000	11 row(s) returned

4. There is a formula to find the efficiency of the developers. Efficiency = ((followers*100/1000000) * (multipliers*100/20))/100. Show the efficiency of each developer in a column named "Efficiency" along with their name.

Command:



```
select name, cast((((followers * 100.0 / 1000000) * (multiplier * 100.0 / 20)) / 100 as decimal(5, 2)) as Efficiency from Developers;
```

/* used cast to explicitly get the desired data type e.g. here decimal(5,2) */

```

49 • select name, cast(((followers * 100.0 / 1000000) * (multiplier * 100.0 / 20)) / 100 as decimal(5, 2)) as Efficiency
50 from Developers;
51
52 /* used cast to explicitly get the desired data type e.g. here decimal(5,2) */
53

```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

name	Efficiency
Taylor Otwell	36.97
Ryan Dahl	31.68
Brendan Eich	37.58
Evan You	34.39
Rasmus Lerdorf	37.52
Guido van Rossum	92.04
Adrian Holovaty	14.27
Simon Willison	17.29
James Gosling	17.99
Rod Johnson	21.06
Satoshi Nakamoto	31.52

5. Show the name of the developers in UpperCase and in the descending order of their Joining_date.


Command:

select upper(name) as JoinedLast from developers order by joining_date desc;

```

54
55 • select upper(name) as JoinedLast from developers order by joining_date desc;

```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

JoinedLast
GUIDO VAN ROSSUM
EVAN YOU
TAYLOR OTWELL
RASMUS LERDORF
JAMES GOSLING
ROD JOHNSON
SATOSHI NAKAMOTO
BRENDAN EICH
ADRIAN HOLOVATY
SIMON WILLISON
RYAN DAHL

6(8). Retrieve the member_id, name, email and followers of the developers who have either ".com" or ".net" in their email address.

Command:

```
select member_id,name,email,followers from Developers  
where email like '%.com' or email like '%.net';
```

```
62  
63 • select member_id,name,email,followers from Developers  
64 where email like '%.com' or email like '%.net';
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	name	email	followers
1	Taylor Otwell	otwell@laravel.com	739370
3	Brendan Eich	eich@javascript.com	939580
6	Rasmus Lerdorf	lerdorf@php.net	937937
8	Adrian Holovaty	adrian@djangoproject.com	570734
9	Simon Willison	simon@djangoproject.com	864625
10	James Gosling	james@java.com	719501
12	Satoshi Nakamoto	nakamoto@blockchain.com	630498