COMS 469: Interactive Media II



Review

• Relational Databases

- MySQL

- PHP & MySQL



• Topic

- Files and Stored Data
 - Unix OS permissions
 - PHP facilities for working with files
 - Reading data from files
 - Writing data to files
- Content Management Example

Content Management Site





Content Management Site

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Next Step

- Replace .txt files with a Database
- Use MySQL for content management

Rationale

- Facilitate Sharing of Data
- Provide Data Independence
- Support Flexible Querying of Data
- Organize Data
- Secure Data
- Minimize Programming

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Content Management Site



PHP & MySQL

Process

- Introduction
 - Relational Database
 - SQL
 - MySQL
- Working with MySQL
 - phpMyAdmin
 - Creating MySQL database tables
- PHP and MySQL
 - PHP commands for manipulating MySQL databases
 - PHP and MySQL for content management

Relational Database

- Theorized in 1970 by
 Dr. E.F. Codd
- Way to organize
 information that allows for
 complex linking and
 relationships between data
- Standard method for database construction



SQL

- "Structured Query Language"
- An ANSI (American National Standards Institute) standard computer language for accessing and manipulating database systems.
 - SQL89 (1989) v.1
 - MySQL 5.7 current stable version

 Works with database programs like M\$-Access, DB2, Informix, M\$-SQL Server, Oracle, Sybase, and MySQL

• SQL Basic Concept

- A database contains one or more tables.

 Each table is identified by a name ("Customers" or "Orders") and contains records (rows) and columns of data.

LastName	FirstName	Address	City
Hansen	Ola	Timoteivn 10	Sandnes
Svendson	Tove	Borgvn 23	Sandnes
Pettersen	Kari	Storgt 20	Stavanger

This table is named "persons" and is made up of three records (rows) and four columns of data.

SQL Queries

 SQL is a syntax for executing queries. Queries ask for data from a table and return results

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'persons"	Svendson	Tove	Borgvn 23	Sandnes
percence	Pettersen	Kari	Storgt 20	Stavanger

Query

SELECT LastName FROM Persons

	LastName			
Results	Hansen			
I Coulo	Svendson			
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SQL Main Features

- *Query* the core language of SQL is designed to support database queries
- *DML* Data Manipulation Language; a syntax to update, insert, and delete records from a database.
- *DDL* Data Definition Language; part of SQL that permits database tables to be created or deleted.

- MySQL
 - Open Source SQL
 - Works with a number of Application
 Programming Interfaces (API's) Perl, Java,
 C++, and PHP

– PHP

- The most common MySQL API strong integration between PHP and MySQL
- PHP contains a library of commands that can manipulate the MySQL query language and Data Manipulation Language (DML)
- Translation: You can use PHP to query, obtain results from, and read/write to MySQL databases



www.mysql.com

- User Interface to MySQL
 - MySQL monitor
 - Command line user interface
 - Requires access to the Unix/Linux shell
 - phpMyAdmin*
 - GUI written in PHP
 - Provides more intuitive method of interacting with the MySQL program and your database tables
 - Also allows for command line, should you want to use it

MySQL Monitor

MySQL on db.finance (3.23.47-max-log) up 79+08:23:44 [15:37:21] Queries Total: 2,068,312,373 Avg/Sec: 301.69 Now/Sec: 242.04 Slow: 798 Threads Total: 45 Active: 5 Cached: 0 Key Efficiency: 99.85% Bytes in: 3,713,492,213 Bytes out: 1,006,022,300

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phpMyAdmin

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Overview

- We will not cover every aspect of MySQL; database creation and management is a course in its own right.
- We will only address what we need for working with PHP
 - Creation of MySQL database tables with phpMyAdmin
 - PHP functions to manipulate MySQL data

Overview

Accessing phpMyAdmin
 <u>http://10.159.9.155/phpmyadmin</u>



Selecting a Database

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Selecting a Database - Results

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Creating a table

- Right now your database is empty
- MySQL databases are populated with tables
- Create a table called *products* that contains the following four fields:
 - product_name
 - product_number
 - product_price
 - product_description

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MySQL Data Types

Category	Data Type	Description
	BLOB	Binary file with a max length of 65,535 bytes.
Binary	TINYBLOB	Binary file with a max length of 255 bytes
Files	MEDIUMBLOB	Binary file with a max length of 16,777,215 bytes
	LONGBLOB	Binary file with a max length of 4,294,967,295 bytes
	CHAR(length)	A fixed-length field from 0 to 255 characters long.
	VARCHAR(length)	A fixed-length field from 0 to 255 characters long.
Text	TEXT	A string with a maximum length of 65,535 characters
ICAL	TINYTEXT	A string with a maximum length of 255 characters
	MEDIUMTEXT	A string with a maximum length of 16,777,215 characters
	LONGTEXT	A string with a maximum length of 4,294,967,295 characters
	INT	Range of -2,147,483,648 to 2,147,483,648 or 0 to 4,294,967,295, if UNSIGNED
	TINYINT	Range of -128 to 127 or 0 to 255, if UNSIGNED
	SMALLINT	Range of -32,768 to 32,767 or 0 to 65,535, if UNSIGNED
	MEDIUMINT	Range of -8,388,608 to 8,388,607 or 0 to 16,777,215, if UNSIGNED
Numbers	BIGINT	Range of -9,223,372,036,854,755,808 to 9,223,372,036,854,755,807 or
		0 to 18,446,744, 073,709,551,615, if UNSIGNED
	FLOAT	A small number with a floating decimal point.
	DOUBLE(length,decimals)	A large number with a floating decimal point.
	DECIMAL(length, decimals)	A DOUBLE stored as a string, allowing for a fixed decimal point.
	DATE	A date in year-month-day form (i.e. 2004-04-14)
	TIME	A time in hour-minute-second form (i.e. 09:30:00)
Date	TIMESTAMP	A date in the year-month-day hour-minute-second form (i.e. 20040414093000).
	DATETIME	Same as TIMESTAMP except the format is 2004-04-14 09:30:00
	YEAR	A year represented by four figures (i.e. 2004)
	ENUM	Short for enumeration, which means that each column can have one of several
D.C		possible values.
IVIISC.	SET	Like ENUM except that each column can have more then one of several possible
		values.

