

A11 simple database updates (Sample instruction)

You do not have to follow this step by step instruction. I recommend you create your own files.

*By the way, if you have any trouble to do A11, you may follow this instruction.

Below sample instruction is based on A10 sample instruction. You may use this as a sample instruction.

1. If you have not followed A10 sample instruction, do that first to follow this instruction.
2. Create all files under "simple database updates" folder. (We have created "simple database updates" folder from A10.)
3. Basic rules:
 - 1) We will use same database (from A10). So we will use `include "../include/base.php";` (or `require_once '../include/base.php';`) → below is base.php for your review.

```
<?php
$servername = "cit-mysql.regionals.miamioh.edu";
$username = "kuk"; //This should be your username
$password = "cit273"; //This should be your password
$dbname = "kuk_practice"; //This should be your database name.
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
?>
```

- 2) Below are database related basic steps we will repeat.

- Collect value of input fields from previous page. (ex: `$idToDelete = $_POST['ID'];`)
- Using collected value → generate SQL statement:
(ex: `$sql = "DELETE FROM users WHERE id = $idToDelete";`)
- Execute the SQL statement and get the result. (ex: `$result = mysqli_query($conn, $sql);`)
- ID is given from Database automatically. So, we do not change.

- 3) There will be some php skills like putting the result into input text box:

(Ex: First Name: `<input type="text" name="fname" <?php echo "value =" . $firstname ?>><br>`)

*Below codes may look complicated, but actually they not that much complicated. Just be careful on typo, missing some characters (like ; ,). **Whole php will NOT work if you have one critical typo.**

4. Create "A11_updated.html" under "simple database updates" folder

```
<!doctype html>
<html lang="en">
<head>
<meta charest="utf-8">
<title>A11 Updated PHP</title>
</head>
<body>
```

```
<h1> A11 Updated PHP practice </h1>
<p>Click <a href="retrieval.php"> Here </a> to retrieve all. </p>
<p>Click <a href="newuser.html"> Here </a> to add new users. </p>
```

```
<form method="post" action="selectID_to_Update.php">
Type id to Update!<br>
ID: <input type="text" name="ID">
<br> <input type="submit">
</form>
```

```
<br>
<form method="post" action="delete_Data.php">
Type id to Delete!<br>
ID: <input type="text" name="ID">
<br> <input type="submit">
</form>
```

```
</body>
</html>
```

A11 Updated PHP practice

Click [Here](#) to retrieve all.

Click [Here](#) to add new users.

Type id to Update!

ID:

Type id to Delete!

ID:

5. **Create "retrieval.php"** → This is the same one from A10 simple database retrieval. You may save it as **"retrieval.php"** under "simple database updates" folder

```
<!doctype html>
<html lang="en">
<head> <meta charset="utf-8">
<title>A11_updated retrieval</title>
</head>
<body>
<h1>A11_simple_database_Updated retrieval.php</h1>
<p>Below is the result: </p>
```

A11_simple_database_Updated retrieval.php

Below is the result:

```
id: 2 - Name: Mary2 Moe2 - Email: mary@example.com
id: 3 - Name: Julie Dooley - Email: julie@example.com
id: 4 - Name: Steven Kings - Email: skings@example.com
id: 5 - Name: Kary Williams - Email: kwilliams@example.com
id: 6 - Name: Jerry Harper - Email: jharper@example.com
```

Click [Here](#) to goback previous HTML file.

```
<?php
```

```
//since we use only one database, we put server name,
//username and password in 'base.php' under "include" folder.
//include "../include/base.php"; or you may use require_once
require_once '../include/base.php'; //..goes up, then go down to /include folder, search base.php
$sql = "SELECT id, firstname, lastname, email FROM users";
$result = mysqli_query($conn, $sql);
```

```
if (mysqli_num_rows($result) > 0) {
    // output data of each row
    while($row = mysqli_fetch_assoc($result)) {
        echo "id: ". $row["id"]."- Name: ". $row["firstname"]. " " . $row["lastname"]. "- Email: " . $row["email"].
        "<br>";
    }
} else {
    echo "0 results";
}
```

```
mysqli_close($conn);
```

```
?>
```

```
<p>Click <a href="A11_updated.html"> Here </a> to goback previous HTML file. </p>
</body>
</html>
```

