補充課程

2020.04.03

LOOPS

PHP Loops

- Often when you write code, you want the same block of code to run over and over again a certain number of times.
 So, instead of adding several almost equal code-lines in a script, we can use loops.
- In PHP, we have the following loop types:
 - while loops through a block of code as long as the specified condition is true
 - do...while loops through a block of code once, and then repeats the loop as long as the specified condition is true
 - for loops through a block of code a specified number of times
 - foreach loops through a block of code for each element in an array

The PHP while Loop

The PHP while Loop

The while loop executes a block of code as long as the specified condition is true.

Syntax

```
while (condition is true) {
    code to be executed;
}
```

The number is: 1 The number is: 2 The number is: 3 The number is: 4 The number is: 5

The PHP do...while Loop

 The do...while loop will always execute the block of code once, it will then check the condition, and repeat the loop while the specified condition is true.

Syntax

```
do {
    code to be executed;
} while (condition is true);
```

The number is: 1
The number is: 2
The number is: 3
The number is: 4
The number is: 5

The PHP for Loop

Syntax

```
for (init counter; test counter; increment counter) {
   code to be executed for each iteration;
}
```

```
<!DOCTYPE html>
<html>
<body>

<!php
for ($x = 0; $x <= 10; $x++) {
    echo "The number is: $x <br>";
}
?>

</body>
</html>
```

The number is: 0
The number is: 1
The number is: 2
The number is: 3
The number is: 4
The number is: 5
The number is: 6
The number is: 7
The number is: 8
The number is: 9
The number is: 9

PHP foreach Loop

- The foreach loop works only on arrays, and is used to loop through each key/value pair in an array.
- The following example will output the values of the given Syntax

```
foreach ($array as $value) {
  code to be executed;
}
```

red green blue yellow The following example will output both the keys and the values of the given array (\$age):

```
<!DOCTYPE html>
<html>
<body>
<!php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");

foreach($age as $x => $val) {
   echo "$x = $val<br>";
}
?>
</body>
</html>
```

```
Peter = 35
Ben = 37
Joe = 43
```

Exercise 1

Select statement with count()



ksu_select4.html +ksu_select4.php

ksu_select4.html

```
<!doctype html>
□<html lang="zh tw">
d<head>
  <meta charset="utf-8">
  <title>Hello</title>
</head>
¤<body>
  <h3> ksu select operation </h3>
  <!--不對字符編碼 -->
  <form enctype="multipart/form-data" method="post"</pre>
        action="ksu select4.php">
    按查詢鍵, 查詢 ksu std table 中, 各系的學生人數. <br/>
    <br/>>
    <input type="submit" name="sub" value="查詢"/>
  </form>
-</body>
L</html>
```

ksu_select4.php

```
¤<?php
  $db host = "localhost";
  $db name = "ksu database";
  $db_table = "ksu_cstd table";
  $db user = "root";
 $db password = "";
  // 連結檢測[
  $conn = mysqli connect($db host, $db user, $db password);
  if (empty ($conn)) {
    print mysqli error ($conn);
    die ("無法對資料庫連線!");
    exit;
  if(!mysqli select db( $conn, $db name)){
    die("資料庫不存在!");
    exit;
  //自型設定
 mysqli set charset($conn,'utf8');
```

```
echo "ksu std table 學生於各系人數顯示如下:". "<br/><br/>>";
 $result = mysqli query
         ($conn,
         "SELECT ksu std department, count(1)
          FROM ksu std table group by ksu std department");
 echo "
  系別  學生人數 
 ";
 //使用 mysqli fetch array() 取回資料庫資料
 $row num=0;
 while($row = mysqli fetch array($result))
  echo "";
  echo "" . $row['ksu std department'] . "";
  echo "";
  row num = row num+1;
 echo "";
 echo $row num . " records found!"." <br/> <br/> ";
|<input type="submit" name="sub" value="扳回"/>
L</form>
```

Exercise 2

More columns in an Select statement

ksu select operation

按查詢鍵, 進階查詢 ksu_std_table

查詢

ksu_std_table 學生於各系人數顯示如下:

系別	學生姓名	學生成績	備註
CS	John Sieg	55	Failed
CS	John1	100	
CS	John Sieg	100	
CS	Foot Penny	44	Failed
IE	John Sieg	99	
IE	John Sieg	100	
IE	Mike Fire	77	
IM	WuBer Eat	33	Failed
IM	Mary Wee	80	
QQ	John1	100	

10 records found!

返回

ksu_select5.html

```
<!doctype html>
□<head>
  <meta charset="utf-8">
  <title>Hello</title>
-</head>
≐<bodv>
  <h3> ksu select operation </h3>
  <!--不對字符編碼 -->
  <form enctype="multipart/form-data" method="post"</pre>
        action="ksu select5.php">
    按查詢鍵,進階查詢 ksu std table <br/>
    <br/>>
    <input type="submit" name="sub" value="杳詢"/>
  </form>
 </body>
 </html>
```

ksu_select5.php

```
echo "ksu std table 學生於各系人數顯示如下:". "<br/>>";
$result = mysqli query
        ($conn,
        "SELECT ksu std department, ksu std name,
         ksu std grade
         FROM ksu std table order by ksu std department");
echo "
 系別  學生姓名  學生成績   借註 
";
//使用 mysqli fetch array() 取回資料庫資料
$row num=0;
while($row = mysqli fetch array($result))
 echo "";
 echo "" . $row['ksu std department'] . "";
 echo "" . $row['ksu std name'] . "";
 echo "" . $row['ksu std grade'] . "";
 if( $row['ksu std grade'] < 60 )</pre>
     echo " " . "Failed" . "";
 else
     echo "" . "" . "";
 echo "";
 row num = row num+1;
echo "";
echo $row num . " records found!"." <br/> <br/> ";
```

Exercise 3

Input values passed from html



ksu std table 學生於各系人數顯示如下:

ksu select operation



按查詢鍵,進階查詢 ksu_std_table

學生系別:cs

查詢

學生姓名	學生成績	備註
Foot Penny	44	補考
John Sieg	55	補考
John Sieg	100	
John1	100	

4 records found!

