

CSE370 : Database Systems

Assignment 01/02/03 | Fall 2024

ID : <22201054> | Name : Amit Sutradhar

No 1 Query
(as Plain Text)

```
create table Developers( member_id char(2), name varchar(30), email varchar(50), influence_count char(6), Joining_date date, multiplier int);
```

```
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),  
( '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@django project.com', 570724, '2020-05-07', 5),  
( '8', 'Simon Willison', 'simon@django project.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);
```

```
select * from Developers;
```

No 1 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> create table Developers( member_id char(2), name varchar(30), email varchar(50),
-> influence_count char(6), Joining_date date, multiplier int);
Query OK, 0 rows affected (0.007 sec)

MariaDB [google_22201054]> 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),
-> ('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@django project.com', '570724', '2020-05-07', 5),
-> ('8','Simon Willison','simon@django project.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 (0.016 sec)
Records: 11 Duplicates: 0 Warnings: 0

MariaDB [google_22201054]> 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
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@django project.com	570724	2020-05-07	5
8	Simon Willison	simon@django project.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 (0.000 sec)
```

No 2 Query
(as Plain Text)

```
alter table Developers change influence_count followers int;

select*from Developers;
```

No 2 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> alter table Developers change influence_count followers int;  
Query OK, 11 rows affected (0.037 sec)  
Records: 11  Duplicates: 0  Warnings: 0
```

```
MariaDB [google_22201054]> select*from Developers;
```

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
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@django project.com	570724	2020-05-07	5
8	Simon Willison	simon@django project.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 (0.002 sec)
```

No 3 Query
(as Plain Text)

```
update Developers set followers=followers+10;
```

```
select* from Developers;
```

No 3 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> update Developers set followers=followers+10;
Query OK, 11 rows affected (0.012 sec)
Rows matched: 11  Changed: 11  Warnings: 0
```

```
MariaDB [google_22201054]> 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
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@django project.com	570734	2020-05-07	5
8	Simon Willison	simon@django project.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 (0.000 sec)
```

No 4 Query
(as Plain Text)

```
alter table Developers add Efficiency int;
```

```
select*from Developers;
```

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

No 4 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> alter table Developers add Efficiency int;
Query OK, 0 rows affected (0.017 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [google_22201054]> select*from Developers;
```

member_id	name	email	followers	Joining_date	multiplier	Efficiency
1	Taylor Otwell	otwell@laravel.com	739370	2020-06-10	10	NULL
2	Ryan Dahl	ryan@nodejs.org	633642	2020-04-22	10	NULL
3	Brendan Eich	eich@javascript.com	939580	2020-05-07	8	NULL
4	Evan You	you@vuejs.org	982640	2020-06-11	7	NULL
5	Rasmus Lerdorf	lerdorf@php.net	937937	2020-06-03	8	NULL
6	Guido van Rossum	guido@python.org	968837	2020-07-18	19	NULL
7	Adrian Holovaty	adrian@djangooproject.com	570734	2020-05-07	5	NULL
8	Simon Willison	simon@djangooproject.com	864625	2020-04-30	4	NULL
9	James Gosling	james@java.com	719501	2020-05-18	5	NULL
10	Rod Johnson	rod@spring.io	601754	2020-05-18	7	NULL
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498	2020-05-10	10	NULL

```
11 rows in set (0.000 sec)

MariaDB [google_22201054]> 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 (0.014 sec)
```

No 5 Query
(as Plain Text)

```
select upper(name),Joining_date from Developers order by Joining_date desc;
```

No 5 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> select upper(name),Joining_date from Developers order by Joining_date desc;
+-----+-----+
| upper(name) | Joining_date |
+-----+-----+
| GUIDO VAN ROSSUM | 2020-07-18 |
| EVAN YOU | 2020-06-11 |
| TAYLOR OTWELL | 2020-06-10 |
| RASMUS LERDORF | 2020-06-03 |
| JAMES GOSLING | 2020-05-18 |
| ROD JOHNSON | 2020-05-18 |
| SATOSHI NAKAMOTO | 2020-05-10 |
| BRENDAN EICH | 2020-05-07 |
| ADRIAN HOLOVATY | 2020-05-07 |
| SIMON WILLISON | 2020-04-30 |
| RYAN DAHL | 2020-04-22 |
+-----+-----+
11 rows in set (0.015 sec)
```

No 6 Query
(as Plain Text)

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

No 6 SS
(of Query & Output
in Shell)

```
MariaDB [google_22201054]> 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 | 739370 |
| 3 | Brendan Eich | eich@javascript.com | 939580 |
| 5 | Rasmus Lerdorf | lerdorf@php.net | 937937 |
| 7 | Adrian Holovaty | adrian@django project.com | 570734 |
| 8 | Simon Willison | simon@django project.com | 864625 |
| 9 | James Gosling | james@java.com | 719501 |
| 11 | Satoshi Nakamoto | nakamoto@blockchain.com | 630498 |
+-----+-----+-----+-----+
7 rows in set (0.013 sec)
```

No 7 Query (as Plain Text)	
No 7 SS (of Query & Output in Shell)	