MySQL Data Types

CategoryData TypeDescriptionBLOBBinary file with a max length of 65,535 bytes.BinaryTIN YBLOBBinary file with a max length of 255 bytesFilesMEDIUMBLOBBinary file with a max length of 16,777,215 bytesLONGBLOBBinary file with a max length of 4,294,967,295 bytesCHAR(length)A fixed-length field from 0 to 255 characters long							
Guidelines for Selecting Data Types - Use BLOB for data you do not need to access or manipulate using SQL - Use the appropriate date and time data types to display date and time data							
 Select the proper numeric type for numbers For very large or very small amounts, use DOUBLE For whole numbers, use SMALLINT or INT For other kinds of numbers, use DECIMAL Select the proper text type for strings For names and other small strings, use CHAR or VARCHAR 							
CHAR will always be the length of the column, using spaces to pad a string that is too short; VARCHAR will only be as long as the string - For longer strings, use TEXT or MEDIUMTEXT							
	tegory Binary Files Guid - Use - Use - Sele -	tegory Data Type BLOB BLOB Binary TINYBLOB Files MEDIUMBLOB LONGBLOB CHAR (Longth) Guidelines for Sele - Use BLOB for data y - Use BLOB for data y - Use the appropriate of - Select the proper num - For very large or - For other kinds of - For other kinds of - Select the proper text of - For names and of CHAR will always be VARCHAR will only - For longer string - For longer string	tegory Data Type Description BLOB Binary file with a max length of 65,535 bytes. Binary TINYBLOB Binary file with a max length of 255 bytes Binary file with a max length of 16,777,215 bytes LONGBLOB Binary file with a max length of 4,294,967,295 bytes CHAR(knoth) A fived length field from 0 to 255 characters long Guidelines for Selecting Data Types - - Use BLOB for data you do not need to access or manipulate using SQL - - Use the appropriate date and time data types to display date and time data - - Select the proper numeric type for numbers - - For very large or very small amounts, use DOUBLE - - For other kinds of numbers, use DECIMAL - -Select the proper text type for strings - - For names and other small strings, use CHAR or VARCHAR CHAR will always be the length of the column, using spaces to pad a string that is too short; VARCHAR will only be as long as the string - For longer strings, use TEXT or MEDIUMTEXT				

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	YEAR	A year represented by four figures (i.e. 2004)					
Mine	ENUM	Short for enumeration, which means that each column can have one of several possible values.					
MISC.	SET	Like ENUM except that each column can have more then one of several possible values.					

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product_number					
product_price	19	CODA	~~~		
product_description					

Field Name	Category	Data Type	Length	Attributes	Other
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product_number	number				
product_price	number	KORA DA	~~		
product_description	text				

Field Name	Category	Data Type	Length	Attributes	Other
product_name	text	VARCHAR			
product_number	number	INT		8	
product_price	number	DOUBLE	~~~		
product_description	text	TEXT			

Field Name	Category	Data Type	Length	Attributes	Other
product_name	text	VARCHAR	60		
product_number	number	INT	8		
product_price	number	DOUBLE	5,2		
product_description	text	TEXT			

Field Name	Category	Data Type	Length	Attributes	Other
product_name	text	VARCHAR	60		
product_number	number	INT	8	UNSIGNED	
product_price	number	DOUBLE	5,2	UNSIGNED	
product_description	text	TEXT			

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product_price	number	DOUBLE	5,2	UNSIGNED	Not Null No Default
product_description	text	TEXT			Not Null No Default


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Working with MySQL

Next step

 Now that we have a database table, we need to create some PHP documents that insert data into the table and present this data to the user.

– Process

- Write an administrator page that permits one to insert data into the *products* table
- Write a user page that permits visitors to your site to view the information contained in the *products* table
- Goal = create a dynamic, database driven web site

Introduction

- PHP includes a library of functions that provides an interface to MySQL
- By using these functions, you can access and modify data residing in a MySQL database
- Typical operations
 - Open a connection to the MySQL server
 - Specify the database to be accessed
 - Issue SQL queries, access query results, and perform non-SQL operations
 - Close the connection to the MySQL server

PHP & MySQL Connecting to the MySQL server

mysql_connect ("hostname", "username", "password")

• Connection function usually includes a die statements to handle errors and assigns the results to a variable

\$dbh = mysql_connect ("localhost", "jstalin", "01145612");
if (!\$dbh)

die ("Failed to open the database.");

Note: the values for *hostname*, *username*, and *password* are set by your server administrator.

- Selecting the Database
 - Once the program has obtained a connection to the MySQL server, it needs to be told what database to use
 - mysql_select_db() function

mysql_select_db ("database")

– Test the result of this function by using:

```
$ok = mysql_select_db ("jstalin");
if (!ok)
```

die ("Unable to access database jstalin.");

- Error Checking
 - PHP's MySQL library provides two errorchecking functions
 - mysql_errno() returns a numeric code for the error
 - mysql_error() returns a string explaining the error
 - Modify database select script to report errors

```
mysql_select_db ("jstalin");
if (mysql_errno())
```

die("
". mysql_errno(). ": " . mysql_error() . "
");

1044: Access denied for user: 'jstalin@localhost' to database 'jstalin'

PHP & MySQL Closing the MySQL Server Connection - PHP automatically closes open database connections when a script terminates. However, it's not a bad idea to close your connections when you're done with them - mysql_close()

```
mysql_close();
if (mysql_errno())
{
    die("<br>". mysql_errno(). ": ". mysql_error(). "<br>");
```

Queries

– "Query" = accessing & manipulating data

– mysql_query() function

- PHP issues queries to the MySQL server by using the mysql_query(query) function
- Where *query* is a string that describes the query to be executed (usually includes MySQL commands)
- There are two kinds of SQL queries:
 - SELECT
 - UPDATE, INSERT & DELETE

Queries

- INSERT
 - Use to insert data into our table
 - Permit the site administrator to add content

– SELECT

- Use to extract data from the database and to present it to the site visitor
- Permit users to access dynamically generated web content

INSERT

– "INSERT INTO tablename (fieldnames) VALUES ("\$variables")";

– Example with Error checking:

SELECT

- SELECT queries return table rows as results
- The table rows are contained in a data structure called a *resultset*
- Processing the resultset returned by a SELECT query involves iterating over the rows of the resultset.

