



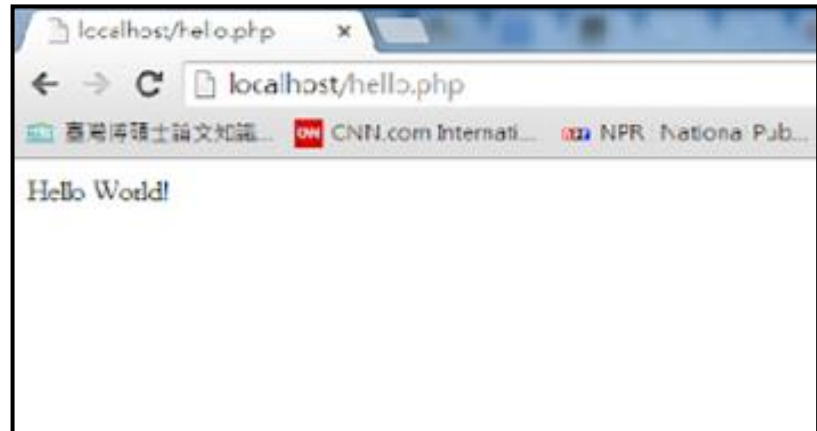
http://rapidpurple.com/purpleblog/wp-content/uploads/2011/11/php_mysql_logo.png

Lesson 3: Server-Side Programming

PHP

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

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



PHP

- Three type comments

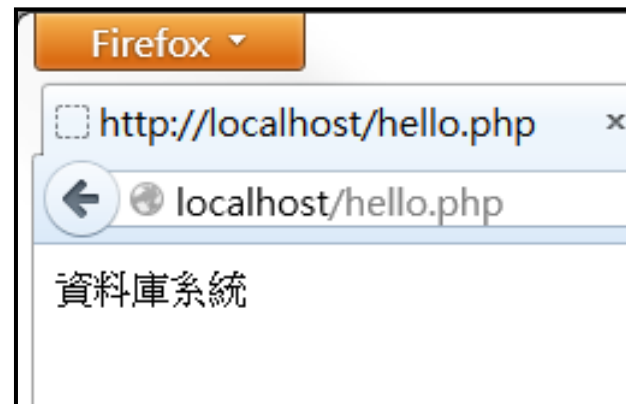
- #
- //
- /*...*/

- Variable

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

```
<?php
# 這是註解
echo "Hello World!" ; //這也是註解
/*這還是註解*/
?>
```

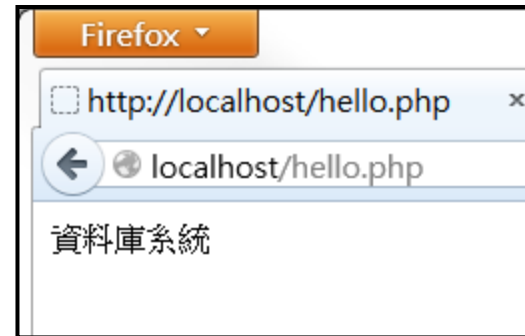
```
<?php
$db = "資料庫";
$db = "資料庫系統";
echo $db;
?>
```



PHP

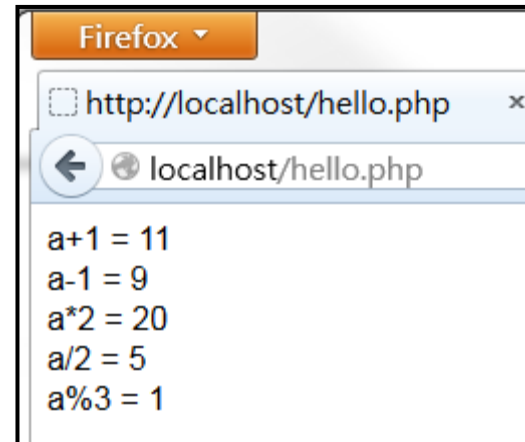
- Use . to connect string

```
<?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>";
?>
```



