

# 伺服網頁小考重點

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2020.04.13考

# 大綱

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7. 資料庫應用(ex01-ex04、hw2)

# 1.變數

```
<?php  
$txt = "W3Schools.com";  
echo "I love $txt";  
echo "<br>";  
echo "I love " . $txt . "!";  
?>
```

I love W3Schools.com

I love W3Schools.com!

## 2.全域變數與區域變數-宣告(1/3)

```
<!DOCTYPE html>
```

```
<html>
```

```
  <body>
```

```
    <?php
```

```
      $x = 5;  X為全域變數
```

```
      function myTest() {
```

```
        $x = 6;  迴圈裡的x為區域變數
```

```
        echo "<p>Variable x inside funtion is: $x</p>";
```

```
      }
```

```
      myTest();
```

```
      echo "<p>Variable x outside funtion IS: $x</p>";
```

```
    ?>
```

```
  </body>
```

```
</html>
```

Variable x inside funtion is: 6

Variable x outside funtion IS: 5

結果: 第一個x是6(區域)、第二個x是5(全域)

## 2.全域變數與區域變數-宣告(2/3)

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

```
<?php
  $x = 5; // global scope
```

X為全域變數

```
function myTest() {
  // using x inside this function will generate an error
  echo "<p> myTest()-Variable x inside function is: $x</p>";
}
```

迴圈裡未宣告變數

```
myTest();
echo "<p>Variable x outside function is: $x</p>";
?>
```

```
</body>
</html>
```

myTest()-Variable x inside function is:  
Variable x outside function is: 5

結果: 第一個x為空(區域未宣告)、第二個x是5(全域變數)

## 2.全域變數與區域變數-宣告(3/3)

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

A variable declared within a function has a LOCAL SCOPE and can only be accessed within that function.

```
<?php
function myTest() {
    $x = 5;
    // using x inside this function will generate an error
    echo "<p> myTest()-Variable x inside function is: $x</p>";
}
```

迴圈裡的x有宣告,此為區域變數

```
myTest();
echo "<p>Variable x outside function is: $x</p>";
?>
```

X在全域未宣告

```
</body>
</html>
```

結果: 第一個x為5(區域變數)、第二個x為空(全域未宣告)

### 3.全域變數global應用(1/2)

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

```
<?php
$x = 5;
$y = 10;
```

```
function myTest() {
    global $x, $y;
    $y = $x + $y;
}
```

```
myTest(); // run function
echo $y; // output the new value for variable $y
?>
```

```
</body>
</html>
```

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**x,y都宣告為全域變數**

**結果: 因為迴圈內有宣告為全域變數,所以印出時是5+10**

### 3.全域變數global應用(2/2)

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
$x = 5;
```

```
$y = 10;
```

variable \$y is ?15

variable \$GLOBALS['y'] is15

#### 全域變數另一種宣告方式

```
function myTest() {  
    $GLOBALS['y'] = $GLOBALS['x'] + $GLOBALS['y'];  
}
```

```
myTest();
```

```
echo "variable \$y is ?". $y;
```

```
echo "<p>variable \$GLOBALS['y'] is". $GLOBALS['y'];
```

```
?>
```

```
</body>
```

```
</html>
```



## 4.靜態變數static應用

0  
1  
2

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

<?php
function myTest() {
    static $x = 0;
    echo $x;
    $x++;
}

myTest();
echo "<br>"; myTest();
echo "<br>"; myTest();
?>

</body>
</html>
```

靜態變數意即\$х=0不變動  
其他是靠後面\$х++;動作

## 5.顯示文字

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

<?php
echo "<h2>PHP is Fun!</h2>";
echo "Hello world!<br>";
echo "I'm about to learn PHP!<br>";
echo "This " . "string ", "was ", "made ", "with multiple parameters.";
?>

</body>
</html>
```

**PHP is Fun!**

Hello world!

I'm about to learn PHP!

This string was made with multiple parameters.

## 6.顯示文字與變數

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

<?php
$txt1 = "Learn PHP";
$txt2 = "W3Schools.com";
$x = 5;
$y = 4;

echo "<h2>" . $txt1 . "</h2>";
echo "Study PHP at " . $txt2 . "<br>";
echo $x + $y;
?>

</body>
</html>
```

