

ເວບໂປຣແກຣມມິງ 2

(Web Programming 2)

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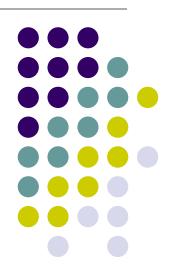
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ບົດທີ6

ການຕິດຕໍ່ຖານຂໍ້ມູນ (Accessing the database)



ເນື້ອໃນໂດຍລວມ

- ແນະນຳເບື້ອງຕົ້ນ
- ການເຊື່ອມຕໍ່ຖານຂໍ້ມູນ
- ຖານຂໍ້ມູນ MySQL
- ทางจัดทางล้์มูน MySQL
- ຖານຂໍ້ມູນ Oracle
- ทางจัดทางล้ำมูน Oracle

ແນະນຳເບື້ອງຕົ້ນ

PHP ສາມາດເຊື່ອມຕໍ່ກັບຖານຂໍ້ມູນ MySQL,
 PostGreSQL, SYBASE, IBM-DB2, Oracle,
 ຖານຂໍ້ມູນ Microsoft Access, ແລະ SQL Server ໄດ້.







ການເຊື່ອມຕໍ່ຖານຂໍ້ມູນ



- PHP ເຊື່ອມຕໍ່ MySQL ຈະໃຊ້ Function ຊື້ mysql_connect(), mysql_pconnect(), mysql_pconnect(), mysqli_connect ຫຼື PDO ກໍ່ໄດ້.
- ສຳລັບຕິດຕໍ່ກັບ Microsoft Access, SQL Server, Oracle ແລະ ອື່ນໆແມ່ນຈະນຳໃຊ້ຊຸດຄຳ ສ້າ PDO.

- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຊູບແບບທີ 1:

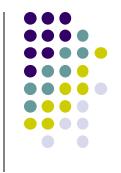
```
$conn = mysql_connect( "hostname", " username ", "password" );
if ( !$conn ) {
   die( "Couldn't connect to MySQL" );
}
mysql_select_db("dbname");
```

- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຊູບແບບທີ 2:

```
$ conn = mysqli_connect( "hostname", " username ",
"password","dbname");
if (mysqli_connect_errno()) {
  echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
```



- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຊູບແບບທີ 3:



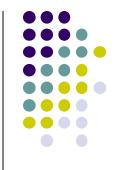
- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຕົວຢ່າງ 1:

```
<?php
$conn = mysql_connect( "localhost", " root ", "rootpassword" );
if ( !$conn) {
    die( "Couldn't connect to MySQL" );
}
mysql_select_db("myweb2");
mysql_query( "SET NAMES utf8", $conn);

mysql_close($conn);
?>
```

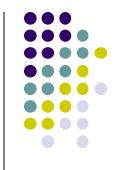
- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຕົວຢ່າງ 2:

```
<?php
   $servername = "localhost";
   $username = "username";
   $password = "password";
   $dbname="dbname";
   $conn = mysqli_connect($servername, $username,
   $password,$dbname);
   if (!$conn) {
      die("Connection failed: " . mysqli_connect_error());
echo "Connected successfu
```



- ການເຊື່ອມຕໍ່ກັບ MySQL
 - ຕົວຢ່າງ 3:

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$conn = new mysqli($servername, $username, $password);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```



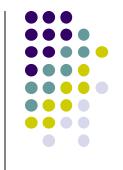
• ການເຊື່ອມຕໍ່ກັບ MySQL

```
ຄົວຢ່າງ 4:
<?php
$servername = "localhost";
$username = "username";
$password = "password";
try {
  $conn = new PDO("mysql:host=$servername;dbname=myDB", $username,
$password);
  $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
  echo "Connected successfully";
catch(PDOException $e)
  echo "Connection failed: " . $e->getMessage();
?>
```



- ການຈັດການກັບຂໍ້ມູນຢູ່ໃນຖານຂໍ້ມູນມີຮູບແບບລຸ່ມນີ້
 \$query=\$QL-statement
 mysql_query(\$query, \$conn)
- ໝາຍເຫດ:

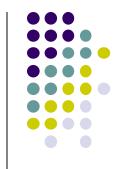
SQL-statement ໝາຍເຖິງຄຳສັ່ງ SQL, \$conn: ຕົວ ປ່ຽນທີ່ເກັບຄ່າການເຊື່ອມຕໍ່ MySQL



- ການສະແດງຂໍ້ມູນໂດຍນຳໃຊ້ ຄຳສັ່ງ
 - mysql_fetch_row(),
 - mysql_fetch_array()
 - ແລະ mysql_fetch_object()
- ໝາຍເຫດ:

