

http://rapidpurple.com/purpleblog/wp-content/uploads/2011/11/php_mysql_logo.png

Lesson 3: Server-Side Programming

- PHP is a server-side scripting language designed for web development
- Ex: hello.php

```
<?php
  echo "Hello World!";
?>
```



<?php

?>

這是註解

/*這還是註解*/

- Three type comments
 - # - // - /*...*/
- Variable
 - Just use it (\$variable_name) without declaration
 - Also, we don't need to set the data type

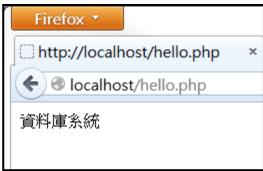
```
<?php
$db = "資料庫";
$db = "資料庫系統";
echo $db;
?>
```



echo "Hello World!"; //這也是註解

Use . to connect string

```
<?php
$a = "資料庫";
$b = "系統";
echo $a.$b;
?>
```



Use these operators for numeric variables: + - * / %

```
<?php
    $a = 10;
    echo "a+1 = ".($a+1)."<BR>";
    echo "a-1 = ".($a-1)."<BR>";
    echo "a*2 = ".($a*2)."<BR>";
    echo "a/2 = ".($a/2)."<BR>";
    echo "a%3 = ".($a%3)."<BR>";
}
```



- Loop
 - for, while, do...while
 - Similar with C/C++ language
- Array

```
<?php
$arr[1]="資料庫";
$arr[2]="系統";
?>
```

```
<?php
$arr=array("資料庫","系統");
?>
```

```
<?php
$arr=array(1=>"資料庫", 2=>"系統
");
?>
```

```
<?php
$arr=array("database"=>"資料庫",
"system"=>"系統");
?>
```

Foreach

```
<?php
    $arr=array("one", "two", "three");

foreach ($arr as $value)
    echo "Value: ".$value."<br>";
?>
```

```
Firefox Thttp://localhost/hello.php ×

http://localhost/hello.php

Value: one
Value: two
Value: three
```

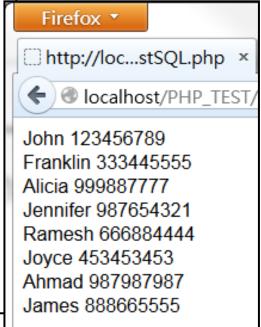
```
<?php
    $arr=array("one", "two", "three");

foreach ($arr as $key=>$value){
    echo "Key: ".$key.","."Value:
".$value;
    echo "<br>;
}
```



SELECT * FROM employee

```
<?php
  $con = mysql_connect("localhost","root","kdd");
  if (!$con)
    die('Could not connect: ' . mysql_error());
  mysql_select_db("company", $con);
  $result = mysql_query("SELECT * FROM employee");
  while($row = mysql_fetch_array($result))
    echo $row['Fname'] . " " . $row['Ssn'];
    echo "<br />";
  mysql_close($con);
?>
```



SELECT count(*) as total FROM employee

```
<?php
  $con = mysql_connect("localhost","root","kdd");
  if (!$con)
     die('Could not connect: ' . mysql_error());
  mysql_select_db("company", $con);
  $result = mysql_query("SELECT count(*) as total FROM employee");
  while($row = mysql_fetch_array($result))
     echo "Total count of employee: ".$row['total']."<br>";
  mysql_close($con);
                                                            Firefox ▼
?>
                                                           http://localh...T/testSQL.php ×
                                                             localhost/PHP TEST/testSO
                                                           Total count of employee: 8
```

INSERT INTO employee
 VALUES('Richard','K','Marini',653298653,'1962-12-30','98 Oak
 Forest, Katy, TX','M',37000,987654321,4)

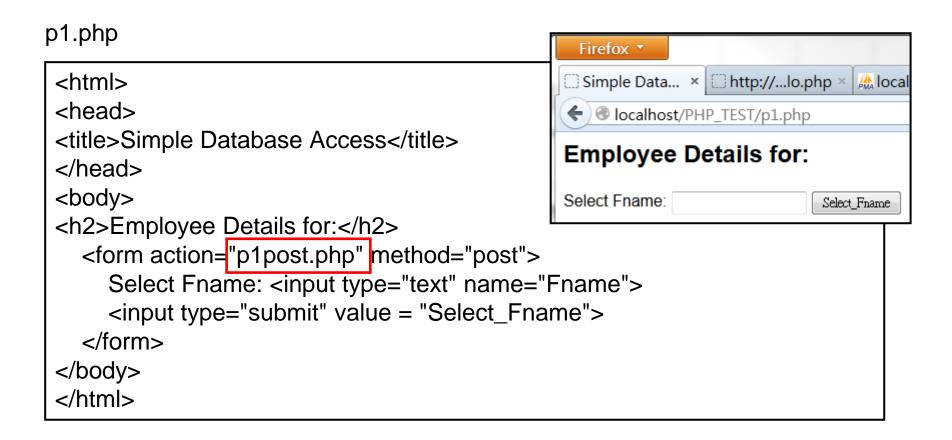
```
<?php
$con = mysql_connect("localhost","root","kdd");
if (!$con)
    die('Could not connect: ' . mysql_error());
mysql_select_db("company", $con);

mysql_query("INSERT INTO employee
    VALUES('Richard','K','Marini',653298653,'1962-12-30','98 Oak Forest,
    Katy,TX','M',37000,987654321,4)");
mysql_close($con);
?>
```