**Learn PHP**

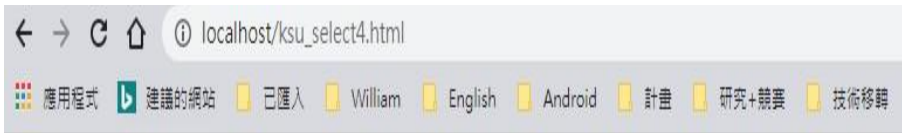
Study PHP at W3Schools.com

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# 7.資料庫應用

# Exercise 1

# Select statement with count()

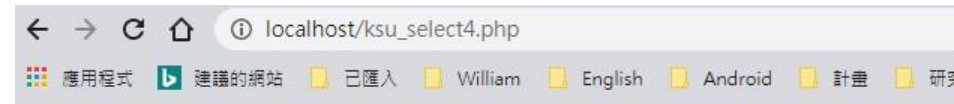


## ksu select operation

按查詢鍵, 查詢 ksu\_std\_table 中, 各系的學生人數.

查詢

ksu\_select4.html



ksu\_std\_table 學生於各系人數顯示如下:

系別	學生人數
CS	4
IE	3
IM	2
QQ	1

4 records found!

返回

ksu\_select4.php

ksu\_select4.html + ksu\_select4.php

# ksu\_select4.html

```
<!doctype html>
<html lang="zh_tw">
<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"
        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>
</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 "<table border='1'>
<tr>
    <th> 系別 </th>  <th>學生人數 </th>
</tr>";

//使用 mysqli_fetch_array() 取回資料庫資料
$row_num=0;
while($row = mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>" . $row['ksu_std_department'] . "</td>";
    echo "<td>" . $row['count(1)'] . " </td>";
    echo "</tr>";
    $row_num = $row_num+1;
}
echo "</table>";
echo $row_num . "  records found!."<br/><br/>";
?>

```

```

<form enctype="multipart/form-data" method="post" action="ksu_select4.html">
<input type="submit" name="sub" value="返回"/>
</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 + ksu\_select5.php

# ksu\_select5.html

```
<!doctype html>
<html lang="zh_tw">
<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"
    action="ksu_select5.php">
    按查詢鍵，進階查詢 ksu_std_table <br/>
    <br/>
    <input type="submit" name="sub" value="查詢"/>
  </form>
</body>
</html>
```

# ksu\_select5.php

```
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, ksu_std_name,
    ksu_std_grade
    FROM ksu_std_table order by ksu_std_department");

echo "<table border='1'>
<tr>
    <th> 系別 </th>    <th>學生姓名 </th> <th>學生成績 </th> <th> 備註 </th>
</tr>";

//使用 mysqli_fetch_array() 取回資料庫資料
$row_num=0;
while($row = mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>" . $row['ksu_std_department'] . "</td>";
    echo "<td>" . $row['ksu_std_name'] . "</td>";
    echo "<td>" . $row['ksu_std_grade'] . "</td>";

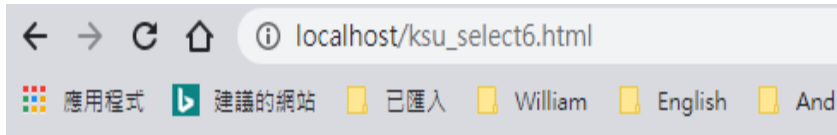
    if( $row['ksu_std_grade'] < 60 )
    {
        echo "<td style=\"background-color:red\"> " . "Failed" . "</td>";
    }
    else
    {
        echo "<td>" . "" . "</td>";
    }

    echo "</tr>";
    $row_num = $row_num+1;
}

echo "</table>";
echo $row_num . "    records found!."<br/><br/>;
```

# Exercise 3

# Input values passed from html



## 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	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 +ksu\_select6.php

# ksu\_select6.html

```
<!doctype html>
<html lang="zh_tw">
<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"
    action="ksu_select6.php">
    按查詢鍵，進階查詢 ksu_std_table <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>
</body>
</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 "<table border='1'>  
<tr>  
    <th>學生姓名 </th> <th>學生成績 </th> <th> 備註 </th>  
</tr>";
```

