**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>