DELETE FROM employee WHERE Fname = 'Richard'

```
<?php
  $con = mysql_connect("localhost","root","kdd");
  if (!$con)
     die('Could not connect: ' . mysql_error());
  mysql_select_db("company", $con);

mysql_query("DELETE FROM employee WHERE Fname = 'Richard'");
  mysql_close($con);
?>
```



```
p1post.php
                                                   Firefox ▼
 <html>
                                                  Simple Database Access
                                                                           http://loca
 <head>
                                                       localhost/PHP_TEST/p1.php
 <title>Simple Database Access</title>
 </head>
                                                  Employee Details for:
 <body>
                                                  Select Fname: John
                                                                            Select Fname
 <h4>Employee Details for:</h4>
<?php
   $con = mysql_connect("localhost","root","kdd");
   if (!$con)
     die('Could not connect: ' . mysql_error());
   mysql_select_db("company", $con);
   $query="SELECT * FROM employee WHERE Fname = " $_POST["Fname"]
   $result = mysql_query($query);
   $num=mysql_num_rows($result);
```

p1post.php

```
if(\text{num} != 0)
      while($row = mysql_fetch_array($result)){
         echo $row['Fname']." ".$row['Lname']." ".$row['Ssn']." ".$row['Bdate']
         ." ".$row['Address']." ".$row['Sex']." ".$row['Salary']."
".$row['Super_ssn']
         ." ".$row['Dno']."<br>":
                                                                         × http://localhost/hello.php
                                                        Simple Database Access
                                                                                               A localhost / lo
                                                         localhost/PHP_TEST/p1post.php
                                                       Employee Details for:
                                                       John Smith 123456789 1965-01-09 731 Fondren, Houston, TX M 30000 333445555 5
   else{
      echo $_POST["Fname"] . "
                                         not Found!!!"."<br>";
                                                        Simple Database Access
                                                                              http://localhost/hello.php
   mysql_close($con);
                                                         ?>
                                                      Employee Details for:
</form></body></html>
                                                       Mary not Found!!!
```

p2.php Firefox ▼ <html> Simple Database Access <head> localhost/PHP_TEST/p2.php <title>Simple Database Access</title> </head> Employee Details for: <body> <?php 123456789 Select Ssn \$con = mysql_connect("localhost","root","kdd"); 123456789 333445555 if(!\$con) 453453453 die('Could not connect: ' . mysql_error()); 666884444 888665555 987654321 mysql_select_db("company", \$con); 987987987 \$query="SELECT Ssn FROM employee"; 999887777 \$result=mysql_query(\$query); \$num=mysql_numrows(\$result); mysql_close(\$con);

```
p2.php
                                                           Firefox ▼
                                                         Simple Database Access
 <h4>Employee Details for:</h4>
                                                                localhost/PHP_TEST/p2.php
 <form method="post" action="p2post.php">
   <select name="ssn">
                                                         Employee Details for:
      <?php
         i=0;
                                                         123456789
                                                                     Select Ssn
         while ($i < $num) {
                                                         123456789
                                                         333445555
           $ssn=mysql_result($result,$i,"Ssn");
                                                         453453453
           echo "<option>",$ssn,"</option>";
                                                         666884444
                                                         888665555
           $i++;
                                                         987654321
                                                         987987987
                                                         999887777
   </select>
   <input type="submit" value="Select_Ssn">
 </form>
 </body>
 </html>
```

p2post.php

```
<html>
<head>
<title>Simple Database Access</title>
</head>
<body>
<h4>Employee Information</h4>
<?php
  $con = mysql_connect("localhost","root","kdd");
  if (!$con)
    die('Could not connect: ' . mysql_error());
  mysql_select_db("company", $con);
```

p2post.php

```
$query="SELECT * FROM employee WHERE Ssn=".$_POST['ssn'];
  $result=mysql_query($query);
  while($row = mysql_fetch_array($result))
     echo $row['Fname']." ".$row['Lname']." ".$row['Ssn']." ".$row['Bdate']
     ." ".$row['Address']." ".$row['Sex']." ".$row['Salary']." ".$row['Super_ssn']
     ." ".$row['Dno']."<br>";
                              Firefox ▼
  mysql_close($con);
                             Simple Database Access
                                                    × http://localhost/hello.php
                                                                               A localhost / local
                             localhost/PHP_TEST/p2post.php
</body>
                             Employee Information
</html>
                             John Smith 123456789 1965-01-09 731 Fondren, Houston, TX M 30000 333445555 5
```

