

# Lab Assignment 01

CSE370, Section-03

Summer-2024

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## Answer of Task-01:

### Step-01:

create database cse370assignment01;

show databases;

The screenshot displays the phpMyAdmin web interface. The top navigation bar shows the server as '127.0.0.1' and the database as 'phpmyadmin'. The main content area is titled 'Run SQL query/queries on database phpmyadmin:'. It contains a text area with two SQL queries: `1 create database cse370assignment01;` and `2 show databases;`. Below the text area are buttons for 'Clear', 'Format', and 'Get auto-saved query'. There is also a checkbox for 'Bind parameters' and a 'Bookmark this SQL query:' field. At the bottom left, there is a 'Delimiter' dropdown set to ';' and a checkbox for 'Show this query here again'. The right sidebar contains a 'Show query box' button, a green success message stating 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)', and a blue warning message stating 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below these messages is another green success message: 'Your SQL query has been executed successfully.' followed by the query `show databases;` and a 'Profiling' checkbox. At the bottom right, there is an 'Extra options' section with a 'Database' dropdown menu showing a list of databases: 'cse370assignment01', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', and 'test'.

## Step-02:

use cse370assignment01;

create table Developers

(  
    member\_id char(2),  
    name varchar(30),  
    email varchar(50),  
    influence\_count int,  
    joining\_date date,  
    multiplier int

);

describe Developers;

The screenshot displays the phpMyAdmin interface. On the left, the SQL query editor contains the following code:

```
1 use cse370assignment01;
2 create table Developers
3 (
4     member_id char(2),
5     name varchar(30),
6     email varchar(50),
7     influence_count int,
8     joining_date date,
9     multiplier int
10 );
11 describe Developers;
12
```

Below the editor are buttons for 'Clear', 'Format', and 'Get auto-saved query'. There is also a checkbox for 'Bind parameters' and a 'Bookmark this SQL query' field. At the bottom, there are checkboxes for 'Show this query here again', 'Retain query box', 'Rollback when finished', and 'Enable foreign key checks'.

On the right, the query execution results are shown. The first two queries returned an empty result set. The third query, 'describe Developers;', successfully executed and returned the table structure:

Field	Type	Null	Key	Default	Extra
member_id	char(2)	YES		NULL	
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	

Below the table is a 'Query results operations' section with a 'Console' button.

### Step-03:

insert into Developers (member\_id, name, email, influence\_count, joining\_date, multiplier) 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);

select \* from Developers;

1 SQL query/queries on database phpmyadmin:

```
1 use cse370assignment01;
2 insert into Developers (member_id, name, email, influence_count, joining_date,
  multiplier) values
3 (1, 'Taylor Otwell', 'otwell@laravel.com', 739360, 2020-6-10, 10),
4 (2, 'Ryan Dahl', 'ryan@nodejs.org', 633632, 2020-04-22, 10),
5 (3, 'Brendan Eich', 'eich@javascript.com', 939570, 2020-05-07, 8),
6 (4, 'Evan You', 'you@vuejs.org', 982630, 2020-06-11, 7),
7 (5, 'Rasmus Lerdorf', 'lerdorf@php.net', 937927, 2020-06-3, 8),
8 (6, 'Guido van Rossum', 'guido@python.org', 968827, 2020-07-18, 19),
9 (7, 'Adrian Holovaty', 'adrian@djangoproject.com', 570724, 2020-05-07, 5),
10 (8, 'Simon Willison', 'simon@djangoproject.com', 864615, 2020-04-30, 4),
11 (9, 'James Gosling', 'james@java.com', 719491, 2020-05-18, 5),
12 (10, 'Rod Johnson', 'rod@spring.io', 601744, 2020-05-18, 7),
13 (11, 'Satoshi Nakamoto', 'nakamoto@blockchain.com', 630488, 2020-05-10, 10);
14 select * from Developers;
```

Hide query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

use cse370assignment01;

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

11 rows inserted. (Query took 0.0002 seconds.)

insert into Developers (member\_id, name, email, influence\_count, joining\_date, multiplier) 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);

