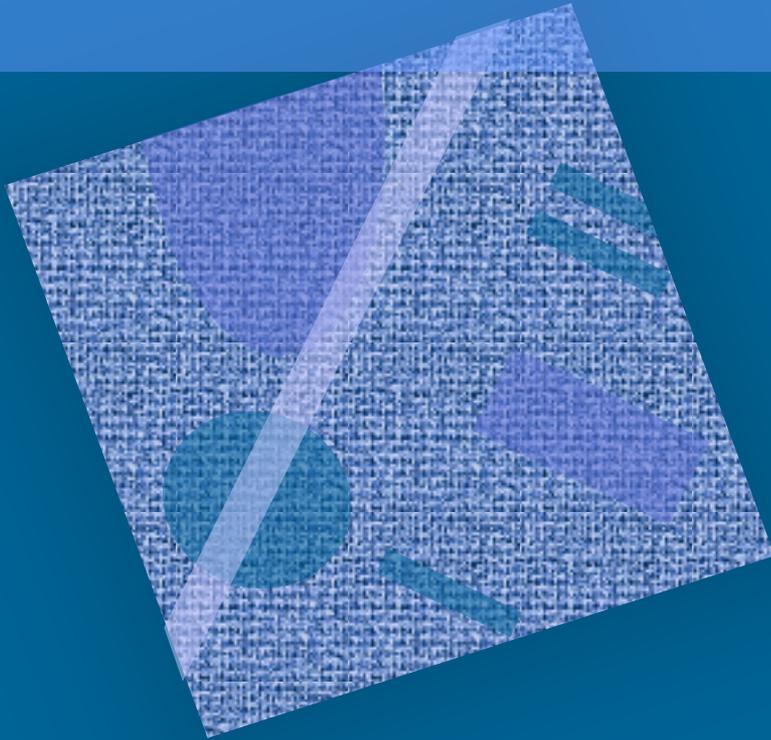


# COMS 469: Interactive Media II



# Agenda

- Review
- Content Management (cont.)
  - Replace all txt files with database tables
  - Expand PHP/MySQL
    - SELECT, UPDATE & DELETE queries
    - Permit full editorial control over content

# Review

- Topics
  - Relational Databases & MySQL
  - Using phpMyAdmin to creating MySQL database tables
  - Using PHP to access and manipulate MySQL database tables
    - Content management site
    - Replace text files with database tables

# Review

- SQL
  - Structured Query Language
  - Relational Data Base
  - Data Base contains one or more tables

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

- MySQL
  - Open Source SQL
  - Good integration with PHP

# Review

- User Interface to MySQL

```
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 s...
```

Id	User	Host	DB	Time	Cmd	Q
5827598	yahoo	proc2	IDX	0	Sleep	
5779323	fred	feed1	Fred	0	Sleep	
5779350	fred	feed1	Fred	0	Query s	
5829250	yahoo	museful	mysql	0	Query s	
5825442	yahoo	proc2	IDX	0	Sleep	
5826226	yahoo	proc3	IDX	0	Query S	
5825441	yahoo	proc4	IDX	1	Sleep	
5829234	root	localhost	MySQL_Admin	1	Sleep	
5779354	fred	feed1	Fred	9	Sleep	
4303469	yahoo	proc2	IDX	11	Sleep	
4286987	yahoo	biz5	IDX	14	Sleep	
5829245	yahoo	proc3	IDX	19	Sleep	
5829242	locker	proc4	Finance	19	Sleep	
5829246	yahoo	proc4	IDX	19	Sleep	
5829244	locker	proc3	Finance	19	Sleep	
5829240	locker	proc4	Finance	20	Sleep	

-- paused, press any key to resume --

MySQL Monitor

The screenshot shows the phpMyAdmin 2.11.0 interface in a Mozilla Firefox browser window. The page title is "localhost" and the URL is "http://www2.comm.niu.edu/phpMyAdmin/index.php?lang=en-utf-8&token=7278c45e". The interface is divided into several sections:

- Server Information:** Server version: 3.23.32, Protocol version: 10, Server: Localhost via UNIX socket, User: dgunkel@localhost.
- Database List:** A list of databases including db\_Bohn, avermedal, bholicek, cbirks, dbutler, dhealy, dvillacorta, ebesedova, ebrenessp07, gunkel, jbanister, jmarsh, knagorny, mchibe, mmichelkamp, mtailon, mysql, nizary, rchoveski, sfa, szizek, and tbukowski.
- Navigation:** Buttons for "Create new database", "Show MySQL runtime information", "Show MySQL system variables", "Processes", "Storage Engines", "Privileges", "Databases", "Export", "Import", and "Log out".
- Warning:** A yellow warning box states: "Your PHP MySQL library version 5.0.22 differs from your MySQL server version 3.23.32. This may cause unpredictable behavior."
- Footer:** "Please select a database" and "Open new phpMyAdmin window" button.

phpMyAdmin

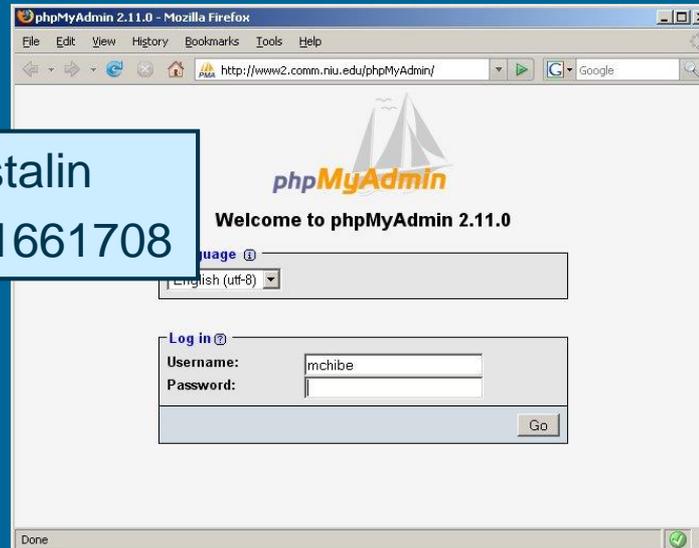
# Review

- Accessing phpMyAdmin

<http://10.159.9.155/phpmyadmin>

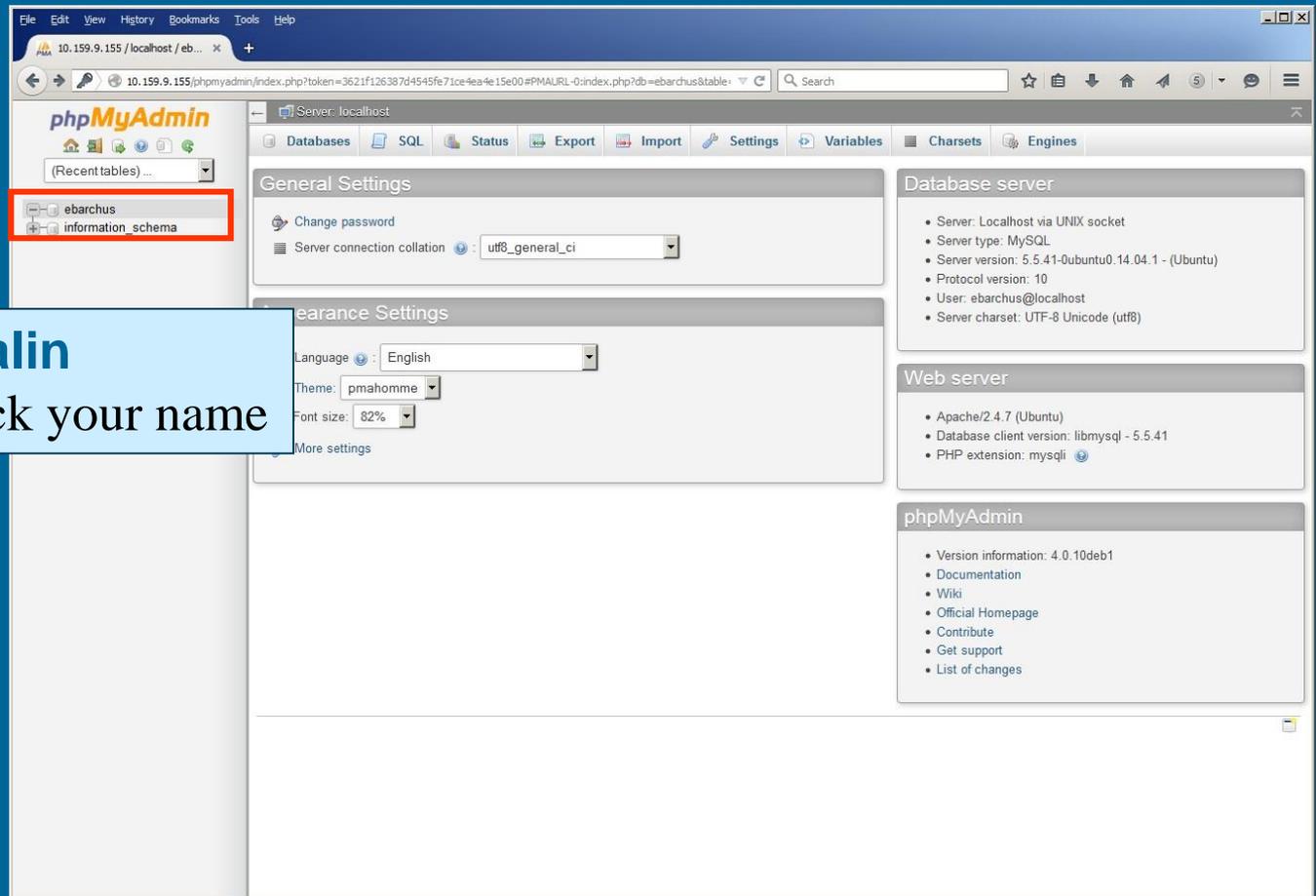
*Username = jstalin*

*Password = 01661708*



# Review

- Selecting a Database



The screenshot shows the phpMyAdmin web interface in a browser window. The address bar shows the URL `10.159.9.155/phpmyadmin/index.php?token=3621f126387d4545fe71ce4ea4e15e00#PMAURL-Q:index.php?db=ebarchus&table=`. The interface includes a navigation menu with options like Databases, SQL, Status, Export, Import, Settings, Variables,Charsets, and Engines. On the left, a sidebar shows a tree view of databases, with 'ebarchus' and its sub-item 'information\_schema' highlighted by a red rectangle. The main content area is divided into several panels: 'General Settings' (with 'Change password' and 'Server connection collation' options), 'Appearance Settings' (with 'Language' set to English, 'Theme' set to 'pmahomme', and 'Font size' set to 82%), 'Database server' (listing server details like 'Server: Localhost via UNIX socket' and 'Server type: MySQL'), 'Web server' (listing 'Apache/2.4.7 (Ubuntu)' and 'Database client version: libmysql - 5.5.41'), and 'phpMyAdmin' (listing version information and links to documentation, wiki, and support).

**jstalin**  
Click your name

File Edit View History Bookmarks Tools Help

10.159.9.155 / localhost / eb... x +

10.159.9.155/phpmyadmin/index.php?token=3621f126387d4545fe71ce4ea4e15e00#PMAURL-1:db\_structure.php?db=ebarchus&tabl Search

phpMyAdmin

(Recent tables) ...

Server: localhost » Database: ebarchus

Structure SQL Search Query Export Import Operations Routines Events Triggers More

No tables found in database

Create table

Name:  Number of columns:

Go

Created a table in our database  
The table is called “products” and it  
has 4 fields, which we named:  
product\_name  
product\_number  
product\_price  
product\_description

File Edit View History Bookmarks Tools Help

10.159.9.155 / localhost / eb... x +

10.159.9.155/phpmyadmin/index.php?token=3621f126387d4545fe71ce4ea4e15e00#PMAURL-2:tbl\_create.php?db=ebarchus&table=

Server: localhost » Database: ebarchus » Table: products

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

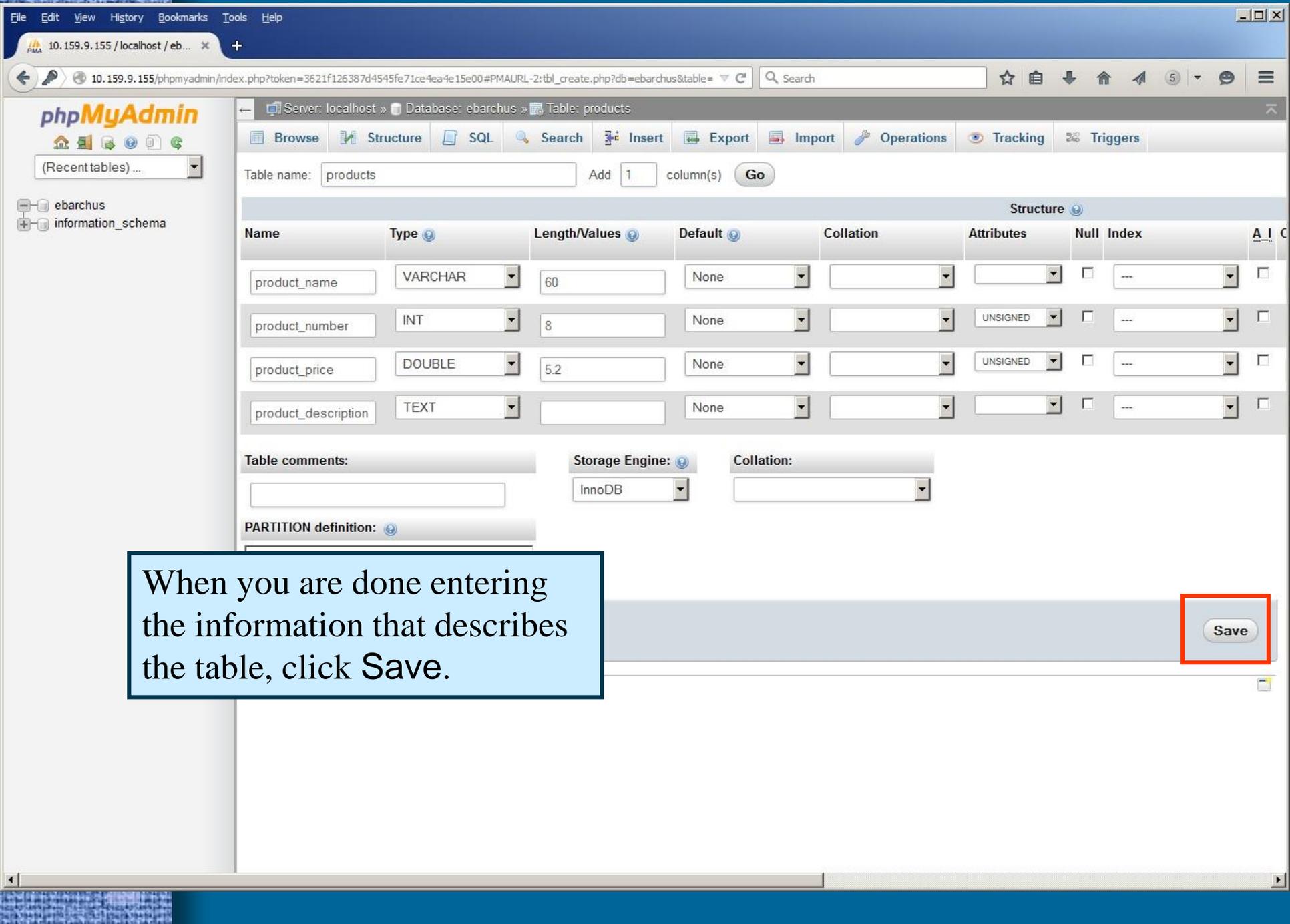
Table name: products Add 1 column(s) Go

Structure

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index
product_name	VARCHAR	60	None			<input type="checkbox"/>	---
product_number	INT	8	None		UNSIGNED	<input type="checkbox"/>	---
product_price	DOUBLE	5,2	None		UNSIGNED	<input type="checkbox"/>	---
product_description	TEXT		None			<input type="checkbox"/>	---

Field Name	Category	Data Type	Length	Attributes	Other
product_name	text	VARCHAR	60		Not Null No Default
product_number	number	INT	8	UNSIGNED	Not Null No Default
product_price	number	DOUBLE	5,2	UNSIGNED	Not Null No Default
product_description	text	TEXT			Not Null No Default

Save



When you are done entering the information that describes the table, click Save.