返回

ksu_select6.html

```
<!doctype html>
≐<head>
  <meta charset="utf-8">
  <title>Hello</title>
</head>
<h3> ksu select operation </h3>
  <!--不對字符編碼 -->
  <form enctype="multipart/form-data" method="post"</pre>
        action="ksu select6.php">
    按查詢鍵, 進階查詢 ksu std table <br/> <br/> <br/>
    學生系別:<input type="text" value="CS" name="dept" size="2"/><br/><br/>
    <input type="submit" name="sub" value="查詢"/>
  </form>
 </bodv>
 </html>
```

ksu_select6.php

```
∍<?php
 $dept=str_replace("'","''",$_REQUEST['dept']);
 $db host = "localhost";
 $db name = "ksu database";
 $db table = "ksu cstd table";
 $db user = "root";
 $db password = "";
 // 連結檢測
 $conn = mysqli connect($db host, $db user, $db password);
 if (empty ($conn)) {
    print mysqli error ($conn);
    die ("無法對資料庫連線!");
    exit:
 if(!mysqli select db( $conn, $db name)){
    die("資料庫不存在!");
    exit;
 //自型設定
 mysqli set charset($conn, 'utf8');
```

```
echo "ksu std table 學生於各系人數顯示如下:". "<br/>><br/>";
 $result = mysqli query
         ($conn,
          "SELECT ksu std name, ksu std grade
          FROM ksu std table
          where ksu std department = '$dept'
          order by ksu std grade");
 echo "
 學生姓名  學生成績   備註 
 ";
 //使用 mysqli fetch array() 取回資料庫資料
 $row num=0;
 while($row = mysqli_fetch_array($result))
  echo "";
  echo "" . $row['ksu std grade'] . "";
   if( $row['ksu std grade'] < 60 )</pre>
      echo " " . "補考" . "";
   else
      echo "" . "" . "";
  echo "";
   prow num = prow num+1;
 echo "";
 echo $row num . " records found!"."<br/>>";
2>

=<form enctype="multipart/form-data" method="post" action="ksu select6.html">
<input type="submit" name="sub" value="荻口"/>
L</form>
```

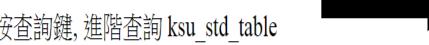
Exercise 4

php built-in 函數strlen()



ksu select operation

按查詢鍵, 進階查詢 ksu std table



學生系別:cs

查詢

ksu std table 學生於各系人數顯示如下:

學生姓名	姓名長度	學生成績	備註
Foot Penny	10	44	補考
John Sieg	9	55	補考
John Sieg	9	100	
John1	5	100	

4 records found!



ksu_select7.html +ksu_select7.php

ksu_select7.php

```
";
//使用 mysqli fetch array() 取回資料庫資料
$row num=0;
while($row = mysqli fetch array($result))
 echo "";
 echo "" . $row['ksu std name'] . "";
 echo "" . strlen($row['ksu std name']) . "";
 echo "" . $row['ksu std grade'] . "";
 if( $row['ksu std grade'] < 60 )</pre>
    echo " " . "補考" . "";
 else
    echo "" . "" . "";
 echo "";
 row num = row num+1;
echo "";
echo $row num . " records found!"." <br/> <br/> ";
```

Exercise 1~4

Deadline: 2020.04.25 23:59 繳交: 學習歷程:資源中心區

p.s.每一個Exercise將對應的 .html與.php程式碼 Copy到word, 並轉成對應的程式碼. 所以4個exercises,你需繳交 4個對應的 .pdf檔. 命名方式為: Ex1.pdf 、 Ex2.pdf 、 Ex3.pdf 、 Ex4.pdf

Homework 1

Deadline: 2020.04.25 23:59

繳交:網大作業區: Homework 1

p.s.請繳交 .zip 檔 (含4支程式)

1. Field validation (欄位檢測)

- Sample 3中的 ksu_select6.html 若系別為空白,程式中運作是傳到資料庫中,找不到資料,才顯示0筆資料. 這於效能是來說是錯誤的作法. 請修改 ksu_select6.html,並於此html中加入JavaScript程式碼,判別空白欄位.
- 繳交 html+JavaScript+php. 程式可合併

ksu select operation

ksu_std_table 學生於各系人數顯示如下:

按查詢鍵,進階查詢 ksu_std_table

學生姓名 學生成績 備註

學生系別:

0 records found!



返回

查詢

2. JOIN (連接兩表格)

- Sample 2查詢資料庫後的第一個欄位,為系別代號. 請以 dept_detail表格的 dept_name來取代.請使用兩表格連結 Join來運行.若於dept_name中找不到對應的表格, 該欄位呈 現空白且藍色.
- 繳交 html+JavaScript+php. 程式可合併

ksu_std_table 學生於各系人數顯示如下:

[系別]	學生姓名	學生成績	[備註]
CS	John Sieg	55	Failed
CS	John1	100	
CS	John Sieg	100	
CS	Foot Penny	44	Failed
IE	John Sieg	99	
IE	John Sieg	100	
IE	Mike Fire	77	
IM	WuBer Eat	33	Failed
IM	Mary Wee	80	
QQ	John1	100	

10 records found!

The End