

PHP: A Real Life Case Study

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HTML Tags

- HTML uses opening and closing tags around text.
- Opening tags are of the format `<tag>` closing tags are `</tag>`
- `<h1>Customer Information</h1>` - Header Tag
- `<p>This is some sample text.</p>` - Paragraph Tag

HTML Table

`<table>`*open table tag*

`<tr>`*open table row tag*

`<th>Customer</th><th>Sales</th>` *table header tags*

`</tr>`*close table row*

`<tr>`

`<td>Pete's Pizza</td><td>15000.00</td>` *table cell tags*

`</tr>`

`<tr>`

`<td>Richard Banks</td><td>20000.00</td>`

`</tr>`

`</table>`*close table tag*

HTML Output

Customer Information

This is some sample text.

Customer	Sales
Pete's Pizza	15000.00
Richard Banks	20000.00

PHP and HTML

- PHP stands for PHP: Hypertext Preprocessor
- PHP is designed for creating HTML
- PHP can be embedded in HTML
- Add a block of PHP to your HTML using `<?php and ?>`

PHP Basics

- All variables start with \$, each line must be ended by ;
- Surround blocks of code with { and }
- Use `print` or `echo` for output
- Output formatted text using `printf`

```
printf ("fill-%04d float-%.2f", $one, $two)
```

Sample output

fill-0042 float-2.48

PHP and DB2

- Connect to a database using `db2connect` function
- Check for a connection error using `db2_conn_errormessage`
- Assign an SQL statment to a variable
- Use `db2_prepare` with the connection and sql variables
- Execute the statement using `db2_execute`
- Check for errors using `db2_stmt_error` and `db2_stmt_errormessage`

Display Data in an HTML Table

- Print a `<table>` tag
- Print table row tag and header tags
- Loop through using `db2_fetch_assoc`
- Use `printf` to print a table row for each record
- Perform calculations for total
- Print results of any calculations

Find out more

- <http://www.php.net> *Home page of PHP*
- <http://www.w3schools.com> *Interactive HTML tutorial (also PHP, CSS and SQL)*
- <http://www.zend.com> *The company behind PHP*
- <http://www-03.ibm.com/systems/i/software/php/> *IBM PHP on i5 site*
- <http://www.apache.org/> *The web server used on i5/OS for PHP and HTML*

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
  <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
```

```
  <link rel="stylesheet" type="text/css" href="db2demo.css" />
```

```
<title>PHP Demo</title>
```

```
</head>
```

```
<body>
```

```
  <h2>Customer Information</h2>
```

```
<?php
```

```
$database = 'PHPDEMO';
```

```
$user = '';
```

```
$password = '';
```

```
$connection = db2_connect($database, $user, $password);
```

```
if (!$connection){
```

```
    print 'Could not connect.<br />';
```

```
    print db2_conn_errormsg ();
```

```
}
```

```
$sql = "select * from phpsample.custmast";
```

```
print '<p><code>' . $sql . '</code></p>';
```

```
$stmt = db2_prepare($connection, $sql); //returns false if connection failed
```

```
if (!$stmt) {
```

```
    die ("error with statement");
```

```
}
```

```
$result = db2_execute($stmt); //returns false if execution failed
```

```
if (!$result){
```

```
    print db2_stmt_error();
```

```
    print db2_stmt_errormsg();
```

```
}
```

```
print '<table border=1>';
```

```
print '<tr><th>Cust Number</th><th><Comp</th><th>Customer Name</th><th>Address</th>' .
```

```
  '<th>YTD Sales</th></tr>';
```

```
$total = 0;
```

```
while ($row = db2_fetch_assoc($stmt)){
    printf("<tr><td>%06d</td><td>%s</td><td>%s</td><td>%s</td><td
class='currency'>%.2f</td></tr>", $row['CCUSNO'],
        $row['CCMP'], $row['CCSNAM'], $row['CADDR1'], $row['CYTDSL']);
    $total = $total + $row['CYTDSL'];
}
//print total
printf ("<tr><strong><td colspan='4' align='right'><strong>Total YTD Sales</strong></td><td
class='currency'><strong>%.2f</strong></td></strong></tr>", $total);
print '</table>';
```

?>

</body>

</html>

```
body {
    background-color: yellowgreen;
    font-family: Arial, Helvetica, sans-serif;
    font-size: medium;
    margin-left: 50px;
    margin-top: 50px;
}

table {
    border-collapse: collapse;
}

th {
    background-color: mediumslateblue;
}

td {
    background-color: whitesmoke;
    padding: 3px;
    padding-left: 20px;
    padding-right: 20px;
}

p.code {
    border-style: dashed;
    border-width: 1px;
    margin-right: 500px;
}

.currency {
    text-align: right;
}
```