How to use PHP with a MySQL Database

Update

Objectives

- Learn how to change data in the database
- Display a record in a form.
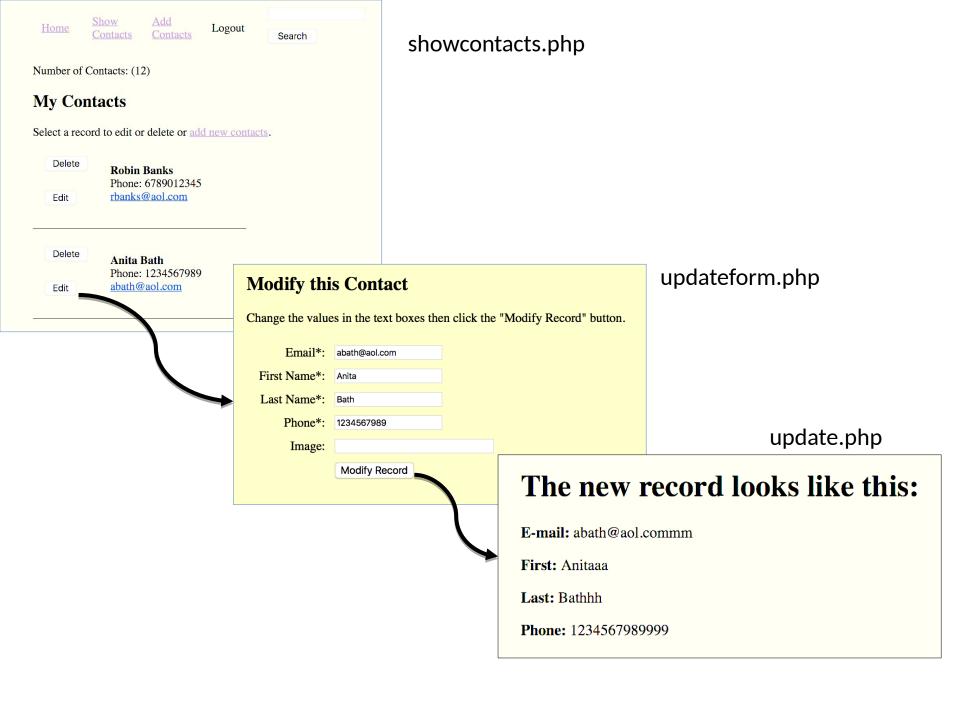- Use the UPDATE command

Using the UPDATE Command

- UPDATE command is used to change data in a table.
  UPDATE contacts SET first = 'Bob' WHERE id = '9';

- If you don't specify a where clause, all rows will be updated in the table.

- No way to update multiple rows with different data.

- You can update more than one field at a time.

Updating Data in PHP

1. Make a connection to the database.
2. Create a safe query with the SQL command.
3. Run the query.

The Real Way …

1. Get the primary key of the record to update.
2. Make a connection to the database.
3. Create a safe query with the SQL command to find the matching record.
4. Run the query.
5. Display the result in a form. When the user submits the changes.
6. Connect to the database.
7. Create a safe query with the SQL command to update the matching record.

showcontacts.php

Number of Contacts: (12)

My Contacts

Select a record to edit or delete or add new contacts.

Delete

Robin Banks
Phone: 6789012345
rbanks@aol.com

Edit

Delete

Anita Bath
Phone: 1234567989
abath@aol.com

Edit

updateform.php

Modify this Contact

Change the values in the text boxes then click the "Modify Record" button.

Email*:	abath@aol.com
First Name*:	Anita
Last Name*:	Bath
Phone*:	1234567989
Image:	

Modify Record

update.php

The new record looks like this:

E-mail: abath@aol.commm

First: Anitaaa

Last: Bathhh

Phone: 1234567989999

```
print <<<HERE
<tr>
    <td>
    <form method="post" action="confirmdelete.php">
    <input type="hidden" name="sel_record" value="$id">
    <input type="submit" name="delete" value=" Delete ">
    </form>

    <form method="post" action="updateform.php">
    <input type="hidden" name="sel_record" value="$id">
    <input type="submit" name="update" value=" Edit "></form>
    </td>
    <td><strong>$first $last</strong><br />
    Phone: $phone<br />
    <a href="mailto: $email">$email</a></td></tr>
HERE;
```
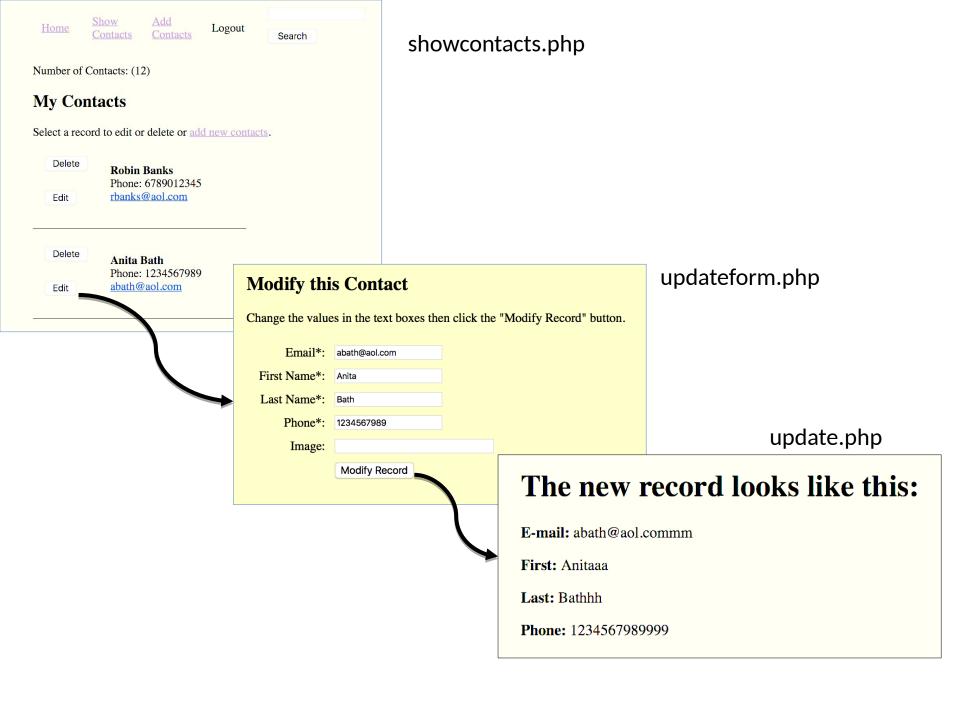
showcontacts.php

```php
<?php
//updateform.php
//connect to the database
require "dbinfo.php";
$sel_record = $_POST['sel_record'];

//SQL statement to select record to edit
$query = "SELECT * FROM contacts WHERE id = $sel_record";

// execute SQL query and get result
if ($result = mysqli_query($connection, $query)) {
    //loop through record and get values
    while ($record = mysqli_fetch_array($result)) {
        $id = $record['id'];
        $email = $record['email'];
        $first = $record['first'];
        $last = $record['last'];
        $phone = $record['phone'];
    }    // end while loop
}else {
    print "<h1>Something has gone wrong!</h1>";
    exit();
}//end else

$pageTitle = "Edit a Contact";
include "header.php";
```

