

# PHP

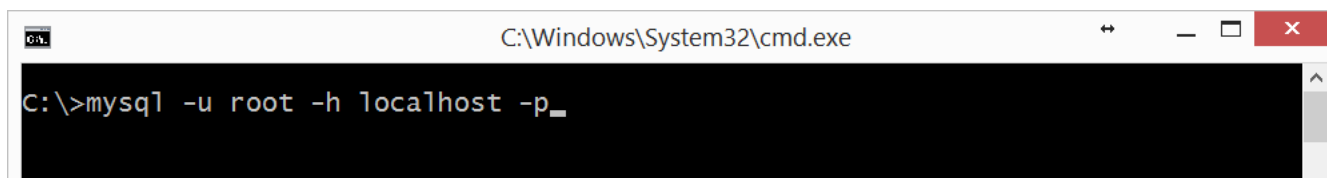
## 4. MySQL

รวบรวมโดย อ. กิตติพิชญ์ คุปตะวาณิช

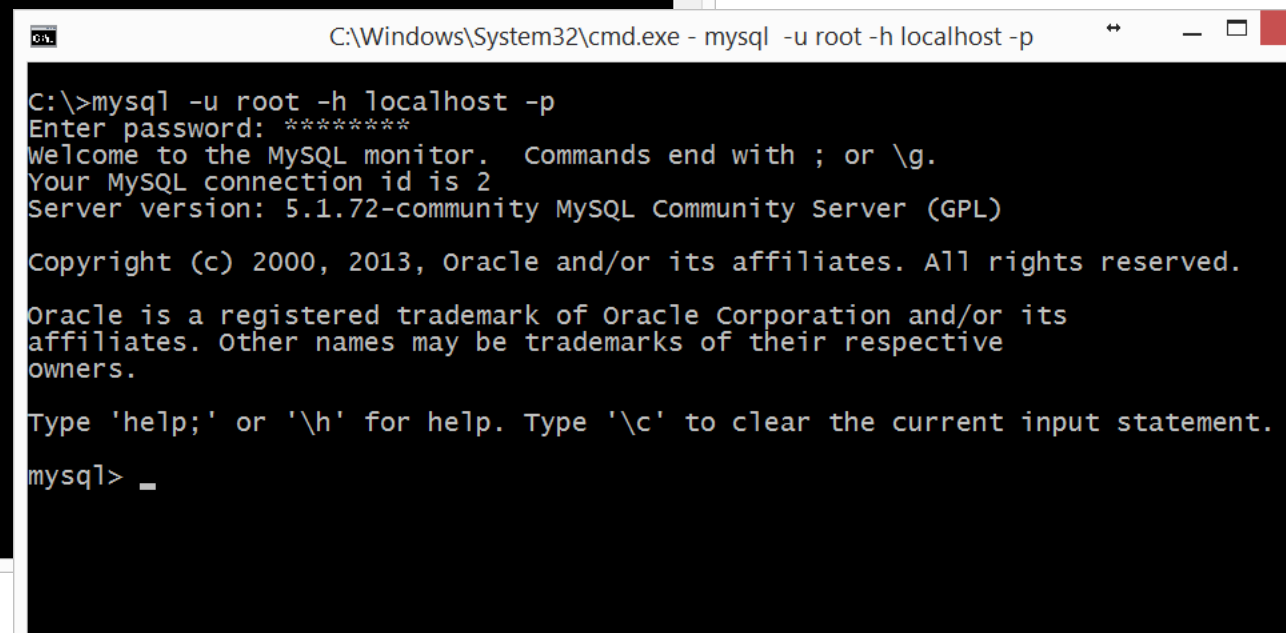
# MySQL Basics: Connection

- เราสามารถใช้งานฐานข้อมูล MySQL ผ่านจากหน้าต่าง Terminal ของ Windows ได้ โดยการต่อเข้าฐานข้อมูลจะใช้คำสั่ง