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

Warning: #1265 Data truncated for column 'joining\_date' at row 1

Warning: #1265 Data truncated for column 'joining\_date' at row 2

Warning: #1265 Data truncated for column 'joining\_date' at row 3

Warning: #1265 Data truncated for column 'joining\_date' at row 4

Warning: #1265 Data truncated for column 'joining\_date' at row 5

Warning: #1265 Data truncated for column 'joining\_date' at row 6

Warning: #1265 Data truncated for column 'joining\_date' at row 7

Clear Format Get auto-saved query

Bind parameters

Bookmark this SQL query:

Limit:  limiter ;

How this query here again

Get auto-saved query

✓ Showing rows 0 - 10 (11 total, Query took 0.0001 seconds.)

```
select * from Developers;
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]






☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

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

☐ Show all | Number of rows: 25 ▾ Filter rows:

Query results operations

 Print  Copy to clipboard  Export  Display chart  Create view

 Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

## Answer of Task-02

use cse370assignment01;

alter table Developers change column influence\_count followers int;

describe Developers;

Run SQL query/queries on database phpmyadmin:

```
1 use cse370assignment01;
2 alter table Developers change column influence_count followers int;
3 describe Developers;
```

ClearFormatGet auto-saved query

☐ Bind parameters

Bookmark this SQL query:

Delimiter: ;

☐ Show this query here again  
☐ Retain query box  
☐ Rollback when finished

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

use cse370assignment01;

[ Edit inline ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

alter table Developers change column influence\_count followers int;

[ Edit inline ]

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete are not available.

Your SQL query has been executed successfully.

describe Developers;

[ Edit inline ]

Extra options

Field	Type	Null	Key	Default	Extra
member_id	char(2)	YES		NULL	
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
followers	int(11)	YES		NULL	
joining_date	date	YES		NULL	
multiplier	int(11)	YES		NULL	

Query results operations

Print Copy to clipboard Create view

## Answer of Task-03

use cse370assignment01;

update Developers set followers=followers+10;

select \* from Developers;

Run SQL query/queries on database phpmyadmin: ?

```
1 use cse370assignment01;
2 update Developers set followers=followers+10;
3 select * from Developers;
```

11 rows affected. (Query took 0.0002 seconds.)

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

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete feature available. ?

Showing rows 0 - 10 (11 total, Query took 0.0001 seconds.)

```
select * from Developers;
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

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@djangoproject.com	570734	2020-05-07	5
8	Simon Willison	simon@djangoproject.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

Clear Format Get auto-saved query

☐ Bind parameters ?

Bookmark this SQL query:

## Answer of Task-04

use cse370assignment01;

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

Run SQL query/queries on database phpmyadmin: ⓘ

```
1 use cse370assignment01;
2 select name, ((followers*100/1000000)*(multiplier*100/20))/100 as Efficiency from
  Developers;
3
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Bookmark this SQL query:

Delimiter ;

☐ Show this query here again

☐ Retain query box

☐ Rollback when finished

☒ Enable foreign key checks

Console

use cse370assignment01;

[ Edit inline ] [ Edit ]

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 10 (11 total, Query took 0.0002 seconds.)

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

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create ]

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table

Extra options

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

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table

Query results operations

Console

## Answer of Task-05

use cse370assignment01;

select upper(name), joining\_date from Developers order by joining\_date desc;

Run SQL query/queries on database phpmyadmin: ⓘ

```
1 use cse370assignment01;
2 select upper(name), joining_date from Developers order by joining_date desc;
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Bookmark this SQL query:

Delimiter ;

Show this query here again

Retain query box

Rollback when finished

Enable foreign key checks

use cse370assignment01;

[ Edit inline ]

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete are not available. ⓘ

✓ Showing rows 0 - 10 (11 total, Query took 0.0001 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 ] [ Show all ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

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

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations



## Answer of Task-06

use cse370assignment01;

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

Run SQL query/queries on database phpmyadmin: ⓘ

```
1 use cse370assignment01;
2 select member_id, name, email, followers from Developers where email like '%.com'
   or email like '%.net';
```

Hide query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

use cse370assignment01;

[ Edit inline ] [ Edit ]

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete available. ⓘ

✓ Showing rows 0 - 6 (7 total, Query took 0.0002 seconds.)

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

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create index ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

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

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Console | **Results operations**

Clear | Format | Get auto-saved query

☐ Bind parameters ⓘ

Bookmark this SQL query:

Delimiter: ;

Show this query here again

Retain query box

Rollback when finished