

## Assignment SQL #1

### Data retrieval and DBMS

(เต็ม 50 คะแนน เก็บ 25 คะแนน)

#### วัตถุประสงค์

- เข้าใจการค้นหาข้อมูลในฐานข้อมูล
- เขียนคำสั่ง select ตามเงื่อนไขที่กำหนดให้ได้
- ใช้ workbench สำหรับสร้างฐานข้อมูล สร้างตาราง เพิ่มข้อมูล และค้นหาข้อมูลได้ รวมถึงการนำเข้าข้อมูล

#### ภาระงานส่ง

- ตัวชี้อีเมล์รหัสนักศึกษา\_asgSQL#1.pdf
- ส่งที่ LMS2 ภายในวันที่ 28 ธันวาคม 2568

#### 1. (5 คะแนน) สร้างฐานข้อมูล ตาราง เพิ่มข้อมูลลงในตาราง และแสดงผลการ query

##### 1.1 (1 คะแนน) Create database named “CustomerDB”

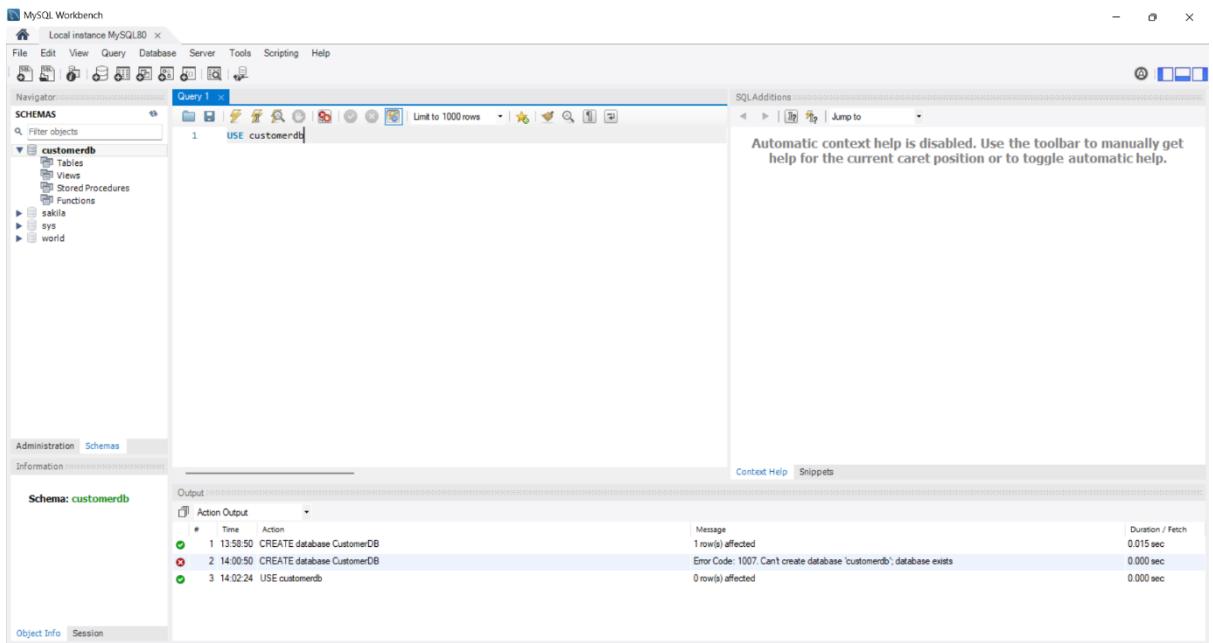
###### ตอบ

The screenshot shows the MySQL Workbench interface. In the top-left pane, the 'Schemas' tree shows the 'customerdb' schema expanded, containing 'Tables', 'Views', 'Stored Procedures', 'Functions', and 'sys'. In the top-right pane, the 'Query' editor contains the command: 'CREATE database CustomerDB;'. Below the editor, the 'Output' pane displays the results of the query execution:

Action	Time	Action
1	13:58:50	CREATE database CustomerDB
2	14:00:50	CREATE database CustomerDB

Details from the output pane:

- Action: CREATE database CustomerDB
- Time: 13:58:50
- Message: 1 row(s) affected
- Error Code: 1007: Can't create database 'customerdb'; database exists
- Duration / Fetch: 0.015 sec
- Snippet: None



### 1.2 (1 នៃ 11) Create table called “customer”

Attribute Name	Data Type
<u>id</u>	decimal(38)
firstname	varchar(50)
lastname	varchar(50)
Email	varchar(100)
gender	char(1)
country	varchar(50)
department	varchar(100)
Salary	float(15,2)

## ตอบ

The screenshot shows the MySQL Workbench interface. In the top-left pane, the 'Schemas' tree shows 'customerdb' selected. In the main 'Query 1' editor, the following SQL code is written:

```
CREATE TABLE customer (
    id decimal(38),
    firstname varchar(50),
    lastname varchar(50),
    Email varchar(100),
    gender char(1),
    country varchar(50),
    department varchar(100),
    Salary float(15,2)
);
```

In the bottom-right pane, the 'Output' window displays the execution log:

Action	Time	Message	Duration / Fetch
CREATE database CustomerDB	1 13:58:50	1 row(s) affected	0.015 sec
CREATE database CustomerDB	2 14:00:50	Error Code: 1007. Can't create database 'customerdb'; database exists	0.000 sec
USE customerdb	3 14:02:24	0 row(s) affected	0.000 sec

1.3 (1 คะแนน) Insert your information to the table (เพิ่มข้อมูลส่วนตัวของนักศึกษาลงในตาราง)

กำหนดรหัสเป็น 1001 สำหรับข้อมูลอื่นเป็นข้อมูลของนักศึกษาเอง

## ตอบ

The screenshot shows the MySQL Workbench interface. In the top-left pane, the 'Schemas' tree shows 'customerdb' selected. In the main 'Query 1' editor, the following SQL code is written:

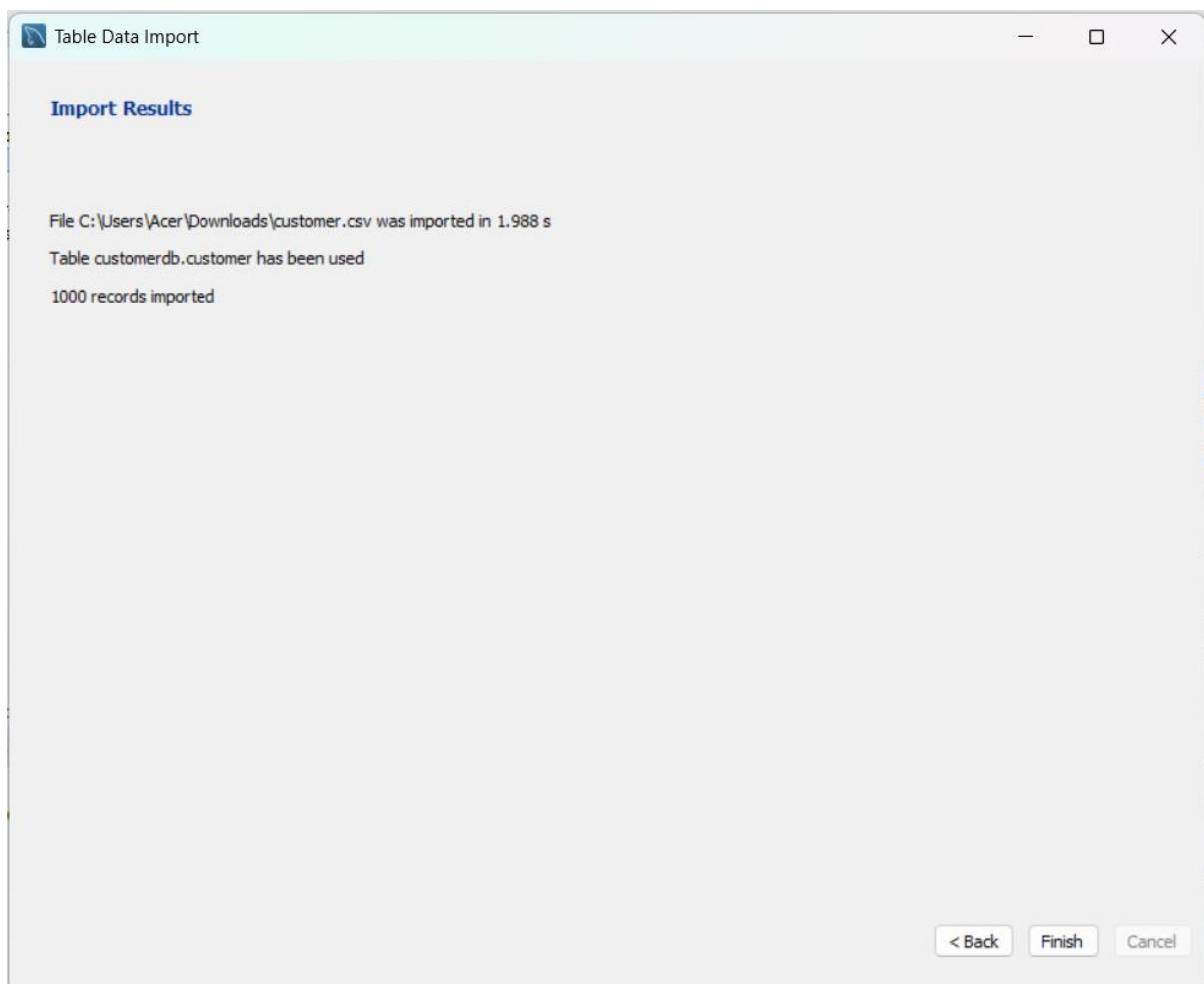
```
INSERT INTO customer (id,firstname,lastname,Email,gender,country,department,Salary)
VALUES (1001,'Anas','Sando','realme6315@gmail.com','M','Thailand','IT',25000.00);
```

