

## Exercise 11.12 – Prepared Statements

- **PHP PDO Object**
  - PDO->prepare(), <http://php.net/manual/en/pdo.prepare.php>
    - Prepares a statement for execution and returns a statement object
  - PDOStatement::bindValue(), <http://php.net/manual/en/pdostatement.bindvalue.php>
  - PDOStatement::execute(), <http://php.net/manual/en/pdostatement.execute.php>
  - PDOStatement::fetch(), <http://php.net/manual/en/pdostatement.fetch.php>
- **outputArtist()**
  - \$pdo = new PDO(DBCONNSTRING, DBUSER, DBPASS);
  - \$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);
  - \$result = \$pdo->query(\$sql);
  - \$row = \$result->fetch()
    - echo '<a href="lab11-exercise10.php?id=' . \$row['ArtistID'] . '" class="list-group-item';
    - if (isset(\$\_GET['id']) && \$\_GET['id'] == \$row['ArtistID']) echo ' active';
  - \$pdo = null;
- **outputPaintings()**
  - if (isset(\$\_GET['id']) && \$\_GET['id'] > 0) {
    - \$pdo = new PDO(DBCONNSTRING, DBUSER, DBPASS);
    - \$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);
    - \$sql = 'select \* from ArtWorks where ArtistId=:id';
    - \$id = \$\_GET['id'];
    - \$statement = \$pdo->prepare(\$sql);
    - \$statement->bindValue(':id', \$id);
    - \$statement->execute();
    - \$row = \$statement->fetch()
  - pdo -> null;
- **outputSinglePainting()**
- **How to run the program**
  - <http://localhost/lab11/lab11-exercise10.php?id=95>

```
<?php
//config.php - lab11-exercise08-mysqli.php
define('DBHOST', 'localhost');
define('DBNAME', 'art');
define('DBUSER', 'testuser');
define('DBPASS', 'secret');
define('DBCONNSTRING', 'mysql:host=localhost; dbname=art');
?>
//lab11-exercise12.php
<?php

require_once('config.php');
```

```

/*
Displays the list of artist links on the left-side of page
*/
function outputArtists() {
    try {
        $pdo = new PDO(DBCONNSTRING, DBUSER, DBPASS);
        $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
        $sql = "select * from Artists order by LastName limit 0,15";
        $result = $pdo->query($sql);
        while ($row = $result->fetch()) {
            echo '<a href="lab11-exercise10.php?id=' . $row['ArtistID'] . '" class="list-group-item';
            if (isset($_GET['id']) && $_GET['id'] == $row['ArtistID']) echo ' active';
            echo '>';
            echo $row['LastName'] . '</a>';
        }
        $pdo = null;
    }
    catch (PDOException $e) {
        die( $e->getMessage() );
    }
}

```

```

/*
Displays the list of paintings for the artist id specified in the id query string
*/
function outputPaintings() {
    try {
        if (isset($_GET['id']) && $_GET['id'] > 0) {
            $pdo = new PDO(DBCONNSTRING, DBUSER, DBPASS);
            $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
            $sql = 'select * from ArtWorks where ArtistId=:id';
            $id = $_GET['id'];
            $statement = $pdo->prepare($sql);
            $statement->bindValue(':id', $id);
            $statement->execute();

            while ($row = $statement->fetch()) {
                outputSinglePainting($row);
            }
            $pdo = null;
        }
    }
    catch (PDOException $e) {
        die( $e->getMessage() );
    }
}

```

```

/*

```

Displays a single painting

\*/

```
function outputSinglePainting($row) {
    echo '<div class="media">';
    echo '<a class="pull-left" href="#">';
    echo '';
    echo '</a>';
    echo '<div class="media-body">';
    echo '<h4 class="media-heading">';
    echo htmlentities($row['Title'], ENT_IGNORE | ENT_HTML5, "ISO-8859-1");
    echo '</h4>';
    echo $row['Description'];
    echo '</div>';
    echo '</div>';
}
?>
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Chapter 11</title>
    <!-- Bootstrap core CSS -->
    <link href="bootstrap3_defaultTheme/dist/css/bootstrap.css" rel="stylesheet">
</head>
<body>
<div class="well"><h1>User Input (pdo)</h1></div>
<div class="container">
    <div class="row">
        <div class="col-md-3">
            <div class="list-group">
                <?php outputArtists(); ?>
            </div>
        </div>
        <div class="col-md-9">
            <?php outputPaintings(); ?>
        </div>
    </div>
</div>
</body>
</html>
```