Save

# phpMyAdmin

(Recent tables) ...

- ebarchus
  - New
  - products
- information\_schema

Server: localhost » Database: ebarchus » Table: products

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Tracking](#) [Triggers](#)

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 product_name	varchar(60)	latin1_swedish_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a> <a href="#">More</a>
<input type="checkbox"/>	2 product_number	int(8)		UNSIGNED	No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a> <a href="#">More</a>
<input type="checkbox"/>	3 product_price	double(5,2)		UNSIGNED	No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a> <a href="#">More</a>
<input type="checkbox"/>	4 product_description	text	latin1_swedish_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a> <a href="#">More</a>

Check All    With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#)

[Print view](#) [Relation view](#) [Propose table structure](#) [Track table](#) [Move columns](#)

[Add](#)  column(s)  At End of Table  At Beginning of Table  After  [Go](#)

+ Indexes

### Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	0 B	Collation	latin1_swedish_ci
Total	16 KiB	Creation	Apr 14, 2015 at 09:33 AM

# Administrator Side

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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_erro()
25     {
26         die ("<br> . mysql_erro().": " .mysql_erro()."<br>");
27     }
28     $query = "INSERT INTO products (product_name, product_number,
29     VALUES ('$product_name', '$product_number', '$product
30     $result = mysql_query($query);
31     if (mysql_erro()
32     {
33         die ("<br> . mysql_erro().": " .mysql_erro()."<br>");
34     }
35     else
36     {
37         echo "Database has been updated.";
38     }
39 }
40 if ($beensubmitted)
41 {
42     handleform();
43 }
44 ?>
45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b></p>
47 <br><input type="text" name="product_name"></p>
48 <p><b>Product Number</b></p>
49 <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b></p>
51 <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b></p>
53 <br><textarea name="product_description" rows="8" cols="70"> </
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>
```

Widgets International

News  
Products  
Links  
Home Admin

## Add a Product

**Product Name**

**Product Number**

**Product Price**

**Product Description**

© 2004 Widgets International

phpMyAdmin

Showing rows 0 - 1 (2 total. Query took 0.0002 sec)

```
SELECT *
FROM `products`
LIMIT 0, 30
```

product_name	product_number	product_price	product_description
Big Widget	0	59.99	Stuff you need to have
Small Widget	0	39.99	This is a smaller version of the same piece of cra...

# User Side

The screenshot shows the phpMyAdmin interface for a database named 'ebarchus'. The 'products' table is selected, showing two rows: 'Big Widget' (product number 0) and 'Small Widget' (product number 0). Below the table, a code editor displays the PHP code for 'product.php', which connects to a MySQL database and queries the 'products' table. The code includes error handling and HTML output for the product list.

```
1 <?php
2 include "header.inc";
3 echo "<h2>Products</h2><hr>";
4 $dbh=mysql_connect ("localhost","jstalin","015703
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("jstalin");
10 if(mysql_errno())
11 {
12     die ("<br>" . mysql_errno().": " .mysql_error(
13 }
14 $query = "SELECT product_name, product_number, pr
15         FROM products" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
20 }
21 echo "<table width='90%' align='left' cellpadding='5'>";
22 while ($row = mysql_fetch_row($result))
23 if (mysql_errno())
24 {
25     die("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
26 }
27 else
28 {
29     echo "<tr><td align='left'><b>$row[1] - ";
30     echo "$row[0]</b>";
31     echo "<br>$row[3]</td>";
32     echo "<td align='right' valign='top'>\\$$row[2]</td></tr>";
33 }
34 echo "</table>";
35 include "footer.inc";
36 ?>
37
```

The screenshot shows a web browser displaying the 'Widgets International' website. The page features a navigation menu with links for 'News', 'Products', 'Links', 'Home', and 'Admin'. The 'Products' section is active, displaying a table of products with their names, descriptions, and prices.

Product Name	Description	Price
345 - Super-Mega Widget	This widget is a total piece of shit. Do not expect it to do anything. It will frustrate you. It will piss you off. It will make you sorry you ever had anything to do with Widgets International.	\$56.24
465 - Widget of Mass Deception	This WMD is completely invisible and not able to be detected using any current technology. You just have to believe that it exists. It is a kind of faith based Widget.	\$79.46

© 2004 Widgets International

# addproduct.php

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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     {
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 ?>
45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b>
47     <br><input type="text" name="product_name"></p>
48 <p><b>Product Number</b>
49     <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b>
51     <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b>
53     <br><textarea name="product_description" rows="8" cols="70"> </textarea></p>
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>
```

```
calendar.html x calendar.html x addproduct.php x product.php x
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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     {
33         die (<br> . mysql_errno().": ".mysql_error()."<br>");
34     }
35     else
36     {
37         echo "Database has been updated.";
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39 }
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42     handleform();
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45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b>
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49     <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b>
51     <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b>
53     <br><textarea name="product_description" rows="8" cols="70"> </textarea></p>
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>
```

Check for authentication and initialize the form variables.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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     {
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 ?>
45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b>
47     <br><input type="text" name="product_name"></p>
48 <p><b>Product Number</b>
49     <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b>
51     <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b>
53     <br><textarea name="product_description" rows="8" cols="70"> </textarea></p>
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>

```

Make a connection to the MySQL server and select the database.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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     {
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 ?>
45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b>
47     <br><input type="text" name="product_name"></p>
48 <p><b>Product Number</b>
49     <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b>
51     <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b>
53     <br><textarea name="product_description" rows="8" cols="70"> </textarea></p>
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>

```

Execute an INSERT query to insert information into the *products* table.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add a Product</h2><hr>";
15 function handleform()
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     {
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
45 <form method="post" action="addproduct.php">
46 <p><b>Product Name</b>
47     <br><input type="text" name="product_name"></p>
48 <p><b>Product Number</b>
49     <br><input type="text" name="product_number"></p>
50 <p><b>Product Price</b>
51     <br><input type="text" name="product_price"></p>
52 <p><b>Product Description</b>
53     <br><textarea name="product_description" rows="8" cols="70"> </textarea></p>
54 <br><input type="hidden" name="beensubmitted" value="TRUE">
55 <p><input type="submit" name="submit" value="submit"></p>
56 </form>
57 <?php include "footer.inc"; ?>

```

HTML form to gather information to be inserted into the database table.

# product.php

```
1 <?php
2 include "header.inc";
3 echo "<h2>Products</h2><hr>";
4 $dbh=mysql_connect ("localhost","jstalin","01570367");
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("jstalin");
10 if(mysql_errno())
11 {
12     die ("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
13 }
14 $query = "SELECT product_name, product_number, product_price, product_description
15         FROM products" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20 }
21 echo "<table width='90%' align='left' cellspacing='7' cellpadding='5'>";
22 while ($row = mysql_fetch_row($result))
23 if (mysql_errno())
24 {
25     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
26 }
27 else
28 {
29     echo "<tr><td align='left'><b>$row[1] - ";
30     echo "$row[0]</b>";
31     echo "<br>$row[3]</td>";
32     echo "<td align='right' valign='top'>\$$row[2]</td></tr>";
33 }
34 echo "</table>";
35 include "footer.inc";
36 ?>
37
```

```
calendar.html x calendar.html x addproduct.php x product.php x
1 <?php
2 include "header.inc";
3 echo "<h2>Products</h2><hr>";
4 $dbh=mysql_connect ("localhost","jstalin","01570367");
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("jstalin");
10 if(mysql_errno())
11 {
12     die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
13 }
14 $query = "SELECT product_name, product_number, product_price, product_description
15         FROM products" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20 }
21 echo "<table width='90%' align='left' cellspacing='7' cellpadding='5'>";
22 while ($row = mysql_fetch_row($result))
23 if (mysql_errno())
24 {
25     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
26 }
27 else
28 {
29     echo "<tr><td align='left'><b>$row[1] - ";
30     echo "$row[0]</b>";
31     echo "<br>$row[3]</td>";
32     echo "<td align='right' valign='top'>\$$row[2]</td></tr>";
33 }
34 echo "</table>";
35 include "footer.inc";
36 ?>
37
```

Make a connection to the MySQL server and select the database.

```
calendar.html x calendar.html x addproduct.php x product.php x
1 <?php
2 include "header.inc";
3 echo "<h2>Products</h2><hr>";
4 $dbh=mysql_connect ("localhost","jstalin","01570367");
5 if (
6 {
7
8 }
9 mysql
10 if(my
11 {
12
13 }
14 $query = "SELECT product_name, product_number, product_price, product_description
15         FROM products" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
20 }
21 echo "<table width='90%' align='left' cellspacing='7' cellpadding='5'>";
22 while ($row = mysql_fetch_row($result))
23 if (mysql_errno())
24 {
25     die("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
26 }
27 else
28 {
29     echo "<tr><td align='left'><b>$row[1] - ";
30     echo "$row[0]</b>";
31     echo "<br>$row[3]</td>";
32     echo "<td align='right' valign='top'>\$$row[2]</td></tr>";
33 }
34 echo "</table>";
35 include "footer.inc";
36 ?>
37
```

Execute a SELECT query on the database and iterate over the table rows by using a **while** statement. Present the information in an HTML table and access each piece of data by using the array \$row and specifying the array element with an integer ( e.g. \$row[1] ).