Iteration

- There are at least two methods for iterating over the rows of a resultset
 - 1) Method one obtains the number of rows and then uses a **for** statement to iterate through the rows of the resultset
 - 2) Method two uses a while statement instead of a for statement. This is a better approach, because you do not have to determine the number of rows.

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```
$query = "SELECT product_name, product_number, product_price,
                 product_description FROM products";
$result = mysql_query($query);
```

```
if (mysql_errno())
  Ł
```

3

```
die("<br>" . mysql_errno( ). ": " . mysql_error( ) . "<br>");
```

```
$num = mysql_num_rows($result);
```

```
for ($i=0; $i<$num; $i++)</pre>
  £
```

```
$row = mysql_fetch_rows($results)
if (mysgl errno())
```

```
{
 die("<br>" : mysql_errno( ): ": " : mysql_error( ) : "<br>");
```

//display the resultset rows here

🚺 Untitled - Notepad	
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<pre>\$query = "SELECT product_name, product_number, product_price,</pre>	4
<pre>if (mysql_errno()) { die(" >" . mysql_errno(). ": " . mysql_error() . " >"); }</pre>	
<pre>\$num = mysql_num_rows(\$result); Obtain the number of rows in the using the mysql num rows() full </pre>	table by nction.
<pre>for (\$i=0; \$i<\$num; \$i++) { \$row = mysql_fetch_rows(\$results) if (mysql_errno()) { die(" >" . mysql_errno(). ": " . mysql_error() . " >") } //display the resultset rows here</pre>	:
}	

📁 Untitled - Notepad	
File Edit Format View Help	
<pre>\$query = "SELECT product_ product_ \$result = mysql_query(\$qu if (mysql_errno()) { die(" " . mysql_en } \$num = mysql_num_rows(\$re</pre>	Iterate through the array \$row . The array is created by the mysql_fetch_rows() function, which returns an array with a numeric key. Iterate through the array by using a for statement. The limit of the iteration is set by the number of rows or \$num .
<pre>for (\$i=0; \$i<\$num; \$i+ { \$row = mysql_fetch_ro if (mysql_errno()) { die(" >" . mysq } </pre>	+) ows(\$results) d_errno(). ": " . mysql_error() . " ");
<pre>//display the resultset</pre>	rows here
3	

📕 Untitled - Notepad



```
File Edit Format View Help
$query = "SELECT product_name, product_number, product_price,
                 product_description FROM products";
$result = mysql_query($query);
if (mysql_errno())
  {
    die("<br>" . mysql_errno( ). ": " . mysql_error( ) . "<br>");
  }
while ($row = mysql_fetch_row($result))
  ł
    if (mysql_errno())
     ł
       die("<br>" . mysql_errno( ). ": " . mysql_error( ) . "<br>");
     3
 //display the resultset rows here
 |}
```

📕 Untitled - Notepad	
File Edit Format View Help	
<pre>\$query = "SELECT product_ product_ \$result = mysql_query(\$qu</pre>	name, product_number, product_price, description FROM products"; ery);
if (mysql_errno()) { die(" " . mysql_er }	rno().":".mysql_error()." ");
<pre>while (\$row = mysql_fetch { if (mysql_errno()) { die(" " . mysql } //display the resultset }</pre>	<pre>_row(\$result)) _errno(). ": " _ mysql_error() . " >"); Replace the for statement with a while statement. This statement also iterates through the table rows and creates an array by using the mysql_fetch_row() function. But unlike for statement, a while statement does not require that you firs obtain the number of rows.</pre>

Next Step

- Once you iterate through the rows of the resultset, then you have to display them
- Displaying the results
 - foreach statement = simple formatting of content that displays the content of each column for each row
 - More complex formatting can be accomplished by accessing individual elements of the array **\$row**

Method #2 – Displaying the resultset (simple)

🚺 Untitled - Notepad	
File Edit Format View Help	
<pre>\$query = "SELECT product_name, product_ product_description FI \$result = mysql_query(\$query);</pre>	_number, product_price, 🔺 ROM products";
if (mysql_errno()) { die(" " . mysql_errno(). ": " }	. mysql_error() . " ");
<pre>while (\$row = mysql_fetch_row(\$result) { if (mysql_errno()) { die(" >" . mysql_errno(). ": } </pre>) " . mysql_error() . " ");
foreach (\$row as \$column) { echo " \$column"; } echo " ";	Use a foreach statement to
	display the content (column) of each row in the resultset.

Method #2 – Displaying the resultset (v.1)

📕 Untitled - Notepad				
File Edit Format View Help				
<pre>\$query = "SELECT product_name,</pre>	product_nu iption FROM	umber, product_price, f products";		
if (mysql_errno())				
' die(" " . mysql_errr <mark>⊯wid</mark> }	<mark>ets International - Mozilla</mark> Edit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u>	ools <u>Window H</u> elp		
while (\$row = mysql_fetch_r) () () Wi	http://www.comm1.niu.edu:8080/gunkel/version2/product3.php		
li (mysql_errno()) { die(" >" . mysql_ε	News Products Links Home	Products		
foreach (\$row as \$colum { echo " \$column";	Admin	SuperMega Widget 201 56.95 This is the larger, heavier version of our standard Widge Mass Deception, or WMD. It is manufactured to precise specifications supplied by ISO 4001. It is big, it is cumbersome, and it is extremely superfluous.	ət of	
echo " ; }		Widget 101 34.50 This is the original Widget of Maximum Dementia, or WM is fully functional and fun to own.	D. It	
	9 9 0 02 Done	© 2004 Widgets International	-11-	•

Method #2 – Displaying the resultset (v.2)

🚺 Untitled - Notepad	
File Edit Format View Help	
<pre>\$query = "SELECT product_name, product_number, pro product_description_FROM_product;</pre>	oduct_price,
<pre>\$result = mysql_query(\$query);</pre>	Display the results in table form.
if (mysql_errno())	Create a table by echoing HTML tags
ر die(" " . mysql_errno(). ": " . mysql_erro	and fill the table cells by using echo
$\int dx = \int dx = \frac{1}{2} \int dx = \frac{1}{$	statements that access the values of
{	individual array elements by indicating
1f (mysql_errno()) {	the array name and the key.
die(" " . mysql_errno(). ": " . mysql_e }	
echo " <table align="left" cellspacing:<="" td="" width="90%"><td>='7' cellpadding='5'>";</td></table>	='7' cellpadding='5'>";
<pre>while (\$row = mysql_fetch_row(\$result)) if (mysql_errno())</pre>	
{ die(" " . mysql_errno(). ": " . mysql_erro }	or(). " ");
else	
<pre>i echo "\$row[1] - "; echo "\$row[0]"; echo " >\$row[3]"; echo "\\$\$row[2]</pre>]
} echo "";	
	transfer and the second s

Method #2 – Displaying the resultset (v.2)



• Exercise

- Content Management with MySQL database
 - Replace the text files with a MySQL table
 - Use the *products* table
- Write two pages
 - <u>Administrator side</u> addproduct.php
 - Use INSERT to add data to the *products* database table
 - "Write" information to the database
 - <u>User side</u> products.php
 - Use SELECT to present data from the *products* table
 - "Read" information from the database