In the bottom-right pane, the 'Output' window displays the execution log:

Action	Time	Message	Duration / Fetch
CREATE database CustomerDB	1 13:58:50	1 row(s) affected	0.015 sec
CREATE database CustomerDB	2 14:00:50	Error Code: 1007. Can't create database 'customerdb'; database exists	0.000 sec
USE customerdb	3 14:02:24	0 row(s) affected	0.000 sec
CREATE TABLE customer ( id decimal(38), firstname varchar(50), lastname varchar(50), Email varchar(100), gender char(1), country varchar(50), department varchar(100), Salary float(15,2) )	4 14:09:04	0 row(s) affected. 1 warning(s). 1681 Specifying number of digits for floating point data types is deprecated and will be removed in a future release.	0.062 sec
INSERT INTO customer (id,firstname,lastname,Email,gender,country,department,Salary) VALUES (1001,'Anas','Sando','realme6315@gmail.com','M','Thailand','IT',25000.00)	5 14:11:51	Error Code: 1050. Table 'customer' already exists	0.016 sec
INSERT INTO customer (id,firstname,lastname,Email,gender,country,department,Salary) VALUES (1001,'Anas','Sando','realme6315@gmail.com','M','Thailand','IT',25000.00)	6 14:12:54	1 row(s) affected	0.000 sec

1.4 (1 คะแนน) เพิ่มข้อมูลในไฟล์ customer.csv ลงในตาราง customer

ตอบ



1.5 (1 คะแนน) แสดงคำสั่ง sql และผลลัพธ์ ของข้อมูลนักศึกษา แสดงรูปหน้าจอ

ตอบ

The screenshot shows the MySQL Workbench interface. In the top-left, the Navigator pane shows the schema 'customerdb' containing tables, views, stored procedures, functions, and sys. The main area is titled 'Query 1' and contains the SQL query: 'SELECT \* FROM customer WHERE id = 1001;'. Below the query is a 'Result Grid' showing one row of data:

ID	firstname	lastname	Email	gender	country	department	Salary
1001	Anas	Sando	realme6315@gmail.com	M	Thailand	IT	25000.00

On the right side, there is a 'SQLAdditions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.' At the bottom, the 'Output' pane shows the execution history of the query:

#	Action	Time	Message	Duration / Fetch
13	TRUNCATE TABLE 'customerdb'.'customer'	14:20:38	OK	0.000 sec
14	PREPARE stmt FROM INSERT INTO 'customerdb'.'customer' ('id','firstname','lastname','Email','gender','cou...	14:20:38	OK	0.000 sec
15	DEALLOCATE PREPARE stmt	14:20:40	OK	0.000 sec
16	SELECT * FROM customer WHERE id = 1001 LIMIT 0, 1000	14:23:30	0 row(s) returned	0.000 sec / 0.000 sec
17	INSERT INTO customer ('id','firstname','lastname','Email','gender','country','department','Salary') VALUES (1001,'Anas','Sando','realme6315@gmail.com','M','Thailand','IT',25000.00)	14:26:09	1 row(s) affected	0.000 sec
18	SELECT * FROM customer WHERE id = 1001 LIMIT 0, 1000	14:26:21	1 row(s) returned	0.000 sec / 0.000 sec

2. (45 คะแนน) เขียนคำสั่ง SQL สำหรับค้นหาข้อมูลในแต่ละข้อต่อไปนี้ให้ตอบด้วยรูปภาพหน้าจอ Workbench ที่เห็นคำสั่ง sql และตารางผลลัพธ์ หากข้อมูลในตารางมีหลายแถว แสดงเพียง 3 แถวแรก

### 2.1 (2 คะแนน) แสดงข้อมูลลูกค้าทุกคนทุก colum จำนวน 3 แถว

ตอบ

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `customerdb` containing tables like `customer`, `sakila`, `sys`, and `world`.
- Query Editor:** Displays the query `SELECT * FROM customer;`
- Result Grid:** Shows the results of the query, displaying columns: `id`, `firstname`, `lastname`, `Email`, `gender`, `country`, and `department`. The results are as follows:

<code>id</code>	<code>firstname</code>	<code>lastname</code>	<code>Email</code>	<code>gender</code>	<code>country</code>	<code>department</code>
1	Maria	Gardner	mgardner0@com.com	F	China	Services
2	Anna	Spencer	aspencer1@datenwerke.com	M	Bosnia and Herzegovina	Business Devlop
3	Bonita	Palmer	bpalmer2@implantmachines.org	F	Peru	Engineering
4	Margaret	Gutierrez	mpgutierrez3@canalblog.com	F	Malaysia	Business Resources
5	Russell	Martin	rmartin4@infty.com	M	Ukraine	Business Developr
6	Terry	Fox	tfox5@usgs.gov	M	France	Legal
7	Sharon	Duncan	sduncan6@barnesandnoble.com	F	Philippines	Engineering
8	Robert	Ellis	rellis7@newswire.com	M	Russia	Legal
9	Elizabeth	Richards	erichards8@bing.com	F	China	Business Developr
10	Jeffrey	Hanson	jhanson9@lt.co	M	Indonesia	Business Devlop
11	Stephanie	Bishop	sbishop0@youtube.com	F	China	Accounting

- Output:** Shows the execution history with 25 entries, all marked as OK, indicating successful queries.

### 2.2 (2 คะแนน) แสดงเฉพาะ `first_name`, `last_name` และ `email`

ตอบ

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `customerdb` containing tables like `customer`, `sakila`, `sys`, and `world`.
- Query Editor:** Displays the query `select firstname, lastname, email from customer;`
- Result Grid:** Shows the results of the query, displaying columns: `firstname`, `lastname`, and `email`. The results are as follows:

<code>firstname</code>	<code>lastname</code>	<code>email</code>
Maria	Gardner	mgardner0@com.com
Henry	Spencer	aspencer1@datenwerke.com
Bonita	Palmer	bpalmer2@implantmachines.org
Margaret	Gutierrez	mpgutierrez3@canalblog.com
Russell	Martin	rmartin4@infty.com
Terry	Fox	tfox5@usgs.gov
Sharon	Duncan	sduncan6@barnesandnoble.com
Robert	Ellis	rellis7@newswire.com
Elizabeth	Richards	erichards8@bing.com
Jeffrey	Hanson	jhanson9@lt.co
Stephanie	Bishop	sbishop0@youtube.com
John	Thompson	jthompson1@pagesperso-oran...

- Output:** Shows the execution history with 26 entries, all marked as OK, indicating successful queries.