```
//使用 mysqli_fetch_array() 取回資料庫資料
```

```
$row_num=0;
```

```
while($row = mysqli_fetch_array($result))
```

```
{
```

```
    echo "<tr>";
```

```
    echo "<td>" . $row['ksu_std_name'] . "</td>";
```

```
    echo "<td>" . $row['ksu_std_grade'] . "</td>";
```

```
    if( $row['ksu_std_grade'] < 60 )
```

```
    {  
        echo "<td style=\"background-color:yellow\"> " . "補考" . "</td>";
```

```
    }
```

```
    else
```

```
    {  
        echo "<td>" . "" . "</td>";
```

```
    }
```

```
    echo "</tr>";
```

```
    $row_num = $row_num+1;
```

```
}
```

```
echo "</table>";
```

```
echo $row_num . " records found!."<br/><br/>";
```

```
?)
```

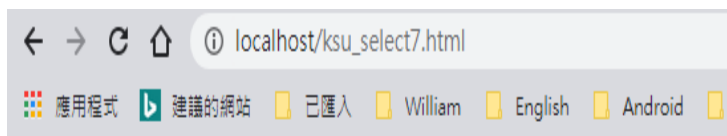
```
<form enctype="multipart/form-data" method="post" action="ksu_select6.html">
```

```
<input type="submit" name="sub" value="返回"/>
```

```
</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:



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

```
<tr>
    <th>學生姓名 </th> <th> 姓名長度 </th> <th>學生成績 </th> <th> 備註 </th>
</tr>";

//使用 mysqli_fetch_array() 取回資料庫資料
$row_num=0;
while($row = mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>" . $row['ksu_std_name'] . "</td>";
    echo "<td>" . strlen($row['ksu_std_name']) . "</td>";
    echo "<td>" . $row['ksu_std_grade'] . "</td>";

    if( $row['ksu_std_grade'] < 60 )
    {
        echo "<td style=\"background-color:yellow\"> " . "補考" . "</td>";
    }
    else
    {
        echo "<td>" . "" . "</td>";
    }
    echo "</tr>";
    $row_num = $row_num+1;
}
echo "</table>";
echo $row_num . " records found!."<br/><br/>;
```

# JOIN (連接兩表格)

- Sample2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!

返回

```
<!doctype html>
<html lang="zh_tw">
<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"
    action="hw2.php">
    按查詢鍵，進階查詢 ksu_std_table <br/> <br/>

    <input type="submit" name="sub" value="查詢"/>
  </form>
</body>
</html>
```

```
echo "ksu_std_table 學生於各系人數顯示如下:". "<br/><br/>";
$result = mysqli_query($conn,
    "SELECT dept_detail.dept_name, ksu_std_name, ksu_std_grade
    FROM ksu_std_table
    LEFT JOIN dept_detail
    ON ksu_std_table.ksu_std_department = dept_detail.dept_id
    ORDER BY dept_name");

echo "<table border='1'>
<tr>
    <th>系別</th>    <th>學生姓名</th>    <th>學生成績</th>    <th>備註</th>
</tr>";

//使用 mysqli_fetch_array() 取回資料庫資料
$row_num=0;
while($row = mysqli_fetch_array($result))
{
    echo "<tr>";
    if($row['dept_name'] == NULL)
    {
        echo "<td style=\"background-color:blue\">" . "" . "</td>";
    }
    else
    {
        echo "<td>" . $row['dept_name'] . "</td>";
    }
    echo "<td>" . $row['ksu_std_name'] . "</td>";
    echo "<td>" . $row['ksu_std_grade'] . "</td>";
```



```
if($row['ksu_std_grade'] < 60)
{
    echo "<td style=\"background-color:red\">" . "Failed" . "</td>";
}
else
{
    echo "<td>" . "" . "</td>";
}
echo "</tr>";
$row_num = $row_num + 1;
}
echo "</table>";

echo $row_num . " records found!."<br/><br/>";
?>
<form enctype="multipart/form-data" method="post" action="hw2.html">
<input type="submit" name="sub" value="返回"/>
</form>
```