CSE-370

Lab Assignment - 01

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Section: 04

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(Snapshots from XAMPP-Shell)

TASK-1

Create the table

Command to create table with appropriate data type

```
use cse370_db;
create table Developers
(
    member_id int auto_increment,
    name varchar(30),
    email varchar(50),
    influence_count int,
    Joining_date date,
    multiplier int,
    primary key(member_id)
);
```

Show Result:

Your SQL query has been executed successfully.

```
show tables;
```

Profiling [Edit inline] [Edit] [Create PHP code] [Refresh]

Extra options

Tables_in_cse370_db
developers

Your SQL query has been executed successfully.

```
describe Developers;
```

[Edit inline] [Edit] [Create PHP code]

Extra options

Field	Type	Null	Key	Default	Extra
member_id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
influence_count	int(11)	YES		NULL	
Joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

Insert Data into Table

Command to insert data, (used NULL for member_id as we are setting it on auto-increment.)

```sql
use cse370_db;
INSERT INTO developers values
(NULL, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10),
(NULL, 'Ryan Dahl', 'ryan@nodejs.org', 633632, '2020-04-22', 10),
(NULL, 'Brendan Eich', 'eich@javascript.com', 939570,'2020-05-07', 8),
(NULL, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
(NULL, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8),
(NULL, 'Guido van Rossum', 'guido@python.org', 968827,'2020-07-18', 19),
(NULL, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),
(NULL, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4),
(NULL, 'James Gosling', 'james@java.com', 719491,'2020-05-18', 5),
(NULL, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),
(NULL, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488','2020-05-10', 10);
```

Show Result:

Showing rows 0 - 10 (11 total, Query took 0.0004 seconds.)

```sql
select * from Developers;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	member_id	name	email	influence_count	Joining_date	multiplier
Edit Copy Delete	1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
Edit Copy Delete	2	Ryan Dahl	ryan@nodejs.org	633632	2020-04-22	10
Edit Copy Delete	3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
Edit Copy Delete	4	Evan You	you@vuejs.org	982630	2020-06-11	7
Edit Copy Delete	5	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
Edit Copy Delete	6	Guido van Rossum	guido@python.org	968827	2020-07-18	19
Edit Copy Delete	7	Adrian Holovaty	adrian@djangoproject.com	570724	2020-05-07	5
Edit Copy Delete	8	Simon Willison	simon@djangoproject.com	864615	2020-04-30	4
Edit Copy Delete	9	James Gosling	james@java.com	719491	2020-05-18	5
Edit Copy Delete	10	Rod Johnson	rod@spring.io	601744	2020-05-18	7
Edit Copy Delete	11	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10

Check all *With selected:* Edit Copy Delete Export

TASK-2

Change column name

Alter table to change column name and data-type:

Command and affected results are shown below-

SQL Command:

```
ALTER TABLE Developers CHANGE influence_count
followers INT;
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0039 seconds.)

```
ALTER TABLE Developers CHANGE influence_count followers INT;
```

[Edit inline] [Edit] [Create PHP code]

Showing rows 0 - 10 (11 total, Query took 0.0004 seconds.)

```
select * from Developers;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	member_id	name	email	followers	Joining_date	multiplier
Edit Copy Delete	1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10
Edit Copy Delete	2	Ryan Dahl	ryan@nodejs.org	633632	2020-04-22	10
Edit Copy Delete	3	Brendan Eich	eich@javascript.com	939570	2020-05-07	8
Edit Copy Delete	4	Evan You	you@vuejs.org	982630	2020-06-11	7
Edit Copy Delete	5	Rasmus Lerdorf	lerdorf@php.net	937927	2020-06-03	8
Edit Copy Delete	6	Guido van Rossum	guido@python.org	968827	2020-07-18	19
Edit Copy Delete	7	Adrian Holovaty	adrian@djangoproject.com	570724	2020-05-07	5
Edit Copy Delete	8	Simon Willison	simon@djangoproject.com	864615	2020-04-30	4
Edit Copy Delete	9	James Gosling	james@java.com	719491	2020-05-18	5
Edit Copy Delete	10	Rod Johnson	rod@spring.io	601744	2020-05-18	7
Edit Copy Delete	11	Satoshi Nakamoto	nakamoto@blockchain.com	630488	2020-05-10	10

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

TASK-3

UPDATE The Value of followers column by adding 10

SQL Command:

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

11 rows affected. (Query took 0.0016 seconds.)

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

[Edit inline] [Edit] [Create PHP code]

Showing rows 0 - 10 (11 total, Query took 0.0003 seconds.)

```
select * from Developers;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

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

Check all *With selected:* Edit Copy Delete Export

TASK-4

Efficiency = ((followers*100/1000000) * (multiplier*100/20))/100.

