

### HTTP Requests

<code>\$_GET</code>	Access URL parameters.
<code>\$_POST</code>	Access POST request body content.
<code>\$_SERVER['php_self']</code>	Current php document url.

### Built-in Functions

<code>include("x.php")</code>	Includes the PHP file "x.php".
<code>echo "&lt;content&gt;"</code>	Renders <content> on the page on load
<code>die("message")</code>	Exits the script, with a message.
<code>isset(\$a)</code>	Returns true if \$a is not NULL
<code>isset(\$a, \$b)</code>	Returns true if \$a and \$b is not NULL
<code>print_r(\$x)</code>	Prints readable information of \$x
<code>empty(\$x)</code>	Checks if \$x is empty or false
<code>trim(\$x)</code>	Removes leading and trailing whitespaces from \$x

### PHP MS SQL DLL Functions

<code>sqlsrv_connect</code>	Connect to Microsoft SQL Server db.
<code>sqlsrv_query</code>	Prepares and executes a query.
<code>sqlsrv_free_stmt</code>	Frees resources for the statement.
<code>sqlsrv_close</code>	Closes the SQL connection.
<code>sqlsrv_fetch_array</code>	Returns a row as an array.
<code>sqlsrv_next_result</code>	Move to the next result of the statement.
<code>sqlsrv_errors</code>	Returns error and warning information.

### Example Form Loading

```
<?php
    // Get the parameter: "Fruit" from the URL
    query string.
    // Eg. https://example.php/?Fruit=Apple
    $Fruit = $_GET['Fruit'];
?>
// Render the variable $Fruit in the HTML
<div>
    <?php echo $Fruit; ?>
</div>
```

Apple

### Example SQL Query Insert

```
<?php
    $Name = "John Doe";
    $Age = 25;
    $db_server = "<server_hostname>";
    $db_username = "<database_username>";
    $db_password = "<database_password>";
    $db_database = "<database_name>";
    $connectionInfo = array("Database"=>$db_data-
base, "UID"=>$db_username, "PWD"=>$db_password);
    $conn = sqlsrv_connect($db_server, $connecti-
onInfo);
    $tsql = "INSERT INTO dbo.Customers ( Name, Age
) VALUES";
    // Append more string literals to the variable
    $tsql to form the full query
    $tsql .= "('".$Name."', '".$Age.'')";
    $stmt = sqlsrv_query($conn, $tsql);
    // Free statement and connection resources.
    sqlsrv_free_stmt($stmt);
    sqlsrv_close($conn);
?>
```

### Basic Syntax

<code>\$variable = value</code>	Creates a variable, can be of any type.
<code>"string literal"</code>	A literal string
<code>// comment</code>	Comments will not execute.
<code>"x"."y"</code>	Concatenates "x" and "y", resulting in "xy"

### Flow Control

<code>if (x) {y} else {z}</code>	Conditional code block, if x is true, run y. Otherwise, if a is true, run b. Otherwise, run z
<code>do {x} while (y)</code>	A do ... while loop. Executes x as long as y is true
<code>while(x) {y}</code>	A while loop. Executes y as long as x is true

### Comparison Operators

!\$x	Returns true if \$x is false
\$x == \$y	Returns true if \$x matches \$y in value
\$x === \$y	Returns true if \$x matches \$y in value and type
\$x != \$y	Returns true if \$x does not match \$y in value
\$x !== \$y	Returns true if \$x does not match \$y in value or type
\$x <> \$y	Same as \$x != \$y
\$x && \$y	Returns true if both \$x and \$y is true
\$x    \$y	Returns true if either \$x or \$y is true
\$x > \$y	Returns true if \$x is greater than \$y
\$x < \$y	Returns true if \$x is less than \$y
\$x >= \$y	Returns true if \$x is greater than or equal to \$y
\$x <= \$y	Returns true if \$x is less than or equal to \$y

### Example Form Submission

```
<?php
    // Check if the request is a HTTP POST
    request. If it is, $_POST will not be empty.
    if ($_POST) {
        $Fruit = $_POST['Fruit'];
        // Fruit will have the value from the
        input element with the property: name="fruit" upon
        submission.
    }
?>
<form method="post" action="<?=$_SERVER['php_sel-
f']?>">
    <input type="text" name="fruit" id="fruit_id"
/>
    <input type="submit" value="Submit" />
</form>
```

### Example SQL Query Select

```
<?php
$db_server = "<server_hostname>";
$db_username = "<database_username>";
$db_password = "<database_password>";
$db_database = "<database_name>";
$connectionInfo = array("Database"=>$db_data-
base, "UID"=>$db_username, "PWD"=>$db_password);
$conn = sqlsrv_connect($db_server, $connecti-
onInfo);
```

### Example SQL Query Select (cont)

```
$tsql = "SELECT FirstName, LastName FROM
dbo.Customers";
$stmt = sqlsrv_query($conn, $tsql);
if( $stmt === false) {
    die( print_r( sqlsrv_errors(), true) );
}
while( $row = sqlsrv_fetch_array( $stmt,
SQLSRV_FETCH_ASSOC) ) {
    echo $row['LastName'].", ".$row['First-
Name']. "<br />";
}
// Free statement and connection resources.
sqlsrv_free_stmt($stmt);
sqlsrv_close($conn);
?>
```

```
Doe, John
Sue, Mary
```



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By **damachan**

[cheatography.com/damachan/](https://cheatography.com/damachan/)

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