W12 – PHP – Web Programming III

Connection to a Database - PDO

Introduction

- MYSQL (Original)
 - obsolete extension since PHP 5.5.0 and removed since PHP 7.0.0.
 - use mysqli extension or PDO_MySQL instead
- MYSQLI(Improve)
 - extension of the native mysql driver (mysqlnd)
- PDO (PHP Data Object)
 - standard Object interface (like JDBC API) to connect to mysql or other databases.
 - method will be presented during this course

Procédure connexion

- Initializing the connection
- load the query
- load the parameters
- execute the query with the parameters
- recover data in a slider
- close the cursor

Preparing SELECT / SELECT

```
$connectionDb = new
PD0('mysgl:host=127.0.0.1:3306;dbname=cla
$result = $connectionDb->prepare("select
$result->execute();
// 5 fetch data line by line
while ($line = $result->fetch()){
// echo line by line
echo $line['id'] . "<br />";
echo $line['firstName'] . "<br />";
$result->closeCursor():
```

```
$connectionDb = new
PD0('mysgl:host=127.0.0.1:3306;dbname=cla
$result = $connectionDb->prepare("select
$result->execute([4, 1]);
// 5 fetch data line by line
while ($line = $result->fetch()){
echo $line['id'] . "<br />";
echo $line['firstName'] . "<br />";
$result->closeCursor()
```

Adding Parameters

```
$result = $connectionDB->prepare("select * from studebt where id = ? and
ispresent = ?");
$result->execute([4, 1]);
```

```
$result = $connectionBd->prepare("select * from student where id = :studentId and
ispresent = :present");
$result->execute([
"studentId" => 4,
"present" => 1
]);
```

INSERT

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
<title>Title</title>
</head>
<body>
<form
action="insertData.php"
method="post">
   FirstName <input</pre>
type="text"
name="firstName" />
   <input type="submit"</pre>
value="OK" />
</form>
</body>
</html>
```

```
/test params
if(isset($ POST['firstName'])){
   $connectionDb = new
PD0('mysgl:host=127.0.0.1:3306;dbname=classe;ch
   $result = $connectionDb->prepare('insert
//add params to post
$result->execute(['firstName'=>
$ POST['firstName']]);
   //get last insert Id
   echo $connectionDb ->lastInsertId();
   $result->closeCursor();
   header("Location: index.php");
```

UPDATE / DELETE

• It's the same thing only the query will change

Stored Procedures

- Create procedures in mysql_worbench
- Use stored_procedure instead of select
- See documentation on PDO

```
$connectionDb = new
PDO('mysql:host=127.0.0.1:3306;dbname=classe;charset=utf8','root','abc123...' );

// 2 - prepare the query
$result = $connectionDb->prepare("CALL getAll()");

// 4 - execute the query and retrieve the cursor
$result->execute();

// 5 fetch data line by line
while ($line = $result->fetch()){
    // display data line by line
echo $line['id'] . "<br />";
echo $line['if'rstName'] . "<br />";
}
//close the cursor
$result->closeCursor();
```