Thomas Mathew

CS 340

Final Project, General Use Queries Examples

Our approach involved the use of a separate php file to handle the addition or deletion of data from the various Tables in the Database. In each case, the main file, Test.php, takes some user input and sends it to the proper php file for handling. Also in each case, the given php file contains a large amount of error handling. This document will largely ignore those lines and focus on the specific Queries used to modify data.

In all cases, we prepare a statement, then bind user input to parameters as strings or integers.

Example 1: Adding an entry to COACH - variables in brackets are the user input.

```php
if(!($stmt = $mysqli->prepare("INSERT INTO COACH(name, age, team_val3) VALUES (?,?,?)")))
    {
    echo "Prepare failed: "   . $stmt->errno . " " . $stmt->error;
    }

//Bind the parameters. S, I, and I for name, age, and team_val3. Use a POST array
if(!($stmt->bind_param("sii",$_POST['coachName'],$_POST['coachAge'],$_POST['coachTeamval'])))
    {
    echo "Bind failed: "   . $stmt->errno . " " . $stmt->error;
    }
```

Example 2: Deleting an entry of COACH. The user inputs the ID number ('deleteCoach') of the coach to delete.

```php
if(!($stmt = $mysqli->prepare("DELETE FROM COACH WHERE coach_id = ?")))
    {
    echo "Prepare failed: "   . $stmt->errno . " " . $stmt->error;
    }

//Bind the parameters. S, I, and I for name, age, and team_val3. Use a POST array
if(!($stmt->bind_param("i",$_POST['deleteCoach'])))
    {
    echo "Bind failed: "   . $stmt->errno . " " . $stmt->error;
    }
```

Example 3: Adding a Team. This example is more complex. It allows the user to select the Metro that that team plays in. The select form is directly populated from the Metro database. Here is the important code for the user-facing Selection. The key is showing the User the string to Choose from ("Dallas, New York, etc"), while still capturing their choice as the ID integer value (`option value= $metro_id`)

```php
                <legend>Metro they play in:</legend>
                <select name="teamMetro">
<?php
if(!($stmt = $mysqli->prepare("SELECT metro_id, location FROM METRO"))){
    echo "Prepare failed: "   . $stmt->errno . " " . $stmt->error;
}

if(!$stmt->bind_result($metro_id, $location)){
    echo "Bind failed: "   . $mysqli->connect_errno . " " . $mysqli->connect_error;
}
while($stmt->fetch()){
    echo '<option value=" '. $metro_id . ' "> ' . $location . '</option>\n';
```

Example 4: Create Player. Similar to Example 1, but more parameters. As before, user input in brackets.

```php
if(!($stmt = $mysqli->prepare("INSERT INTO PLAYER(fname, lname, age, team_val, status) VALUES
(?,?,?,?,?)")))
    {
    echo "Prepare failed: "   . $stmt->errno . " " . $stmt->error;
    }


//Bind the parameters. S, I, and I for name, age, and team_val3. Use a POST array
if(!($stmt->bind_param("ssiis",$_POST['playerFname'],$_POST['playerLname'],$_POST['playerAge'],$_POST
['playerTeamval'],$_POST['playerStatus'])))
    {
    echo "Bind failed: "   . $stmt->errno . " " . $stmt->error;
    }
```

Example 5: Delete Position. Similar to Example 2

```php
if(!($stmt = $mysqli->prepare("DELETE FROM FBPOSITION WHERE position_id = ?")))
    {
    echo "Prepare failed: "   . $stmt->errno . " " . $stmt->error;
    }

//Bind the parameters. S, I, and I for name, age, and team_val3. Use a POST array
if(!($stmt->bind_param("i",$_POST['deletePosition'])))
    {
    echo "Bind failed: "   . $stmt->errno . " " . $stmt->error;
    }
```