```
$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>");
}
echo "<table width='90%' align='left' cellspacing='7' cellpadding='5'>";
while ($row = mysql_fetch_row($result))
if (mysql_errno())
{
    die("<br>" . mysql_errno() . ": " . mysql_error() . "<br>");
}
else
{
    echo "<tr><td align='left'><b>$row[1] - ";
    echo "$row[0]</b>";
    echo "<br>$row[3]</td>";
    echo "<td align='right' valign='top'>\$$row[2]</td></tr>";
}
echo "</table>";
```

# Content Management Site



mainpage



admin login



authentication



news



add news



admin header



products



add product



admin footer



links

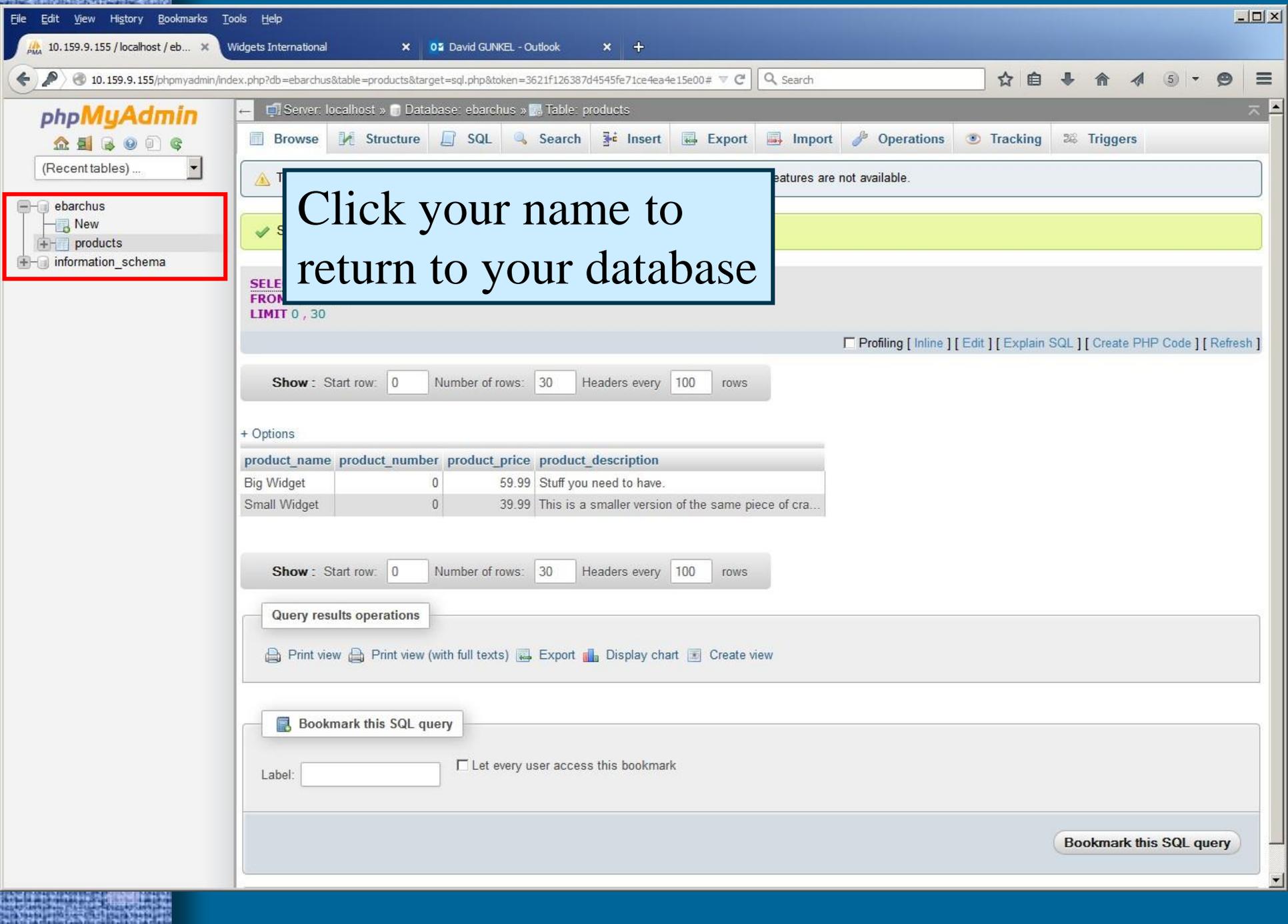


add link

**Next Step**  
Replace news.txt  
and links.txt with  
database tables

# Content Management

- 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



Click your name to return to your database

product_name	product_number	product_price	product_description
Big Widget	0	59.99	Stuff you need to have.
Small Widget	0	39.99	This is a smaller version of the same piece of cra...

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Bookmark this SQL query

Label:   Let every user access this bookmark

Bookmark this SQL query

**phpMyAdmin**

(Recent tables) ...

- ebarchus
  - New
  - products
  - information\_schema

Server: localhost » Database: ebarchus

Structure SQL Search Query Export Import Operations Routines Events Triggers More

Table	Action	Rows	Type	Collation	Size	Overhead
products	Browse Structure Search Insert Empty Drop	~2	InnoDB	latin1_swedish_ci	16 KiB	-
1 table	Sum	2	InnoDB	latin1_swedish_ci	16 KiB	0 B

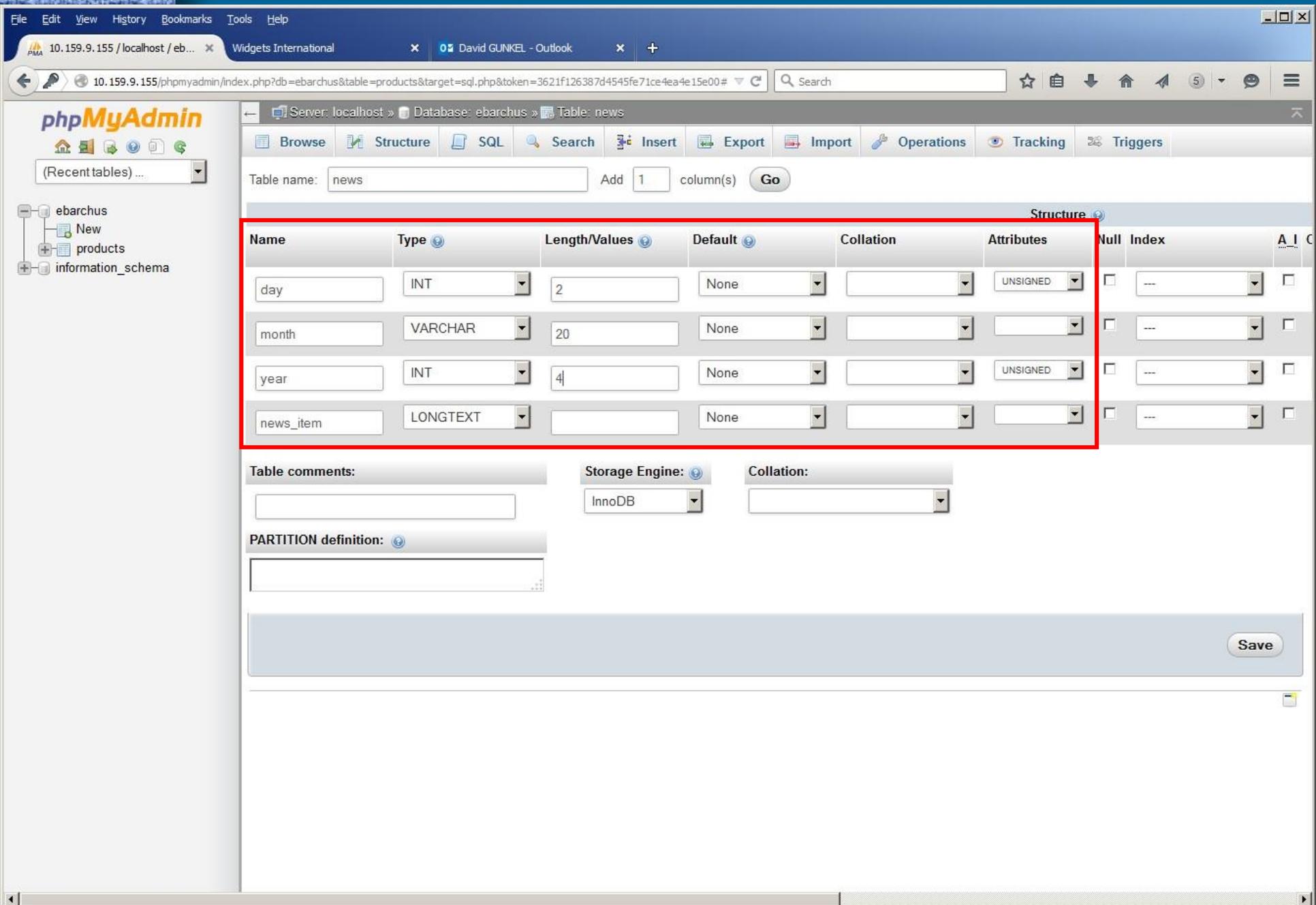
Check All With selected:

Print view Data Dictionary

Create table

Name:  Number of columns:

Go



phpMyAdmin

(Recent tables) ...

- ebarchus
  - New
  - products
  - information\_schema

Server: localhost » Database: ebarchus » Table: news

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table name: news Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A	I	C
day	INT	2	None		UNSIGNED	<input type="checkbox"/>	---	<input type="checkbox"/>		
month	VARCHAR	20	None			<input type="checkbox"/>	---	<input type="checkbox"/>		
year	INT	4	None		UNSIGNED	<input type="checkbox"/>	---	<input type="checkbox"/>		
news_item	LONGTEXT		None			<input type="checkbox"/>	---	<input type="checkbox"/>		

Table comments:

Storage Engine:

InnoDB

Collation:

PARTITION definition:

Save

**phpMyAdmin**

(Recent tables) ...

- ebarchus
  - New
  - news
  - products
  - information\_schema

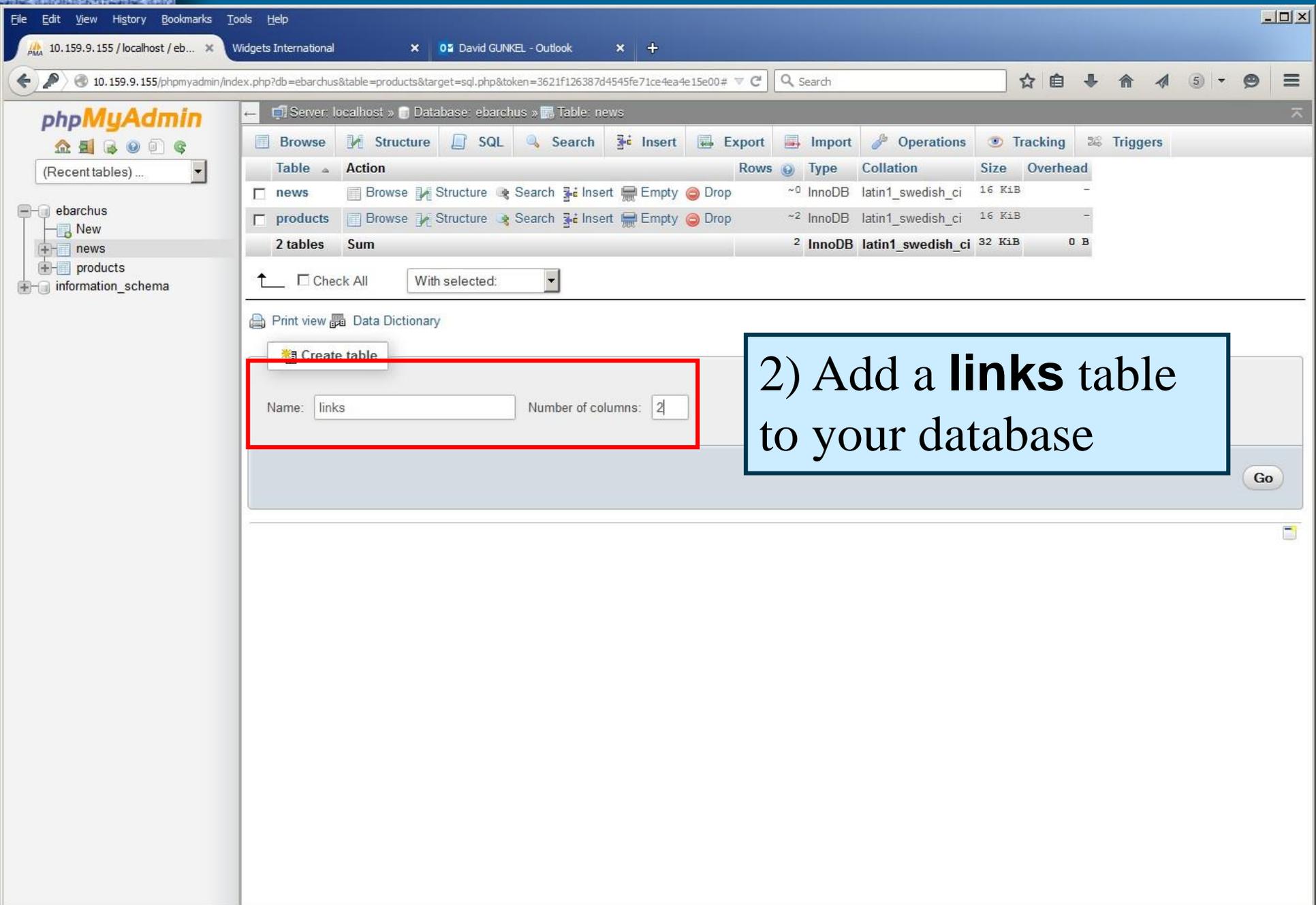
Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> news	Browse  Structure  Search  Insert  Empty  Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> products	Browse  Structure  Search  Insert  Empty  Drop	~2	InnoDB	latin1_swedish_ci	16 KiB	-
<b>2 tables</b>	<b>Sum</b>	<b>2</b>	<b>InnoDB</b>	<b>latin1_swedish_ci</b>	<b>32 KiB</b>	<b>0 B</b>

Check All    With selected:

Print view   Data Dictionary

Create table

Name:     Number of columns:



2) Add a **links** table to your database

phpMyAdmin

(Recent tables) ...

- ebarchus
  - New
  - news
  - products
  - information\_schema

Server: localhost » Database: ebarchus » Table: links

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table name: links Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A I C
url	VARCHAR	60	None			<input type="checkbox"/>	---	<input type="checkbox"/>
description	LONGTEXT		None			<input type="checkbox"/>	---	<input type="checkbox"/>

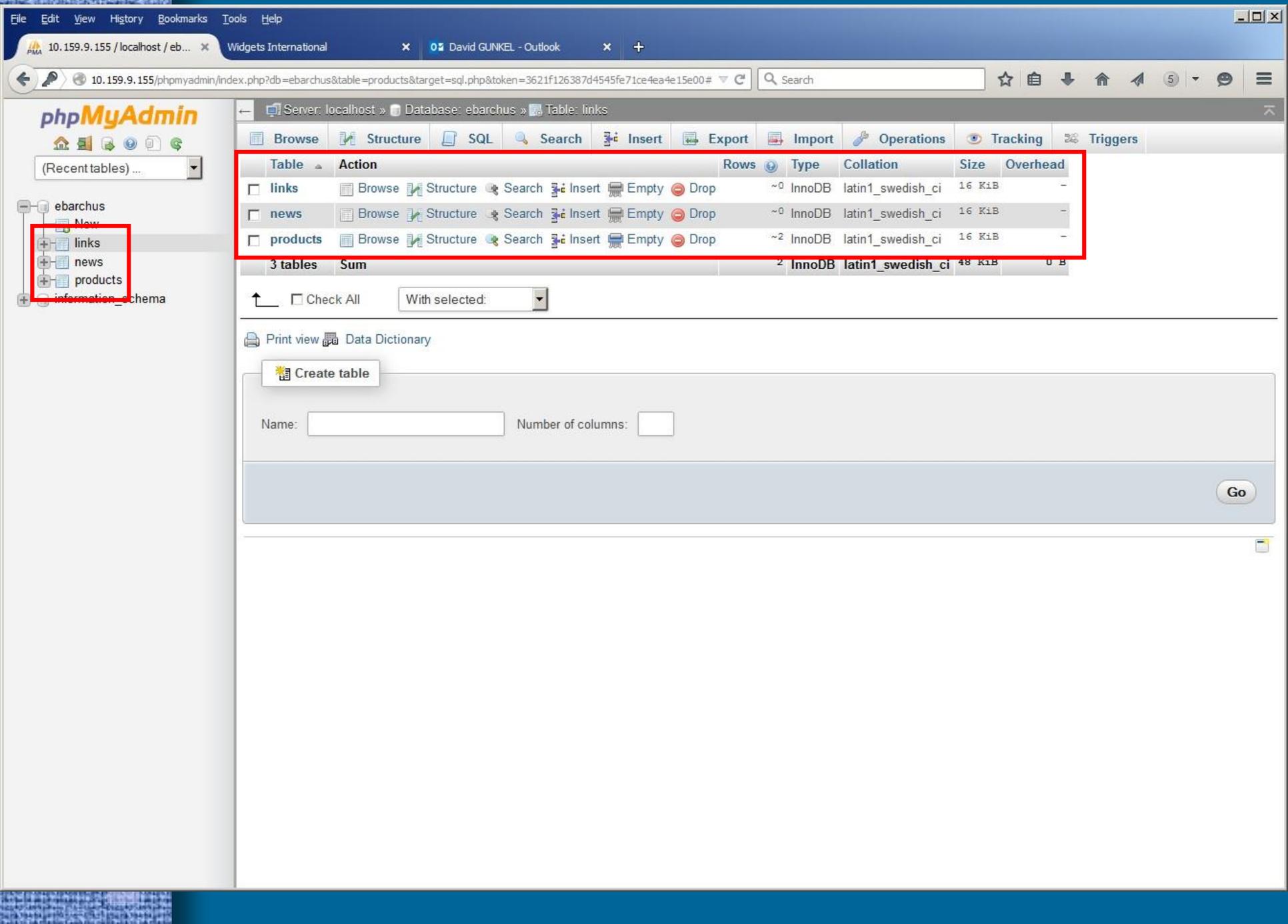
Table comments:

Storage Engine: InnoDB

Collation:

PARTITION definition:

Save



phpMyAdmin

(Recent tables) ...

- ebarchus
  - links
  - news
  - products
  - information\_schema

Server: localhost » Database: ebarchus » Table: links

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> links	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> news	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> products	Browse Structure Search Insert Empty Drop	~2	InnoDB	latin1_swedish_ci	16 KiB	-
3 tables	Sum	2	InnoDB	latin1_swedish_ci	48 KiB	0 B

Check All With selected: [dropdown]

Print view Data Dictionary

Create table

Name: [input] Number of columns: [input]

Go

```
addnews.php
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php?Main_Page/ab'>
5     return false;
6 }
7 $day = $_POST['day'];
8 $month = $_POST['month'];
9 $year = $_POST['year'];
10 $news_item = $_POST['news_item'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h3>Add News</h3>";
15 function handleForm()
16 {
17     global $day, $month, $year, $news_item;
18     $db=mysqli_connect ("localhost","abarchus","01570387");
19     if (!$db)
20     {
21         die ("Failed to open the Database");
22     }
23     mysqli_select_db ("abarchus");
24     if (mysqli_errno ())
25     {
26         die ("<br> - mysqli_errno() - ".mysqli_error()."<br>");
27     }
28     $query = "INSERT INTO news (day, month, year, news_item)
29             VALUES ('$day', '$month', '$year', '$news_item')";
30     $result = mysqli_query ($query);
31     if (mysqli_errno ())
32     {
33         die ("<br> - mysqli_errno() - ".mysqli_error()."<br>");
34     }
35     else
36     {
37         echo "Database has been updated.";
38     }
39 }
40 if ($beensubmitted)
41 {
42     handleForm();
43 }
44 ?>
45 <form method='post' action='addnews.php'>
46 <br><br><br>
47 <p>Day:<input type='text' name='day' size='2' maxlength='2'>
48 Month: <select name='month'>
49     <option value='January'>January</option>
50     <option value='February'>February</option>
51     <option value='March'>March</option>
52     <option value='April'>April</option>
53     <option value='May'>May</option>
54     <option value='June'>June</option>
55     <option value='July'>July</option>
56     <option value='August'>August</option>
57     <option value='September'>September</option>
58     <option value='October'>October</option>
59     <option value='November'>November</option>
60     <option value='December'>December</option>
61 </select>
62 Year: <input type='text' name='year' size='4' maxlength='4'>
63 <br><br><br><br>
64 <br><input type='hidden' name='news_item' value='> </textarea>
65 <br><input type='hidden' name='beensubmitted' value='TRUE'>
66 <br><input type='submit' name='submit' value='submit'></p>
67 </form>
68 <?php include "Footer.inc"; ?>
69
```

addnews.php

Modify the file  
addproducts.php

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $day = $_POST['day'];
8 $month = $_POST['month'];
9 $year = $_POST['year'];
10 $news_item = $_POST['news_item'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add News</h2><hr>";
15 function handleform()
16 {
17     global $day, $month, $year, $news_item;
18     $dbh=mysql_connect ("localhost","ebarchus","01570367");
19     if (!$dbh)
20     {
21         die ("Failed to open the Database");
22     }
23     mysql_select_db("ebarchus");
24     if(mysql_errno())
25     {
26         die (<br> . mysql_errno().": ".mysql_error().<br>);
27     }
28     $query = "INSERT INTO news (day, month, year, news_item)
29             VALUES ('$day', '$month', '$year', '$news_item')";
30     $result = mysql_query($query);
31     if (mysql_errno())
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 ?>
```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $day = $_POST['day'];
8 $month = $_POST['month'];
9 $year = $_POST['year'];
10 $news_item = $_POST['news_item'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add News</h2><hr>";
15 function handleform()
16 {
17     global $day, $month, $year, $news_item;
18     $dbh=mysql_connect ("localhost","ebarchus","01570367");
19     if (!$dbh)
20     {
21         die ("Failed to open the Database");
22     }
23     mysql_select_db("ebarchus");
24     if(mysql_errno())
25     {
26         die ("<br>" . mysql_errno().": ".mysql_error()."<br>");
27     }
28     $query = "INSERT INTO news (day, month, year, news_item)
29             VALUES ('$day', '$month', '$year', '$news_item')";
30     $result = mysql_query($query);
31     if (mysql_errno())
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 ?>
```

Change the variable names.  
Change the page heading.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $day = $_POST['day'];
8 $month = $_POST['month'];
9 $year = $_POST['year'];
10 $news_item = $_POST['news_item'];
11 $beensubmitted = $_POST['beensubmitted'];
12
13 include "adminheader.inc";
14 echo "<h2>Add News</h2><hr>";
15 function handleform()
16 {
17     global $day, $month, $year, $news_item;
18     $dbh=mysql_connect ("localhost","ebarchus","01570367");
19     if (!$dbh)
20     {
21         die ("Failed to open the Database");
22     }
23     mysql_select_db("ebarchus");
24     if(mysql_errno())
25     {
26         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
27     }
28     $query = "INSERT INTO news (day, month, year, news_item)
29             VALUES ('$day', '$month', '$year', '$news_item')";
30     $result = mysql_query($query);
31     if (mysql_errno())
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 ?>

