

PERFUME BUCKET

Inserting Data

Add first information to the database:

First: John

Last: Smith

Phone: 01234 567890

Mobile: 00112 334455

Fax: 01234 567891

E-

mail: johnsmith@gowansnet.com

Web: <http://www.gowansnet.com>

This will all be put in with one command:

```
$query = "INSERT INTO contacts VALUES ('John','Smith','01234 567890','00112 334455','01234 567891','johnsmith@gowansnet.com','http://www.gowansnet.com');
```

\$query= is there because we are assigning this to the variable \$query (see the section above).

INSERT INTO contacts VALUES=

It tells the PHP → to insert into the table (called contacts) → the values in the brackets (which follow).

The part in the brackets:

→ contains all the information to add.

→ It uses all the fields in order and inserts the information from between the quotes.

For example:

John

will be inserted into the 2nd field which, in this table, is the 'first' field.

We are not inserting any value into the first field in the database (id). → This is because this field is going to act as an index field.

No two records in the database will have the same ID!

→ so when we set up the database we set ID to 'Auto Increment' → This means that if you assign it no value it will take the next number in the series. → This means that this first record will have the ID 1.



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D) Displaying data:

How to use forms and variables to insert information?

&

How to display the information in the database?

So far we have,

-created a database → put information into it.

In this part we will;

→ create an input page for our database

→ display the whole contents.

HTML Input

Inputting data with

→ using HTML pages is almost identical with PHP script.

The following code will show an HTML page with textboxes to enter the appropriate details:

```
<form action="insert.php" method="post">  
First Name: <input type="text" name="first"><br>  
Last Name: <input type="text" name="last"><br>  
Phone: <input type="text" name="phone"><br>  
Mobile: <input type="text" name="mobile"><br>  
Fax: <input type="text" name="fax"><br>  
E-mail: <input type="text" name="email"><br>  
Web: <input type="text" name="web"><br>  
<input type="Submit">  
</form>
```



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This page could, of course, be formatted and have other changes made to it. It is just a basic form to get you started. Next you will need to edit the script from last week. Instead of using information to input into the database, you will instead use variables:

```
<?
$username="username";
$password="password";
$database="your_database";

$first=$_POST['first'];
$last=$_POST['last'];
$phone=$_POST['phone'];
$mobile=$_POST['mobile'];
$fax=$_POST['fax'];
$email=$_POST['email'];
$web=$_POST['web'];

mysql_connect(localhost,$username,$password);
@mysql_select_db($database) or die( "Unable to select database");

$query = "INSERT INTO contacts VALUES
('$first','$last','$phone','$mobile','$fax','$email','$web)";
mysql_query($query);

mysql_close();
?>
```

Saved as → insert.php → so that it can be called by the HTML form.
Instead of the data being entered locally → it is being entered into the form & → stored in variables which are then → passed to the PHP.

You could also add to this script a message confirming the data input.



Outputting Data

Now we have record in our db → so how we can output this data using PHP. First you should be familiar with → Loops in PHP (used for outputting data)

The first command → MySQL query made up like this:

```
SELECT * FROM contacts
```

This is a basic MySQL command which will tell the script → to select all the records in the contacts table.

There will be output from this command → so it must be executed with the results being assigned to a variable:

```
$query="SELECT * FROM contacts";  
$result=mysql_query($query);
```

So all contents of the database is → now contained in a special array with the name \$result.

Before you can output this data:

We must change each piece → into a separate variable.

There are two stages to this:

→ First: Counting Rows:

You must know how many database rows there are. Use command:

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

It'll set the value of \$num to → be the number of rows stored in → \$result (the output you got from the database).

So now this can be used → in a loop → to get all the data → and output it on the screen.



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→ Second: Setting Up The Loop:

We must → Set up a loop to take each row of the result → and print out the data held there.

By using → \$num (you created above) → you can loop through all the rows.

In the code below, \$i is:

→ The number of times the loop has run.

→ Used to make sure the loop stops at the end of the results so there are no errors.

```
$i=0;  
while ($i < $num) {
```

CODE

```
$i++;  
}
```

This is a basic PHP loop and will execute the code the correct number of times. Each time \$i will be one greater than the time before. This is useful, as \$i can be used to tell the script which line of the results should be read. As the first line in MySQL output is 0, this will work correctly.

Assigning The Data To Variables

The final part of this output script is to assign each piece of data to its own variable. The following code is used to do this:

```
$variable=mysql_result($result,$i,"fieldname");
```

So to take each individual piece of data in our database we would use the following:

```
$first=mysql_result($result,$i,"first");  
$last=mysql_result($result,$i,"last");  
$phone=mysql_result($result,$i,"phone");  
$mobile=mysql_result($result,$i,"mobile");  
$fax=mysql_result($result,$i,"fax");  
$email=mysql_result($result,$i,"email");  
$web=mysql_result($result,$i,"web");
```

We do not need to get the ID field (although we could have done) because we have no



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Combining The Script

We can now write a full script to output the data. In this script the data is not formatted when it is output:

```
<?
$username="username";
$password="password";
$database="your_database";

mysql_connect(localhost,$username,$password);
@mysql_select_db($database) or die( "Unable to select database");
$query="SELECT * FROM contacts";
$result=mysql_query($query);

$num=mysql_numrows($result);

mysql_close();

echo "<b><center>Database Output</center></b><br><br>";

$i=0;
while ($i < $num) {

    $first=mysql_result($result,$i,"first");
    $last=mysql_result($result,$i,"last");
    $phone=mysql_result($result,$i,"phone");
    $mobile=mysql_result($result,$i,"mobile");
    $fax=mysql_result($result,$i,"fax");
    $email=mysql_result($result,$i,"email");
    $web=mysql_result($result,$i,"web");

    echo "<b>$first $last</b><br>Phone: $phone<br>Mobile: $mobile<br>Fax:
    $fax<br>E-mail: $email<br>Web: $web<br><hr><br>";

    $i++;
}

?>
```

