DELETE an Existing record

General format of SQL delete command:

```
DELETE FROM table_name
        WHERE conditions
```

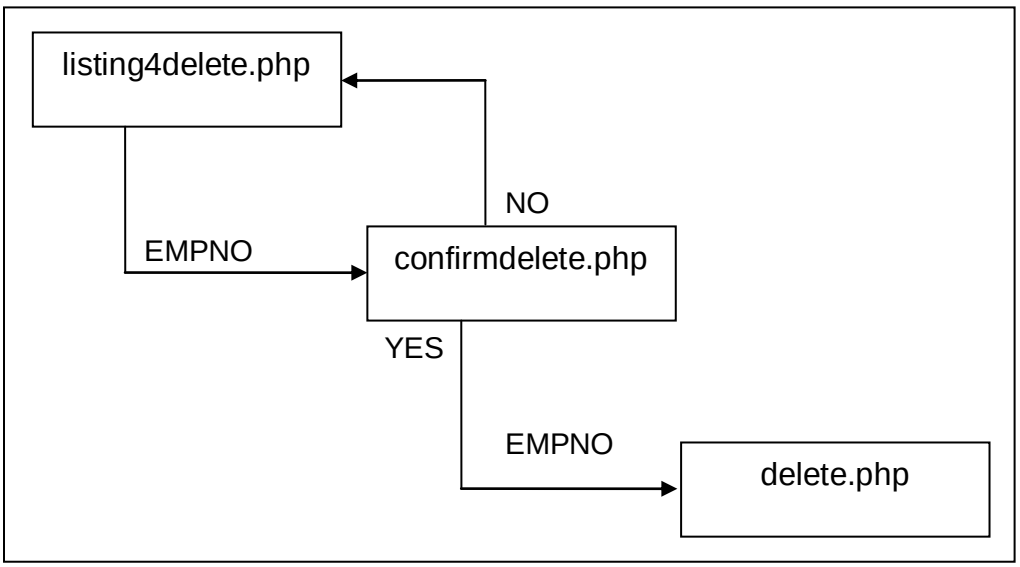
Example:

```
DELETE FROM employee
      WHERE EMPNO=='000345'
```

Deleting an Existing Record

The term DELETE in SQL is a command to delete a complete record from a specific table.

In this *delete* exercise we will create three different pages that will communicate to each other sequentially. Refer to the diagram below.



The first page is to list records with a delete button so the user could select which record to delete. The next page in the sequence will confirm the record deletion. This is to make sure the user is aware of the record they are going to delete. And the last page is the page where the SQL command for delete is executed and the selected record is really wiped out from the database.

Filename: ***listing4delete.php***

```
<?php
//include the connection details
include ("connection.php");

//Create SQL query
$query="select EMPNO, FIRSTNAME, LASTNAME, WORKDEPT, PHONENO
           from employee
           order by EMPNO asc";

//Execute the query
$qr=mysqli_query($db,$query);
if($qr==false){
     echo ("Query cannot be executed!<br>");
     echo ("SQL Error : ".mysqli_error($db));
}
?>
<html>
<head>
<title>Listing to Edit</title>
</head>

<body>
Listing a Table for Editing<br>
<?php
//Check the record effected, if no records,
//display a message
if(mysqli_num_rows($qr)==0){
     echo ("No record fetched...<br>");
}//end no record
else{//there is/are record(s)
?>
<table width="90%"  border="1">
  <tr align="center">
    <td>Employee no.</td>
    <td>First name</td>
    <td>Last name</td>
    <td>Department code</td>
    <td>Phone no.</td>
  </tr>


<?php
     while ($rekod=mysqli_fetch_array($qr)){
?>
 <tr>
    <td><?=$rekod['EMPNO']?></td>
    <td><?=$rekod['FIRSTNAME']?></td>
    <td><?=$rekod['LASTNAME']?></td>
    <td><?=$rekod['WORKDEPT']?></td>
    <td><?=$rekod['PHONENO']?></td>
    <td>
     <a href="confirmdelete.php?EMPNO=<?=$rekod['EMPNO']?>">
          delete
     </a>
```

```
    </td>
  </tr>
<?php
     }//end of records
?>
</table>
<?php
}//end if there are records
?>
</body>
</html>
```