```

In the MySQL query, change the variable names; change name of the database table

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $day = $_POST['day'];
8 $month = $_POST['month'];
9 $year = $_POST['year'];
```

```
45 <form method="post" action="addnews.php">
46 <br><b>Date</b>
47 <p>Day: <input type="text" name="day" size="2" maxlength="2">
48     Month: <select name="month">
49         <option value="January">January</option>
50         <option value="February">February</option>
51         <option value="March">March</option>
52         <option value="April">April</option>
53         <option value="May">May</option>
54         <option value="June">June</option>
55         <option value="July">July</option>
56         <option value="August">August</option>
57         <option value="September">September</option>
58         <option value="October">October</option>
59         <option value="November">November</option>
60         <option value="December">December</option>
61     </select>
62     Year: <input type="text" name="year" size="4" maxlength="4">
63 <br><br><b>News Item</b>
64 <br><textarea name="news_item" rows="8" cols="70"> </textarea>
65 <br><input type="hidden" name="beensubmitted" value="TRUE">
66 <p><input type="submit" name="submit" value="submit"></p>
67 </form>
68 <?php include "footer.inc"; ?>
```

```
38     }
39 }
40 if ($beensubmitted)
41 {
42     handleform();
43 }
44 ?>
```

```

45 <form method="post" action="addnews.php">
46 <br><b>Date</b>
47 <p>Day:<input type="text" name="day" size="2" maxlength="2">
48     Month: <select name="month">
49         <option value="January">January</option>
50         <option value="February">February</option>
51         <option value="March">March</option>
52         <option value="April">April</option>
53         <option value="May">May</option>
54         <option value="June">June</option>
55         <option value="July">July</option>
56         <option value="August">August</option>
57         <option value="September">September</option>
58         <option value="October">October</option>
59         <option value="November">November</option>
60         <option value="December">December</option>
61     </select>
62     Year: <input type="text" name="year" size="4" maxlength="4">
63 <br><br><b>News Item</b>
64 <br><textarea name="news_item" rows="8" cols="70"> </textarea>
65 <br><input type="hidden" name="beensubmitted" value="TRUE">
66 <p><input type="submit" name="submit" value="submit"></p>
67 </form>
68 <?php include "footer.inc"; ?>

```

Modify form. Use two `<input type=text>` for day and year, a `<select>` for the month, and a `<textarea>` for the News Item. Name form elements accordingly.

```
news.php x
1 <?php
2 include "header.inc";
3 echo "<h2>News</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus","01570367");
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("ebarchus");
10 if(mysql_errno())
11 {
12     die("<br>" . mysql_errno().": " .mysql_error()."<br>");
13 }
14 $query = "SELECT day, month, year, news_item
15         FROM news" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20 }
21 echo "<table width='600' align='left' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24 if (mysql_errno())
25 {
26     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
27 }
28
29 else
30 {
31     echo "<tr><td align='left'><b>$row[0] $row[1] $row[2]</b>";
32     echo "<br>$row[3]</td></tr>";
33 }
34 echo "</table>";
35
36 include "footer.inc";
37 ?>
38
```

news.php

Modify the file products.php

```
news.php
1 <?php
2 include "header.inc";
3 echo "<h2>News</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("ebarchus");
10 if(mysql_errno())
11 {
12     die ("<br>" . mysql_errno().": " .mysql_error().")
13 }
14 $query = "SELECT day, month, year, news_item
15         FROM news" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20 }
21 echo "<table width='600' align='left' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24 if (mysql_errno())
25 {
26     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
27 }
28
29 else
30 {
31     echo "<tr><td align='left'><b>$row[0] $row[1] $row[2]</b>";
32     echo "<br>$row[3]</td></tr>";
33 }
34 echo "</table>";
35
36 include "footer.inc";
37 ?>
38
```

Change content of the heading

Change variable names and table name in the SELECT query

Echo table elements to present the data.

# news.php

```
1 <?php
2 include "header.inc";
3 echo "<h2>News</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus","01570367");
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("ebarchus");
10 if(mysql_errno())
11 {
12     die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
13 }
14 $query = "SELECT day, month, year, news_item
15         FROM news" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18 {
19     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20 }
21 echo "<table width='600' align='left' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24 if (mysql_errno())
25 {
26     die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
27 }
28
29 else
30 {
31     echo "<tr><td align='left'><b>$row[0] $row[1] $row[2]</b>";
32     echo "<br>$row[3]</td></tr>";
33 }
34 echo "</table>";
35
36 include "footer.inc";
37 ?>
38
```

```
addurl.php x3
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $url = $_POST['url'];
8 $description = $_POST['description'];
9 $beansubmitted = $_POST['beansubmitted'];
10
11 include "adminheader.inc";
12 echo "<h2>Add Link</h2><br>";
13 function handleform()
14 {
15     global $url, $description;
16     if($url)
17     {
18         $subject = $url;
19         $pattern = "(http://)?([a-z0-9-./-]+)";
20         $replace = "http://\1\2";
21         $url = eregi_replace ($pattern, $replace, $subject);
22     }
23     $dbh=mysql_connect ("localhost","sbarchus","01870367");
24     if (!$dbh)
25     {
26         die ("Failed to open the Database");
27     }
28     mysql_select_db("sbarchus");
29     if(mysql_erro())
30     {
31         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
32     }
33     $query = "INSERT INTO links (url, description)
34             VALUES ('$url', '$description)";
35     $result = mysql_query($query);
36     if (mysql_erro())
37     {
38         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
39     }
40     else
41     {
42         echo "Database has been updated.";
43     }
44 }
45 if ($beansubmitted)
46 {
47     handleform();
48 }
49
50 <?
51 <form method="post" action="addurl.php">
52 <br><br>URL</br>
53 <br><input type="text" name="url" size="60">
54 <br><br>Description</br>
55 <br><textarea name="description" rows="8" cols="70"> </textarea>
56 <br><input type="hidden" name="beansubmitted" value="TRUE">
57 <p><input type="submit" name="submit" value="submit"></p>
58 </form>
59 <?php include "footer.inc"; ?>
```

addurl.php

Modify the file  
addproducts.php

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $url = $_POST['url'];
8 $description = $_POST['description'];
9 $beensubmitted = $_POST['beensubmitted'];
10
11 include "adminheader.inc";
12 echo "<h2>Add Link</h2><hr>";
13 function handleform()
14 {
15     global $url, $description;
16     if($url)
17     {
18         $subject = $url;
19         $pattern = "(http://)?([a-zA-Z0-9./_-]+)";
20         $replace = "http://\2";
21         $url = eregi_replace ($pattern, $replace, $subject);
22     }
23     $dbh=mysql_connect ("localhost","ebarchus","01570367");
24     if (!$dbh)
25     {
26         die ("Failed to open the Database");
27     }
28     mysql_select_db("ebarchus");
29     if(mysql_errno())
30     {
31         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
32     }
33     $query = "INSERT INTO links (url, description)
34             VALUES ('$url', '$description')";
35     $result = mysql_query($query);
36     if (mysql_errno())
37     {
38         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
39     }
40     else
41     {
42         echo "Database has been updated.";
43     }
44 }
45 if ($beensubmitted)
46 {
47     handleform();
48 }
49 ?>
```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $url = $_POST['url'];
8 $description = $_POST['description'];
9 $beensubmitted = $_POST['beensubmitted'];
10
11 include "adminheader.inc";
12 echo "<h2>Add Link</h2><hr>";
13 function handleform()
14 {
15     global $url, $description;
16     if($url)
17     {
18         $subject = $url;
19         $pattern = "(http://)?([a-zA-Z0-9./_-]+)";
20         $replace = "http://\2";
21         $url = eregi_replace ($pattern, $replace, $subject);
22     }
23     $dbh=mysql_connect ("localhost","ebarchus","01570367");
24     if (!$dbh)
25     {
26         die ("Failed to open the Database");
27     }
28     mysql_select_db("ebarchus");
29     if(mysql_errno())
30     {
31         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
32     }
33     $query = "INSERT INTO links (url, description)
34             VALUES ('$url', '$description')";
35     $result = mysql_query($query);
36     if (mysql_errno())
37     {
38         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
39     }
40     else
41     {
42         echo "Database has been updated.";
43     }
44 }
45 if ($beensubmitted)
46 {
47     handleform();
48 }
49 ?>
```

Change the variable names.  
Change the page heading.

```

1  <?php
2  if (empty($_COOKIE['username']))
3  {
4      echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5      return false;
6  }
7  $url = $_POST['url'];
8  $description = $_POST['description'];
9  $beensubmitted = $_POST['beensubmitted'];
10
11 include "adminheader.inc";
12 echo "<h2>Add Link</h2><hr>";
13 function handleform()
14 {
15     global $url, $description;
16     if($url)
17     {
18         $subject = $url;
19         $pattern = "(http://)?([a-zA-Z0-9._-]+)";
20         $replace = "http://\2";
21         $url = eregi_replace ($pattern, $replace, $subject);
22     }
23     $dbh=mysql_connect ("localhost","ebarchus","01570367");
24     if (!$dbh)
25     {
26         die ("Failed to open the Database");
27     }
28     mysql_select_db("ebarchus");
29     if(mysql_errno())
30     {
31         die ("<br>" . mysql_errno().": " .mysql_error()."$result = mysql_query($query);
36     if (mysql_errno())
37     {
38         die ("<br>" . mysql_errno().": " .mysql_error()."

```

Format the value of the variable \$url by using a regular expression match and replace.

In the MySQL query, change the variable names; change name of the database table

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $url = $_POST['url'];
8 $description = $_POST['description'];
9 $beensubmitted = $_POST['beensubmitted'];
10
11 include "adminheader.inc";
12 echo "<h2>Add Link</h2><hr>";
13 function handleform()
14 {
15     global $url, $description;
16     if($url)
17     {
```

```
49 ?>
50 <form method="post" action="addurl.php">
51 <br><b>URL</b>
52 <br><input type="text" name="url" size="60">
53 <br><br><b>Description</b>
54 <br><textarea name="description" rows="8" cols="70"> </textarea>
55 <br><input type="hidden" name="beensubmitted" value="TRUE">
56 <p><input type="submit" name="submit" value="submit"></p>
57 </form>
58 <?php include "footer.inc"; ?>
59
60
```

```
35 $result = mysql_query($query);
36 if (mysql_errno())
37 {
38     die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
39 }
40 else
41 {
42     echo "Database has been updated.";
43 }
44 }
45 if ($beensubmitted)
46 {
47     handleform();
48 }
49 ?>
```

Modify form entry options. Use one `<input type=text>` for the URL and a `<textarea>` for the description. Name form elements accordingly.

```
49  ?>
50  <form method="post" action="addurl.php">
51  <br><b>URL</b>
52  <br><input type="text" name="url" size="60">
53  <br><br><b>Description</b>
54  <br><textarea name="description" rows="8" cols="70"> </textarea>
55  <br><input type="hidden" name="beensubmitted" value="TRUE">
56  <p><input type="submit" name="submit" value="submit"></p>
57  </form>
58  <?php include "footer.inc"; ?>
59
60
```

```
links.php x
1 <?php
2 include "header.inc";
3 echo "<h2>Links</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus","01570367");
5 if (!$dbh)
6     {
7         die ("Failed to open the Database");
8     }
9 mysql_select_db("ebarchus");
10 if(mysql_errno())
11     {
12         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
13     }
14 $query = "SELECT url, description
15           FROM links" ;
16 $result = mysql_query($query);
17 if (mysql_errno())
18     {
19         die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
20     }
21 echo "<table width='600' align='left' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24     if (mysql_errno())
25         {
26             die("<br>" . mysql_errno( ) . ": " . mysql_error( ) . "<br>");
27         }
28     else
29         {
30             echo "<tr><td align='left'><a href=\"\$row[0]\">$row[0]</a>";
31             echo "<br>$row[1]</td></tr>";
32         }
33 echo "</table>";
34 include "footer.inc";
35 ?>
```

links.php

Modify the file products.php

```
links.php x
1 <?php
2 include "header.inc";
3 echo "<h2>Links</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus"
5 if (!$dbh)
6 {
7     die ("Failed to open the Database");
8 }
9 mysql_select_db("ebarchus");
10 if(mysql_erro()
11 {
12     die ("<br>" . mysql_erro().": " . mysql_erro() "<br>");
13 }
14 $query = "SELECT url, description
15         FROM links" ;
16 $result = mysql_query($query);
17 if (mysql_erro()
18 {
19     die("<br>" . mysql_erro() . ": " . mysql_erro() . "<br>");
20 }
21 echo "<table width='600' align='left' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24 if (mysql_erro()
25 {
26     die("<br>" . mysql_erro() . ": " . mysql_erro() . "<br>");
27 }
28 else
29 {
30     echo "<tr><td align='left'><a href=\"\$row[0]\">$row[0]</a>";
31     echo "<br>$row[1]</td></tr>";
32 }
33 echo "</table>";
34 include "footer.inc";
35 ?>
```

Change content of the heading

Change variable names and table name in the SELECT query

Echo table elements to present the data.

```
1 <?php
2 include "header.inc";
3 echo "<h2>Links</h2><hr>";
4 $dbh=mysql_connect ("localhost","ebarchus","01570367");
5 if (!$dbh)
6     {
7         die ("Failed to open the Database");
8     }
9 mysql_select_db("ebarchus");
10 if(mysql_erro())
11     {
12         die ("<br>" . mysql_erro().": " . mysql_error() . "<br>");
13     }
14 $query = "SELECT url, description
15         FROM links" ;
16 $result = mysql_query($query);
17 if (mysql_erro())
18     {
19         die("<br>" . mysql_erro() . ": " . mysql_error() . "<br>");
20     }
21 echo "<table width='600' align='left' cellspacing='7' cellpadding='5'>";
22
23 while ($row = mysql_fetch_row($result))
24     if (mysql_erro())
25         {
26             die("<br>" . mysql_erro() . ": " . mysql_error() . "<br>");
27         }
28     else
29         {
30             echo "<tr><td align='left'><a href=\"\$row[0]\">$row[0]</a>";
31             echo "<br>$row[1]</td></tr>";
32         }
33 echo "</table>";
34 include "footer.inc";
35 ?>
```

links.php

# Next Step

- Modify admin pages
  - Design administrator pages that allow for additional features; full editorial control over content
  - Tasks
    - Review **SELECT**, **UPDATE** & **DELETE** queries
    - Exercise - Revise administrator page
      - Add an `auto_increment` column to our table by using phpMyAdmin
      - Add new features to the administrator page