```
calendar.html 🛛 🔚 calendar.html 🖾 🔚 addproduct.php 🖾 🔚 product.php 🔀
     <?php
  2
     if (empty($_COOKIE['username']))
         echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
         return false;
     $product_name = $_POST['product_name'];
     $product number = $_POST['product_number'];
  8
     $product price = $ POST['product price'];
 9
     $product description = $ POST['product description'];
 10
 11
     $beensubmitted = $ POST['beensubmitted'];
 12
 13
     include "adminheader.inc";
     echo "<h2>Add a Product</h2><hr>";
 14
     function handleform()
 15
 16
 17
         global $product_name, $product_number, $product_price, $product_description;
 18
         $dbh=mysql connect ("localhost", "jstalin", "01570367");
 19
         if (!$dbh)
 20
         {
 21
            die ("Failed to open the Database");
 22
 23
         mysql select db("jstalin");
 24
         if (mysql errno())
 25
 26
            die ("<br>" . mysql_errno().": ".mysql_error()."<br>");
 27
 28
         $query = "INSERT INTO products (product name, product number, product price, product description)
 29
                  VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
 30
         $result = mysql_query($query);
 31
         if (mysql errno())
 32
          1
 33
            die ("<br>" . mysql_errno().": ".mysql_error()."<br>");
 34
         1
 35
         else
 36
          1
 37
            echo "Database has been updated.";
 38
 39
 40
     if ($beensubmitted)
 41
       -{
 42
         handleform();
 43
 44
     2>
 45
     <form method="post" action="addproduct.php">
     <b>Product Name</b>
 46
 47
        <br><input type="text" name="product name">
 48
     <b>Product Number</b>
 49
         <br> <input type="text" name="product number">
     <b>Product Price</b>
 50
        <br>input type="text" name="product_price">
 51
     <b>Product Description</b>
 52
 53
        54 <br><input type="hidden" name="beensubmitted" value="TRUE">
     <input type="submit" name="submit" value="submit">
 55
 56
     </form>
     <?php include "footer.inc"; ?>
 57
```

```
🔚 calendar.html 🗵 🔚 calendar.html 🗵 🔚 addproduct.php 🗵 🔚 product.php 🗵
    <?php
    if (empty($_COOKIE['username']))
 3
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
 5
        return false;
 6
 7
    $product name = $ POST['product name'];
 8
    $product number = $ POST['product number'];
 9
    $product price = $ POST['product price'];
    $product_description = $_POST['product_description'];
10
    $beensubmitted = $ POST['beensubmitted'];
11
12
13 include "adminheader.inc";
    echo "<h2>Add a Product</h2><hr>";
14
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
18
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
19
        if (!$dbh)
20
21
           die ("Failed to open the Database");
22
23
        mysql select db("jstalin");
24
        if (mysql errno())
25
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
26
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
29
                  VALUES ('$product name', '$product number', '$product price', '$product description')";
30
        $result = mysql query($query);
31
        if (mysql errno())
32
         {
33
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
         1
35
        else
```

```
echo "Database has been updated.";
```

40 if (\$beensubmitted)

Ŧ I i

36 37

38 39

41 42

43 44 ?>

handleform();

57 <?php include "footer.inc"; ?>

```
if (empty($ COOKIE['username']))
       echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
       return false;
    $product name = $ POST['product name'];
 8
    $product number = $ POST['product number'];
    $product price = $ POST['product price'];
    $product description = $ POST['produ
10
                                       Since this is an administrator page, check to see that the
    $beensubmitted = $ POST['beensubmitt
11
12
                                       user has logged in successfully by checking whether the
13
    include "adminheader.inc";
    echo "<h2>Add a Product</h2><hr>";
14
                                        username of the cookie is empty or not. If it is empty,
15
    function handleform()
16
                                       then echo an error statement and exit the script. If it is not
17
       global $product name, $product n
                                       empty, then the script continues. This is the same script
18
       $dbh=mysql connect ("localhost"
19
       if (!$dbh)
                                       used in the previous example.
20
21
          die ("Failed to open the Dat
22
23
       mysql select db("jstalin");
24
       if (mysql errno())
25
26
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        $query = "INSERT INTO products (product name, product number, product price, product description)
28
29
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
30
        $result = mysql query($query);
       if (mysql errno())
31
32
33
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
35
       else
36
37
          echo "Database has been updated.";
40
    if ($beensubmitted)
41
42
       handleform();
43
44
```