### 2.3 (3 คะแนน) แสดงข้อมูลลูกค้าที่เป็นเพศหญิง

## ตอบ

The screenshot shows the MySQL Workbench interface. The 'customerdb' schema is selected. A query is run in the 'Query 1' editor:

```
1 • select * from customer where gender = 'f';
```

The results grid displays 24 rows of customer data, filtered by gender 'f'. The columns are id, firstname, lastname, Email, gender, country, and department. The 'Output' pane shows the execution history with 7 entries, all marked as OK.

id	firstname	lastname	Email	gender	country	department
1	Maria	Gardner	mgardner0@com.com	F	China	Services
3	Bonnie	Palmer	bpalmer2@implimachines.org	F	Peru	Engineering
4	Margaret	Gutierrez	mgutierrez3@canalblog.com	F	Malaysia	Human Resources
7	Sharon	Duncan	sduncan6@barnesandnoble.com	F	Philippines	Engineering
9	Elizabeth	Richards	erichards8@bing.com	F	China	Business Development
11	Stephanie	Bishop	sbishop9@youtube.com	F	China	Accounting
13	Theresa	Russell	trussell@wikipedia.org	F	India	Engineering
17	Nicole	Russell	nrussell@openathena.com	F	Indonesia	Engineering
19	Christine	Martin	cmarin1@magichack.us	F	United States	Human Resources
23	Mary	James	mjamesm@stumbleupon.com	F	Indonesia	Engineering
24	Phyllis	Washington	pwashington@google.com.br	F	Philippines	Support

2.4 (3 คะแนน) แสดง first\_name, last\_name, salary ของลูกค้าที่มีเงินเดือนมากกว่า 200,000

## ตอบ

The screenshot shows the MySQL Workbench interface. The 'customerdb' schema is selected. A query is run in the 'Query 1' editor:

```
1 • select firstname, lastname, salary from customer where salary > 20000;
```

The results grid displays 14 rows of customer data, filtered by salary > 20000. The columns are firstname, lastname, and salary. The 'Output' pane shows the execution history with 10 entries, all marked as OK.

firstname	lastname	salary
Maria	Gardner	139661.36
Henry	Spencer	87984.77
Bonnie	Palmer	49723.94
Margaret	Gutierrez	230000.17
Russell	Martin	209984.39
Terry	Pixie	168382.23
Sharon	Duncan	269323.62
Robert	Ellis	27620.55
Elizabeth	Richards	62365.19
Jeffrey	Hanson	322628.41
Stephanie	Bishop	390916.31
John	Thompson	177041.94

## 2.5 (3 គម្រោន) ផែតិកខ្លួនលើកការទីអូរប្រចេត France

គុណ

The screenshot shows the MySQL Workbench interface with a query results grid. The query is:

```
select * from customer where country = 'france';
```

The results show 31 rows of customer data where the country is France. The columns include id, firstname, lastname, email, gender, country, department, and salary. One row is highlighted.

ID	First Name	Last Name	Email	Gender	Country	Department	Salary
6	Terry	Fox	tfox5@usgs.gov	M	France	Legal	168382
40	Mark	Scott	mscott13@latimes.com	M	France	Product Management	471895
62	Patrick	Dunn	pdunn1p@mysql.com	M	France	Services	68191
69	Jeremy	Ortiz	jortiz1w@w3.org	M	France	Product Management	82017
119	Ronald	Sullivan	rsullivan3a@wisc.edu	M	France	Sales	316865
145	Christine	Rice	crice10@decdemc.com	F	France	Research and Development	217903
204	Steven	Willis	swillis5n@euvic.edu	M	France	Marketing	486862
220	Matthew	Ellie	mellett3d@google.com.au	M	France	Product Management	52226
254	Catherine	Kelley	ckelley71@amazonaws.com	F	France	Product Management	317947
299	Wayne	Nichols	wnichols1b@biglobe.ne.jp	M	France	Services	147349
310	Randy	Gordon	rgordon8l@icq.com	M	France	Support	473092

## 2.6 (4 គម្រោន) ផែតិកខ្លួនលើកការទីប៊ូឡាយនិងធានានិង Legal

គុណ

The screenshot shows the MySQL Workbench interface with a query results grid. The query is:

```
select * from customer where gender = 'F' and department = 'legal';
```

The results show 18 rows of customer data where the gender is female and the department is Legal. The columns include id, firstname, lastname, email, gender, country, department, and salary. One row is highlighted.

