

PHP

4. MySQL

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MySQL Basics: USE

- เมื่อทำการเชื่อมต่อกับ MySQL แล้ว เราจำเป็นต้องระบุฐานข้อมูลที่ใช้ โดยการพิมพ์คำสั่ง

mysql> USE database_name;

```
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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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>
```

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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mysql> _
```

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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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 characters⁶

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);
```