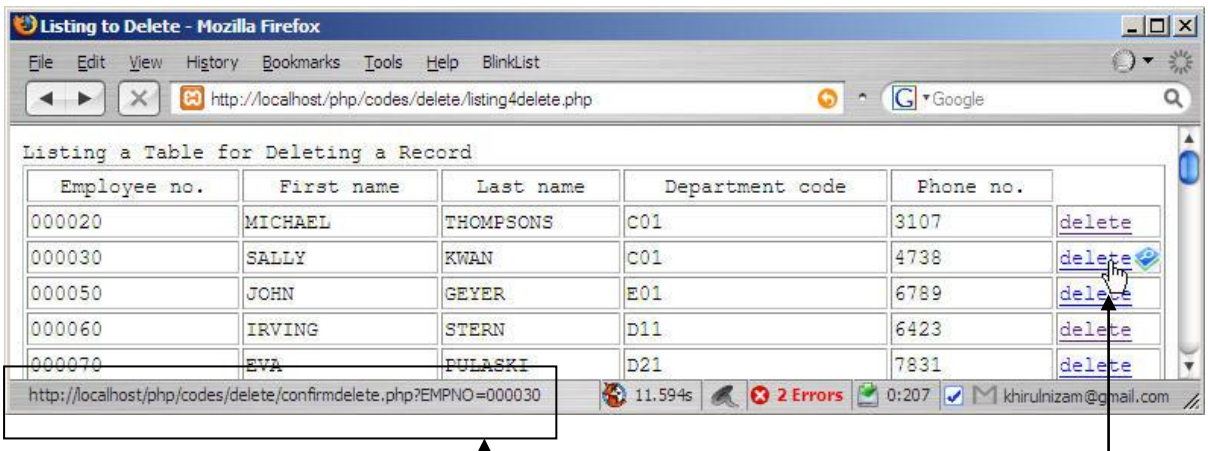
Observe closely the bolded codes in the *listing4delete.php*. The HTML tag will prepare a hyperlink that will direct user to another file named *confirmdelete.php* and bringing along a variable named EMPNO for the chosen employee record.

```
<a href="confirmdelete.php?EMPNO=<?=$rekod['EMPNO']?>">
   delete
</a>
```

the target file where user is asked a confirmation

the EMPNO variable with the value of the selected employee record to be deleted

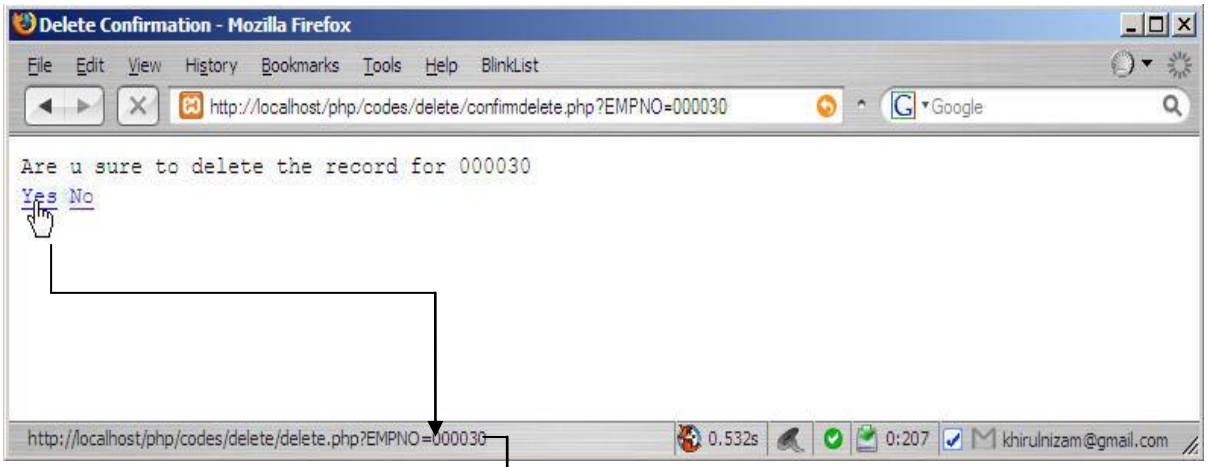
If you execute the script on the browser, it will generate a hyperlink, with a direction to another page named *confirmdelete.php*, by sending a variable EMPNO with the employee number of the selected employee record.



Each “delete” hyperlink will generate unique querystring based on the EMPNO for each record.

User choose one record to be deleted by clicking the “delete” hyperlink.

Once the user click the “delete” hyperlink, it will go the page *confirmdelete.php*, with the EMPNO to delete. When the EMPNO arrived at this page, it will be extracted and another hyperlink will be generated.



When the user click the “Yes” hyperlink, it will submit an employee number to another page named *delete.php*.

The first hyperlink is “Yes”, and the second one is “No”. If the user really want to delete the record, click “Yes”. This will direct the user to another file *delete.php* where the SQL *delete* command lies. However if the user would like to cancel the deletion process, click “No” and it will direct user back to the *listing4delete.php* file.

Filename: ***confirmdelete.php***.