> `mysql -u USERNAME -pPASSWORD -h SERVER`



```
C:\Windows\System32\cmd.exe
C:\>mysql -u root -h localhost -p_
```



```
C:\Windows\System32\cmd.exe - mysql -u root -h localhost -p
C:\>mysql -u root -h localhost -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.1.72-community MySQL Community Server (GPL)

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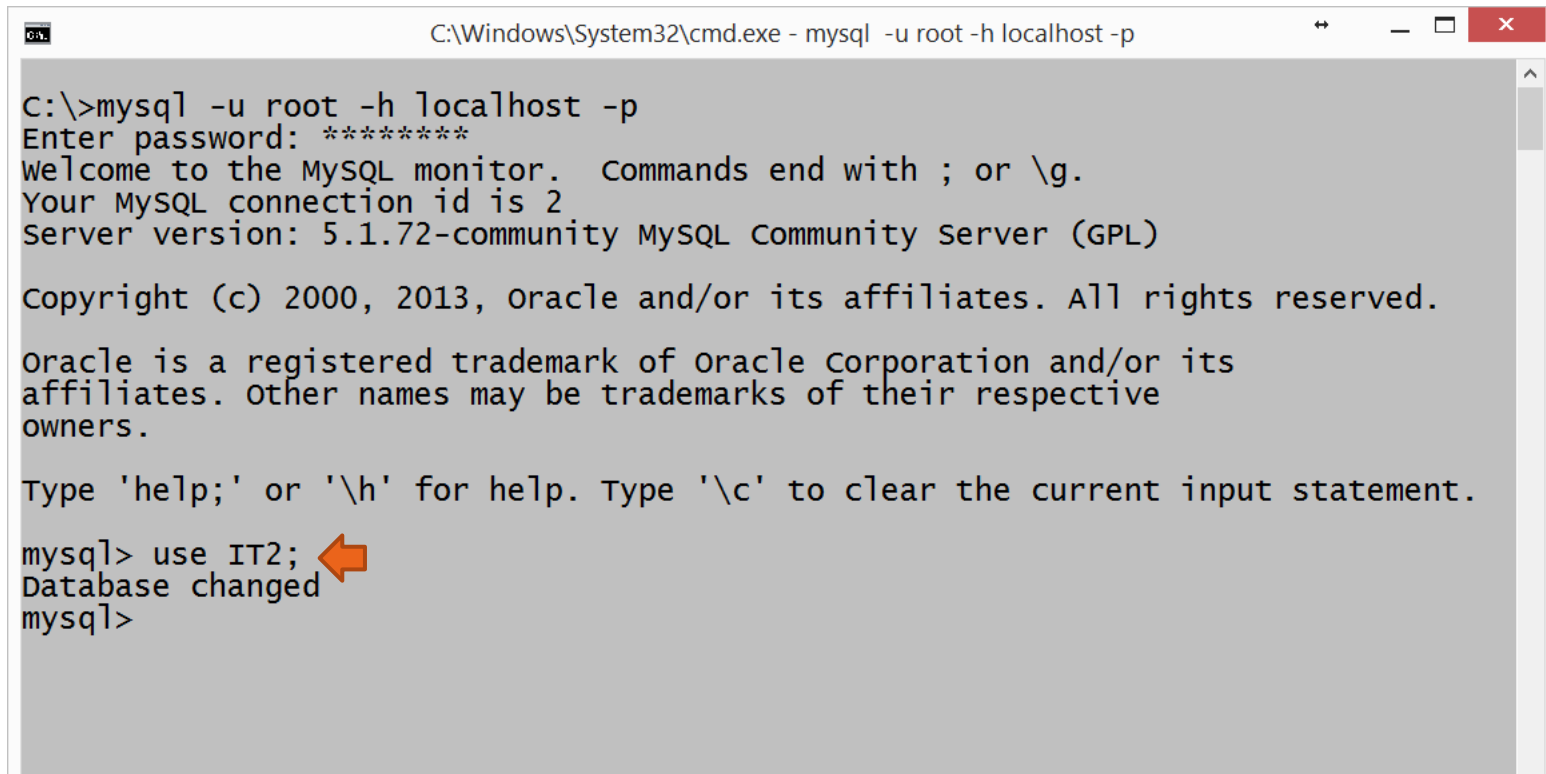
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> _
```

