Web Programming with The Laravel Framework

#6 - Connecting PHP with Database (MySQL)

Steven Lolong

`steven.lolong@uni-tuebingen.de`

**Programming Language Research Group
Tuebingen University**

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Requirements

1. MySQL server.
2. MySQL client. MySQL Workbench or PHP MyAdmin (web-based), or any MySQL's client.

SQL Syntax

Run the SQL syntax on MySQL client.

```sql
-- create scheme / database
CREATE SCHEMA `wpwlf` ;

-- create database
CREATE TABLE `wpwlf`.`user` (
  `iduser` INT NOT NULL AUTO_INCREMENT ,
  `surname` VARCHAR(255) NOT NULL ,
  `lasname` VARCHAR(255) NULL ,
  `loginid` VARCHAR(255) NOT NULL ,
  `password` VARCHAR(255) NULL ,
  PRIMARY KEY (`iduser`),
  UNIQUE INDEX `iduser_UNIQUE` (`iduser` ASC),
  UNIQUE INDEX `loginid_UNIQUE` (`loginid` ASC));
```

Listing: sql syntax – sql/sql_syntax.sql

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SQL Syntax

```
14
15  -- get data from table user
16  SELECT * FROM wpwlf.user
17
18  -- create a row in table
19  INSERT INTO `wpwlf`.`user` (`surname`, `lastname`, `loginid
        `, `password`) VALUES ('steven', 'lolong', 'steel', md5(
        '007'))
20
21  -- update row in table
22  UPDATE `wpwlf`.`user` SET `loginid` = 'steel_tu' WHERE (`
        iduser` = '1')
23
24  -- delete a row in table
25  DELETE FROM `wpwlf`.`user` WHERE (`iduser` = '1')
```

Listing: sql syntax – sql/sql_syntax.sql

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Construct a MySQL Client using PHP

1. connect to MySQL server
2. run sql syntax
3. get the result (optional)
4. close the connection

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Connect to MySQL server

```php
$servername = "localhost";
$scheme = "wpwlf";
$username = "root";
$password = "root";

// Create connection
$conn = new mysqli($servername, $username, $password,
    $scheme);

// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}
```

Listing: make a connection – connection.php

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Run MySQL syntax and get information

```php
include "./connection.php";

$sql = "SELECT * FROM wpwlf.user";

// run sql syntax and get information
```

Listing: run MySQL syntax – get_data.php

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Extract the Infortion (Result)

```php
19      <?php if($data->num_rows > 0){
20        while($row = $data->fetch_assoc()){
21        ?>
22        <tr>
23          <td><?php echo $row["loginid"]; ?></td>
24          <td><?php echo $row["surname"] . " " . $row["
      lastname"]; ?></td>
25          <td><?php echo $row["password"]; ?></td>
26        </tr>
27        <?php }
28      } ?>
```

Listing: extract information – get_data.php

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Close The Connection

Close the connection when you do not need it!

```php
32  <?php
33  $conn->close();
34  ?>
```

Listing: close the connection – get_data.php

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