

//connect

```
<?php
$db = new PDO('mysql:host=localhost;dbname=testdb;port=3308;charset=utf8' , 'username' , 'password' );
?>
```

//INSERT

```
<?php
$name = 'BOB';
$stmt = $db->prepare ("INSERT INTO table(`time`, `name`) VALUES(NOW(), ?)" );
$stmt->execute (array ($name));
?>
```

```
$insertId = $db->lastInsertId();
```

//Update

```
<?php
$stmt = $db->prepare ("UPDATE table SET name=? WHERE id=?" );
$stmt->execute (array ($name, $id));
$affected_rows = $stmt->rowCount ();
?>
```

//Delete

```
<?php
$stmt = $db->prepare ("DELETE FROM table WHERE name LIKE ? AND id=?" );
$stmt->execute (array ("%".$name."%", $id));
$affected_rows = $stmt->rowCount ();
?>
```

```
//ajax.php

<!doctype html>
<html>
<head>
<script>
function showAjax(str,destination, results, var_data) {
    if (str == "") {
        document.getElementById (results).innerHTML = "";
        return;
    } else {
        if (window.XMLHttpRequest) {
            // code for IE7+, Firefox, Chrome, Opera, Safari
            xmlhttp = new XMLHttpRequest();
        } else {
            // code for IE6, IE5
            xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange = function() {
            if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
                document.getElementById (results).innerHTML = xmlhttp.responseText;
            }
        }
        xmlhttp.open("GET",destination + "?" + var_data + "=" + str,true);
        xmlhttp.send();
    }
}
</script>

<meta charset= "utf-8" >
<title></title>
</head>
<body>
Enter Name :
<input id= "txtname" name="txtname" type="text" onKeyUp= "showAjax(this.value, 'getdata.php','results_destination','txtString'
);" >
<span id= "results_destination" ></span>

</body>
</html>

<?php
//getdata.php

$search=$_GET['txtString' ];

?>
```

```

<?php
include ("object_declare_oop.php" );
include ("object_declare_oop_pdo.php" ); ?>

<!doctype html>
<html>
<head>
<meta charset= "utf-8" >
<title> PHP-AJAX-OOP-PDO </title>
</head>
<body>
    <?php
        $tblphp = new tblphp;
        $tblphp ->setName('Jose Protacio Rizal' );
        $tblphp ->setAge('10');
        $tblphp ->getAge('2015-12-10');

        $db = new DatabaseConnect ();

        //single insert using bind
        $db->query ("INSERT INTO tblphp (Name, Age, DOB) VALUES (?, ?, ?)" );
        $db->bind (1, 'Jose Rizal' );
        $db->bind (2, '13');
        $db->bind (3, '2015-09-01');
        $db->execute ();
        echo 'Last Insert ID using bind : ' . $db->lastInsertId (), "<br>" ;

        //multiple insert
        $db->beginTransaction ();
        $db->query ("INSERT INTO tblphp (Name, Age, DOB) VALUES (?, ?, ?)" );
        $db->bind (1, 'John Lennon' );
        $db->bind (2, '14');
        $db->bind (3, '2013-09-02');
        $db->execute ();

        $db->query ("INSERT INTO tblphp (Name, Age, DOB) VALUES (?, ?, ?)" );
        $db->bind (1, 'Paul McCartney' );
        $db->bind (2, '15');
        $db->bind (3, '2011-09-03');
        $db->execute ();
        echo 'Last Insert ID after multiple INSERT: ' . $db->lastInsertId (). '<br>' ;
        $db->endTransaction ();

        //Single record query
        $db->query ('SELECT * FROM tblphp WHERE Name = ?' );
        $db->bind (1, 'Jose Rizal 3' );
        $row = $db->single ();
        echo 'Name : ' . $row['Name'] . '<br>' ;
        echo 'Age : ' . $row['Age'] . '<br>' ;
        echo 'DOB : ' . $row['DOB'] . '<br>' ;

        //multiple record query
        $db->query ('SELECT * FROM tblphp WHERE Name LIKE ?' );
        $db->bind (1, '%Jose%');
        $rows = $db->resultset ();
        echo '-----';
        foreach ($rows as $tbl) {
            echo "<br>" ;
            echo 'Name : ' . $tbl['Name'] . '<br>' ;
            echo 'Age : ' . $tbl['Age'] . '<br>' ;
            echo 'DOB : ' . $tbl['DOB'] . '<br>' ;
            echo '-----';
        }
        echo 'Row Count : ' . $db->rowCount ();
        $db->close ();
    ?>
</body>
</html>

