

Programování v PHP

Katedra softwarového inženýrství
Fakulta informačních technologií
České vysoké učení technické v Praze

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Databáze - změny dat
BI-PHP



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<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>PDO - zmeny dat a dalsi operace s databazi</title>
    </head>
    <body>
        <?php
            if (!isset($_REQUEST["btnUpdate"]) &&
                !isset($_REQUEST["btnNext"])){
                $ID = "0"; // vim, ze cisla zamestnancu zacinaji od 1
            }
            else {
                $ID = $_REQUEST["txtID"];
                $krestni = $_REQUEST["txtKrestni"];
                $prijmeni = $_REQUEST["txtPrijmeni"];
                $osloveni = $_REQUEST["txtOsloveni"];
                $mesto = $_REQUEST["txtMesto"];
            }

            try {
                /*
                $dbh = new PDO('mysql:unix_socket=
                            /var/run/mysqld/mysqld.sock;dbname=jmeno_db',
                            'prihlasovaci_jmeno','databazove_heslo',
                            array(PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION));
                */
                /*
                $dbh = new PDO('mysql:host=localhost;dbname=Northwind',
                            'root','password',
                            array(PDO::ATTR_ERRMODE =>PDO::ERRMODE_EXCEPTION));
                */

                // pripojeni k databazi SQLite
                $dbh = new PDO('sqlite:northwind.sqlite',null,null,
                            array(PDO::ATTR_ERRMODE =>PDO::ERRMODE_EXCEPTION));

                // pro ZMENY v SQLite musi byt pro ucet, pod kterym jede
                // PHP, moznost zapisu (i mazani) do souboru sqlite
                // a navic v adresari, kde je tento soubor musi mit
                // PHP moznost cteni, mazani a vytvareni souboru!!
            }
            catch (Exception $ex){
                die($ex->getMessage());
            }

            if (isset($_REQUEST["btnUpdate"])){ // odeslano tlacitkem btnUpdate?
                // v praxi otestovat data a "dezinfikovat" data od uzivatele
                /*
                // varianta 1 - prime poslani Update (stejne Delete,
                // Insert, ...) na db
                $cmdUpdate = "Update Employees Set LastName='".$prijmeni'",".
                            "FirstName='".$krestni'",".
                            "TitleOfCourtesy='".$osloveni'",".
                            "City='".$mesto' ".
                            "Where EmployeeID=$ID;";
                // echo "$cmdUpdate<br>";

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try {
    // vykonani SQL prikazu, který NEVRACÍ data
    //(Insert, Update, ...) - ne Select
    $dbh->exec($cmdUpdate);
}
catch (Exception $ex){
    die($ex->getMessage());
}
*/

// varianta 2 - prepared statement - verze s named parametry
/*
$cmdUpdate = "Update Employees Set LastName=:last, ".
    "FirstName=:first, ".
    "TitleOfCourtesy=:title, ".
    "City=:city ".
    "Where EmployeeID=:id;";

// priprava prikazu
$prepared = $dbh->prepare($cmdUpdate);
// vykonani prikazu - volani s polem prametrů
$prepared->execute(array(':last' => $prijmeni,
                        ':first' => $krestni,
                        ':title' => $osloveni,
                        ':city' => $mesto,
                        ':id' => $ID));

*/

// varianta 3 - prepared statement - verze s positional
// parametry
/*
$cmdUpdate = "Update Employees Set LastName=?, ".
    "FirstName=?, ".
    "TitleOfCourtesy=?, ".
    "City=? ".
    "Where EmployeeID=?;";

// priprava prikazu
$prepared = $dbh->prepare($cmdUpdate);
// vykonani prikazu - volani s polem prametrů
// (indexy pouze pro ujasnění)
$prepared->execute(array(0 => $prijmeni, 1 => $krestni,
                        2 => $osloveni, 3 => $mesto,
                        4 => $ID));

*/

// varianta 4 - prepared statement - verze parametr binding
$cmdUpdate = "Update Employees Set LastName=?, ".
    "FirstName=?, ".
    "TitleOfCourtesy=?, ".
    "City=? ".
    "Where EmployeeID=?;";

// priprava prikazu
$prepared = $dbh->prepare($cmdUpdate);

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// parametr binding (positional) - cislovany od JEDNE!!
$prepared->bindParam(1, $prijmeni);
$prepared->bindParam(2, $krestni);
$prepared->bindParam(3, $osloveni);
$prepared->bindParam(4, $mesto);
$prepared->bindParam(5, $ID);

// parameter binding (named)
// $prepared->bindParam(':last', $prijmeni);

// pri parameter binding se pro vykonani prikazu vola
// execute BEZ pole parametru
$prepared->execute();
}
```

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// nacteni dat z dalsiho radku pro zobraxeni ve strance
$cmdSelect = "Select EmployeeID,LastName,FirstName, ".
              "TitleOfCourtesy,City ".
              "From Employees ".
              "Where EmployeeID > $ID ".
              "Order By EmployeeID ".
              "Limit 1";

try {
    // query - posila na db SQL command, ktery vraci data
    // (Select, ...)
    $cmd = $dbh->query($cmdSelect);
}
catch (Exception $ex){
    die($ex->getCode());
}

// nacteni jednoho radku
$row = $cmd->fetch(PDO::FETCH_BOTH);    // osetrit chyby!!

if (!empty($row)){
    $ID = $row["EmployeeID"];
    $krestni = $row["FirstName"];
    $prijmeni = $row["LastName"];
    $osloveni = $row["TitleOfCourtesy"];
    $mesto = $row["City"];
}
else {
    echo "<br><br>--- KONEC ---<br><br>";
}

?>
<form action="DatabaseZmenyDat.php" method="get">
    ID:<br>
    <input type="text" name="txtID" value="<?php echo $ID;?>"><br>
    Krestni:<br>
    <input type="text" name="txtKrestni"
        value="<?php echo $krestni;?>"><br>
    Prijmeni:<br>
    <input type="text" name="txtPrijmeni"
        value="<?php echo $prijmeni;?>"><br>
    Osloveni:<br>
    <input type="text" name="txtOsloveni"
        value="<?php echo $osloveni;?>"><br>
    Mesto:<br>
    <input type="text" name="txtMesto"
        value="<?php echo $mesto;?>"><br><br>
    <input type="submit" name="btnUpdate" value="Update">
    <input type="submit" name="btnNext" value="">>
    <input type="submit" name="btnReset" value="Reset">
</form>
</body>
</html>

```