

The database connection object

```
// $con= new mysqli("Server", "UN", "PW", "DB");
```

```
$con=new mysqli("localhost","root","123","test");
```

Check database connection

```
if ($con->connect_error)
{
    die("Connection failed: " . $con->connect_error);
}
```

Linking the configuration file

```
require 'config.php';
```

Insert SQL Statement

```
$sql= "INSERT INTO myTable(ID, Name) VALUES (1, 'SLIIT')";
```

Execute the SQL statement

```
$con->query($sql)
```

Closing the database connection

```
$con->close();
```

```
<?php
//Linking the configuration file
require 'config.php';
$sql= "INSERT INTO myTable(ID,Name)VALUES(11111,'SLIIT')";
if($con->query($sql)){
    echo "Inserted successfully";
}
else{
    echo "Error:". $con->error;
}
$con->close();
?>
```

Config.php

```
<?php
//The connection object
$con=new mysqli("localhost","root","","MyDB");
//Check connection
if($con->connect_error) {
    die("Connection failed: " . $con->connect_error);
}
?>
```

Reading data from a database

Select SQL statement

```
$sql = "SELECT ID, name FROM myTable"
```

Assigning results into a variable

```
$result = $con->query($sql);
```

Check data availability

```
if ($result->num_rows > 0)
{
    //read data
}
else {
    echo "no results";
}
```

Reading data

```
while($row = $result->fetch_assoc())
{
    //Read and utilize the row data
}
```

Display data

```
echo $row["ID"]. " – " . $row["Name"] . "<BR />";
```

READ - Complete code

```
<?php
//Linking the configuration file
require 'config.php';
$sql = "SELECT ID, Name FROM myTable";
$result = $con->query($sql);
if($result->num_rows > 0) {
    //read data
    while($row = $result->fetch_assoc()) {
        //Read and utilize the row data
        echo $row["ID"]. " - " . $row["Name"] . "<BR />";
    }
}
else
{
    echo "no results";
}
$con->close();
?>
```

Config.php

```
<?php
//The connection object
$con=new mysqli("localhost","root","","MyDB");
//Check connection
if($con->connect_error) {
    die("Connection failed: " . $con->connect_error);
}
?>
```

Delete SQL statement

```
$sql = "DELETE FROM myTable WHERE stuID='$stuID'";
```

Update SQL statement

```
$sql = "UPDATE myTable SET ID='2', Name='SLIIT updated' WHERE ID='1'";
```

COOKIES

Set cookie

```
setcookie("Name", "SLIIT", time() + (86400 * 30), "/");
```

Time in seconds 86400 = 1 day



Delete cookie

```
setcookie(" Name ", "", time() - 3600);
```

To delete a cookie, modify it with a past expiration time



SESSIONS

```
session_start();
```

Set/modify session variables

```
$_SESSION["Name"] = "SLIIT";
```

```
// remove all session variables
```

```
session_unset();
```

```
// destroy the session
```

```
session_destroy();
```

Redirecting an already logged user

```
if(isset($_SESSION["userName"]))  
{  
    //Redirect to another page  
    header("Location:home.php");  
}
```

Redirecting after logoff

```
<?php  
    session_start();  
    if(isset($_POST["logoff"])) {  
        session_destroy();  
        header("Location:index.php");  
    }  
    else {  
        header("Location:home.php");  
    }  
?>
```

File Handling - File Upload

```
<!DOCTYPE html>
<html>
<body>
<?php
$target_dir = "uploads/";
$target_file = $target_dir . basename($_FILES["fileFieldName"]["name"]);
if (isset($_FILES["fileFieldName"])) {
    if (move_uploaded_file($_FILES["fileFieldName"]["tmp_name"],$target_file)) {
        echo "The file ". basename( $_FILES["fileFieldName"]["name"]). " is uploaded.";
    }
    else {
        echo "Error while uploading your file.";
    }
}
else {
    echo "File not available";
}
?>
```

File Handling – File Creation

Test if the file exists

```
<?php
    echo file_exists("test.txt");
?>
```

Create file

```
<?php
$file = fopen("test.txt","r");
$file = fopen("/home/test/test.txt","r");
$file = fopen("http://www.example.com/","r");
$file = fopen("ftp://user:password@example.com/test.txt","w");
?>
```

- If the file already exists, then it will be opened for writing, where if it is not existing, a new file will be created.
- To create a file, the mode should be write (“w”).

Rename a file

```
rename("test.txt","best.txt");
```

Remove a file

```
unlink("test.txt");
```

File Handling – File Read

Read the complete file

```
<?php
echo readfile("test.txt");
?>
```

This will return the content of the file.

Open file - MODE

Modes	Description
r	Open a file for read only.
w	Open a file for write only.
a	Open a file for write only.
x	Creates a new file for write only.
r+	Open a file for read/write.
w+	Open a file for read/write.
a+	Open a file for read/write.
x+	Creates a new file for read/write.

File Open/Close

```
$fileHandler = fopen("fileName.txt", "MODE") or die("Error!");
```

```
fclose($fileHandler);
```

Read the content – lines and chars

```
$ fileHandler = fopen("fileName.txt", "r") or die("Error");
while (!feof($fileHandler)) {
    echo fgetc($fileHandler);
}
fclose($fileHandler);
```

Read the content

```
fread($fileHandler, filesize("fileName.txt"));
```

- Reads the whole file

```
fgets($fileHandler);
```

- Reads a single line

```
fgetc($fileHandler);
```

- Reads a single character

Read the content - full code

```
<!DOCTYPE html>
<html>
<body>
<?php
$fileHandler=fopen("Name.txt","r")or die("Error");
while(!feof($fileHandler)) {
    echo fgetc($fileHandler);
}
fclose($fileHandler);
?>
```

File Handling – File Write

```
<!DOCTYPE html>
<html>
<body>
<?php
$myfile = fopen("newfile.txt", "w") or die("Unable to open file!");
$txt = "Mickey Mouse\n";
fwrite($myfile, $txt);
$txt = "Minnie Mouse\n";
fwrite($myfile, $txt);
fclose($myfile);
?>
</body>
</html>
```