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 using the Linux-Apache-MySQL-PHP (LAMP) web development framework
- To be completed in groups (3-5)
- Deploy solution
  - See TA in the lab to get a MySQL account for your group
- Demo your solution during the scheduled labs or send solution (URL + source) by email to TA by 2013-03-31
Connecting to MySQL from PHP

```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. 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"); // 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>Gone with the Wind</td>
<td>1936</td>
<td>174</td>
<td>5</td>
</tr>
<tr>
<td>To Kill a Mockingbird</td>
<td>1960</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("No results matching your query<br>
    ");
} else {
    print("The Books:<br />
    
    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<br>
        ");
    }

?>
```
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>\n");
}
?>
</select>
```

- Selected value available in `$_POST["category"]`
Useful links

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