**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**](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 '<img class="media-object" src="images/art/works/square-medium/' . $row['ImageFileName'] .'.jpg">';

 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>