```
<?php
    if (empty($ COOKIE['username']))
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
        return false;
                                                              Initialize the variables for the script.
    $product name = $ POST['product name'];
                                                              There are 5 variables and each one refers
    $product number = $ POST['product number'];
 8
    $product price = $ POST['product price'];
 9
                                                              to one of the form input fields at the
10
    $product description = $ POST['product description'];
    $beensubmitted = $ POST['beensubmitted'];
11
                                                              bottom of the page.
12
    include "adminheader.inc";
13
    echo "<h2>Add a Product</h2><hr>";
14
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
18
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
19
        if (!$dbh)
20
21
           die ("Failed to open the Database");
22
23
        mysql select db("jstalin");
24
        if (mysql errno())
25
26
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
29
30
        $result = mysql query($query);
        if (mysql errno())
31
32
33
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
35
        else
36
37
           echo "Database has been updated.";
38
39
40
    if ($beensubmitted)
41
42
        handleform();
43
44
    2>
```

```
<?php
    if (empty($ COOKIE['username']))
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
        return false;
    $product name = $ POST['product name'];
    $product number = $ POST['product number'];
 8
 9
    $product price = $ POST['product price'];
    $product description = $ POST['product de
10
                                              Use the adminheader.inc
    $beensubmitted = $ POST['beensubmitted'];
11
12
                                              Echo an html string to create the page heading.
    include "adminheader.inc";
13
14
    echo "<h2>Add a Product</h2><hr>"
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
18
19
        if (!$dbh)
20
21
           die ("Failed to open the Database");
22
23
        mysql select db("jstalin");
24
        if (mysql errno())
25
26
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
29
30
        $result = mysql query($query);
        if (mysql errno())
31
32
33
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
35
        else
36
37
           echo "Database has been updated.";
38
39
40
    if ($beensubmitted)
41
42
        handleform();
43
44
    2>
```

```
<?php
    if (empty($ COOKIE['username']))
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
 5
        return false;
    $product name = $ POST['product name'];
    $product number = $ POST['product number'];
 8
 9
    $product price = $ POST['product price'];
                                                               Declare a function called handlform()
    $product description = $ POST['product description'];
10
    $beensubmitted = $_POST['beensubmitted'];
11
                                                                Set the variables to global
12
13 include "adminheader.inc";
14
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
18
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
19
        if (!$dbh)
20
21
           die ("Failed to open the Database");
22
23
        mysql select db("jstalin");
24
        if (mysql errno())
25
26
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
29
30
        $result = mysql query($query);
        if (mysql errno())
31
32
33
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
35
        else
36
           echo "Database has been updated.";
37
38
39
40
    if ($beensubmitted)
41
42
        handleform();
43
44
   2>
```
```
<?php
    if (empty($ COOKIE['username']))
       echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
       return false;
    $product name = $ POST['product name'];
    $product number = $ POST['product number'];
 8
    $product price = $ POST['product price'];
    $product description = $ POST['product description'];
    $beensubmitted = $ POST['beensubmitted'];
11
12
    include "adminheader.inc";
13
    echo "<h2>Add a Product</h2><hr>";
14
                                                                  Connect to the MySQL server by using
    function handleform()
15
                                                                  the mysql_connect() function.
16
       global $product name, $product number, $product price, $prod
17
18
       $dbh=mysql connect ("localhost", "jstalin", "01570367");
                                                                  This function will take three arguments:
19
       if (!$dbh)
20
                                                                     "localhost", "username," "password"
21
          die ("Failed to open the Database");
22
                                                                  Use a conditional to test whether the
23
        mysqi select du ( jatalin
                                                                  connection to the database succeeded or
24
       if (mysql errno())
25
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
                                                                  not. If not, use the die () function.
26
27
       Squery = "INSERT INTO products (product name, product number, product price, product description)
28
29
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
30
       $result = mysql query($query);
       if (mysql errno())
31
32
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
33
34
35
       else
36
37
          echo "Database has been updated.";
40
    if ($beensubmitted)
41
42
       handleform();
43
44
```

```
<?php
    if (empty($ COOKIE['username']))
       echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
       return false:
    $product name = $ POST['product name'];
    $product number = $ POST['product number'];
 8
    $product price = $ POST['product price'];
 9
    $product description = $ POST['product description'];
10
    $beensubmitted = $ POST['beensubmitted'];
11
12
   include "adminheader.inc";
13
    echo "<h2>Add a Product</h2><hr>";
14
    function handleform()
15
16
17
       global $product name, $product number, $product price, $produ
                                                                    Select the database by using the
18
       $dbh=mysql connect ("localhost", "jstalin", "01570367");
19
       if (!$dbh)
                                                                    mysql_select_db() function. Specify
20
21
          die ("Failed to open the Database");
                                                                    the database name (e.g. jstalin) as the
22
23
       mysql select db("jstalin");
                                                                    argument of the function.
24
       if (mysql errno())
25
                                                                    Include error checking by using
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
26
27
                                                                    mysql_errno() and mysql_error()
        Squery = "INSERT INTO products (product name, product number
28
29
                 VALUES ('$product name', '$product number', '$produ
                                                                    functions.
30
       $result = mysql query($query);
       if (mysql errno())
31
32
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
33
34
35
       else
36
37
          echo "Database has been updated.";
39
40
    if ($beensubmitted)
41
42
       handleform();
43
44
```

```
<?php
    if (empty($ COOKIE['username']))
       echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
       return false;
   $product name = $ POST['product name'];
   $product number = $ POST['product number'];
 8
   $product price = $ POS
                        Query the database. Here you are INSERTING the values
   $product description =
10
   $beensubmitted = $ POS
11
                        assigned to the variables $product_name, $product_number,
12
13
   include "adminheader.i
                        $product_price, and $product_description INTO the table
   echo "<h2>Add a Produc
14
   function handleform()
15
                        products under the field names product_name, product_number,
16
17
       global $product na
                        product_price, and product_description. Note: The sequence of
18
       $dbh=mysql connect
19
       if (!$dbh)
                        variables and field names is important.
20
21
         die ("Failed to
22
                        Assign the results of this query to a variable $query and use this
23
       mysql select db("
                        variable to check for errors and echo a status statement.
24
       if (mysql errno())
25
26
         die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
       $query = "INSERT INTO products (product name, product number, product price, product description)
28
29
                VALUES ('$product name', '$product number', '$product price', '$product description')";
30
       $result = mysql query($query);
       if (mysql errno())
31
32
         die ("<br>" . mysql errno().": ".mysql error()."<br>");
33
34
35
       else
36
37
         echo "Database has been updated.";
39
40
   if ($beensubmitted)
41
42
       handleform();
43
44
```