ສຳລັບ MySQLi ຈະເພີ່ມ "i" ຕໍ່ຈາກ mysql ເປັນ mysqli



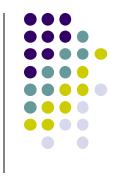


• ຕົວຢ່າງ: ການສະແດງຂໍ້ມູນ, ຖານຂໍ້ມູນຊື່ test ແລະ ຕາຕະລາງຊື່ product

CREATE DATABASE IF NOT EXISTS `test`;

```
CREATE TABLE IF NOT EXISTS `product` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `p_name` varchar(50) NOT NULL,
  `price` double NOT NULL,
  `qty` int(11) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=1;
```

ทางจัดทางล้มูน MySQL



- ຕົວຢ່າງ: ນຳຂໍ້ມູນເຂົ້າ
- -- Dumping data for table 'product'

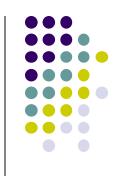
__

INSERT INTO 'product' ('id', 'p_name', 'price', 'qty') VALUES

```
(1, 'pizza', 50000, 2),
```

- (2, 'Milk', 3000, 20),
- (3, 'Candy', 1000, 80),
- (4, 'bakery', 3000, 10);





```
• ຕົວຢ່າງ: ໄຟລ conndb.php ເພື່ອເຊື່ອມຕໍ່
<?php
$conn = mysqli connect( "localhost", " root ",
"password","test");
if (!$conn) {
  die( "Couldn't connect to MySQL" );
mysqli query("SET NAMES utf8", $conn);
```

?>





• ຕົວຢ່າງ: ໄຟລ viewdata.php ເພື່ອສະແດງຂໍ້ມູນ <?php include("conndb.php"); \$result = mysqli query(\$conn,"SELECT * FROM product") or die(mysqli error()); while (\$row = mysqli_fetch_assoc(\$result)) { echo \$row['id']."". \$row['p name']."". \$row['price']."". \$row['qty'] . "
";

ຕົວຢ່າງ: ຖ້າຕ້ອງການສະແດງຂໍ້ມູນ
 ອອກມາຢູ່ໃນຮູບແບບຂອງຕາຕະລາງ
 HTML

```
<?php
include("conndb.php");
$result=mysqli_query($conn,"select
p_name, price, qty from product ");
$i=1;
while($data=mysqli_fetch_row($result)){
?>
```

```
<?php echo $i; ?>
   <?php echo $data[0]; ?>
   <?php echo $data[1]; ?>
   <?php echo $data[2]; ?>
   <a href="del.php?pid=<?php"
echo $data[0];?>">ລຶບ</a>
   <a
href="editform.php?pid=<?php echo
$data[0];?>">ແກ້ໄຂ</a>
  <?php
                   $i++;
```





ຕົວຢ່າງ: ຜົນໄດ້ຮັບ

ລະຫັດ	ຊື້ສິນຄ້າ	ລາຄາ	ຈຳນວນ	ລຶບ	ແກ້ໄຂ
1	แป้บสิ	3000	15	ລຶບ	แท้ไष
2	ນ້ຳດື່ມຫົວເສືອ	3000	10	ລຶບ	แท้ไष
3	pizza	50000	2	ລຶບ	ແກ້ໄຂ
4	bakery	3000	10	ລຶບ	ແກ້ໄຂ

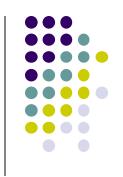
<u>ໝາຍເຫດ:</u> ໃຫ້ນຳໃຊ້ Table ຈາກ Boostrap ເພື່ອການສະແດງຜົນຂໍ້ ມູນໃຫ້ເປັນມາດຕະຖານ



```
    ຕົວຢ່າງ: ການເພີ່ມຂໍ້ມູນ
    ?php
    include("conndb.php");
    $result=mysqli_query($conn,"INSERT INTO product(p_name,price,qty) VALUES('candy','1000','50')") or die(mysql_error());
    }
    ?>
```

```
• ຕົວຢ່າງ: ການເພີ່ມຂໍ້ມູນຜ່ານ Form
<form method="POST" action="add.php">
ProductName
<input type="text" name="txt1">
Price
<input type="text" name="txt2">
Qty
<input type="text" name="txt3">
     <input type="submit" value="ເພີ່ມ">
     <a href="product.php">ภับถิ่ม</a>
</form>
```