# PHP & MySQL

- SELECT

- Format

```
SELECT column1, column2 FROM tablename;
```

- Example

```
SELECT product_name, product_price FROM products;
```

- This line will SELECT and display only two of the four columns in the table *products*
    - The information will be displayed so that `product_name` is first and `product_price` is second

# PHP & MySQL

- SELECT - WHERE

- Example

```
SELECT product_name, product_price FROM products  
WHERE product_number=101;
```

- This line will only report the `product_name` and `product_price` for the record that has the `product_number` 101.
- Use relational operators to specify the condition

=	equal
!=	not equal
<	less than
>	greater than
<=	less than or equals
>=	greater than or equals

# PHP & MySQL

- SELECT - ORDER BY
  - Example

```
SELECT product_name, product_price FROM products  
ORDER BY product_number DESC
```

- This line reports `product_name` and `product_price` ordered by `product_number` and organized in descending order
- If you want the order to be ascending, remove the `DESC` or replace it with `ASC`

# PHP & MySQL

- **SELECT – LIKE**

- Use **LIKE** to specify and match a pattern
- Example

```
SELECT product_name, product_price FROM products  
WHERE product_name LIKE '%widget%';
```

- % is a meta-character that matches any variation of the word *widget* (e.g. widget, Widget, widgets, etc.)
- This line will report the `product_name` and `product_price` for any entry in the table `products` that matches the word *widget*

# PHP & MySQL

- UPDATE
  - Basic Format

```
UPDATE tablename SET column1=value1, column2=value2 WHERE condition;
```

- Example

```
UPDATE product_number SET product_number='101' WHERE product_name='widget';
```

- This line will change the `product_number` of the item that has the `product_name` 'Widget' to 101
- If every row is to be updated, you can omit the `WHERE` clause

# PHP & MySQL

- DELETE

- Basic format

```
DELETE FROM tablename WHERE condition;
```

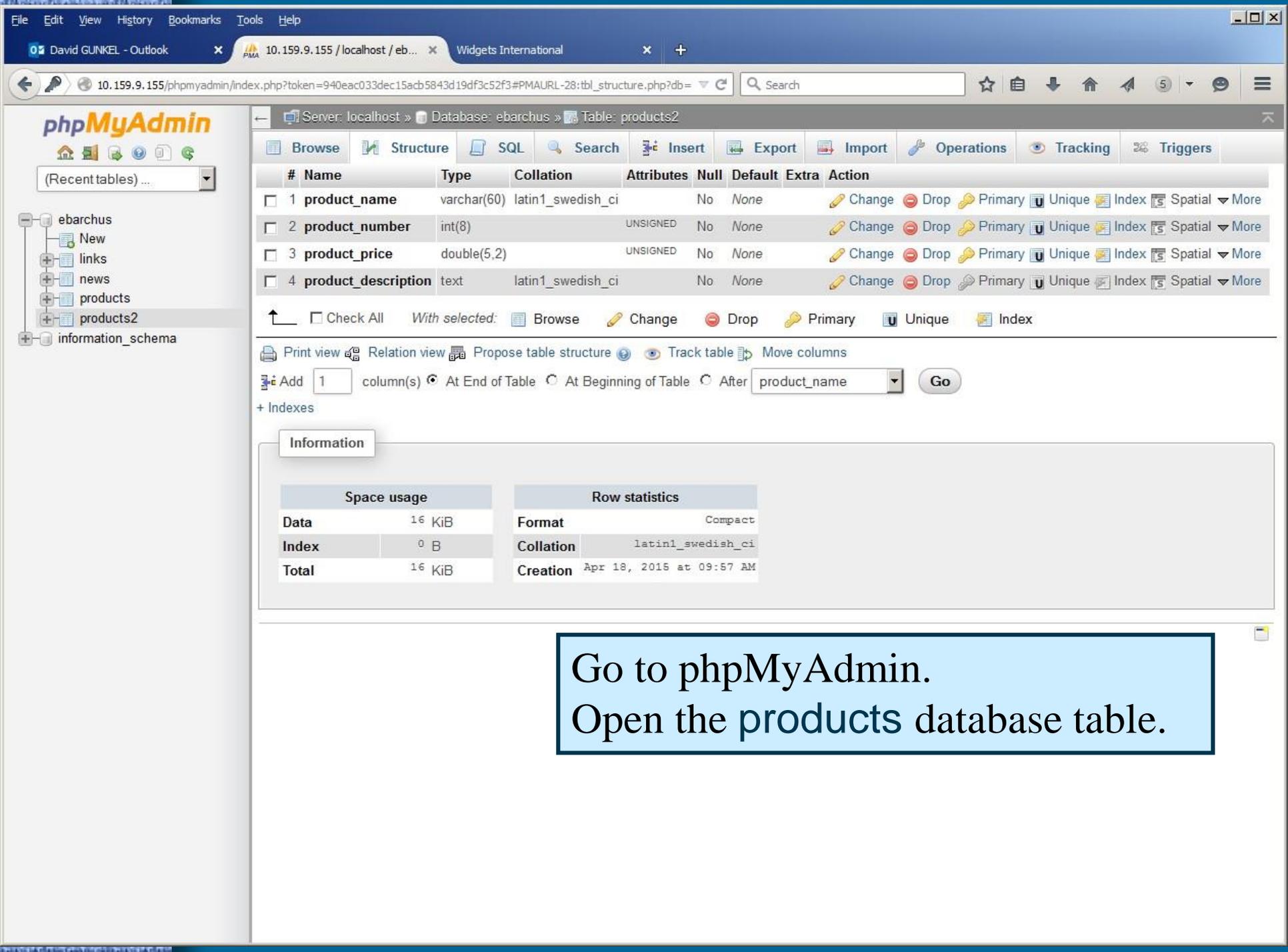
- Example

```
DELETE FROM products WHERE product_name='widget';
```

- This line will delete the record for the item that has the product\_name 'Widget'
    - The delete command removes the entire row.

# Exercise

- Task
  - Create an Administrator page that allows for more precise control of content
  - Insert, Update and Delete information
- Process
  - Modify MySQL table using phpMyAdmin
  - Write a new PHP page for the site administrator editproduct.php



#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 product_name	varchar(60)	latin1_swedish_ci		No	None		Change  Drop  Primary  Unique  Index  Spatial  More
<input type="checkbox"/>	2 product_number	int(8)		UNSIGNED	No	None		Change  Drop  Primary  Unique  Index  Spatial  More
<input type="checkbox"/>	3 product_price	double(5,2)		UNSIGNED	No	None		Change  Drop  Primary  Unique  Index  Spatial  More
<input type="checkbox"/>	4 product_description	text	latin1_swedish_ci		No	None		Change  Drop  Primary  Unique  Index  Spatial  More

Print view   Relation view   Propose table structure   Track table   Move columns

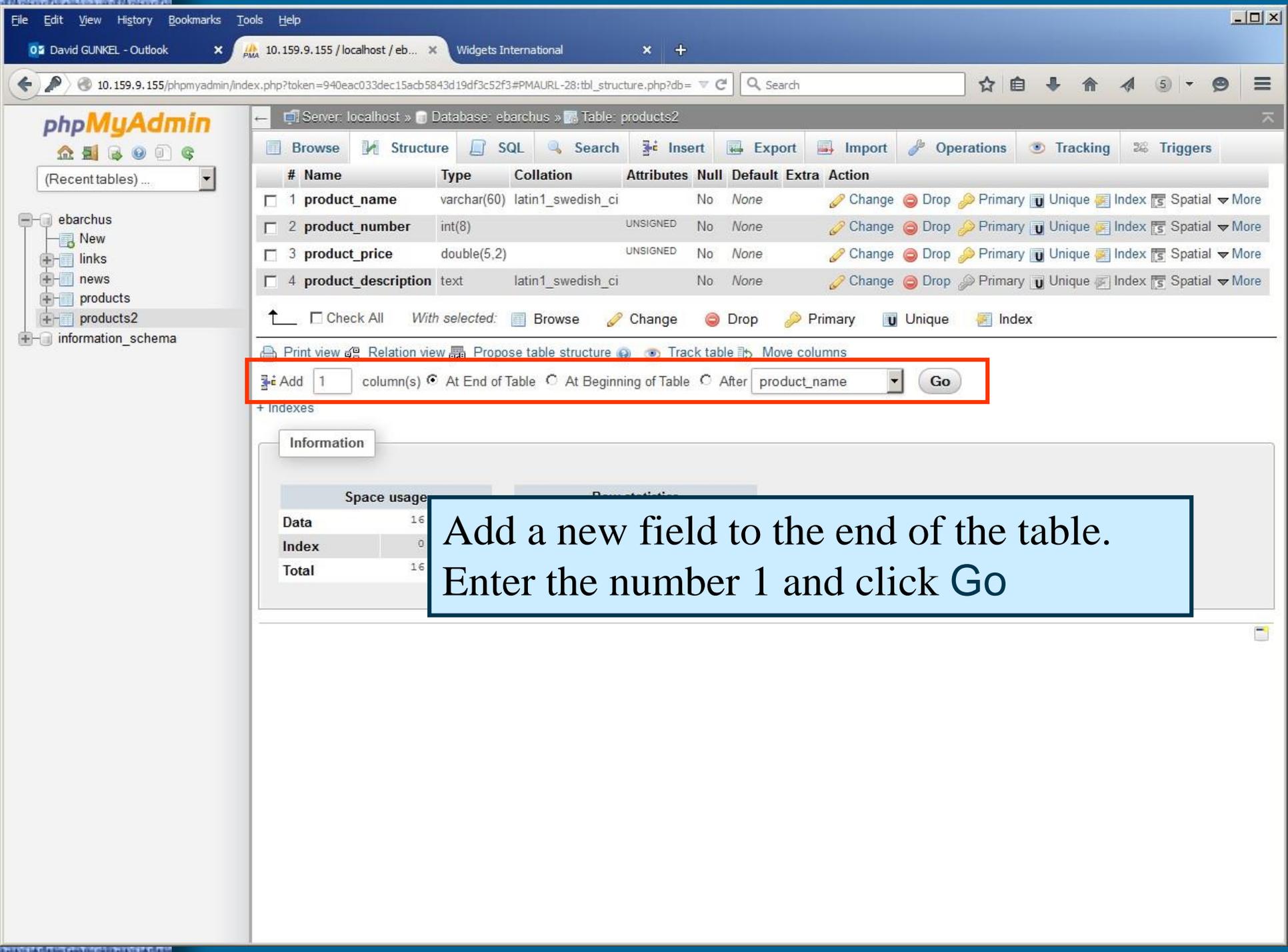
Add  column(s)   At End of Table   At Beginning of Table   After   

+ Indexes

**Information**

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	0 B	Collation	latin1_swedish_ci
Total	16 KiB	Creation	Apr 18, 2015 at 09:57 AM

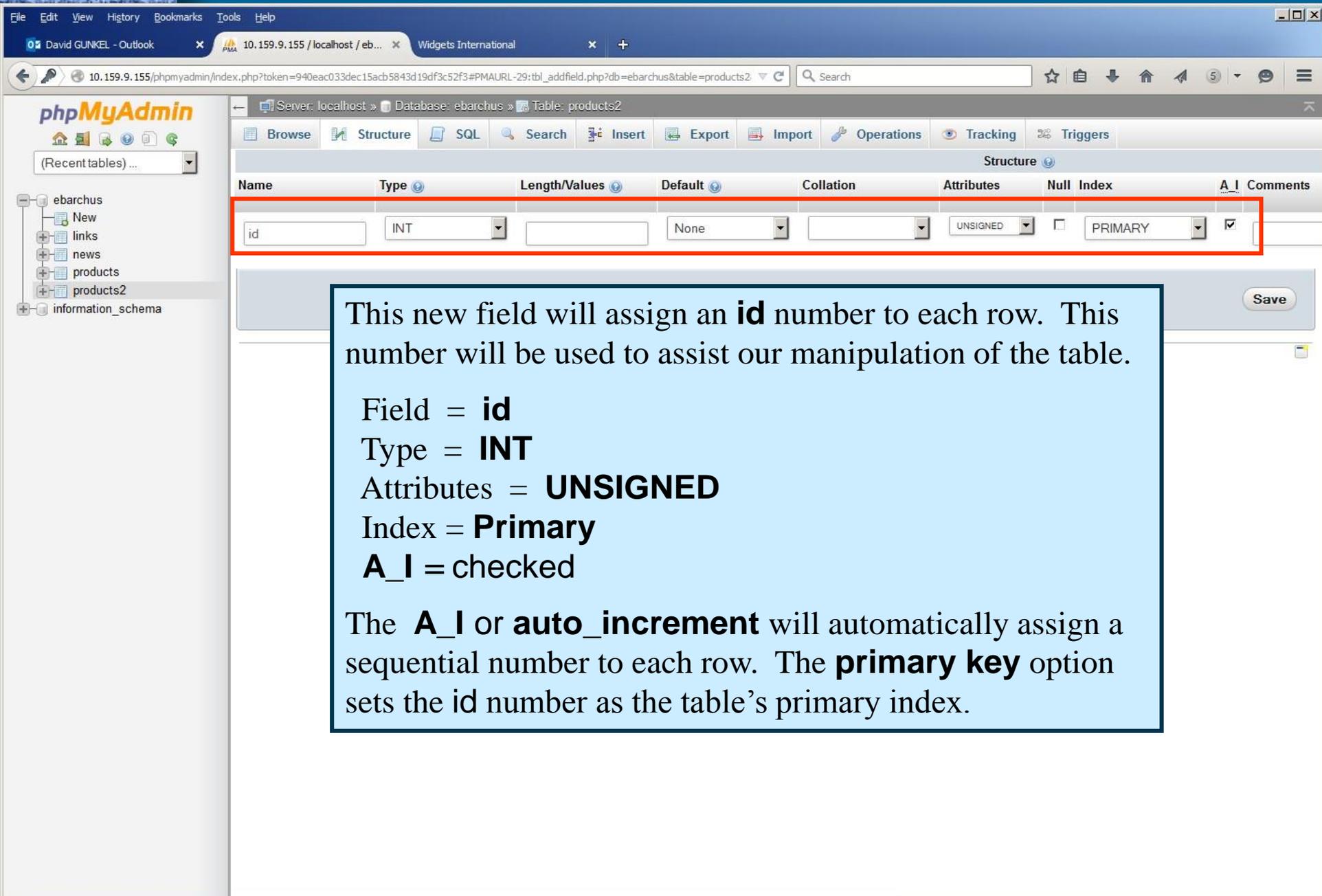
Go to phpMyAdmin.  
Open the products database table.



Add  column(s)  At End of Table  At Beginning of Table  After

Add a new field to the end of the table.  
Enter the number 1 and click Go

Space usage	
Data	16
Index	0
Total	16



The screenshot shows the phpMyAdmin interface for a table named 'products2' in the 'ebarchus' database. The 'Structure' tab is active, and a new field named 'id' is being added. The field's properties are: Name: id, Type: INT, Length/Values: (empty), Default: None, Collation: (empty), Attributes: UNSIGNED, Null: (empty), Index: PRIMARY, and A\_I: checked. A red box highlights the 'id' field row. A blue box contains the following text:

This new field will assign an **id** number to each row. This number will be used to assist our manipulation of the table.