Efficiency of each developer in a column named "Efficiency" along with their name -

SQL Command:

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

Showing rows 0 - 10 (11 total, Query took 0.0003 seconds.)

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

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	name	Efficiency
Edit Copy Delete	Taylor Otwell	36.968500000000
Edit Copy Delete	Ryan Dahl	31.682100000000
Edit Copy Delete	Brendan Eich	37.583200000000
Edit Copy Delete	Evan You	34.392400000000
Edit Copy Delete	Rasmus Lerdorf	37.517480000000
Edit Copy Delete	Guido van Rossum	92.039515000000
Edit Copy Delete	Adrian Holovaty	14.268350000000
Edit Copy Delete	Simon Willison	17.292500000000
Edit Copy Delete	James Gosling	17.987525000000
Edit Copy Delete	Rod Johnson	21.061390000000
Edit Copy Delete	Satoshi Nakamoto	31.524900000000

Check all *With selected:* Edit Copy Delete Export

TASK-5

Show name in upper-class and sort them by descending order of joining_date

SQL Command:

```
select UPPER(name), Joining_date from Developers
order by Joining_date DESC;
```

Showing rows 0 - 10 (11 total, Query took 0.0003 seconds.) [Joining_date: **2020-07-18... - 2020-04-22...**]

```
select UPPER(name), Joining_date from Developers order by Joining_date DESC;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by ke

Extra options

	UPPER(name)	Joining_date 1
Edit Copy Delete	GUIDO VAN ROSSUM	2020-07-18
Edit Copy Delete	EVAN YOU	2020-06-11
Edit Copy Delete	TAYLOR OTWELL	2020-06-10
Edit Copy Delete	RASMUS LERDORF	2020-06-03
Edit Copy Delete	JAMES GOSLING	2020-05-18
Edit Copy Delete	ROD JOHNSON	2020-05-18
Edit Copy Delete	SATOSHI NAKAMOTO	2020-05-10
Edit Copy Delete	BRENDAN EICH	2020-05-07
Edit Copy Delete	ADRIAN HOLOVATY	2020-05-07
Edit Copy Delete	SIMON WILLISON	2020-04-30
Edit Copy Delete	RYAN DAHL	2020-04-22

TASK-6

Show id, name, email, followers where email contains .com or .net. Used the LIKE keyword from SQL.

SQL Command:

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

Showing rows 0 - 6 (7 total, Query took 0.0003 seconds.)

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

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	member_id	name	email	followers
Edit Copy Delete	1	Taylor Otwell	otwell@laravel.com	739370
Edit Copy Delete	3	Brendan Eich	eich@javascript.com	939580
Edit Copy Delete	5	Rasmus Lerdorf	lerdorf@php.net	937937
Edit Copy Delete	7	Adrian Holovaty	adrian@djangoproject.com	570734
Edit Copy Delete	8	Simon Willison	simon@djangoproject.com	864625
Edit Copy Delete	9	James Gosling	james@java.com	719501
Edit Copy Delete	11	Satoshi Nakamoto	nakamoto@blockchain.com	630498

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Add Commands as plain text:

To Create Database

- **create DATABASE** cse370_db;

To work in particular Database

- **use** cse370_db;

Task-1 (Create Table Column with data-types)

- **create table Developers**

```
(
    member_id int auto_increment,
    name varchar(30),
    email varchar(50),
    influence_count int,
    Joining_date date,
    multiplier int,
    primary key(member_id)
);
```

Task-1 (Insert Info into Table)

- **INSERT INTO developers values**

(NULL, 'Taylor Otwell', 'otwell@laravel.com', 739360, '2020-6-10', 10),
(NULL, 'Ryan Dahl', 'ryan@nodejs.org', 633632, '2020-04-22', 10),
(NULL, 'Brendan Eich', 'eich@javascript.com', 939570,'2020-05-07', 8),
(NULL, 'Evan You', 'you@vuejs.org', 982630, '2020-06-11', 7),
(NULL, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, '2020-06-3', 8),
(NULL, 'Guido van Rossum', 'guido@python.org', 968827,'2020-07-18', 19),
(NULL, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, '2020-05-07', 5),

(NULL, 'Simon Willison', 'simon@djangoproject.com', '864615', '2020-04-30', 4),
(NULL, 'James Gosling', 'james@java.com', 719491,'2020-05-18', 5),
(NULL, 'Rod Johnson', 'rod@spring.io', 601744, '2020-05-18', 7),
(NULL, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', '630488','2020-05-10', 10);

To Show all Data of Created Table

- **select * from** Developers;

Task-2

- **ALTER TABLE** Developers **CHANGE** influence_count followers INT;

Task-3

- **update** Developers **set** followers = followers + 10;

Task-4

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

Task-5

- **select UPPER(name)**, Joining_date **from** Developers **order by Joining_date DESC;**

Task-6

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