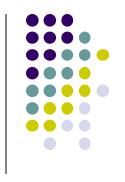




ຕົວຢ່າງ: ຜົນໄດ້ຮັບ

ຟອມປ້ອນຂໍ້ມູນສິນຄ້າ

ProductName					
Price					
Qty					
ធ្យោកា	ກັບຄືນ				



• ຕົວຢ່າງ: ສ້າງໄຟຊື່ add.php ເພື່ອປະມວນຜົນຂໍ້ມູນ

```
<?php
include("conndb.php");
$p_name=$_POST["txt1"];
$price=$_POST["txt2"];
$qty=$_POST["txt3"];
mysqli_query($conn,"INSERT INTO product(p_name,price,qty)
values('$p_name','$price','$qty')");
header("location: viewdata.php");
```



• ຕົວຢ່າງ: ແກ້ໄຂຂໍ້ມູນໃນຕາຕະລາງຊື່ product ຈາກໜ້າສະແດງສິນຄ້າ viewdata.php ໃຫ້ແກ້ໄຂຕາຕະລາງດ້ວຍການເພີ່ມ ຈຸດເຊື່ອມໂຍງ ໄປຫາຝອມແກ້ໄຂຂໍ້ມູນ ລຸ່ມນີ້

<a href="editform.php?pid=<?php echo \$data[0];?>">แก้โล





• ຕົວຢ່າງ: ແກ້ໄຂຂໍ້ມູນໃນຕາຕະລາງຊື່ product

ລະຫັດ	ຊື້ສິນຄ້າ	ລາຄາ	ຈຳນວນ	ປະເພດ	ລຶບ	แก้ไล
1	ແປັບຊີ	3000	15	ເຄື່ອງດື່ມ	ລຶບ /	แก้ไล
2	ນ້ຳດື່ມຫົວເສືອ	3000	10	ເຄື່ອງດື່ມ	ລຶບ	ແກ້ໄຂ
3	pizza	50000	2	ອາຫານ	ລຶບ	ແກ້ໄຂ
4	bakery	3000	10	ອາຫານ	ລຶບ	ແກ້ໄຂ

ໜາຍເຫດ: <a href="editform.php?pid=<?php echo \$data[0];?>">ແກ້ໄຂ ຈະສົງຄ່າ pid ຜ່ານທາງ URL

ทางจัดทางล้มูง MySQL



```
    ຕົວຢ່າງ: ຮັບຂໍ້ມູນມາສະແດງຢູ່ໃນຝອມ

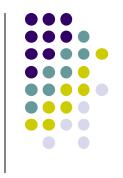
<?php
$pid=$_GET["pid"];
include("conndb.php");
$result=mysqli query($conn,"select * from product where
id='$pid'");
$data=mysqli_fetch_row($result);
?>
```



ຕົວຢ່າງ:

- <form action="edit.php" method="post">
- <label for="ProductName">ProductName/label>
- <input name="txt1" class="form-control" type="text"
- value="<?php echo \$data[1]; ?>" />
- <label for="Price">Price</label>
- <input name="txt2" class="form-control" type="text"</pre>
- value="<?php echo \$data[2]; ?>" />
- <a href="label

ทางจัดทางล้มูง MySQL

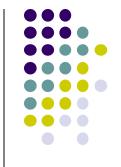


ຕົວຢ່າງ:

<input name="txt3" class="form-control" type="number"
value="<?php echo \$data[3]; ?>" />

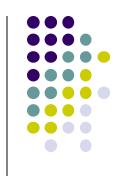
- <button type="submit" class="btn btn-success">แก้โล</button>
- ກັບຄືນ
- <input name="pid" type="hidden" value="<?php echo \$data[0]; ?>" />
- ψuata[0], : > T

</form>



```
• ຕົວຢ່າງ:
<?php
include("conndb.php");
$pid=$ POST["pid"];
$name=$ POST["txt1"];
mysqli query($conn,"UPDATE product
SET p name='$name' where id='$pid'");
header("location: viewdata.php");
```

ทางจัดทางล้มูง MySQL



• ຕົວຢ່າງ: ລຶບຂໍ້ມູນໃນຕາຕະລາງຊື່ product ຈາກໜ້າສະແດງສິນຄ້າ viewdata.php ໃຫ້ແກ້ໄຂຕາຕະລາງດ້ວຍການເພີ່ມ ຈຸດເຊື່ອມໂຍງ ໄປຫາໄຟລລຶບຂໍ້ມູນ ລຸ່ມນີ້