ID	First Name	Last Name	Email	Gender	Country	Department	Salary
6	Terry	Fox	tfox5@usgs.gov	M	France	Legal	168382.23
8	Robert	Elle	rells7@pmnewswire.com	M	Russia	Legal	27620.55
10	Charles	Parker	csparker1@pmnewswire.com	M	United Kingdom	Legal	185783.43
16	Richard	Martinez	rmartinez1y@specperson-so-orange.fr	M	Poland	Legal	187388.77
35	George	Mendoza	gmendoza1z@openm.edu	M	Czech Republic	Legal	24940.31
83	Alan	Murphy	amurphy2a@stanford.edu	M	China	Legal	484633.31
89	Robert	Webb	rwebb2g@mozilla.com	M	Brazil	Legal	167713.69
97	Anthony	Ruiz	arui2j@univ-eis.com	M	Thailand	Legal	456961.91
108	Anthony	Chavez	achavez2z@reddit.com	M	Russia	Legal	386587.03
164	Ronald	Adams	radams4j@avastar.com	M	Portugal	Legal	499489.91
189	Thomas	Garrett	tgarret150@hg.com	M	Thailand	Legal	211093.58

## 2.7 (4 คะแนน) แสดงลูกค้าที่อยู่ประเทศ China หรือ Peru

ตอบ

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** Contains the SQL query: `select * from customer where country in ('China','Peru');`
- Result Grid:** Displays the results of the query, showing 54 rows of customer data. The columns include id, firstname, lastname, Email, gender, country, department, and Sal.
- Output Tab:** Shows the execution log with 37 entries, detailing each row selected and the duration of the fetch.

id	firstname	lastname	Email	gender	country	department	Sal
1	Marie	Gardner	mgardner0@com.com	F	China	Services	139
3	Bonnie	Palmer	bpalmer2@implimachines.org	F	Peru	Engineering	497
9	Elizabeth	Richards	erichards@bing.com	F	China	Business Development	623
11	Stephanie	Bishop	sbishop0@youtube.com	F	China	Accounting	390
14	Frank	Banks	fbanks@huffingtonpost.com	M	China	Training	296
28	Doris	Hamilton	dhamilton@zimbo.com	F	China	Human Resources	381
34	Anna	Reynolds	areynolds@quantcast.com	F	China	Accounting	124
39	Nicole	Hudson	nhudson12@noaa.gov	F	China	Research and Development	180
44	Anna	Elliott	aelliott17@ustream.tv	F	China	Accounting	474
50	Peter	Oliver	polver16@telegraph.co.uk	M	China	Product Management	292
54	Maria	Nichols	mnichols1h@multiply.com	F	China	Services	487

## 2.8 (4 คะแนน) แสดงลูกค้าที่ email ลงท้ายด้วย .com

ตอบ

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** Contains the SQL query: `select * from customer where email like ('%.com');`
- Result Grid:** Displays the results of the query, showing 17 rows of customer data. The columns include id, firstname, lastname, Email, gender, country, department, and Sal.
- Output Tab:** Shows the execution log with 37 entries, detailing each row selected and the duration of the fetch.

id	firstname	lastname	Email	gender	country	department	Sal
1	Marie	Gardner	mgardner0@com.com	F	China	Services	139
2	Henry	Spencer	hspencer1@dsnews.com	M	Bosnia and Herzegovina	Business Develop.	540
4	Margaret	Gutierrez	mgutierrez3@canablog.com	F	Malaysia	Human Resource	390
5	Russell	Martin	rmarin4@nifty.com	M	Ukraine	Business Develop.	390
7	Sharon	Duncan	sduncan5@barneandnoble.com	F	Philippines	Engineering	390
8	Robert	Ellie	rell@pinterest.com	M	Thailand	Legal	390
9	Elizabeth	Richards	erichards9@bing.com	F	China	Business Develop.	390
11	Stephanie	Bishop	sbishop0@youtube.com	F	China	Accounting	390
13	Charles	Parker	carkers@ed.com	M	Thailand	Legal	390
14	Frank	Banks	fbanks@huffingtonpost.com	M	China	Training	390
17	Nicole	Russell	nrussell2@pinterest.com	F	Indonesia	Engineering	390

