cgl@www:/$ echo "Need to install mysql module for php, so that websites can use the database."
Need to install mysql module for php, so that websites can use the database.
cgl@www:/$
cgl@www:/$ apt-cache search php | grep mysql
php5-mysql - MySQL module for php5
libcherokee-mod-mysql - Cherokee web server - MySQL user validator plugin
php-mdb2-driver-mysql - PHP PEAR module to provide a MySQL driver for MDB2
php5-mysqli - MySQL module for php5 (Native Driver)
cgl@www:/$
cgl@www://$ sudo apt-get install php5-mysql
cgl@www:/$ sudo service apache2 restart
* Restarting web server apache2
... waiting
[ OK ]
cgl@www:/$
cgl@www:/$ sudo emacs /var/www/jane.dsutux.us/db_test.php
<?php

$mysqli = new mysqli("database.dsutux.us", "sanderson", "24spices", "kfc");
if($mysqli->connect_errno) {
    $error = "Failed to connect to MySQL: (" .
        $mysqli->connect_errno . ")" . $mysqli->connect_error;
    die($error);
}

echo "Connecting to the database.<br/>

$sql = "SELECT x FROM recipe"

echo "Choosing SQL statement.<br/>

$result = $mysqli->query($sql);

echo "Executing SQL statement.<br/>

while($row = $result->fetch_assoc()) {
    echo "x = " . $row['x'] . "<br/>"
}

echo "Done.<br/>

?>
Connecting to the database.
Choosing SQL statement.
Executing SQL statement.
Displaying query results.
\[ x = 51 \]
Done.
cgl@www:/$ echo "Next slides show errors."
Next slides show errors.
cgl@www:/$
Connecting to the database.
Failed to connect to MySQL: (2005) Unknown MySQL server host 'adatabase.dsutux.us' (2)
cgl@www:/$ tail -5 /var/log/apache2/error.log
[Thu Oct 03 08:16:00 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favico.ico
[Thu Oct 03 08:27:00 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favico.ico
[Thu Oct 03 08:27:13 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favico.ico
[Thu Oct 03 08:29:33 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysql() (HY000/2005): Unknown MySQL server host 'adatabase.dsutux.us' (2) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:29:33 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favico.ico

cgl@www:/$ 0
<?php

echo "Connecting to the database.<br/>
$db_conn = new mysqli("adatabase.dsutux.us", "sanders", "24spices", "kfc");
if($db_conn-&gt;connect_errno) {
    $error = "Failed to connect to MySQL: (" .
    $db_conn-&gt;connect_errno . ") " . $db_conn-&gt;connect_error;
    die($error);
}

echo "Choosing SQL statement.<br/>
$sql = "SELECT x FROM recipe"

echo "Executing SQL statement.<br/>
$result = $db_conn-&gt;query($sql);

echo "Displaying query results.<br/>
while($row = $result-&gt;fetch_assoc()) {
    echo " x = " . $row['x'] . "<br/>
}

echo "Done.<br/>
?>
Connecting to the database.
Failed to connect to MySQL: (1045) Access denied for user 'xsanders'@'www.dsutux.us' (using password: YES)
cgl@www/$ tail -5 /var/log/apache2/error.log
[Thu Oct 03 08:27:13 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:29:33 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (HY000/2005): Unknown MySQL server host 'adatabase.dsutux.us' (2) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:29:33 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:31:03 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (28000/1045): Access denied for user 'xsanders'@'www.dsutux.us' (using password: YES) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:31:03 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
cgl@www/$
<?php
echo "Connecting to the database.<br/>
$db_conn = new mysqli("database.dsutux.us", "xsanders", "24spices", "kfc");
if($db_conn->connect_errno) {
    $error = "Failed to connect to MySQL: (" .
    $db_conn->connect_errno . ")" . $db_conn->connect_error;
    die($error);
}

echo "Choosing SQL statement.<br/>
$sql = "SELECT x FROM recipe";

echo "Executing SQL statement.<br/>
$result = $db_conn->query($sql);

echo "Displaying query results.<br/>
while($row = $result->fetch_assoc()) {
    echo " x = ". $row['x'] . "<br/>
};

echo "Done.<br/>
";?

Connecting to the database.
Failed to connect to MySQL: (1045) Access denied for user 'sanders'@'www.dsutux.us'
(using password: YES)
cgl@www:/$ tail -5 /var/log/apache2/error.log
[Thu Oct 03 08:29:33 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:31:03 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (28000/1045): Access denied for user 'xsanders'@'www.dsutux.us' (using password: YES) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:31:03 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:31:48 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (28000/1045): Access denied for user 'sanders'@'www.dsutux.us' (using password: YES) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:31:48 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
cgl@www:/$
<?php
echo "Connecting to the database.<br/>
\n\n$db_conn = new mysqli("database.dsutux.us", "sanders", "124spices", "kfc");
if($db_conn-&gt;connect_errno) {
    $error = "Failed to connect to MySQL: (" .
    $db_conn-&gt;connect_errno . ")" . $db_conn-&gt;connect_error;
    die($error);
}

echo "Choosing SQL statement.<br/>
\n\n$sql = "SELECT x FROM recipe";

echo "Executing SQL statement.<br/>
\n\n$result = $db_conn-&gt;query($sql);

echo "Displaying query results.<br/>
\n\nwhile($row = $result-&gt;fetch_assoc()) {
    echo " x = " . $row['x'] . "<br/>
\n\n};

echo "Done.<br/>
\n\n?>
Connecting to the database.
Failed to connect to MySQL: (1044) Access denied for user 'sanderson'@'www.dsutux.us' to database 'kfcc'
cgl@www:/$ !tail

```
tail -5 /var/log/apache2/error.log
[Thu Oct 03 08:31:03 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:31:48 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (28000/1045): Access denied for user 'sanders'@'www.dsutux.us' (using password: YES) in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:31:48 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
[Thu Oct 03 08:32:34 2013] [error] [client 144.38.197.2] PHP Warning: mysqli::mysqli(): (42000/1044): Access denied for user 'sanders'@'www.dsutux.us' to database 'kfcc' in /var/www/jane.dsutux.us/db_test.php on line 3
[Thu Oct 03 08:32:34 2013] [error] [client 144.38.197.2] File does not exist: /var/www/jane.dsutux.us/favicon.ico
```
<?php
echo "Connecting to the database.<br/>
";
$db_conn = new mysqli("database.dsutux.us", "sanderson", "24spices", "kfc");
if($db_conn->connect_errno) {
    $error = "Failed to connect to MySQL: (" .
              $db_conn->connect_errno . ") " . $db_conn->connect_error;
    die($error);
}

echo "Choosing SQL statement.<br/>
";
$sql = "SELECT x FROM recipe";

echo "Executing SQL statement.<br/>
";
$result = $db_conn->query($sql);

echo "Displaying query results.<br/>
";
while($row = $result->fetch_assoc()) {
    echo " x = " . $row['x'] . "<br/>
";
}

echo "Done.<br/>
";
cgl@www:/$ echo "Be sure to find the errors and fix them."
Be sure to find the errors and fix them.
cgl@www:/$