

CSE370 : Database Systems

Assignment 01/02/03 | Spring 2025

ID : 24241122 | Name : Ayhan Arash Tasin

No 1 Query (as Plain Text)

```
mysql -u root -p

create database google_24241122;

use google_24241122;

create table Developers
-> (
-> member_id INT PRIMARY KEY,
-> name varchar(50),
-> email varchar(50),
-> influence_count INT,
-> Joining_date date,
-> multiplier int(4)
-> );

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@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);
```

No 1 SS (of Query & Output in Shell)	<pre> MariaDB [google_24241122]> 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 +-----+-----+-----+-----+-----+-----+ </pre>
No 2 Query (as Plain Text)	alter table Developers change influence_count followers int;

No 2 SS (of Query & Output in Shell)	<pre> MariaDB [google_24241122]> 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.org 570724 2020-05-07 5 8 Simon Willison simon@django.org 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 +-----+-----+-----+-----+-----+-----+ </pre>
No 3 Query (as Plain Text)	update Developers set followers = followers + 10;

No 3 SS (of Query & Output in Shell)	<pre> MariaDB [google_24241122]> 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 +-----+-----+-----+-----+-----+-----+ </pre>
No 4 Query (as Plain Text)	<pre> select name, ((followers*100/1000000)*(multiplier*100/20))/100 as Efficiency from Developers; </pre>

No 4 SS
(of Query & Output
in Shell)

```
+-----+-----+
| 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 |
+-----+-----+
```

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)

```
+-----+-----+
| 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 |
+-----+-----+
```

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)	<table><tr><th>member_id</th><th>name</th><th>email</th><th>followers</th></tr><tr><td>1</td><td>Taylor Otwell</td><td>otwell@laravel.com</td><td>739370</td></tr><tr><td>3</td><td>Brendan Eich</td><td>eich@javascript.com</td><td>939580</td></tr><tr><td>5</td><td>Rasmus Lerdorf</td><td>lerdorf@php.net</td><td>937937</td></tr><tr><td>7</td><td>Adrian Holovaty</td><td>adrian@django project.com</td><td>570734</td></tr><tr><td>8</td><td>Simon Willison</td><td>simon@django project.com</td><td>864625</td></tr><tr><td>9</td><td>James Gosling</td><td>james@java.com</td><td>719501</td></tr><tr><td>11</td><td>Satoshi Nakamoto</td><td>nakamoto@blockchain.com</td><td>630498</td></tr></table>	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
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