## 2.9 (4 គម្រោន) ផលិតតូកគាត់ទាំងអស់ក្នុងការពិនិត្យ last\_name ដើម្បីរាយការជាក់វា er

ព័ត៌មាន

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `customerdb` with tables `customer`, `sakila`, `sys`, and `world`.
- Query Editor:** Contains the SQL query: `select * from customer where lastname like '%er';`
- Result Grid:** Displays the results of the query, showing 90 rows of customer data.
- Output:** Shows the execution history of the query, including timestamp, action, message, and duration.

#	Time	Action	Message	Duration / Fetch
35	14:57:54	select * from customer where country = 'China' or Peru' LIMIT 0, 1000	350 row(s) returned	0.000 sec / 0.000 sec
36	14:58:45	select * from customer where country in ('China','Peru') LIMIT 0, 1000	390 row(s) returned	0.000 sec / 0.000 sec
37	15:01:26	select * from customer where email like ('%.com') LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.016 sec
38	15:02:26	select * from customer where lastname like ('%er') LIMIT 0, 1000	370 row(s) returned	0.015 sec / 0.000 sec
39	15:02:58	select * from customer where lastname like ('%er') LIMIT 0, 1000	370 row(s) returned	0.016 sec / 0.000 sec
40	15:03:08	select * from customer where lastname like ('%er') LIMIT 0, 1000	210 row(s) returned	0.016 sec / 0.000 sec

## 2.10 (3 គម្រោន) ផលិតរាយចំណែកតាមលក្ខណៈទាំងអស់ រួមទាំងបញ្ជីពិនិត្យការពិនិត្យតាមលក្ខណៈទាំងអស់

ព័ត៌មាន

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `customerdb` with tables `customer`, `sakila`, `sys`, and `world`.
- Query Editor:** Contains the SQL query: `select * from customer order by salary desc;`
- Result Grid:** Displays the results of the query, showing 90 rows of customer data.
- Output:** Shows the execution history of the query, including timestamp, action, message, and duration.

#	Time	Action	Message	Duration / Fetch
36	14:58:45	select * from customer where country in ('China','Peru') LIMIT 0, 1000	390 row(s) returned	0.000 sec / 0.000 sec
37	15:01:26	select * from customer where email like ('%.com') LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.016 sec
38	15:02:26	select * from customer where lastname like ('%er') LIMIT 0, 1000	370 row(s) returned	0.015 sec / 0.000 sec
39	15:02:58	select * from customer where lastname like ('%er') LIMIT 0, 1000	370 row(s) returned	0.016 sec / 0.000 sec
40	15:03:08	select * from customer where lastname like ('%er') LIMIT 0, 1000	210 row(s) returned	0.016 sec / 0.000 sec
41	15:07:35	select * from customer order by salary desc LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.000 sec

## 2.11 (2 คะแนน) หาค่าเงินเดือนสูงสุดของลูกค้าทั้งหมด

### ตอบ

The screenshot shows the MySQL Workbench interface with a single query window. The query is:

```
1 select max(salary) from customer;
```

The result grid shows one row with the value 499327.97.

Below the query window, the "Result 19" tab is open, showing the execution history for this query. The log includes:

- # 39 15:02:58 select \* from customer where lastname like "%er%" LIMIT 0, 1000
- # 40 15:03:08 select \* from customer where lastname like "%er%" LIMIT 0, 1000
- # 41 15:07:35 select \* from customer order by salary desc LIMIT 0, 1000
- # 42 15:08:34 select max(salary) from customer LIMIT 0, 1000
- # 43 15:09:06 select \* from customer max(salary)
- # 44 15:09:27 select max(salary) from customer LIMIT 0, 1000

The output pane shows the message "1 row(s) returned" for the final query.