```

```
<?php
//object_declare_oop.php
class tblphp {
    var $ID; var $Name; var $Age; var $DOB;

    function setID($p){
        $this->ID = $p;
    }
    function getID(){
        echo $this->ID;
    }

    function setName($p){
        $this->Name = $p;
    }
    function getName(){
        echo $this->Name;
    }

    function setAge($p){
        $this->Age = $p;
    }
    function getAge(){
        echo $this->Age;
    }

    function setDOB($p){
        $this->DOB = $p;
    }
    function getDOB(){
        echo $this->DOB;
    }
}
?>
```

```

<?php
class DatabaseConnect {
    private $host    = 'localhost' ;
    private $user     = 'root' ;
    private $pass     = 'root' ;
    private $dbname   = 'dbphp' ;
    private $port     = '3308' ;

    private $dbh ;
    private $error ;

    private $stmt ;

    public function __construct (){
        error_reporting (0);
        // Set DSN
        $dsn = 'mysql:host=' . $this->host .';dbname=' . $this->dbname .';port=' . $this->port .';charset=utf8' ;
        // Set options
        $options = array(
            PDO::ATTR_PERSISTENT => true ,
            PDO::ATTR_ERRMODE    => PDO::ERRMODE_EXCEPTION
        );
        // Create a new PDO instance
        try{
            $this->dbh = new PDO($dsn , $this->user, $this->pass, $options );
        }
        // Catch any errors
        catch (PDOException $e){
            echo 'Cannot connect to your database server.' ;
        }
    }

    public function query ($query){
        $this->stmt = $this->dbh->prepare ($query);
    }

    public function execute (){
        return $this->stmt->execute ();
    }

    public function bind ($param , $value , $type = null ){
        if (is_null ($type)) {
            switch (true) {
                case is_int ($value):
                    $type = PDO::PARAM_INT;
                    break;
                case is_bool ($value):
                    $type = PDO::PARAM_BOOL;
                    break;
                case is_null ($value):
                    $type = PDO::PARAM_NULL;
                    break;
                default :
                    $type = PDO::PARAM_STR;
            }
        }
        $this->stmt->bindValue ($param , $value , $type );
    }

    public function resultset (){
        $this->execute ();
        return $this->stmt->fetchAll (PDO::FETCH_ASSOC);
    }

    public function single (){
        $this->execute ();
        return $this->stmt->fetch (PDO::FETCH_ASSOC);
    }
}

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public function rowCount (){
    return $this->stmt->rowCount ();
}

public function lastInsertId (){
    return $this->dbh->lastInsertId ();
}

public function beginTransaction (){
    return $this->dbh->beginTransaction ();
}

public function endTransaction (){
    return $this->dbh->commit ();
}

public function cancelTransaction (){
    return $this->dbh->rollBack ();
}

public function debugDumpParams (){
    return $this->stmt->debugDumpParams ();
}

public function close (){
    try{
        $this->dbh=null;
    } catch (PDOException $e){
        echo 'Cannot close your database connection.' ;
    }
}
}
?>