PHP

- 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");
?>
```

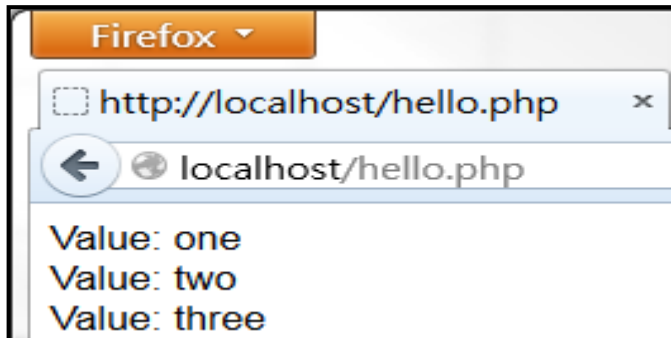
```
<?php
    $arr=array("database"=>"資料庫",
    "system"=>"系統");
?>
```

PHP

- Foreach

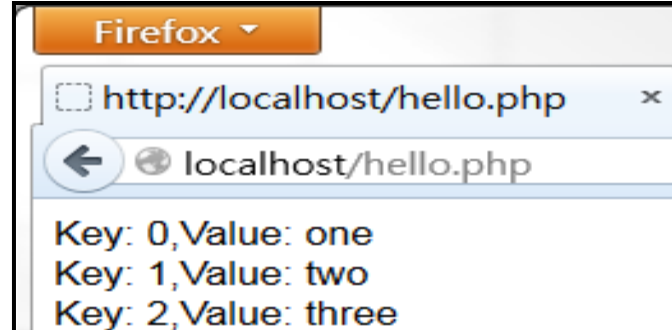
```
<?php
    $arr=array("one", "two", "three");

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



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

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

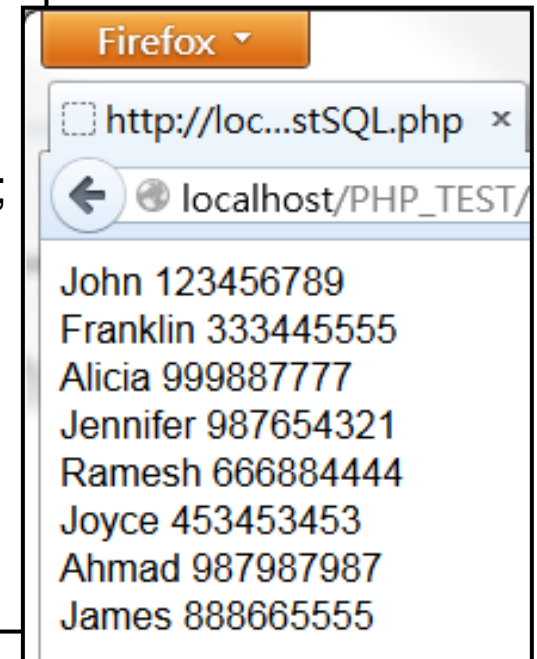


PHP+MySQL

- 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);
?>
```

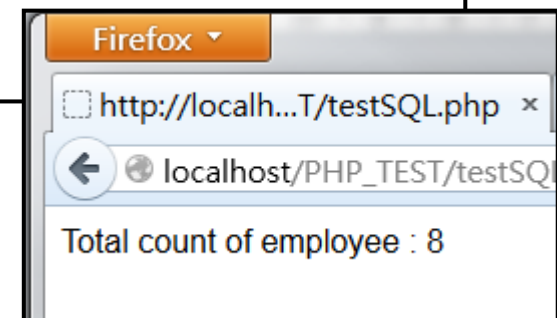


PHP+MySQL

- 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);
?>
```



PHP+MySQL

- 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);
?>
```

PHP+MySQL

- DELETE FROM employee WHERE Fname = 'Richard'

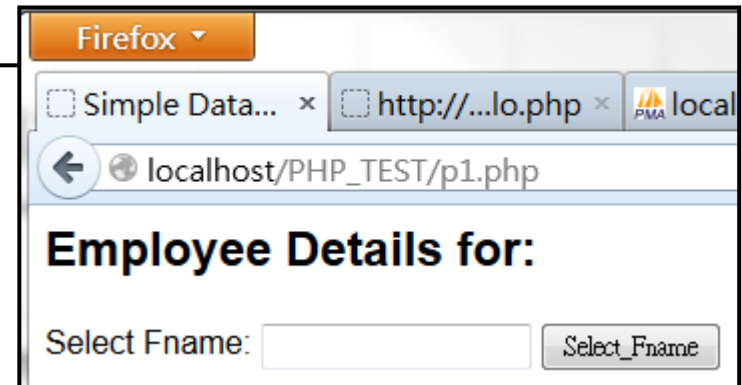
```
<?php
$con = mysql_connect("localhost","root","kdd");
if (!$con)
    die('Could not connect: ' . mysql_error());
mysql_select_db("company", $con);

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

Form Processing: Example #1

p1.php

```
<html>
<head>
<title>Simple Database Access</title>
</head>
<body>
<h2>Employee Details for:</h2>
  <form action="p1post.php" method="post">
    Select Fname: <input type="text" name="Fname">
    <input type="submit" value = "Select_Fname">
  </form>
</body>
</html>
```