```
<?php
    if (empty($ COOKIE['username']))
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
        return false:
    $product name = $ POST['product name'];
    $product number = $ POST['product number'];
 8
    $product price = $ POST['product price'];
 9
    $product description = $ POST['product description'];
10
    $beensubmitted = $ POST['beensubmitted'];
11
12
13 include "adminheader.inc";
    echo "<h2>Add a Product</h2><hr>";
14
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
18
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
19
       if (!$dbh)
20
21
          die ("Failed to open the Database");
22
23
       mysql select db("jstalin");
24
        if (mysql errno())
25
26
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
29
30
        $result = mysql query($query);
        if (mysql errno())
31
32
          die ("<br>" . mysql errno().": ".mysql error()."<br>");
33
34
35
        else
36
                                 Use a conditional to test whether the form has been
37
          echo "Database has bee
38
                                 submitted. If the form has been submitted, then invoke the
40
    if ($beensubmitted)
                                 handleform() function and fire up the MySQL stuff above.
41
42
       handleform();
43
44
```

```
<?php
    if (empty($ COOKIE['username']))
 3
        echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
 5
        return false;
 6
 7
    $product name = $ POST['product name'];
 8
    $product number = $ POST['product number'];
 9
    $product price = $ POST['product price'];
    $product description = $_POST['product_description'];
10
    $beensubmitted = $_POST['beensubmitted'];
11
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
    function handleform()
15
16
17
        global $product name, $product number, $product price, $product description;
        $dbh=mysql connect ("localhost", "jstalin", "01570367");
18
19
        if (!$dbh)
20
21
           die ("Failed to open the Database");
22
         }
23
        mysql select db("jstalin");
24
        if (mysql errno())
25
26
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
27
        Squery = "INSERT INTO products (product name, product number, product price, product description)
28
                  VALUES ('$product name', '$product number', '$product price', '$product description')";
29
30
        $result = mysql query($query);
        if (mysql errno())
31
32
         {
33
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
34
         }
35
        else
36
         {
37
           echo "Database has been updated.";
38
39
40
    if ($beensubmitted)
41
42
        handleform();
43
44 ?>
```

	4.0	1	cale	andar.html 🖾 🔚 calendar.html 🖾 🔚 addproduct.php 🖄 🔚 product.php 🖄	"describerou)
	29		1	php</td <td>lescription')";</td>	lescription')";
8	20		2	if (empty(\$_COOKIE['username']))	
	50	1	3	4	
	31	1	4	echo "Access Denied - Return to Main Page ";	
	32		5	return false;	
			6	3	
	33		7	<pre>\$product_name = \$_POST['product_name'];</pre>	
	34		8	<pre>\$product_number = \$_POST['product_number'];</pre>	
11			9	<pre>\$product_price = \$_POST['product_price'];</pre>	
	35		10	<pre>\$product_description = \$_POST['product_description'];</pre>	
	36		11	<pre>\$beensubmitted = \$_POST['beensubmitted'];</pre>	
			12		
	31		13	include "adminheader.inc";	
	38		14	echo " <h2>Add a Product</h2> <hr/> ";	
	2.5	1	15	function handleform()	
	33	3	16	4	
	40	if (1	1/	global sproduct_name, sproduct_number, sproduct_price, sproduct_description;	
	11		18	<pre>sann=mysql_Connect ("localnost", "jstalln", "015/036/"); if (ight)</pre>	
	41	1	20		
	42	1	20	die ("Failed to open the Database").	
	6.2	1	22	une , raited to open one secondary //	
	44	1	23	myadl select db("istalin"):	
	44	?>	24	if (myagl errno())	
	45	< Form	25		
			26	<pre>die (" '' . mysql errno().": ".mysql error()." '');</pre>	
	46	<}	27		
	47	<1	28	\$query = "INSERT INTO products (product name, product number, product price, product description)	
		222	29	VALUES ('\$product name', '\$product number', '\$product price', '\$product description')";	
	48	<}	30	<pre>\$result = mysql_query(\$query);</pre>	
	49	<1	31	if (mysql_errno())	
		2.0	32	(
	50	<b< td=""><td>33</td><td><pre>die (" " . mysql_errno().": ".mysql_error()." ";</pre></td><td></td></b<>	33	<pre>die (" " . mysql_errno().": ".mysql_error()." ";</pre>	
	51	<1	34	Y and a second se	
	2.0		35	else	
	04	~p~r	36		
	53	<1	37	echo "Database has been updated.";	
	EA	chro	38	3	
	94	CDT.	39		
1	55	<;	40	11 (\$beensubmitted)	
	56	<td>41</td> <td></td> <td></td>	41		
5			42	handleform(),	
	57	php</td <td>44</td> <td>25</td> <td></td>	44	25	
1	Correct States	101200	45	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	
	and the second		46	Product Name	
19151	avera Di	湖田	47	<pre> > input type="text" name="product name"></pre>	
	古田		48	Product Number	
	11	i - 200 Victor	49	<pre> > <input name="product number" type="text"/></pre>	
	the state	10121	50	Product Price	
1 + 2			51	<pre> <input neme="product_price" type="text"/></pre>	
100	1	Barrier Con	52	Product Description	
0.	T-Feler	1995	53	<pre></pre>	
	単語	202212	54	<pre><input name="beensubmitted" type="hidden" value="TRUE"/></pre>	
E S	1	管制	55	<input name="submit" type="submit" value="submit"/>	
100	A STATISTICS	111	56		
	U III AA	NAN INFO	57	php include "footer.inc"; ?	

ER