6. **Create "newuser.html"**(Just a html form) under "simple database updates" folder

```
<!doctype html>
<html lang="en">
<head>
<meta charest="utf-8">
<title>A11 Updated PHP</title>
</head>
<body>
<h1> A11 Updated PHP Register New User! </h1>
```

```
<form method="post" action="insert_new.php">
Put Information below!<br>
ID will be given automatically.<br>
First Name: <input type="text" name="fname"><br>
Last Name_: <input type="text" name="lname"><br>
Email_____: <input type="text" name="email"><br>
<br> <input type="submit">
</form>
<p>Click <a href="A11_updated.html"> Here </a> to goback previous Updated webpage. </p>
</body>
</html>
```

A11 Updated PHP Register New User!

Put Information below!
ID will be given automatically.

First Name:

Last Name_:

Email_____:

Click [Here](#) to goback previous Updated webpage.

7. **Create "insert_new.php"** → This will insert a new record to users table.

```
<!doctype html> <html lang="en"> <head> <meta charset="utf-8">
<title>A11_updated Inserted_New Data</title> </head>
<body>
<h1>A11 simple_database_Updated insert_new.php</h1>
<p>Below is the result: </p>
<?php
include "../include/base.php";
```

```
// collect value of input field
$firstname = $_POST['fname'];
$lastname = $_POST['lname']; // "lname" is lastname.
$email = $_POST['email'];
```

```
// sql to insert user input
```

```
$sql = "INSERT INTO users (firstname, lastname, email) VALUES ('$firstname', '$lastname', '$email')";
```

```
if (mysqli_query($conn, $sql)) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
mysqli_close($conn);
?>
```

```
<p>Click <a href="A11_updated.html"> Here </a> to goback previous HTML file. </p>
</body>
</html>
```

A11 simple_database_Updated insert_new.php

Below is the result:

New record created successfully

Click [Here](#) to goback previous HTML file.

A11 simple_database_Updated retrieval.php

Below is the result:

id: 2 - Name: Mary2 Moe2 - Email: mary@example.com
id: 3 - Name: Julie Dooley - Email: julie@example.com
id: 4 - Name: Steven Kings - Email: skings@example.com
id: 5 - Name: Kary Williams - Email: kwilliams@example.com
id: 6 - Name: Jerry Harper - Email: jharper@example.com
id: 8 - Name: James Bond - Email: jBond@spy.com

Click [Here](#) to goback previous HTML file.

8. Create "selectID_to_Update.php"

```
<!doctype html>
<html lang="en">
<head> <meta charset="utf-8">
<title>A11_updated Update Data</title>
</head>
<body>
<h1>A11 simple_database_Updated selectID_to_Update.php</h1>
<p>Below is the result: </p>
<?php
include "../include/base.php";
```

```
// collect value of input field
$idToUpdate = $_POST['ID'];
$sql = "SELECT id, firstname, lastname, email FROM users WHERE id = '$idToUpdate'";
//Apply $sql statement on $conn
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {
    // output data of each row
    while($row = mysqli_fetch_assoc($result)) {
        $id= $row["id"];
        $firstname=$row["firstname"];
        $lastname=$row["lastname"];
        $email=$row["email"];
    }
} else {
    echo "0 results";
}
mysqli_close($conn);
?>
```

```
<form method="post" action="update_Data.php">
Update Information below!<br>
ID_____: <input type="text" name="ID" <?php echo "value =" . $id ?> readonly> *ID will be given
automatically.<br>
First Name: <input type="text" name="fname" <?php echo "value =" . $firstname ?>><br>
Last Name_: <input type="text" name="lname" <?php echo "value =" . $lastname ?>><br>
Email_____: <input type="text" name="email" <?php echo "value =" . $email ?>><br>
<br> <input type="submit">
</form>
```

```
<p>Click <a href="A11_updated.html"> Here </a> to goback previous HTML file. </p>
</body>
</html>
```

A11 Updated PHP practice

Click [Here](#) to retrieve all.

