

PERFUME BUCKET

PHP & MySQL Review

Content:

- Introduction
 - Setting Up database
 - Inserting Information
 - Displaying Data
-

To learn how to construct my database;
PHP & MySQL Worksheet / Tutorial Summary

summarized sources:

<http://www.freewebmasterhelp.com/tutorials/phpmysql/4>

http://www.w3schools.com/sql/sql_where.asp



A) How to use PHP and the MySQL database to store information on the web and include it into your website?

You need three things to run PHP scripts which access MySQL databases:

- 1) Webserver. You can use Apache.
- 2) Install PHP to server. Download it from PHP.net
- 3) Download MySQL from MySQL homepage. (actual database software)
- 4) If your host wont allow you can use another web host
-->“Freedom2Surf”

-Install copy of PHPMyAdmin on your server. (free set of scripts-administrative interface for your MySQL)

B) Setting Up The Database

How to create a database in MySQL and prepare it for the data?

Database Construction

MySQL database → contain tables.

Each table is;

- separate and can have different fields.
- part of one database.
- contains records which are made up of fields.

Databases And Logins

Setting up a MySQL database → end up with → a database name, a user name and a password.

Install PHPMyAdmin → go to it to log in with your user name and password.

(If not you don't have must do all your database administration using PHP scripts.)



Creating A Table

First must create a table with your database.

A table is;

-a section for storing related information.

-In a table you will set up the different fields which will be used in that table.

(Because of this construction, nearly all of a site's database needs can be satisfied using just one database.)

Creating a table in PHPMyAdmin:

→ just type the name

→ select the number of fields and click the button.

→ From setup screen → create the fields for the database.

(If you are using a PHP script to create your database, the whole creation and setup will be done in one command.)

Fields

Fields and attributes available in MySQL.

Few of these here:

Field Type Description

TINYINT Small Integer Number

SMALLINT Small Integer Number

MEDIUMINT Integer Number

INT Integer Number

VARCHAR Text (maximum 256 characters)

TEXT Text



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Creating A Table With PHP

To create a table in PHP is slightly more difficult than with MySQL.
It takes the following format:

```
CREATE TABLE tablename {  
  
Fields  
  
}
```

The fields are defined as follows:

fieldname type(length) extra info,

The final field entered should not have a comma after it.

C) How to insert some information into your database?

Connecting To The Database

→ Connect to the MySQL database. (If you are not connected, your commands to the database will fail)

→ Specify the username, password and database name first.

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

→ Issue the command to start a database connection:

```
mysql_connect(localhost,$username,$password);
```

(This line tells PHP to connect to the MySQL database server at 'localhost')

Localhost means → the server that the site is running one.

If you are given a server address such as → sql.myserver.com → you should replace localhost with "sql.myserver.com" (including the quotes)



Important command:

```
mysql_close();
```

→ it closes the connection to the database server.

→ add this line under all your commands (to keep server running well)

Selecting The Database

After

You connect to db → you should select db

(which your username has access.)

```
Command: @mysql_select_db($database) or die( "Unable to select database");
```

This command tells PHP → to select the database stored in the variable \$database (which you set earlier).

If it cannot connect → output the text: Unable to select database

Executing Commands

(now we are

-connected to the server

-selected the database

Now we should begin → Executing commands on the server.

2 ways of executing a command.

1) Enter the command in PHP.

2) Define the command as a variable. This will set the variable with the results of the operation.

For first way → The command will look like this:

```
mysql_query($query);
```

(You can just repeat the same command over and over again without learning new ones. All you need to do is to change the variable.)

