

## CSE370 : Database Systems

### Assignment 01 | Fall 2024

ID : <22301268> | Name : Nowrin Sanjana

No 1 Query (as Plain Text)	select * from lab_grades where name like 'a____';
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [12345678_lab1]&gt; select * from lab_grades where name like 'a____'; +-----+-----+-----+-----+-----+-----+-----+-----+   std_id   name   major   section   days_present   project_marks   cgpa   sub_date   +-----+-----+-----+-----+-----+-----+-----+-----+   s001     Abir   CS       1         10             18.5            3.91   2018-09-15   +-----+-----+-----+-----+-----+-----+-----+-----+ 1 row in set (0.000 sec)</pre>
No 2 Query (as Plain Text)	<pre>create table Developers -&gt; (member_id int, -&gt; name varchar(30), -&gt; email varchar(80), -&gt; influence_count int, -&gt; Joining_date date, -&gt; multiplier int); insert into Developers values -&gt; (1, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10), -&gt; (2, 'Ryan Dahl', 'ryan@nodejs.org', 633632, '2020-04-22', 10), -&gt; (3, 'Brendan Eich', 'eich@javascript.com', 939570, '2020-05-07', 8), -&gt; (4, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),</pre>

	<pre>-&gt; (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8), -&gt; (6, 'Guido van Rossum', 'guido@python.org', 968827, '2020-07-18', 19), -&gt; (7, 'Adrian Holovaty', 'adrian@django project.com', 570724, '2020-05-07', 5), -&gt; (8, 'Simon Willison', 'simon@django project.com', 864615, '2020-04-30', 4), -&gt; (9, 'James Gosling', 'james@java.com', 719491, '2020-05-18', 5), -&gt; (10, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7), -&gt; (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, '2020-05-10', 10);</pre>
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No 2 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> create table Developers
[    -> (member_id int,
[    -> name varchar(30),
[    -> email varchar(80),
[    -> influence_count int,
[    -> Joining_date date,
[    -> multiplier int);
```

**Query OK, 0 rows affected (0.018 sec)**

```
[MariaDB [Google_22301268]> describe Developers;
```

Field	Type	Null	Key	Default	Extra
member_id	int(11)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(80)	YES		NULL	
influence_count	int(11)	YES		NULL	
Joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

```

MariaDB [Google_22301268]> 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_22301268]> 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

**No 3 Query**  
**(as Plain Text)**

alter table Developers change influence\_count followers int;

No 3 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> alter table Developers change influence_count followers int;  
Query OK, 0 rows affected (0.025 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
[MariaDB [Google_22301268]> 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

No 4 Query  
(as Plain Text)

update developers set followers = followers+10;



No 4 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> update developers set followers = followers+10;  
Query OK, 11 rows affected (0.010 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
[MariaDB [Google_22301268]> 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

No 5 Query  
(as Plain Text)

```
select name,round((((followers*100/1000000) * (multiplier*100/20))/100, 4) as Efficiency from Developers;
```

No 5 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> update developers set followers = followers+10;  
Query OK, 11 rows affected (0.010 sec)  
Rows matched: 11  Changed: 11  Warnings: 0
```

```
[MariaDB [Google_22301268]> 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

No 6 Query  
(as Plain Text)

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

No 6 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> select upper(name) as name, Joining_date from Developers order by Joining_date desc;
+-----+-----+
| 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 7 Query  
(as Plain Text)

select member\_id, name, email, followers from Developom' or email like '%.com' or email like '%.net';

No 7 SS  
(of Query & Output  
in Shell)

```
[MariaDB [Google_22301268]> MariaDB [Google_22301268]> select member_id, name, email, followers from Developom' or 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 (0.010 sec)
```