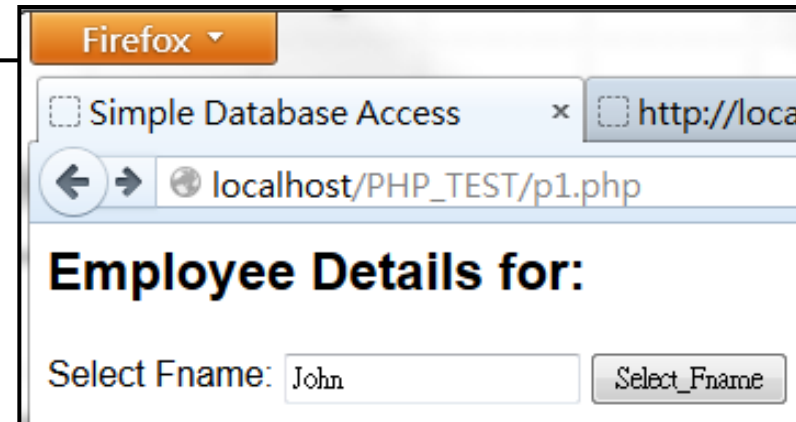


Form Processing: Example #1

p1post.php

```
<html>
<head>
<title>Simple Database Access</title>
</head>
<body>
<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);
    ...
```

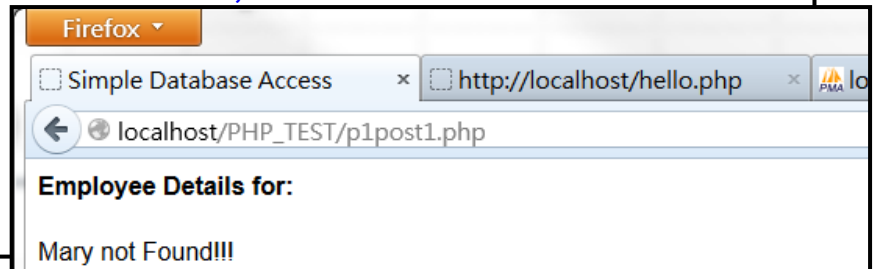
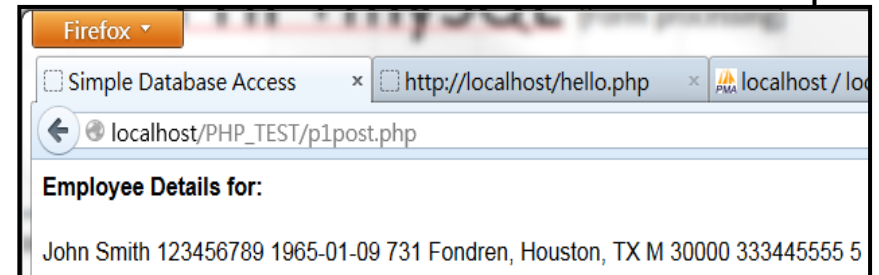


Form Processing: Example #1

p1post.php

```
...
if($num != 0){
    while($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>";
    }
}

else{
    echo $_POST["Fname"]. " not Found!!!". "<br>";
}
mysql_close($con);
?>
</form></body></html>
```