```

```

<?php
if (isset($_SESSION)) {
    session_start ();
}
$MM_authorizedUsers = "Admin,Student" ;
$MM_dontCheckAccess = "false" ;

// *** Restrict Access To Page: Grant or deny access to this page
function isAuthorized ($strUsers, $strGroups, $UserName, $UserGroup) {
    // For security, start by assuming the visitor is NOT authorized.
    $isValid = False;

    // When a visitor has logged into this site, the Session variable MM_Username set equal to their username.
    // Therefore, we know that a user is NOT logged in if that Session variable is blank.
    if (!empty($UserName)) {
        // Besides being logged in, you may restrict access to only certain users based on an ID established when they login.
        // Parse the strings into arrays.
        $arrUsers = explode(",", $strUsers);
        $arrGroups = explode(",", $strGroups);
        if (in_array($UserName, $arrUsers)) {
            $isValid = true;
        }
        // Or, you may restrict access to only certain users based on their username.
        if (in_array($UserGroup, $arrGroups)) {
            $isValid = true;
        }
        if (($strUsers == "") && false) {
            $isValid = true;
        }
    }
    return $isValid;
}

$MM_restrictGoTo = "index.php" ;
if (!((isset($_SESSION['MM_Username'])) && (isAuthorized ("", $MM_authorizedUsers, $_SESSION['MM_Username'], $_SESSION['MM_UserGroup'])))) {
    $MM_qsChar = "?";
    $MM_referrer = $_SERVER['PHP_SELF'];
    if (strpos($MM_restrictGoTo, "?") $MM_qsChar = "&";
    if (isset($_SERVER['QUERY_STRING']) && strlen($_SERVER['QUERY_STRING']) > 0)
        $MM_referrer .= "?" . $_SERVER['QUERY_STRING'];
    $MM_restrictGoTo = $MM_restrictGoTo . $MM_qsChar . "accesscheck=" . urlencode($MM_referrer);
    header("Location: " . $MM_restrictGoTo);
    exit;
}
?>

<!doctype html>
<html>
<head>
<meta charset= "utf-8" >
<title> PHP Test</title>
</head>

<script>
function showAjax(str,destination, results, var_data) {
    if (str == "") {
        document.getElementById (results).innerHTML = "";
        return;
    } else {
        if (window.XMLHttpRequest) {
            // code for IE7+, Firefox, Chrome, Opera, Safari
            xmlhttp = new XMLHttpRequest();
        } else {
            // code for IE6, IE5
            xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange = function() {

```

```

        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
            document.getElementById (results).innerHTML = xmlhttp.responseText;
        }
    }
    xmlhttp.open("GET",destination + "?" + var_data + "=" + str,true);
    xmlhttp.send();
}
}
</script>

<body>
<br>
<table width= "900" border= "1" align= "center" cellpadding= "3" cellspacing= "0" >
    <tr bgcolor= "#009900" >
        <th scope= "col" >Search using AJAX-OOP-PDO </th>
    </tr>
    <tr>
        <td>
            <label for= "txtsearch" ></label>
            <div align= "center" >
                <input name= "txtsearch" type= "text" id= "txtsearch" size= "80" onKeyUp= "showAjax(this.value, 'phplist_oop_pdo.php','r
esults_here','txtString');" >
                <input type= "submit" name= "cmdsearch" id= "cmdsearch" value= "Search" >
            </div>
        </td>
    </tr>
</table>
<br>
<div id= "results_here" ></div>
</body>
</html>