<a href="del.php?pid=<?php echo \$data[0];?>">ລຶບ



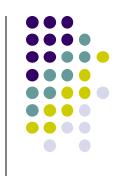


• ຕົວຢ່າງ: ແກ້ໄຂຂໍ້ມູນໃນຕາຕະລາງຊື່ product

ລະຫັດ	ຊື້ສິນຄ້າ	ລາຄາ	ຈຳນວນ	ລິບ	ແກ້ໄຂ
1	ແປັບຊີ	3000	15	వేల	ແກ້ໄຂ
2	ນ້ຳດື່ມຫົວເສືອ	3000	10	ລິບ	ແກ້ໄຂ
3	pizza	50000	2	ລິຍ	ແກ້ໄຂ
4	bakery	3000	10	ລິຍ	ແກ້ໄຂ

ໜາຍເຫດ: <a ḥref="del.php?pid=<?php echo \$data[0];?>"> ລຶບ ຈະສົງຄ່າ pid ຜ່ານທາງ URL

ทางจัดทางล้มูง MySQL



```
ຕົວຢ່າງ: ສ້າງໄຟລ del.php

include("conndb.php");
$pid=$_GET["pid"];
mysqli_query($conn,"delete from product where id='$pid'");
header("location: viewdata.php");
?>
```



- PHP ນຳໃຊ້ຄຳສັ່ງ PDO ແລະ OCI8 ໃນການ ເຊື່ອມຕໍ່Oracle Database 11g
 - OCI8 ຕ້ອງໄດ້ເປີດນຳໃຊ້ OCI8 extension ຢູ່ໃນໄຟລ php.ini ດັ່ງນີ້:

```
;extension=php_oci8.dll
                                  ; Use with Oracle 10gR2 Instant Client
874
875 extension=php_oci8.dll
     ;extension=php_oci8_11g.dll
876
                                  ; Use with Oracle 11gR2 Instant Client
    extension=php_oci8_11g.dll
877
878
879
    ;extension=php openssl.dll
     ;extension=php pdo firebird.dll
880
    extension=php_pdo_mysql.dll
881
    extension=php_pdo_oci.dll
882
```



• ກວດສອບ

<?php
phpinfo();</pre>

?>

oci8

OCI8 Support	enabled
Version	1.4.10
Revision	\$ld: b0984d94e17f7c099470cd0a9404259f2a59da04 \$
Active Persistent Connections	0
Active Connections	0
Oracle Run-time Client Library Version	11.2.0.4.0
Oracle Instant Client Version	10.2
_	

PDO

PDO support	enabled		
PDO drivers	mysql, oci, sqlite		

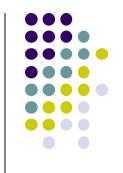
PDO_OCI

PDO Driver for OCI 8 and later	enabled
--------------------------------	---------



ຫລອຢ່າງ 1: ການເຊື່ອມຕໍ່ດ້ວຍ PDO

```
<?php
try {
  $conn = new PDO("oci:dbname=localhost/XE", "system", "qwerty");
  $conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
  echo 'Connected to database';
} catch(PDOException $e) {
  echo 'ERROR: ' . $e->getMessage();
```

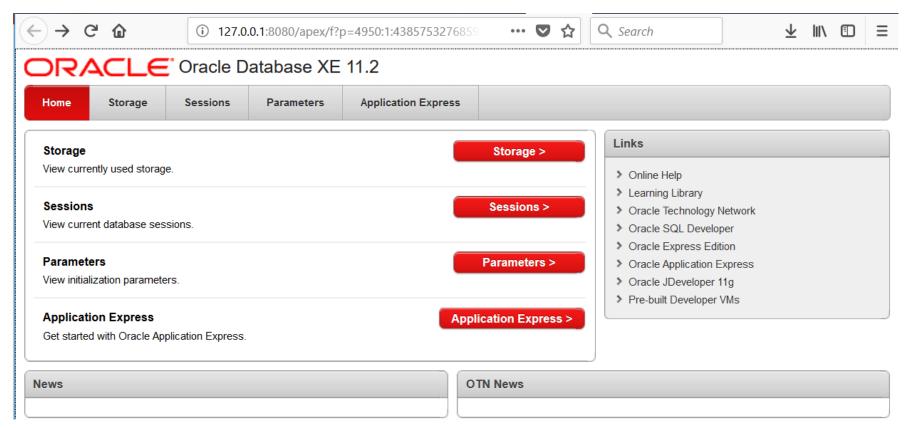


ຕົວຢ່າງ 2: ການເຊື່ອມຕໍ່ດ້ວຍ OCI

```
<?php
$conn = oci_connect("system", "qwerty","localhost/XE");
if (!$conn) {
  $m = oci_error();
  echo $m['message'], "\n";
  exit;
else {
  print "Connected to Oracle!";
oci_close($conn);
?>
```