Field = **id**  
Type = **INT**  
Attributes = **UNSIGNED**  
Index = **Primary**  
A\_I = checked

The **A\_I** or **auto\_increment** will automatically assign a sequential number to each row. The **primary key** option sets the id number as the table's primary index.

File Edit View History Bookmarks Tools Help

David GUNKEL - Outlook 10.159.9.155 / localhost / eb... Widgets International

10.159.9.155/phpmyadmin/index.php?token=940eac033dec15acb5843d19df3c52f3#PMAURL-30:tbl\_structure.php?db=eban Search

phpMyAdmin

Server: localhost » Database: ebarchus » Table: products2

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 product_name	varchar(60)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	2 product_number	int(8)		UNSIGNED	No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	3 product_price	double(5,2)		UNSIGNED	No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	4 product_description	text	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	5 id	int(10)		UNSIGNED	No	None	AUTO_INCREMENT	Change Drop Primary Unique Index More

Check All With selected: Browse Change Drop Primary Unique Index

Print view Relation view Propose table structure Track table Move columns

Add 1 column(s) At End of Table At Beginning of Table After product\_name Go

+ Indexes

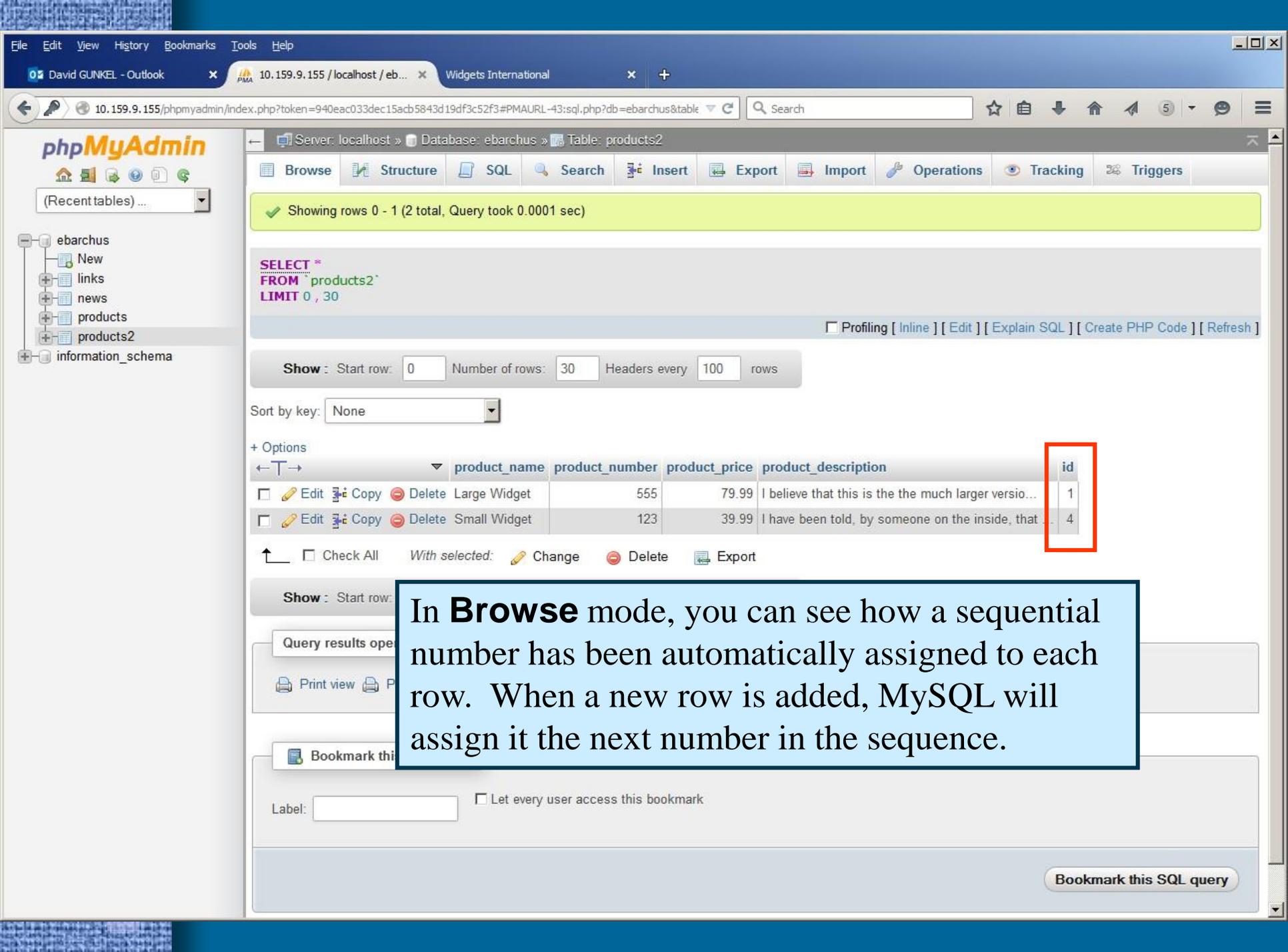
Information

Space usage		Row statistics	
Data	16 KiB	Format	
Index	0 B	Collation	
Total	16 KiB	Next autoindex	
		Creation	Apr 18,

The `mcrypt` extension is missing. Please check your PHP configuration.

Results – A new field has been added to the table.

Select **browse** to see how it effects the table's data.



Showing rows 0 - 1 (2 total, Query took 0.0001 sec)

```
SELECT *
FROM `products2`
LIMIT 0, 30
```

Profiling [ Inline ] [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Sort by key: None

+ Options

	product_name	product_number	product_price	product_description	id
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Large Widget	555	79.99	I believe that this is the the much larger versio...	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Small Widget	123	39.99	I have been told, by someone on the inside, that	4

Check All With selected:  Change  Delete  Export

In **Browse** mode, you can see how a sequential number has been automatically assigned to each row. When a new row is added, MySQL will assign it the next number in the sequence.

Show : Start row:

Query results open

Print view  Print

Bookmark this

Label:   Let every user access this bookmark

Bookmark this SQL query

Widgets International - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.comm1.niu.edu:8080/gunkel/version2/editproduct.php

# Widgets International

- News
- Products
- Links
- Home
- Admin

## Edit Product List

**Product Name**

**Product Number**

**Product Price**

**Product Description**

< > Search

Add Update Delete

© 2004 Widgets International

Done

Modify addproduct.php to include the ability to SELECT, INSERT, UPDATE, DELETE, and search for individual records in the database.

```

<?php
include "adminheader.inc";
echo "<div>Edit Product List</div></div>";
function check_mysql()
{
    if(mysql_errno()>0)
    {
        die ("<div> - mysql_errno():".mysql_error()."</div>");
    }
}

$dbh=mysql_connect ("localhost");
if (!$dbh)
{
    die ("Failed to open the Database");
}

mysql_select_db ("devid_gunkel");
check_mysql();
if (isset($id))
{
    $id=0;
}
if (isset($previous))
{
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE id < $id ORDER BY id DESC";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($next))
{
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE id > $id ORDER BY id ASC";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($search))
{
    $id=0;
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($add))
{
    $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
            VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
    $result = mysql_query($query);
    check_mysql();
    $id = mysql_insert_id();
    $message = "Product Added";
}
elseif (isset($update))
{
    $query = "UPDATE products SET product_name='product_name', product_number='product_number',
            product_price='product_price', product_description='product_description' WHERE id = $id";
    $result = mysql_query($query);
    check_mysql();
    $id = mysql_insert_id();
    $message = "Product Updated";
}
elseif (isset($delete))
{
    $query = "DELETE FROM products WHERE id = $id";
    $result = mysql_query($query);
    check_mysql();
    $product_name = "";
    $product_number = "";
    $product_price = "";
    $product_description = "";
    $message = "Product Deleted";
}
$product_name = trim($product_name);
$product_number = trim($product_number);
$product_price = trim($product_price);
$product_description = trim($product_description);
?>
<form method="post" action="editproduct.php">
<input type="text" name="product_name" value="$product_name" /> </input>
<input type="text" name="product_number" value="$product_number" /> </input>
<input type="text" name="product_price" value="$product_price" /> </input>
<input type="text" name="product_description" value="$product_description" />
<input type="submit" name="previous" value="Previous" />
<input type="submit" name="next" value="Next" />
<input type="submit" name="search" value="Search" />

```

```
editproduct - Notepad
File Edit Format View Help

<?php
include "adminheader.inc";

function check_mysql()
{
    if(mysql_errno())>0)
    {
        die ("<?> " . mysql_errno().": ".mysql_error()."<?>");
    }
}

$dbh=mysql_connect ("localhost");
if (!$dbh)
{
    die ("Failed to open the Database");
}

mysql_select_db("devid_gunkal");
check_mysql();
if(isset($_id))
{
    $id=0;

    if(isset($_previous))
    {
        $query = "SELECT id, product_name, product_number, product_price, product_description
        FROM products WHERE id < $id ORDER BY id DESC";
        $result = mysql_query($query);
        check_mysql();
        $row = mysql_fetch_row($result);
        check_mysql();
        if ($row[0] > 0)
        {
            $id = $row[0];
            $product_name = $row[1];
            $product_number = $row[2];
            $product_price = $row[3];
            $product_description = $row[4];
        }
    }
    elseif(isset($_next))
    {
        $query = "SELECT id, product_name, product_number, product_price, product_description
        FROM products WHERE id > $id ORDER BY id ASC";
        $result = mysql_query($query);
        check_mysql();
        $row = mysql_fetch_row($result);
        check_mysql();
        if ($row[0] > 0)
        {
            $id = $row[0];
            $product_name = $row[1];
            $product_number = $row[2];
            $product_price = $row[3];
            $product_description = $row[4];
        }
    }
    elseif(isset($_search))
    {
        $id=0;
        $query = "SELECT id, product_name, product_number, product_price, product_description
        FROM products WHERE product_name LIKE '%product_name%' AND id > $id";
        $result = mysql_query($query);
        check_mysql();
        $row = mysql_fetch_row($result);
        check_mysql();
        if ($row[0] > 0)
        {
            $id = $row[0];
            $product_name = $row[1];
            $product_number = $row[2];
            $product_price = $row[3];
            $product_description = $row[4];
        }
    }
    elseif(isset($_add))
    {
        $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
        VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
        $result = mysql_query($query);
        check_mysql();
        $id = mysql_insert_id();
        $message = "Product Added";
    }
    elseif(isset($_update))
    {
        $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
        product_price='$product_price', product_description='$product_description' WHERE id = $id";
        $result = mysql_query($query);
        check_mysql();
        $id = mysql_insert_id();
        $message = "Product Updated";
    }
    elseif(isset($_delete))
    {
        $query = "DELETE FROM products WHERE id = $id";
        $result = mysql_query($query);
        check_mysql();
        $product_name = "";
        $product_number = "";
        $product_price = "";
        $product_description = "";
        $message = "Product Deleted";
    }
}

$product_name = trim($product_name);
$product_number = trim($product_number);
$product_price = trim($product_price);
$product_description = trim($product_description);
?>
<form method="post" action="editproduct.php">
<input type="text" name="product_name" value="<?php echo $product_name;" /> </input>
<input type="text" name="product_number" value="<?php echo $product_number;" /> </input>
<input type="text" name="product_price" value="<?php echo $product_price;" /> </input>
<input type="text" name="product_description" rows="8" cols="70" value="<?php echo $product_description;" />
<input type="submit" name="previous" value="Previous" />
<input type="submit" name="next" value="Next" />
<input type="submit" name="search" value="Search" />
</form>
```

Make a connection to the MySQL server and select your database.



```

<?php
include "adminheader.inc";
echo "<div>Edit Product List</div>";
function check_mysql()
{
    if(mysql_errno()>0)
    {
        die ("<div> - mysql_errno():".mysql_error()."</div>");
    }
}
$dbh=mysql_connect ("localhost");
if (!$dbh)
{
    die ("Failed to open the Database");
}
mysql_select_db ("devid_gunkel");
check_mysql();
if (isset($id))
{
    $id=0;
}
if (isset($previous))
{
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE id < $id ORDER BY id DESC";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($next))
{
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE id > $id ORDER BY id ASC";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($search))
{
    $id=0;
    $query = "SELECT id, product_name, product_number, product_price, product_description
            FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
    $result = mysql_query($query);
    check_mysql();
    $row = mysql_fetch_row($result);
    check_mysql();
    if ($row[0] > 0)
    {
        $id          = $row[0];
        $product_name = $row[1];
        $product_number = $row[2];
        $product_price = $row[3];
        $product_description = $row[4];
    }
}
elseif (isset($add))
{
    $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
            VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
    $result = mysql_query($query);
    check_mysql();
    $id = mysql_insert_id();
    $message = "Product Added";
}
elseif (isset($update))
{
    $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
            product_price='$product_price', product_description='$product_description' WHERE id = $id";
    $result = mysql_query($query);
    check_mysql();
    $id = mysql_insert_id();
    $message = "Product Updated";
}
elseif (isset($delete))
{
    $query = "DELETE FROM products WHERE id = $id";
    $result = mysql_query($query);
    check_mysql();
    $product_name = "";
    $product_number = "";
    $product_price = "";
    $product_description = "";
    $message = "Product Deleted";
}
$product_name = trim($product_name);
$product_number = trim($product_number);
$product_price = trim($product_price);
$product_description = trim($product_description);

<form method="post" action="editproduct.php">
<input type="text" name="product_name" value="$product_name" />
<input type="text" name="product_number" value="$product_number" />
<input type="text" name="product_price" value="$product_price" />
<input type="text" name="product_description" value="$product_description" />
<input type="submit" name="previous" value="Previous" />
<input type="submit" name="next" value="Next" />
<input type="submit" name="search" value="Search" />
    
```

HTML form with three text input fields and one text area field. This form will have a number of submit buttons. The values associated with these buttons are used by the **isset( )** functions to determine what operations to perform on the information that is entered on the form.

```
editproduct - Notepad
File Edit Format View Help
<?php
include "adminheader.inc";
echo "<h2>Edit Product List</h2>";
function check_mysql()
{
if (mysql_errno())>0)

```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><hr>";
21 function check_mysql()
22 {
23     if(mysql_errno())>0)
24     {
25         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();
```

```
<input type="text" name="product_price" /> <input type="text" value="" /> </p>
<p><input type="text" name="product_description" />
</p>
<input type="text" name="product_description" rows="8" cols="10" />
</p>
<input type="submit" name="previous" value="Previous" />
<input type="submit" name="next" value="Next" />
<input type="submit" name="search" value="Search" /></p>
```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><hr>";
21 function check_mysql()
22 {
23     if(mysql_errno()>0)
24     {
25         die ("<br>" . mysql_errno().": ".mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();
```

Check for authentication.

Initialize form variables. Note there are a lot more than in the previous examples. This is because we now have a number of clickable buttons on the form (i.e. next, previous, search, etc.)

```

1  <?php
2  if (empty($_COOKIE['username']))
3  {
4      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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><br>";
21 function check_mysql()
22 {
23     if(mysql_errno()>0)
24     {
25         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();

```

Declare a function to do error checking; call it `check_mysql()`. This function takes the following argument: if the `mysql_errno()` is greater than zero (meaning that there is at least one error with the mysql queries), then kill the operation and display an error message.

This approach is more economical than including error checking statements every time you execute a query.

```

1  <?php
2  if (empty($_COOKIE['username']))
3  {
4      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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><hr>";
21 function check_mysql()
22 {
23     if(mysql_errno()>0)
24     {
25         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();

```

Make a connection to the MySQL server and select your database. You can (and should) cut and paste this from the previous exercises. Call the `check_mysql()` function in order to check for errors.