```



```

<?php
include ("object_declare_oop_pdo.php" );

$currentPage = $_SERVER["PHP_SELF" ];

$maxRows_rsphp = 10;
$pageNum_rsphp = 0;
if (isset ($_GET['pageNum_rsphp' ])) {
    $pageNum_rsphp = $_GET['pageNum_rsphp' ];
}
$startRow_rsphp = $pageNum_rsphp * $maxRows_rsphp ;

$txtsearch = $_GET['txtString' ];

$db = new DatabaseConnect ();

$query_rsphp ="SELECT * FROM tblphp WHERE `Name` LIKE ? OR `Age` LIKE ? OR `DOB` LIKE ? LIMIT ?, ?" ;
$db->query ($query_rsphp );
$db->bind (1, '%' . $txtsearch . '%');
$db->bind (2, '%' . $txtsearch . '%');
$db->bind (3, '%' . $txtsearch . '%');
$db->bind (4, $startRow_rsphp );
$db->bind (5, $maxRows_rsphp );
$rsphp = $db->resultset ();

if (isset ($_GET['totalRows_rsphp' ])) {
    $totalRows_rsphp = $_GET['totalRows_rsphp' ];
} else {

    $totalRows_rsphp = $db->rowCount ();
}
$totalPages_rsphp = ceil ($totalRows_rsphp / $maxRows_rsphp )-1;

$queryString_rsphp = "" ;
if (!empty ($_SERVER['QUERY_STRING'])) {
    $params = explode ("&" , $_SERVER['QUERY_STRING']);
    $newParams = array ();
    foreach ($params as $param) {
        if (strpos ($param, "pageNum_rsphp" ) == false &&
            strpos ($param, "totalRows_rsphp" ) == false ) {
            array_push ($newParams , $param);
        }
    }
    if (count ($newParams) != 0) {
        $queryString_rsphp = "&" . htmlentities (implode ("&" , $newParams ));
    }
}
$queryString_rsphp = sprintf ("%totalRows_rsphp=%d%s" , $totalRows_rsphp , $queryString_rsphp );
?>

<table width= "900" border= "1" align= "center" cellpadding= "3" >
<tr bgcolor= "#009900" >
<td colspan= "5" ><div align= "center" ><strong> PHP List </strong></div></td>
</tr>
<tr bgcolor= "#009900" >
<td width= "175" >Name</td>
<td width= "161" >Age</td>
<td width= "340" >Date of Birth </td>
<td width= "85" ><input type= "button" name= "cmdadd" id= "cmdadd" value= "New Record" onClick= "window.location.assign('php_add.php');"> </td>
<td width= "85" ><input type= "button" name= "cmdprint" id= "cmdprint" value= "Print" onClick= "window.location.assign('php_print.php?txtsearch= <?php echo $txtsearch;?>');"> </td>
</tr>

<?php foreach ($rsphp as $row_rsphp) { ?>
<tr>
<td><a><?php echo $row_rsphp['Name']; ?></a></td>
<td><?php echo $row_rsphp['Age']; ?>&nbsp; </td>

```

```

<td><?php echo $row_rsphp['DOB']; ?>&nbsp; </td>
<td><input type="button" name="cmdupdate" id="cmdupdate" value="Update Record" onClick="window.location.assign('php_updat
e.php?recordID=<?php echo $row_rsphp['ID']; ?>');"></td>
<td><input type="button" name="cmdremove" id="cmdremove" value="Remove Record" onClick="window.location.assign('php_del
ete.php?recordID=<?php echo $row_rsphp['ID']; ?>');"></td>
</tr><?php } ?>
</table>
<br>

<table border= "0" align= "center" >
<tr>
<td><?php if ($pageNum_rsphp > 0) { // Show if not first page ?>
<a href= "<?php printf("%s?pageNum_rsphp=%d%s", $currentPage, 0, $queryString_rsphp); ?>">First</a>
<?php } // Show if not first page ?></td>
<td><?php if ($pageNum_rsphp > 0) { // Show if not first page ?>
<a href= "<?php printf("%s?pageNum_rsphp=%d%s", $currentPage, max(0, $pageNum_rsphp - 1), $queryString_rsphp); ?>">P
revious</a>
<?php } // Show if not first page ?></td>
<td><?php if ($pageNum_rsphp < $totalPages_rsphp) { // Show if not last page ?>
<a href= "<?php printf("%s?pageNum_rsphp=%d%s", $currentPage, min($totalPages_rsphp, $pageNum_rsphp + 1), $queryStri
ng_rsphp); ?>">Next</a>
<?php } // Show if not last page ?></td>
<td><?php if ($pageNum_rsphp < $totalPages_rsphp) { // Show if not last page ?>
<a href= "<?php printf("%s?pageNum_rsphp=%d%s", $currentPage, $totalPages_rsphp, $queryString_rsphp); ?>">Last</a>
<?php } // Show if not last page ?></td>
</tr>
</table>
<div align="center">Records <?php echo ($startRow_rsphp + 1) ?> to <?php echo min($startRow_rsphp + $maxRows_rsphp, $total
Rows_rsphp) ?> of <?php echo $totalRows_rsphp ?>
</div>

<?php
$db->close ();
?>

```