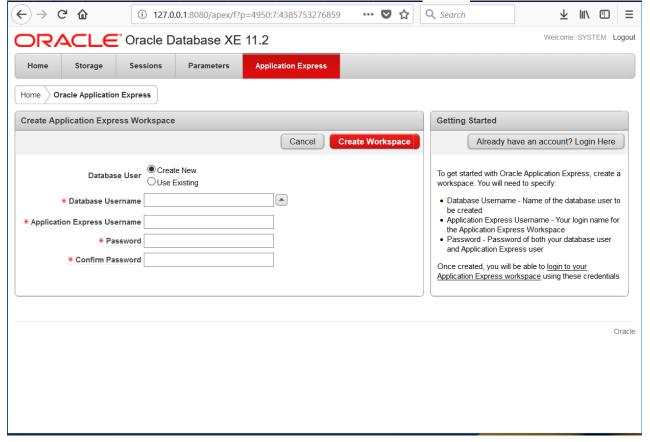
ການຈັດການຂໍ້ມູນ Oracle

• ເຂົ້າສູ່ Oracle ດ້ວຍ Web browser



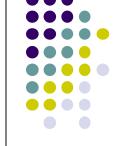
ການຈັດການຂໍ້ມູນ Oracle

• ເຂົ້າສູ່ Oracle ດ້ວຍ Web browser





ການຈັດການຂໍ້ມູນ Oracle • ເຂົ້າສູ່ Oracle ດ້ວຍ sqlplus

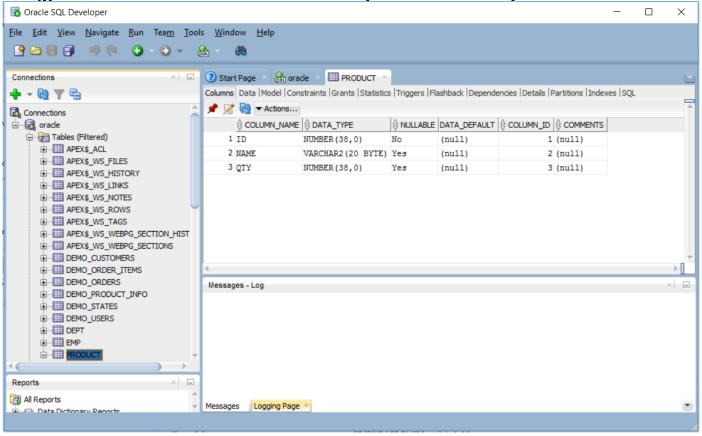


```
sqlplus / as sysdba
Command Prompt - sqlplus test
C:\Users\financial>sqlplus test
SOL*Plus: Release 11.2.0.2.0 Production on Tue Dec 5 09:11:29 2017
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Enter password:
ERROR:
ORA-28002: the password will expire within 7 days
Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production
SQL> select * from product;
        ID NAME
         1 PEPSI
                                        33
         2 MILK
         3 CANDY
                                        10
SQL>
```





• ເຂົ້າສູ່ Oracle ດ້ວຍ sqldeveloper

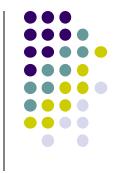


ການຈັດການຂໍ້ມູນ Oracle



 ຕົວຢ່າງ 1: ສະແດງຂໍ້ມູນ ນຳໃຊ້ OCI8 <?php // Create connection to Oracle \$conn = oci_connect("test", "qwerty", "localhost/XE"); \$query = 'select * from product'; \$stid = oci_parse(\$conn, \$query); \$r = oci_execute(\$stid);

ການຈັດການຂໍ້ມູນ Oracle



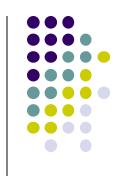
ຕົວຢ່າງ 1: ສະແດງຂໍ້ມູນ ນຳໃຊ້ OCI8
// Fetch each row in an associative array print '';
while (\$row = oci_fetch_array(\$stid, OCI_RETURN_NULLS+OCI_ASSOC)) {
 print '
foreach (\$row as \$item) {
 print ''.(\$item !== null ? htmlentities(\$item, ENT_QUOTES) : ' ').'



print '';

print '';

ຂໍ້ມູນອ້າງອີງ



- [1] http://getbootstrap.com/docs/3.3/getting-started/
- [2]https://www.w3schools.com/bootstrap/bootstrap_get_started.asp
- [3] https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-fixed-layout.php



ປາກ ແອະ ພອກ

ຂອບໃຈ