Click [Here](#) to add new users.

Type id to Update!

ID: 2

Type id to Delete!

ID:

A11 simple_database_Updated selectID_to_Update.php

Below is the result:

Update Information below!

ID_____: 2

*ID will be given automatically.

First Name: Mary2

Last Name_: Moe2

Email_____: mary@example.com

[Click Here](#) to goback previous HTML file.

9. Create "update_Data.php"

```
<!doctype html>
<html lang="en">
<head> <meta charset="utf-8">
<title>A11_updated Updated Data</title>
</head>
<body>
<h1>A11 simple_database_Updated update_Data.php</h1>
<p>Below is the result: </p>
<?php
include "../include/base.php";
```

```
// collect value of input field
```

```
$id = $_POST['ID'];
$firstname = $_POST['fname'];
$lastname = $_POST['lname']; // "lname" is lastname.
$email = $_POST['email'];
```

```
//Be careful on single and double quotation marks.
```

```
$sql = "UPDATE users SET firstname='$firstname', lastname='$lastname', email='$email' WHERE id='$id'";
```

```
if (mysqli_query($conn, $sql)) {
    echo "Record updated successfully";
} else {
    echo "Error updating record: " . mysqli_error($conn);
}
```

```
mysqli_close($conn);
```

```
?>
<p>Click <a href="A11_updated.html"> Here </a> to goback previous HTML file. </p>
</body>
</html>
```

A11 simple_database_Updated selectID_to_Update.php

Below is the result:

Update Information below!

ID	: 2	*ID will be given automatically.
First Name	: Mary4	
Last Name	: Moe4	
Email	: mary@example.com	

Click [Here](#) to goback previous HTML file.

A11 simple_database_Updated update_Data.php

Below is the result:

Record updated successfully

Click [Here](#) to goback previous HTML file.

A11 simple_database_Updated

Below is the result:

id: 2 - Name: Mary4 Moe4 - Email: mary@example.com
id: 3 - Name: Julie Dooky - Email: julie@example.com
id: 4 - Name: Steven Kings - Email: skings@example.com
id: 5 - Name: Kary Williams - Email: kwilliams@example.com
id: 6 - Name: Jerry Harper - Email: jharper@example.com
id: 8 - Name: James Bond - Email: jBond@spy.com

Click [Here](#) to goback previous HTML file.

10. Create "delete_Data.php"

```
<!doctype html>
<html lang="en">
<head> <meta charset="utf-8">
<title>A11_updated delete Data</title>
</head>
<body>
<h1>A11 simple_database_Updated delete_Data.php</h1>
<p>Below is the result: </p>
<?php
    include "../include/base.php";
    // collect value of input field
    $idToDelete = $_POST['ID'];

    // sql to delete a record
    $sql = "DELETE FROM users WHERE id = $idToDelete"; //You can chose which one to delete.

    if (mysqli_query($conn, $sql)) {
        echo "Record deleted successfully";
    } else {
        echo "Error deleting record: " . mysqli_error($conn);
    }

    mysqli_close($conn);
    ?>
<p>Click <a href="A11_updated.html"> Here </a> to goback previous HTML file. </p>
</body>
</html>
```

A11 Updated PHP practice

Click [Here](#) to retrieve all.

Click [Here](#) to add new users.

Type id to Update!

ID:

Type id to Delete!

ID:

A11 simple_database_Updated delete_Data.php

Below is the result:

Record deleted successfully

Click [Here](#) to goback previous HTML file.

A11 simple_database_Updated retrieval.php

Below is the result:

id: 2 - Name: Mary4 Moe4 - Email: mary@example.com
id: 3 - Name: Julie Dooley - Email: julie@example.com
id: 4 - Name: Steven Kings - Email: skings@example.com
id: 5 - Name: Kary Williams - Email: kwilliams@example.com
id: 6 - Name: Jerry Harper - Email: jharper@example.com

Click [Here](#) to goback previous HTML file.

***When you are done, check them again.
Then submit the internet URL of "A11_updated.html"**