```
28
        $query = "INSERT INTO products (product name, product number, product price, product description)
29
                  VALUES ('$product name', '$product number', '$product price', '$product description')";
        $result = mysql query($query);
30
31
        if (mysql errno())
32
           die ("<br>" . mysql errno().": ".mysql error()."<br>");
33
34
35
        else
36
           echo "Database has been updated.";
37
38
39
40
    if ($beensubmitted)
41
42
        handleform();
43
44
    22
    <form method="post" action="addproduct.php">
45
    <b>Product Name</b>
46
       <br><input type="text" name="product name">
47
48
    <b>Product Number</b>
       <br>input type="text" name="product number">
49
50
    <b>Product Price</b>
       <br >> input type="text" name="product price">> /p>
51
52
    <b>Product Description</b>
       <br><textarea name="product description" rows="8" cols="70"> </textarea>
53
54
    <br >< input type="hidden" name="beensubmitted" value="TRUE">
    <input type="submit" name="submit" value="submit">
55
5.6
   </form>
    <?php include "footer.inc"; ?>
57
```

```
28
        $query = "INSERT INTO products (product name, product number, product price, product description)
                 VALUES ('$product name', '$product number', '$product price', '$product description')";
29
        $result = mysql query($query);
30
        if (mysql errno())
31
                          A standard HTML form with three type=text input fields for
32
                          product_name, product_number, and product_price and one
          die ("<br>" . m
33
34
                          textarea for the product_description.
35
        else
36
                          The form's action is assigned to addproduct.php, meaning
          echo "Database
37
                          that the page processes itself.
38
39
                          Also include one hidden input to indicate whether the form has
    if ($beensubmitted)
40
41
                          beensubmitted
42
        handleform();
43
44
    <form method="post" action="addproduct.php">
45
46
    <b>Product Name</b>
       <br >> input type="text" name="product name">> /p>
47
48
    <b>Product Number</b>
       <br>input type="text" name="product number">
49
    <b>Product Price</b>
50
       <br><input type="text" name="product price">
51
52
    <b>Product Description</b>
       <br><textarea name="product description" rows="8" cols="70"> </textarea>
53
    <br><input type="hidden" name="beensubmitted" value="TRUE">
54
    <input type="submit" name="submit" value="submit">
55
5.6
    </form>
    <?php include "footer.inc"; ?>
57
```

```
28
        $query = "INSERT INTO products (product name, product number, product price, product description)
                  VALUES ('$product name', '$product number', '$product price', '$product description')";
29
        $result = mysql query($query);
30
        if (mysql errno())
31
32
           die ("<br>>" . mysql errno().": ".mysql error()."<br>>");
33
34
35
        else
36
           echo "Database has been updated.";
37
38
39
    if ($beensubmitted)
40
41
42
        handleform();
43
44
    22
    <form method="post" action="addproduct.php">
45
    <b>Product Name</b>
46
       <br><input type="text" name="product name">
47
48
    <b>Product Number</b>
       <br>input type="text" name="product number">
49
50
    <b>Product Price</b>
       <br >> input type="text" name="product price">> /p>
51
52
    <b>Product Description</b>
       <br/>textarea name="product description" rows="8" cols="70"> </textarea>
53
    <br><input type="hidden" name="beens
54
                                         End the page by including the footer.inc from the
    <input type="submit" name="submit"
55
                                         previous example.
5.6
    </form>
    <?php include "footer.inc"; ?>
57
```



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	Show : Start row: 0 Number of rows: 30 Headers every 100 rows										
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and version and the standard standards

```
🔚 calendar.html 🛛 🔚 calendar.html 🗶 🔚 addproduct.php 🔀 🔚 product.php 🔀
    <?php
 1
    include "header.inc";
 2
    echo "<h2>Products</h2><hr>";
 3
    $dbh=mysql connect ("localhost", "jstalin", "01570367");
 4
 5
     if (!$dbh)
 6
        die ("Failed to open the Database");
 7
 8
 9
     mysql select db("jstalin");
10
     if (mysql errno())
11
        die ("<br>" . mysql errno().": ".mysql error()."<br>");
12
13
14
     Squery = "SELECT product name, product number, product price, product description
15
              FROM products" ;
     $result = mysql query($query);
16
     if (mysql errno())
17
18
      {
       die("<br>>" . mysql errno(). ": " . mysql error() . "<br>>");
19
20
     echo "";
21
22
     while ($row = mysql fetch row($result))
23
     if (mysql errno())
24
       die("<br>". mysql errno(). ": ". mysql error(). "<br>");
25
26
27
     else
28
       echo "<b>$row[1] - ";
29
       echo "$row[0]</b>";
30
       echo "<br>$row[3]";
31
       echo "\$$row[2]";
32
33
     echo "";
34
     include "footer.inc";
35
36
    ?>
```

```
🔄 calendar.html 🔀 🔚 calendar.html 🔀 🔚 addproduct.php 🔀 🔚 product.php 🔀
    <?php
   include "header.inc";
 2
                                     Since this is not an administrator page, use the
    echo "<h2>Products</h2><hr>";
                                     header.inc to create the page header and use an
    Sdbh=mysql connect ("localhost
     if (!$dbh)
 5
                                     echo statement to provide a page title.
 6
        die ("Failed to open the Database");
 7
 8
 9
     mysql select db("jstalin");
10
     if (mysql errno())
11
        die ("<br>" . mysql errno().": ".mysql error()."<br>");
12
13
14
     Squery = "SELECT product name, product number, product price, product description
              FROM products" ;
15
     $result = mysql query($query);
16
17
     if (mysql errno())
18
       die("<br>>" . mysql errno(). ": " . mysql error() . "<br>>");
19
20
     echo "";
21
     while ($row = mysql fetch row($result))
22
23
     if (mysql errno())
24
       die("<br>". mysql errno(). ": ". mysql error(). "<br>");
25
26
27
     else
28
       echo "<b>$row[1] - ";
29
       echo "$row[0]</b>";
30
       echo "<br>$row[3]";
31
       echo "\$$row[2]";
32
33
     echo "";
34
    include "footer.inc";
35
36
    ?>
37
```

