Assignment help
PHP + MySQL crash course

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Assignment

- Implement a web application for movie management with a movie database as data storage and a web front-end on top of the Linux-Apache-MySQL-PHP (LAMP) web development platform.
- To be completed in groups of 3-5.
- Deploy solution.
  - See a TA in the lab to get a MySQL account for your group, or send an email.
- Demo your solution during the scheduled labs or send solution (URL + source) via email to a TA.
Connecting to MySQL from PHP

First, establishing a connection to MySQL

```php
<?php
$hostname = "linne.it.uu.se";
$username = "...";
$password = "...";
$connection = mysql_connect($hostname, $username, $password)
                or die("Could not open connection to database");
?>
```

- Now the variable `$connection` contains the information for your connection to MySQL. You can disconnect using:

```php
<?php
mysql_close($connection)
        or die("Could not close connection to database");
?>
```
Select a database, issue queries

- Once you have connected successfully, you should select the database you will use. Only then you can issue queries to the database.

```php
<?php
    mysql_select_db("your DB name", $connection)
    or die("Could not select database");
    $result = mysql_query(
        "select * from some_table" ); //NB: no ; at the end
    or die("Could not issue MySQL query");
?>
```

- Now the variable `$result` holds the query resultset.
Table of books

- We have the following table of books, called books:

<table>
<thead>
<tr>
<th>book_name</th>
<th>publish_year</th>
<th>price</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rädd att flyga</td>
<td>1975</td>
<td>174</td>
<td>5</td>
</tr>
<tr>
<td>SCUM Manifesto</td>
<td>1968</td>
<td>189</td>
<td>5</td>
</tr>
</tbody>
</table>

- How can we access this table from PHP?
After issuing a query, you retrieve the results using the variable $result. Retrieve one row at a time using mysql_fetch_assoc($result).

```php
<?php
$result = mysql_query(
    "select book_name, publish_year from books"");

if (mysql_num_rows($result) == 0) {
    print("<strong>No results matching your query</strong>" Untexed
} else {
    while ($row = mysql_fetch_assoc($result)) {
        $book_name    = $row["book_name"];  
        $publish_year = $row["publish_year"]; 
        print(  
            "Book name: $book_name, Publish year $publish_year
n" Untexed
        }
    }
?>
```
HTML forms and PHP variables

- Create a HTML form:

```html
<form action="add_book.php" method="POST">
  <input type="text" name="book_name">
  <input type="text" name="publish_year">
  <input type="submit" value="Add Book">
</form>
```

- Then, in `add_book.php`, access the submitted values:

```php
<?php
  $book_name    = $_POST["book_name"];
  $publish_year = $_POST["publish_year"];  
  print("You entered $book_name and $publish_year");
?>
```
Drop down list

- **Given the following table of book categories, called** *category*

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sci-Fi</td>
</tr>
<tr>
<td>2</td>
<td>Poesi</td>
</tr>
</tbody>
</table>

- **Create drop down list**

```php
<?php
$result = mysql_query("select id, name from category");
while($row = mysql_fetch_assoc($result)) {
    $id   = $row["id"];
    $name = $row["name"];
    print("<option value='$id'>$name</option>
    print("\n";)
}
?>
</select>

- **Selected value resides in** $_POST["category"]
Useful links

- PHP - http://php.net/docs.php
- Website development - http://www.w3schools.com/