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><hr>";
21 function check_mysql()
22 {
23     if(mysql_errno()>0)
24     {
25         die ("<br> . mysql_errno().": ".mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();
```

```
35 if(!isset($id))
36 {
1  <?php
2  if (empty($_COOKIE['username']))
3  {
4      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'];
10 $product_description = $_POST['product_description'];
11 $previous = $_POST['previous'];
12 $next = $_POST['next'];
13 $search = $_POST['search'];
14 $add = $_POST['add'];
15 $update = $_POST['update'];
16 $delete = $_POST['delete'];
17 $id = $_POST['id'];
18
19 include "adminheader.inc";
20 echo "<h2>Edit Product List</h2><hr>";
21 function check_mysql()
22 {
23     if(mysql_errno()>0)
24     {
25         die ("<br>" . mysql_errno().": " .mysql_error()."<br>");
26     }
27 }
28 $dbh=mysql_connect ("localhost","ebarchus","01570367");
29 if (!$dbh)
30 {
31     die ("Failed to open the Database");
32 }
33 mysql_select_db("ebarchus");
34 check_mysql();
71 }
72 }
```

Two SELECT queries. One for moving backwards through the records (“previous”) and another for moving forward (“next”).

Begin by setting the id number to 0. This id number refers to the id we added to the database table. If the \$id variable is not set, then set its value to 0.

```
35 if(!isset($id))
36 {
37     $id=0;
38 }
39 if(isset($previous))
40 {
41     $query = "SELECT id, pr
42             FROM products
43 $result = mysql_query($
44 check_mysql();
45 $row = mysql_fetch_row
46 check_mysql();
47 if ($row[0] > 0)
48 {
49     $id           = $row[0];
50     $product_name = $row[1];
51     $product_number = $row[2];
52     $product_price = $row[3];
53     $product_description = $row[4];
54 }
55 }
56 elseif (isset($next))
57 {
58     $query = "SELECT id, product_name, product_number, product_price, product_description
59             FROM products WHERE id > $id ORDER BY id ASC";
60     $result = mysql_query($query);
61     check_mysql();
62     $row = mysql_fetch_row($result);
63     check_mysql();
64     if ($row[0] > 0)
65     {
66         $id           = $row[0];
67         $product_name = $row[1];
68         $product_number = $row[2];
69         $product_price = $row[3];
70         $product_description = $row[4];
71     }
72 }
```

```

35  if(!isset($id))
36  {
37      $id=0;
38  }
39  if(isset($previous))
40  {
41      $query = "SELECT id, product_name, product_number, product_price, product_description
42              FROM products WHERE id < $id ORDER BY id DESC";
43      $result = mysql_query($query);
44      check_mysql();
45      $row = mysql_fetch_row($result);
46      check_mysql();
47      if ($row[0] > 0)
48      {
49          $id           = $row[0];
50          $product_name = $row[1];
51          $product_number = $row[2];
52          $product_price = $row[3];
53          $product_description = $row[4];
54      }
55  }
56  elseif (isset($next))
57  {
58      $query = "SELECT id, product_name, prod
59              FROM products WHERE id > $id
60      $result = mysql_query($query);
61      check_mysql();
62      $row = mysql_fetch_row($result);
63      check_mysql();
64      if ($row[0] > 0)
65      {
66          $id           = $row[0];
67          $product_name = $row[1];
68          $product_number = $row[2];
69          $product_price = $row[3];
70          $product_description = $row[4];
71      }
72  }

```

The first conditional statement responds to the user clicking the form's previous arrow.

If the variable `$previous` has a value (isset), then execute the following statements: perform a **SELECT** query on the *products* table **WHERE** the id number is less than the current value of the `$id` variable and arrange the records in descending order according to the id number. Assign the results of the query to the variable `$result`.

Invoke the `check_mysql()` function to check for and handle errors.

```

35  if(!isset($id))
36  {
37      $id=0;
38  }
39  if(isset($previous))
40  {
41      $query = "SELECT id, product_name, product_number, product_price, product_description
42              FROM products WHERE id < $id ORDER BY id DESC";
43      $result = mysql_query($query);
44      check_mysql();
45      $row = mysql_fetch_row($result);
46      check_mysql();
47      if ($row[0] > 0)
48      {
49          $id                = $row[0];
50          $product_name      = $row[1];
51          $product_number    = $row[2];
52          $product_price     = $row[3];
53          $product_description = $row[4];
54      }
55  }
56  elseif (isset($next))
57  {
58      $query = "SELECT id, product_name, produ
59              FROM products WHERE id > $id O
60      $result = mysql_query($query);
61      check_mysql();
62      $row = mysql_fetch_row($result);
63      check_mysql();
64      if ($row[0] > 0)
65      {
66          $id                = $row[0];
67          $product_name      = $row[1];
68          $product_number    = $row[2];
69          $product_price     = $row[3];
70          $product_description = $row[4];
71      }
72  }

```

Use the `mysql_fetch_row()` function to assign the `$result` of the `SELECT` query to the array `$row`. And again invoke the `check_mysql()` function.

If the value of `$row[0]` (which is the id number) is greater than 0, then extract values from the array and assign them to the variable names, i.e. assign the value of `$row[0]` to `$id`, the value of `$row[1]` to `$product_name`, etc.

```
35 if(!isset($id))
36 {
37     $id=0;
38 }
39 if(isset($previous))
40 {
41     $query = "SELECT
42             FROM pr
43     $result = mysql_
44     check_mysql();
45     $row = mysql_fetc
46     check_mysql();
47     if ($row[0] > 0)
48     {
49         $id
50         $product_name
51         $product_numbe
52         $product_price
53         $product_desc
54     }
55 }
```

The second conditional statement responds to the user clicking the form's next arrow.

If the variable `$next` has a value (isset), then execute the following statements: perform a **SELECT** query on the *products* table **WHERE** the id number is greater than the current value of the `$id` variable and arrange the records in ascending order according to the id number. Assign the results of the query to the variable `$result` and invoke the `check_mysql()` function.

```
56 elseif (isset($next))
57 {
58     $query = "SELECT id, product_name, product_number, product_price, product_description
59             FROM products WHERE id > $id ORDER BY id ASC";
60     $result = mysql_query($query);
61     check_mysql();
62     $row = mysql_fetch_row($result);
63     check_mysql();
64     if ($row[0] > 0)
65     {
66         $id           = $row[0];
67         $product_name = $row[1];
68         $product_number = $row[2];
69         $product_price = $row[3];
70         $product_description = $row[4];
71     }
72 }
```

```
35 if(!isset($id))
36 {
37     $id=0;
38 }
39 if(isset($previous))
40 {
41     $query = "SELECT id, product_
42             FROM products WHERE
43 $result = mysql_query($query)
44 check_mysql();
45 $row = mysql_fetch_row($result)
46 check_mysql();
47 if ($row[0] > 0)
48 {
49     $id                = $row[0];
50     $product_name     = $row[1];
51     $product_number   = $row[2];
52     $product_price    = $row[3];
53     $product_description = $row[4];
54 }
55 }
56 elseif (isset($next))
57 {
58     $query = "SELECT id, product_name, product_number, product_price, product_description
59             FROM products WHERE id > $id ORDER BY id ASC";
60 $result = mysql_query($query);
61 check_mysql();
62 $row = mysql_fetch_row($result);
63 check_mysql();
64 if ($row[0] > 0)
65 {
66     $id                = $row[0];
67     $product_name     = $row[1];
68     $product_number   = $row[2];
69     $product_price    = $row[3];
70     $product_description = $row[4];
71 }
72 }
```

Use the `mysql_fetch_row()` function to assign the \$result of the SELECT query to the array \$row and invoke the `check_mysql()` function.

If the value of \$row[0] (which is the id number) is greater than 0, then extract values from the array and assign them to the variable names, i.e. assign the value of \$row[0] to \$id, the value of \$row[1] to \$product\_name, etc.

```
35 if(!isset($id))
36 {
37     $id=0;
38 }
39 if(isset($previous))
40 {
41     $query = "SELECT id, product_name, product_number, product_price, product_description
42             FROM products WHERE id < $id ORDER BY id DESC";
43     $result = mysql_query($query);
44     check_mysql();
45     $row = mysql_fetch_row($result);
46     check_mysql();
47     if ($row[0] > 0)
48     {
49         $id           = $row[0];
50         $product_name = $row[1];
51         $product_number = $row[2];
52         $product_price = $row[3];
53         $product_description = $row[4];
54     }
55 }
56 elseif (isset($next))
57 {
58     $query = "SELECT id, product_name, product_number, product_price, product_description
59             FROM products WHERE id > $id ORDER BY id ASC";
60     $result = mysql_query($query);
61     check_mysql();
62     $row = mysql_fetch_row($result);
63     check_mysql();
64     if ($row[0] > 0)
65     {
66         $id           = $row[0];
67         $product_name = $row[1];
68         $product_number = $row[2];
69         $product_price = $row[3];
70         $product_description = $row[4];
71     }
72 }
```

```
73 elseif (isset($search))
```

```
35 if(!isset($id))
```

```
36 {  
37     $id=0;  
38 }
```

```
39 if(isset($previous))
```

```
40 {  
41     $query = "SELECT id, product_name, product_number, product_price, product_description  
42             FROM products WHERE id < $id ORDER BY id DESC";  
43     $result = mysql_query($query);  
44     check_mysql();  
45     $row = mysql_fetch_row($result);  
46     check_mysql();  
47     if ($row[0] > 0)  
48     {  
49         $id           = $row[0];  
50         $product_name = $row[1];  
51         $product_number = $row[2];  
52         $product_price  = $row[3];  
53         $product_description = $row[4];  
54     }  
55 }
```

```
56 elseif (isset($next))
```

```
57 {  
58     $query = "SELECT id, product_name, product_number, product_price, product_description  
59             FROM products WHERE id > $id ORDER BY id ASC";  
60     $result = mysql_query($query);  
61     check_mysql();  
62     $row = mysql_fetch_row($result);  
63     check_mysql();  
64     if ($row[0] > 0)  
65     {  
66         $id           = $row[0];  
67         $product_name = $row[1];  
68         $product_number = $row[2];  
69         $product_price  = $row[3];  
70         $product_description = $row[4];  
71     }  
72 }
```

```
118 $message = "Product Deleted";
```

```

73 elseif (isset($search))
74 {
75     $id=0;
76     $query = "SELECT id, product_name, product_number, product_price, product_description
77             FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
78     $result = mysql_query($query);
79     check_mysql();
80     $row = mysql_fetch_row($result);
81     check_mysql();
82     if ($row[0] > 0)
83     {
84         $id           = $row[0];
85         $product_name = $row[1];
86         $product_number = $row[2];
87         $product_price = $row[3];
88         $product_description = $row[4];
89     }
90 }
91 elseif (isset($add))
92 {
93     $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
94             VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
95     $result = mysql_query($query);
96     check_mysql();
97     $id = mysql_insert_id();
98     $message = "Product Added";
99 }
100 elseif (isset($update))
101 {
102     $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
103             product_price='$product_price', product_description='$product_description' WHERE id = $id";
104     $result = mysql_query($query);
105     check_mysql();
106     $id = mysql_insert_id();
107     $message = "Product Updated";
108 }
109 elseif (isset($delete))
110 {
111     $query = "DELETE FROM products WHERE id = $id";
112     $result = mysql_query($query);
113     check_mysql();
114     $product_name = "";
115     $product_number = "";
116     $product_price = "";
117     $product_description = "";
118     $message = "Product Deleted";

```

Four conditional statements to search, add, update and delete information in the database table.

```

73  elseif (isset($search))
74  {
75      $id=0;
76      $query = "SELECT id, product_name, product_number, product_price, product_description
77              FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
78      $result = mysql_query($query);
79      check_mysql();
80      $row = mysql_fetch_row($result);
81      check_mysql();
82      if ($row[0] > 0)
83      {
84          $id          = $row[0];
85          $product_name = $row[1];
86          $product_number = $row[2];
87          $product_price = $row[3];
88          $product_description = $row[4];
89      }
90  }
91  elseif (isset($add))
92  {
93      $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
94              VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
95      $result = mysql_query($query);
96      check_mysql();
97      $id = mysql_insert_id();
98      $message = "Product Added";
99  }
100 elseif (isset($update))
101 {
102     $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
103             product_price='$product_price', product_description='$product_description' WHERE product_id=$id";
104     $result = mysql_query($query);
105     check_mysql();
106     $id = mysql_insert_id();
107     $message = "Product Updated";
108 }
109 elseif (isset($delete))
110 {
111     $query = "DELETE FROM products WHERE product_id=$id";
112     $result = mysql_query($query);
113     check_mysql();
114     $product_name = "";
115     $product_number = "";
116     $product_price = "";
117     $product_description = "";
118     $message = "Product Deleted";

```

Third conditional statement responds to the user clicking the form's search button.

If the variable `$search` has a value, then execute the following statements: set the value of `$id` to 0, perform a **SELECT** query on the *products* table **WHERE** the `product_name` is **LIKE** the value of `$product_name` **AND** the id number is greater than the current value of `$id` (which is 0). Assign the results of the query to the variable `$result` and invoke `check_mysql()` function.

Use the `mysql_fetch_row()` function to assign the `$result` of the **SELECT** query to the array `$row` and invoke the `check_mysql()` function.

If the value of `$row[0]` (which is the id number) is greater than 0, then extract values from the array and assign them to the variable names, i.e. assign the value of `$row[0]` to `$id`, the value of `$row[1]` to `$product_name`, etc.

```
73 elseif (isset($search))
74 {
75     $id=0;
76     $query = "SELECT id, product_name, product_number, product_price, product_description
77             FROM products
78     $result = mysql_query($query);
79     check_mysql();
80     $row = mysql_fetch_row($result);
81     check_mysql();
82     if ($row[0] > 0)
83     {
84         $id = $row[0];
85         $product_name = $row[1];
86         $product_number = $row[2];
87         $product_price = $row[3];
88         $product_description = $row[4];
89     }
90 }
```

The fourth conditional statement responds to the user clicking the form's add button.

If the variable \$add has a value (isset), then execute an INSERT query on the *products* table, assign the results of the query to the variable \$result, and check for errors by invoking the check\_mysql() function.

```
91 elseif (isset($add))
92 {
93     $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
94             VALUES ('$product_name', '$product_number', '$product_price', '$product_description')";
95     $result = mysql_query($query);
96     check_mysql();
97     $id = mysql_insert_id();
98     $message = "Product Added";
99 }
```

```
100 elseif (isset($update))
101 {
102     $query = "UPDATE products SET product_name = '$product_name', product_number = '$product_number',
103             product_price = '$product_price', product_description = '$product_description' WHERE id = '$id'";
104     $result = mysql_query($query);
105     check_mysql();
106     $id = mysql_insert_id();
107     $message = "Product Updated";
108 }
109 elseif (isset($delete))
110 {
111     $query = "DELETE FROM products WHERE id = '$id'";
112     $result = mysql_query($query);
113     check_mysql();
114     $product_name = "";
115     $product_number = "";
116     $product_price = "";
117     $product_description = "";
118     $message = "Product Deleted";
```

Assign the value of the INSERTED record's id number to the variable \$id. Do this by using the mysql\_insert\_id() function, which will return the value of a record's id number. Finally, set the \$message variable to the string value "Product Added."

```
73 elseif (isset($search))
74 {
75     $id=0;
76     $query = "SELECT id, product_name, product_number, product_price, product_description
77             FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
78     $result = mysql_query($query);
79     check_mysql();
80     $row = mysql_fetch_row($result);
81     $id = $row[0];
82 }
83 }
84 }
85 }
86 }
87 }
88 }
89 }
90 }
91 }
92 }
93 }
94 }
95 }
96 }
97 }
98 }
99 }
```

The fifth conditional statement responds to the user clicking the form's update button.

If the variable \$update has a value (isset), then execute an UPDATE query on the *products* table that SETS values for each of the four elements WHERE the id number is equal to the value of \$id. Assign the results of the query to the variable \$result, and check for errors by invoking the check\_mysql() function.

Set \$id to the UPDATED record's id number by using the mysql\_insert\_id() function. And set the \$message variable to the string value "Product Updated."