```
🔚 calendar.html 🔀 🔚 calendar.html 🔀 🔚 addproduct.php 🔀 🔚 product.php 🔀
    <?php
    include "header.inc";
 2
   echo "<h2>Products</h2><hr>";
 3
    $dbh=mysql connect ("localhost", "jstalin", "01570367");
 4
     if (!$dbh)
 5
                                                               Connect to the MySQL
 6
                                                               server and the database by
        die ("Failed to open the Database");
 7
 8
                                                               using the same script that
     mysql select db("jstalin");
 9
                                                               was used on the previous
10
     if (mysql errno())
11
                                                               page.
        die ("<br>" . mysql errno().": ".mysql error()."<br>");
12
13
14
     Squery = "SELECT product name, product number, product price, product description
15
              FROM products" ;
     $result = mysql query($query);
16
17
     if (mysql errno())
18
       die("<br>>" . mysql errno(). ": " . mysql error() . "<br>>");
19
20
     echo "";
21
     while ($row = mysql fetch row($result))
22
23
     if (mysql errno())
24
       die("<br>". mysql errno(). ": ". mysql error(). "<br>");
25
26
27
     else
28
29
       echo "<b>$row[1] - ";
       echo "$row[0]</b>";
30
       echo "<br>$row[3]";
31
       echo "\$$row[2]";
32
33
     echo "";
34
    include "footer.inc";
35
36
    2>
37
```



<?ph

2

5

7

8

9

10

11 12

13

14 15

16

17 18

19 20

21 22

23 24

25 26 27

28

29

30

31

32 33 34

35 36

37

incl Process and display the resultset. Begin by creating the basic parameters echo of a table by using an echo statement. \$dbl

if Then process the resultset by using a while statement. This statement takes the mysql_fetch_rows() function as an argument, which creates an array that is assigned to the name **\$row**. Include an error handling line in mys if(case the resultset cannot be processed.

If there is no error (else), then display the resultset. Do this by filling in the table cells with the elements of the **\$row** array. These are specified by indicating the name of the array and the key, which in this case is an Sre integer (i.e. **\$row**[0]).

```
die("<br>" . mysql errno( ). ": " . mysql error( ) . "<br>");
echo "";
while ($row = mysql fetch row($result))
if (mysql errno())
  die("<br>" . mysql errno(). ": " . mysql error() . "<br>");
else
  echo "<b>$row[1] - ";
  echo "$row[0]</b>";
  echo "<br>%row[3]";
  echo "\$$row[2]";
echo "";
include "footer.inc";
2>
```

```
🔚 calendar.html 🔀 🔚 calendar.html 🔀 🔚 addproduct.php 🔀 🔚 product.php 🔀
    <?php
    include "header.inc";
 2
    echo "<h2>Products</h2><hr>";
 3
     $dbh=mysql connect ("localhost", "jstalin", "01570367");
 4
 5
     if (!$dbh)
 6
         die ("Failed to open the Database");
 7
 8
     mysql select db("jstalin");
 9
10
     if (mysql errno())
11
         die ("<br>" . mysql errno().": ".mysql error()."<br>");
12
13
14
     Squery = "SELECT product name, product number, product price, product description
15
              FROM products" ;
16
     $result = mysql query($query);
     if (mysql errno())
17
18
        die("<br>>" . mysql errno(). ": " . mysql error() . "<br>>");
19
20
     echo "";
21
22
     while ($row = mysql fetch row($result))
23
     if (mysql errno())
24
        die("<br>" . mysql errno( ). ": " . mysql error( ) . "<br>");
25
26
27
     else
28
29
        echo "<b>$row[1] - ";
        echo "$row[0]</b>";
30
        echo "<br>%row[3]";
31
        echo "<td align='right'
32
                                End the script by closing the table and
33
     echo "";
34
                                including footer.inc
35
     include "footer.inc";
36
    2>
```

```
🔚 calendar.html 🔀 🔚 calendar.html 🗷 🔚 addproduct.php 🔀 🔚 product.php 🔀
    <?php
    include "header.inc";
 2
    echo "<h2>Products</h2><hr>";
 3
     $dbh=mysql connect ("localhost", "jstalin", "01570367");
 4
                                                                     products.php
 5
     if (!$dbh)
 6
        die ("Failed to open the Database");
 7
 8
 9
     mysql select db("jstalin");
10
     if (mysql errno())
11
        die ("<br>" . mysql errno().": ".mysql error()."<br>");
12
13
14
     Squery = "SELECT product name, product number, product price, product description
15
              FROM products" ;
     $result = mysql query($query);
16
17
     if (mysql errno())
18
       die("<br>>" . mysql errno(). ": " . mysql error() . "<br>>");
19
20
     echo "";
21
22
     while ($row = mysql fetch row($result))
23
     if (mysql errno())
24
       die("<br>". mysql errno(). ": ". mysql error(). "<br>");
25
26
27
     else
28
29
       echo "<b>$row[1] - ";
       echo "$row[0]</b>";
30
       echo "<br>$row[3]";
31
       echo "\$$row[2]";
32
33
     echo "";
34
     include "footer.inc";
35
36
    2>
37
```

Administrator Side



User Side



Content Management Site



Next Step

Process

1. Create two new database tables in MySQL

- news
- links
- 2. Revise both the user and admin pages
 - addnews.php
 - addurl.php
 - news.php
 - links.php



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| phpMuAdmin | 🔶 🗊 Server: localho | ost » 🧊 Database: ebarchus » | Table: news | | | | | ~ |
| | Browse M | Structure SQL | Search 📑 Insert | Export | 🗐 Import 🥜 Operations | Tracking | C Triggers | |
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⊕ products | Name | Туре 😡 | Length/Values 😡 | Default 😡 | Collation | Attributes | Null Index | <u>A</u> I C |
| Here information_schema | day | INT | 2 | None | • | | □ [| • |
| | month | VARCHAR | 20 | None | • | | □ [| • 「 |
| | year | | 4 | None | | UNSIGNED | □ [| • |
| | news_item | | | None | • | · | □ | • □ |
| | Table comments: | | Storage Engine | : 😡 Collati | ion: | | | |
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Expand PHP & MySQL SELECT, UPDATE, DELETE queries Provide more complete content management control (not just add data but also change and delete database data)

Preview

Homework

 Convert the content management example from text files to MySQL database tables

 Replace all text files with database tables