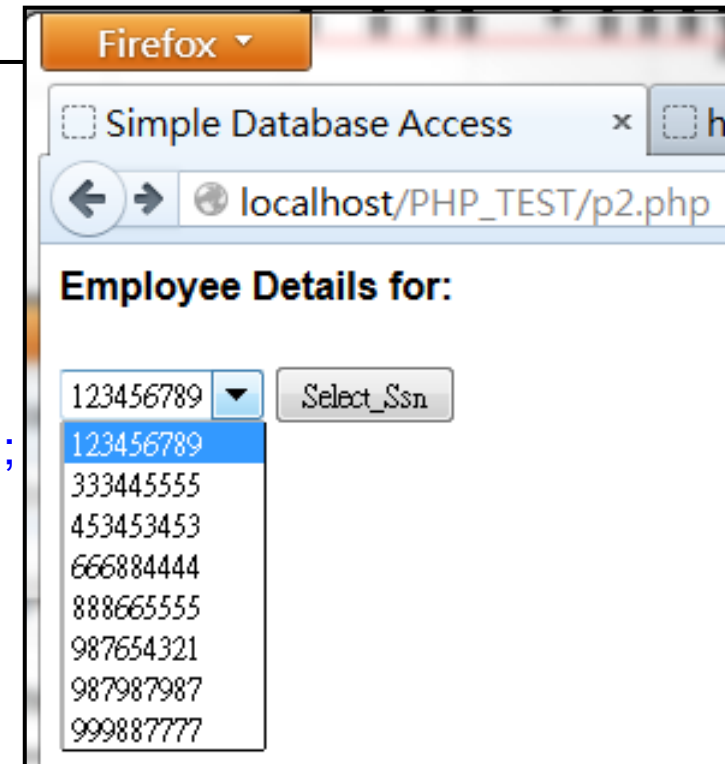


Form Processing: Example #2

p2.php

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

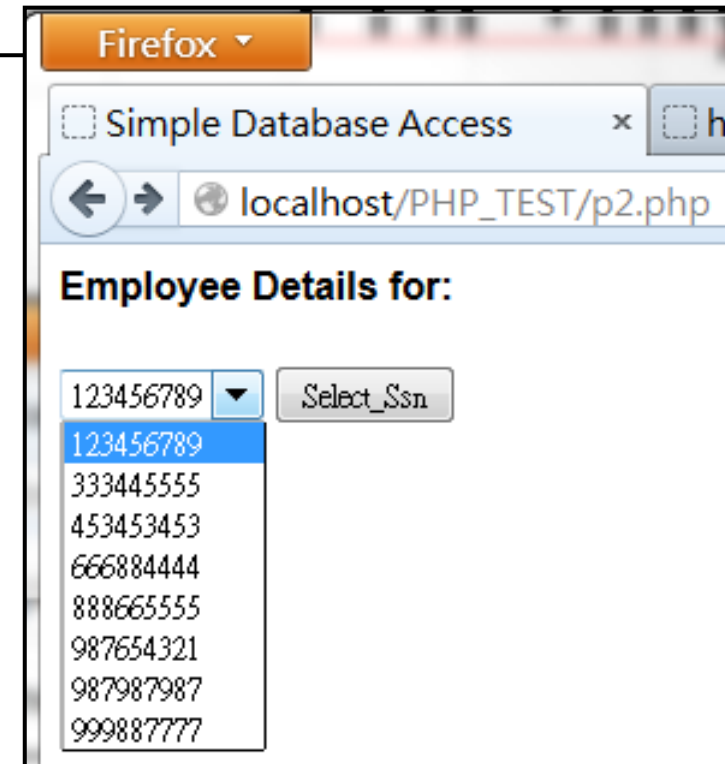
    mysql_select_db("company", $con);
    $query="SELECT Ssn FROM employee";
    $result=mysql_query($query);
    $num=mysql_numrows($result);
    mysql_close($con);
?>
...
```



Form Processing: Example #2

p2.php

```
...
<h4>Employee Details for:</h4>
<form method="post" action="p2post.php">
  <select name="ssn">
    <?php
      $i=0;
      while ($i < $num) {
        $ssn=mysql_result($result,$i,"Ssn");
        echo "<option>",$ssn,"</option>";
        $i++;
      }
    ?>
  </select>
  <input type="submit" value="Select_Ssn">
</form>
</body>
</html>
```



Form Processing: Example #2

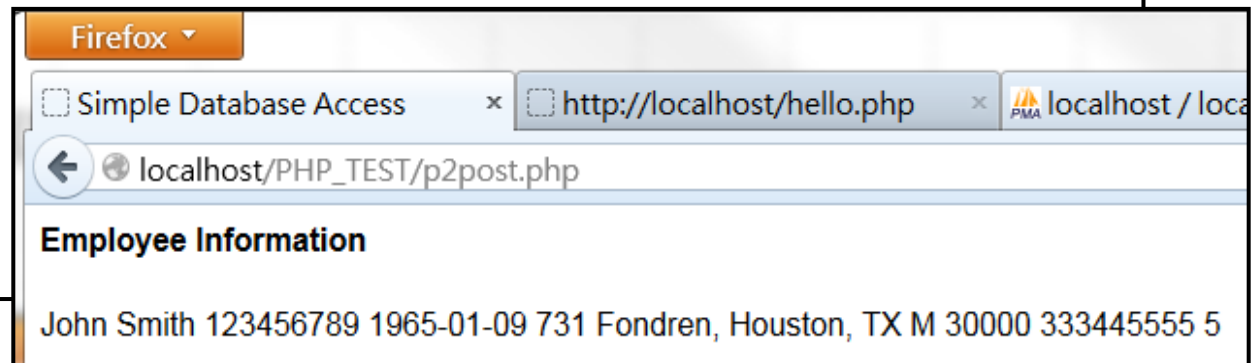
p2post.php

```
<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);
    ...
```


Form Processing: Example #2

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']  
        ." ".$row['Dno']."<br>";  
}  
mysql_close($con);  
?>  
</body>  
</html>
```



Q&A