## 2.12 (3 คะแนน) แสดงค่าเฉลี่ยเงินเดือนแยกตามแผนก (department)

### ตอบ

The screenshot shows the MySQL Workbench interface with a single query window. The query is:

```
1 select department , AVG(salary) from customer group by department;
```

The result grid shows the average salary for each department:

department	Avg(salary)
Services	257197.746405
Business Development	239791.328493
Engineering	269238.463780
Human Resources	227358.812335
Legal	253863.871282
Accounting	259233.325114
Training	252874.472 252323.396814
Research and Development	232491.034639
Support	281155.953199
Sales	258555.394802
Marketing	275168.467850
Product Management	223179.769666

Below the query window, the "Result 20" tab is open, showing the execution history for this query. The log includes:

- # 40 15:03:08 select \* from customer where lastname like "%er%" LIMIT 0, 1000
- # 41 15:07:35 select \* from customer order by salary desc LIMIT 0, 1000
- # 42 15:08:34 select max(salary) from customer LIMIT 0, 1000
- # 43 15:09:06 select \* from customer max(salary)
- # 44 15:09:27 select max(salary) from customer LIMIT 0, 1000
- # 45 15:13:14 select department , AVG(salary) from customer group by department LIMIT 0, 1000

The output pane shows the message "13 row(s) returned" for the final query.

## 2.13 (4 คะแนน) แสดงแผนกที่มีค่าเฉลี่ยเงินเดือนมากกว่า 200,000

### ตอบ

```
MySQL Workbench - Local instance MySQL80 - Query 1
```

```
1 select department , AVG(salary) from customer group by department
2 having AVG(salary) >200000;
```

```
Result Grid | Filter Rows: Export: Wrap Cell Content: Read Only Context Help Snippets
```

department	Avg(salary)
Service	257197.746406
Business Development	239791.328493
Engineering	269238.463780
Human Resources	227358.812335
Legal	253867.871282
Accounting	258233.396814
Training	252874.472531
Research and Development	252491.934436
Support	281165.953199
Sales	258555.382602
Marketing	275168.467850
Product Management	223179.769666

```
Output: Action Output # Time Action Message Duration / Fetch
41 15:07:35 select * from customer order by salary desc LIMIT 0, 1000 1000 row(s) returned 0.015 sec / 0.000 sec
42 15:08:34 select max(salary) from customer LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 sec
43 15:09:06 select * from customer max(salary) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.000 sec
44 15:09:27 select max(salary) from customer LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
45 15:13:14 select department , AVG(salary) from customer group by department LIMIT 0, 1000 13 row(s) returned 0.000 sec / 0.000 sec
46 15:14:38 select department , AVG(salary) from customer group by department having AVG(salary) >200000 LIMIT 0, 1000 12 row(s) returned 0.015 sec / 0.000 sec
47 15:16:45 select country , count(*) from customer group by country having count(>) >5 LIMIT 0, 1000 54 row(s) returned 0.016 sec / 0.000 sec
```

## 2.14 (4 คะแนน) แสดงประเทศที่มีจำนวนลูกค้ามากกว่า 5 คน

### ตอบ

```
MySQL Workbench - Local instance MySQL80 - Query 1
```

```
1 select country , count(*) from customer group by country
2 having count(*) >5;
```

```
Result Grid | Filter Rows: Export: Wrap Cell Content: Read Only Context Help Snippets
```

country	count(*)
China	350
Bosnia and Herzegovina	6
Peru	40
Malaysia	8
Ukraine	24
France	54
Philippines	130
Russia	108
Indonesia	190
Pakistan	10
Thailand	27
Poland	62

```
Output: Action Output # Time Action Message Duration / Fetch
41 15:07:35 select * from customer order by salary desc LIMIT 0, 1000 1000 row(s) returned 0.015 sec / 0.000 sec
42 15:08:34 select max(salary) from customer LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 sec
43 15:09:06 select * from customer max(salary) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.000 sec
44 15:09:27 select max(salary) from customer LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
45 15:13:14 select department , AVG(salary) from customer group by department LIMIT 0, 1000 13 row(s) returned 0.000 sec / 0.000 sec
46 15:14:38 select department , AVG(salary) from customer group by department having AVG(salary) >200000 LIMIT 0, 1000 12 row(s) returned 0.015 sec / 0.000 sec
47 15:16:45 select country , count(*) from customer group by country having count(>) >5 LIMIT 0, 1000 54 row(s) returned 0.016 sec / 0.000 sec
```