```
100 elseif (isset($update))
101 {
102     $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
103             product_price='$product_price', product_description='$product_description' WHERE id = $id";
104     $result = mysql_query($query);
105     check_mysql();
106     $id = mysql_insert_id();
107     $message = "Product Updated";
108 }
109 }
110 }
111 }
112 }
113 }
114 }
115 }
116 }
117 }
118 }
```

```

73 elseif (isset($search))
74 {
75     $id=0;
76     $query = "SELECT id, product_name, product_number, product_price, product_description
77             FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
78     $result = mysql_query($query);
79     check_mysql();
80     $row = mysql_fetch_row($result);
81     check_mysql();
82     if ($row[0] > 0)
83     {
84         $id          = $row[0];
85         $product_name = $row[1];
86         $product_number = $row[2];
87         $product_price = $row[3];
88         $product_
89     }
90 }

```

The sixth and final conditional statement responds to the user clicking the form's delete button.

```

91 elseif (isset($
92 {
93     $query = "IN
94           VA
95     $result = my
96     check_mysql(
97     $id = mysql_
98     $message = "
99 }
100 elseif (isset($
101 {
102     $query = "UP
103           PR
104     $result = my
105     check_mysql(
106     $id = mysql_
107     $message = "Product Updated";
108 }

```

If the variable \$delete has a value (isset), then execute a DELETE query on the *products* table products WHERE the id number is equal to the value of \$id. Assign the results of the query to the variable \$result, and check for errors by invoking the check\_mysql() function.

Set the value of all the variables to an empty string value, and set the \$message variable to the string value "Product Deleted."

```

109 elseif (isset($delete))
110 {
111     $query = "DELETE FROM products WHERE id = $id";
112     $result = mysql_query($query);
113     check_mysql();
114     $product_name      = "";
115     $product_number    = "";
116     $product_price     = "";
117     $product_description = "";
118     $message = "Product Deleted";

```

```
73 elseif (isset($search))
74 {
75     $id=0;
76     $query = "SELECT id, product_name, product_number, product_price, product_description
77             FROM products WHERE product_name LIKE '%$product_name%' AND id > $id";
78     $result = mysql_query($query);
79     check_mysql();
80     $row = mysql_fetch_row($result);
81     check_mysql();
82     if ($row[0] > 0)
83     {
84         $id           = $row[0];
85         $product_name = $row[1];
86         $product_number = $row[2];
87         $product_price = $row[3];
88         $product_description = $row[4];
89     }
90 }
91 elseif (isset($add))
92 {
93     $query = "INSERT INTO products (product_name, product_number, product_price, product_description)
94             VALUES ('$product_name', '$product_number', '$product_price', '$product_description)";
95     $result = mysql_query($query);
96     check_mysql();
97     $id = mysql_insert_id();
98     $message = "Product Added";
99 }
100 elseif (isset($update))
101 {
102     $query = "UPDATE products SET product_name='$product_name', product_number='$product_number',
103             product_price='$product_price', product_description='$product_description' WHERE id = $id";
104     $result = mysql_query($query);
105     check_mysql();
106     $id = mysql_insert_id();
107     $message = "Product Updated";
108 }
109 elseif (isset($delete))
110 {
111     $query = "DELETE FROM products WHERE id = $id";
112     $result = mysql_query($query);
113     check_mysql();
114     $product_name = "";
115     $product_number = "";
116     $product_price = "";
117     $product_description = "";
118     $message = "Product Deleted";
```

```
73     elseif (isset($search))
74     {
75         $id=0;
119     }
120     $product_name = trim($product_name);
121     $product_number = trim($product_number);
122     $product_price = trim($product_price);
123     $product_description = trim($product_description);
124     ?>
125     <form method="post" action="editproduct.php">
126     <p><b>Product Name</b>
127     <br><input type="text" name="product_name" <?php echo "VALUE=\"\$product_name\" ?>> </p>
128     <p><b>Product Number</b>
129     <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130     <p><b>Product Price</b>
131     <br><input type="text" name="product_price" <?php echo "VALUE=\"\$product_price\" ?>> </p>
132     <p><b>Product Description</b>
133     <br><textarea name="product_description" rows="8" cols="70" > <?php echo $product_description ?>
134     </textarea></p> <br>
135     <input type="submit" name="previous" value="<">
136     <input type="submit" name="next" value=">">
137     <input type="submit" name="search" value="Search"> <br><br>
138     <input type="submit" name="add" value="Add">
139     <input type="submit" name="update" value="Update">
140     <input type="submit" name="delete" value="Delete">
141     <input type="hidden" name="id" <?php echo "VALUE=\"\$id\" ?>>
142     </form>
143     <?php
144     if (isset($message))
145     {
146         echo "<br>\$message";
147     }
148     include "footer.inc";
149     ?>
116     $product_price = "";
117     $product_description = "";
118     $message = "Product Deleted";
```

```
119     }
120     $product_name = trim($product_name);
121     $product_number = trim($product_number);
122     $product_price = trim($product_price);
123     $product_description = trim($product_description);
124     ?>
125     <form method="post" action="editproduct.php">
126     <p><b>Product Name</b>
127     <br><input type="text" name="product_name" <?php echo $product_name ?> </p>
128     <p><b>Product Number</b>
129     <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130     <p><b>Product Price</b>
131     <br><input type="text" name="product_price" <?php echo "VALUE=\"\$product_price\" ?>> </p>
132     <p><b>Product Description</b>
133     <br><textarea name="product_description" rows="8" cols="70" > <?php echo $product_description ?>
134     </textarea></p> <br>
135     <input type="submit" name="previous" value="<">
136     <input type="submit" name="next" value=">">
137     <input type="submit" name="search" value="Search"> <br><br>
138     <input type="submit" name="add" value="Add">
139     <input type="submit" name="update" value="Update">
140     <input type="submit" name="delete" value="Delete">
141     <input type="hidden" name="id" <?php echo "VALUE=\"\$id\" ?>>
142     </form>
143     <?php
144     if (isset($message))
145     {
146         echo "<br>$message";
147     }
148     include "footer.inc";
149     ?>
```

Use the trim() function to trim whitespace from the values of the variables. This avoids having to deal with empty spaces in data entered on the form.

Create an HTML form and set the action to editproduct.php. The form has three text input fields and one textarea field.

```
119 }
120 $product_
121 $product_
122 $product_
123 $product_
124 ?>
125 <form method="post" action="editproduct.php">
126 <p><b>Product Name</b>
127 <br><input type="text" name="product_name" <?php echo "VALUE=\"\$product_name\" ?>> </p>
128 <p><b>Product Number</b>
129 <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130 <p><b>Product Price</b>
131 <br><input type="text" name="product_price" <?php echo "VALUE=\"\$product_price\" ?>> </p>
132 <p><b>Product Description</b>
133 <br><textarea name="product_description" rows="8" cols="70" > <?php echo \$product_description ?>
</textarea></p> <br>
134 <input type="submit" name="previous" value="<">
135 <input type="
136 <input type="
137 <input type="
138 <input type="
139 <input type="
140 <input type="
141 </form>
142 <?php
143 if (isset($message))
144 {
145     echo "<br>\$message";
146 }
147 include "footer.inc";
148 ?>
149
```

Use the **<?php echo "VALUE=\"\\$variable\_name\" ?>** statement to insert the value of the variable in the form entry field. This statement is placed inside the input tag for the three text fields and between the opening and closing tags for the textarea.

```

119 }
120 $product_name = trim($product_name);
121 $product_number = trim($product_number);
122 $product_price = trim($product_price);
123 $product_description = trim($product_description);
124 ?>
125 <form method="post" action="editproduct.php">
126 <p><b>Product Name</b>
127 <br><input type="text" name="product_name" <?php echo "VALUE=\"\$product_name\" ?>> </p>
128 <p><b>Product Number</b>
129 <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130 <p><b>Product Price</b>
131 <br><input type="text" name="product_price" <?php echo "VALUE=\"\$p
132 <p><b>Product Description</b>
133 <br><textarea name="product_description" rows="8" cols="70" > <?ph
</textarea></p> <br>
134 <input type="submit" name="previous" value="<">
135 <input type="submit" name="next" value=">">
136 <input type="submit" name="search" value="Search"> <br><br>
137 <input type="submit" name="add" value="Add">
138 <input type="submit" name="update" value="Update">
139 <input type="submit" name="delete" value="Delete">
140 <input type="hidden" name="id" <?php echo "VALUE=\"\$id\" ?>>
141 </form>
142 <?php
143 if (isset($message))
144 {
145     echo "<br> $message";
146 }
147 include "footer.inc";
148 ?>
149

```

Create six submit inputs (which will appear as six buttons on the form) and one hidden input.

The names assigned to these input options are the names that are checked in the php script by the `isset()` function.

The hidden input uses a php statement to access the value of the id number.

```

119 }
120 $product_name = trim($product_name);
121 $product_number = trim($product_number);
122 $product_price = trim($product_price);
123 $product_description = trim($product_description);
124 ?>
125 <form method="post" action="editproduct.php">
126 <p><b>Product Name</b>
127 <br><input type="text" name="product_name" <?php echo "VALUE=\"\$product_name\" ?>> </p>
128 <p><b>Product Number</b>
129 <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130 <p><b>Product Price</b>
131 <br><input type="text" name="product_price" <?php echo "VALUE=\"\$product_price\" ?>> </p>
132 <p><b>Product Description</b>
133 <br><textarea name="product_description" rows="8" cols="70" > <?php echo $product_description ?>
</textarea></p> <br>
134 <input type="submit" name="previous" value="<">
135 <input type="submit" name="next" value=">">
136 <input type="submit" name="search" value="Search"> <br><br>
137 <input type="submit" name="add" value="Add">
138 <input type="submit" name="update" value="Update">
139 <input type="submit" name="delete" value="Delete">
140 <input type="hidden" name="id" <?php echo "VALUE=\"\$id\" ?>>
141 </form>
142 <?php
143 if (isset($message))
144 {
145     echo "<br>$message";
146 }
147 include "footer.inc";
148 ?>
149

```

Check whether there is a value for the `$message` variable. If there is a value for this variable, then echo the message. Conclude the script by including the `footer.inc` file.

```
119 }
120 $product_name = trim($product_name);
121 $product_number = trim($product_number);
122 $product_price = trim($product_price);
123 $product_description = trim($product_description);
124 ?>
125 <form method="post" action="editproduct.php">
126 <p><b>Product Name</b>
127 <br><input type="text" name="product_name" <?php echo "VALUE=\"\$product_name\" ?>> </p>
128 <p><b>Product Number</b>
129 <br><input type="text" name="product_number" <?php echo "VALUE=\"\$product_number\" ?>> </p>
130 <p><b>Product Price</b>
131 <br><input type="text" name="product_price" <?php echo "VALUE=\"\$product_price\" ?>> </p>
132 <p><b>Product Description</b>
133 <br><textarea name="product_description" rows="8" cols="70" > <?php echo $product_description ?>
</textarea></p> <br>
134 <input type="submit" name="previous" value="<">
135 <input type="submit" name="next" value=">">
136 <input type="submit" name="search" value="Search"> <br><br>
137 <input type="submit" name="add" value="Add">
138 <input type="submit" name="update" value="Update">
139 <input type="submit" name="delete" value="Delete">
140 <input type="hidden" name="id" <?php echo "VALUE=\"\$id\" ?>>
141 </form>
142 <?php
143 if (isset($message))
144 {
145     echo "<br>$message";
146 }
147 include "footer.inc";
148 ?>
149
```

[http://gunkelweb.com/coms469/editproduct\\_code.pdf](http://gunkelweb.com/coms469/editproduct_code.pdf)

```
PHP code for editproduct.php, including database connection, form processing, and product management logic.
```

Widgets International - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.comm1.niu.edu:8080/gunkel/version2/editproduct.php

### Widgets International

- News
- Products
- Links
- Home
- Admin

#### Edit Product List

Product Name

Product Number

Product Price

Product Description

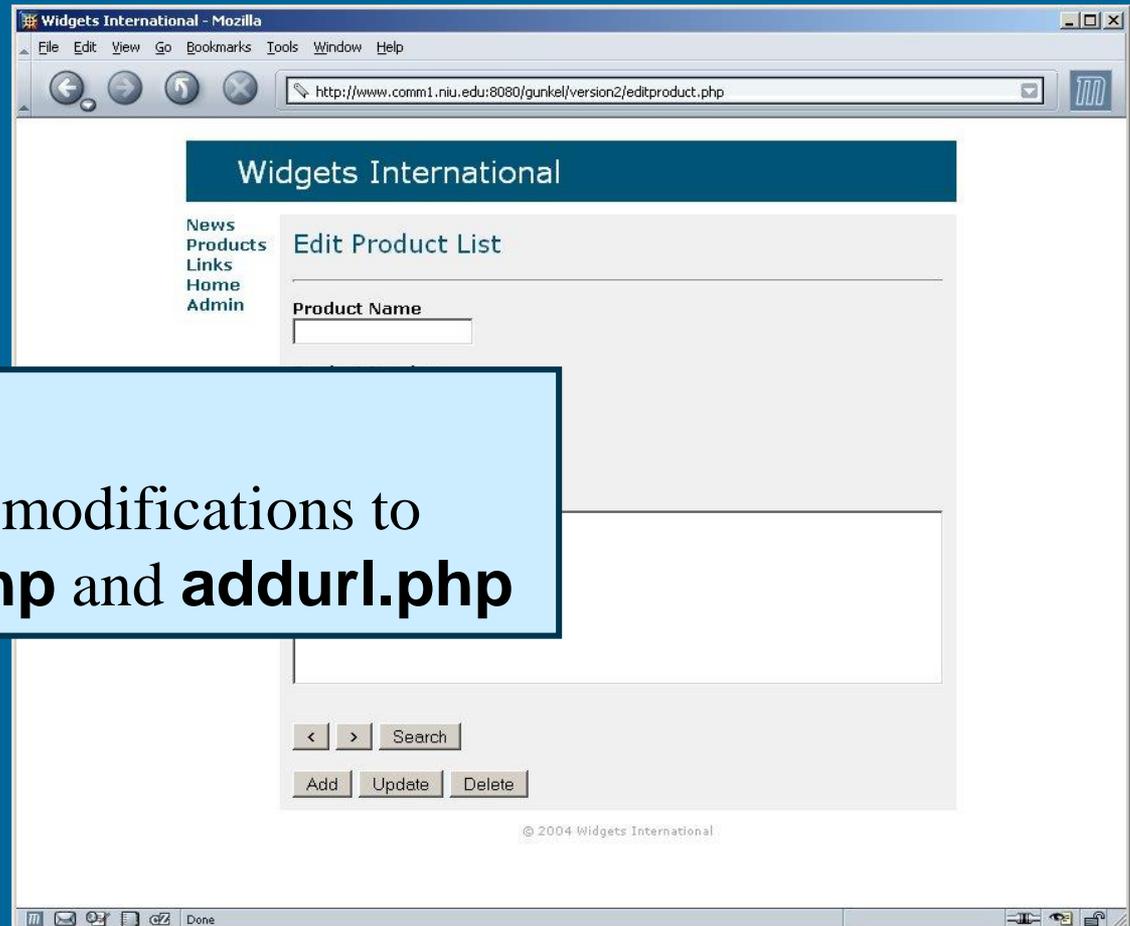
< > Search

Add Update Delete

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## Next Step

Make similar modifications to **addnews.php** and **addurl.php**



# Preview

- Course Conclusion
  - Careers & Future Direction
  - Course Evaluation
  - Project Two Workshop