# MySQL Basics: USE

- เมื่อทำการเชื่อมต่อกับ MySQL แล้ว เราจำเป็นต้องระบุฐานข้อมูลที่ใช้ โดยการพิมพ์คำสั่ง

**mysql> USE *database\_name*;**

A screenshot of a Windows command prompt window titled "C:\Windows\System32\cmd.exe - mysql -u root -h localhost -p". The window shows the following text:

```
C:\>mysql -u root -h localhost -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.1.72-community MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use IT2;
Database changed
mysql>
```

An orange arrow points to the "use IT2;" command line.

# MySQL Basics: SELECT

- คำสั่ง **SELECT** ใช้เพื่อแสดงข้อมูลจากฐานข้อมูล

**mysql> SELECT column\_name(s) FROM table\_name;**

```
C:\Windows\System32\cmd.exe - mysql -u root -h localhost -p

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE it2;
Database changed
mysql> SELECT student_id FROM student;
+-----+
| student_id |
+-----+
| 550339765  |
| 550696996  |
| 551400573  |
| 551911648  |
| 560656452  |
| 560669015  |
| 561510177  |
| 561679478  |
+-----+
8 rows in set (0.00 sec)

mysql>
```

# MySQL Basics: **SELECT**

- หากต้องการแสดงผลมากกว่าหนึ่ง **column**

```
mysql> SELECT column_name1, column_name2 FROM table_name;
```

- หากต้องการแสดง ทุก **column** ในตาราง

```
mysql> SELECT * FROM table_name;
```

# MySQL Basics: **SELECT WHERE**

- หากต้องการแสดง record ตามเงื่อนไขที่ระบุ

```
mysql> SELECT column_name(s)
FROM table_name
WHERE conditions;
```

- เช่น

```
mysql> SELECT student_id, gpa
FROM student
WHERE gpa > 2.0 AND gpa < 3.0;
```

- Wildcard

```
mysql> SELECT student_id, gpa
FROM student
WHERE student_id LIKE '__06%';
```

student_id	gpa
550339765	2.20
550696996	2.77
551400573	2.62
551911648	2.88
560656452	2.86

5 rows in set (0.00 sec)

Note: Underscore = 1 character, % = any number of characters<sup>6</sup>

# MySQL Basics: ORDER BY

- หากต้องการแสดง record ตามเงื่อนไขที่ระบุ

```
Mysql> SELECT column_name(s)  
FROM table_name  
ORDER BY column_name(s) ASC|DESC;
```

- เช่น

```
Mysql> SELECT student_id,gpa  
FROM student  
WHERE gpa > 2.0 and gpa < 3.0  
ORDER BY gpa DESC;
```

student_id	gpa
551911648	2.88
560656452	2.86
550696996	2.77
551400573	2.62
550339765	2.20

# PHP - MySQL: Connection

```
// Example Files:  
http://www.cs.science.cmu.ac.th/course/204202/lib/exe/fetch.php?  
media=lab10_data.zip  
//phpMySQL01.php  
// Create Connection  
$con=mysqli_connect("host","username","password","db_name");  
// Check connection  
if (mysqli_connect_errno()) {  
    echo "Failed to connect to MySQL: " . mysqli_connect_error();  
}  
..  
// Close connection  
mysqli_close($con);
```



# PHP - MySQL: SELECT

```
//phpMySQL02.php
// Create Connection
$con=mysqli_connect("host","username","password","db_name");
// Check connection
if (mysqli_connect_errno()) {
    echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
mysqli_set_charset ($con, "utf8");
$result = mysqli_query($con,"SELECT * FROM student");
while ($row = mysqli_fetch_array($result)) {
    echo $row['first_name'] . " " . $row['last_name'];
    echo "<br/>";
}
mysqli_close($con);
```