updateform.php

Get this from confirm delete.php

```php
25  $pageTitle = "Edit a Contact";
26  include "header.php";
27  print <<<HERE
28      <h2>Modify this Contact</h2>
29      <p>Change the values in the text boxes then click the "Modify Record" button.</p>
30
31      <form id = "myForm" method="POST" action = "update.php">
32          <input type="hidden" name="id" value="$id">
33      <div>
34          <label for="email">Email*:</label>
35          <input type="text" name="email" id="email" value="$email">
36      </div>
37      <div>
38          <label for="first">First Name*:</label>
39          <input type="text" name="first" id="first" value="$first">
40      </div>
41      <div>
42          <label for="last">Last Name*:</label>
43          <input type="text" name="last" id="last" value="$last">
44      </div>
45      <div>
46          <label for="phone">Phone*:</label>
47          <input type="text" name="phone" id="phone" value="$phone">
48      </div>
49      <div>
50          <label for="image">Image:</label>
51          <input type="text" name="image" size="30" id="upload">
52      </div>
53      <div id="mySubmit">
54          <input type="submit" name="submit" value="Modify Record">
55      </div>
56      </form>
57
58  HERE;
59
60  ?>
```

showcontacts.php

Home   Show   Add   Logout   [search box]   Search
        Contacts   Contacts

Number of Contacts: (12)

My Contacts

Select a record to edit or delete or add new contacts.

Delete   **Robin Banks**
            Phone: 6789012345
Edit   rbanks@aol.com

_____

Delete   **Anita Bath**
            Phone: 1234567989
Edit   abath@aol.com

updateform.php

Modify this Contact

Change the values in the text boxes then click the "Modify Record" button.

Email*:   abath@aol.com
First Name*: Anita
Last Name*: Bath
Phone*:   1234567989
Image: [   ]

Modify Record

update.php

The new record looks like this:

E-mail: abath@aol.commmm

First: Anitaaa

Last: Bathhh

Phone: 1234567989999

```php
<?php
//update.php
//connect to the database
require "dbinfo.php";

//clean and sanitize the incoming data
if(isset($_POST['submit'])=="submit" && $_POST['submit']=="Modify Record") {
    $id = filter_var($_POST['id'], FILTER_SANITIZE_NUMBER_INT);
    $email = filter_var($_POST['email'], FILTER_SANITIZE_EMAIL);
    $first = filter_var($_POST['first'], FILTER_SANITIZE_STRING);
    $last = filter_var($_POST['last'], FILTER_SANITIZE_STRING);
    $phone = filter_var($_POST['phone'], FILTER_SANITIZE_STRING);
}//end if

//create a safe sql query
$query="UPDATE contacts SET
  email='$email',
  first='$first',
  last='$last',
  phone='$phone'
  where id='$id' ";
```

update.php

Get this from add.php

```php
//create a safe sql query
$query="UPDATE contacts SET
    email='$email',
    first='$first',
    last='$last',
    phone='$phone'
    where id='$id' ";
```

```php
22
23 if ($result = mysqli_query($connection, $query)) {
24     //show confirmation
25     print "<html><head><title>Update Results</title></head><body>";
26     $pageTitle = "Record Updated";
27     include "header.php";
28     print <<<HERE
29     <h1>The new record looks like this: </h1>
30     <p><strong>E-mail:</strong> $email</p>
31     <p><strong>First:</strong> $first</p>
32     <p><strong>Last:</strong> $last</p>
33     <p><strong>Phone:</strong> $phone</p>
34 HERE;
35 }else{
36     print "<h1>Something has gone wrong!</h1>";
37     exit();
38 }//end else
39
40 ?>
```

SCRUD Lab

- Search
- Create
- Read
- **Update**
- Delete
  - See if you can connect to your Aliens Database and Update records that match a pattern in your table.
  - This is the Update component of the lab.