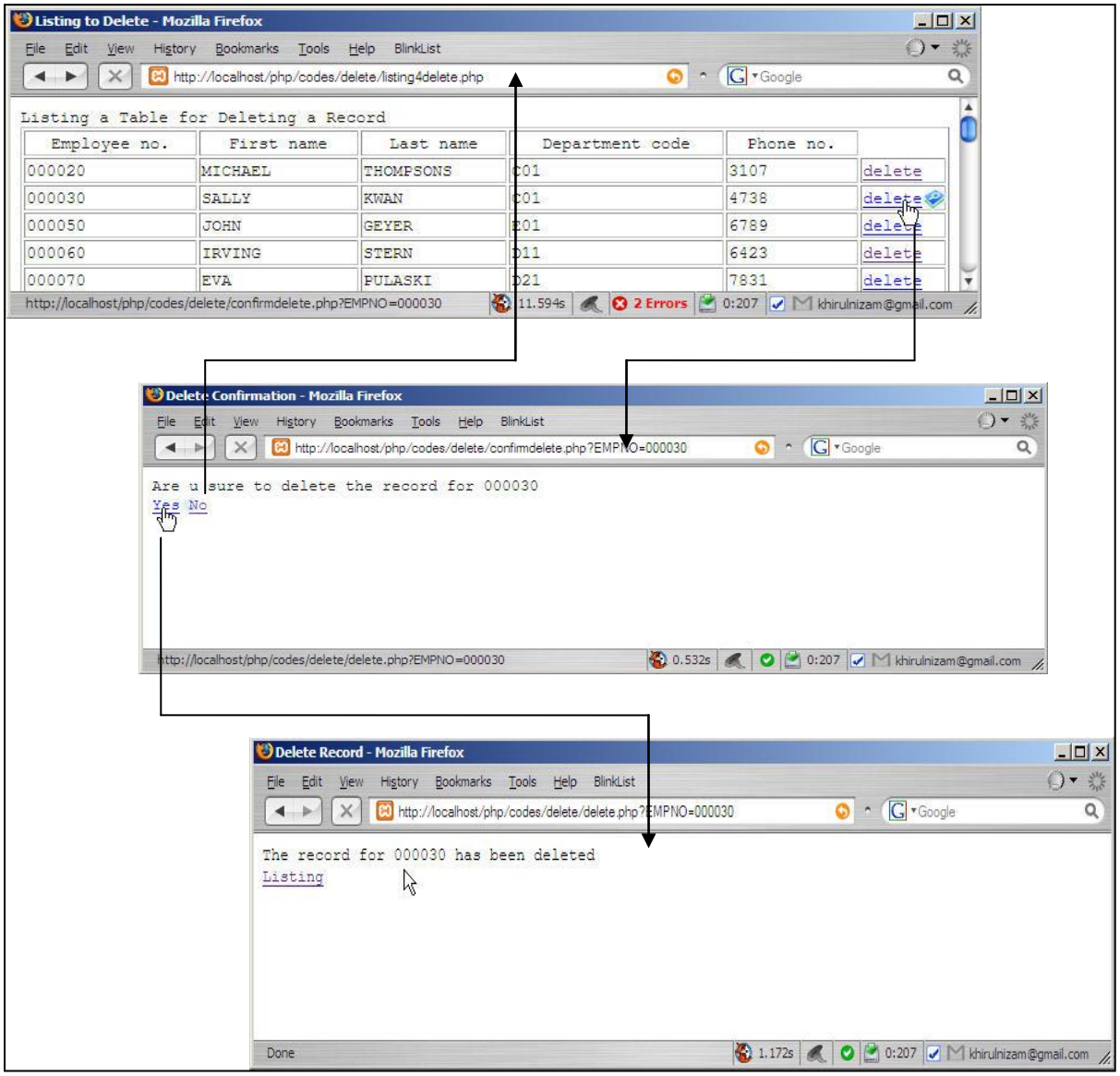
```
<html>
<head>
<title>Delete Confirmation</title>
</head>
<body>
<?
      $EMPNO=$_GET['EMPNO'];
?>
Are u sure to delete the record for <? echo $EMPNO?>
<br>
<a href="delete.php?EMPNO=<? echo $EMPNO?>">Yes</a>
<a href="listing4delete.php">No</a>
<br>
</body>
</html>
```

The last step is to delete the selected record. This is the script to really delete the record. It contains in the file *delete.php*.

```
<html>
<head>
<title>Delete Record</title>
</head>
<body>
<?
      include "connection.php";
      $EMPNO=$_GET['EMPNO'];

      $sql="delete from employee
            where EMPNO='$EMPNO' ";
      $q=mysqli_query($db,$sql);

      if ($q==true){
            echo "The record for $EMPNO has been deleted";
      }
      else{
            echo "Fail to delete record for $EMPNO";
            echo mysqli_error($db);
      }
?>
<br>
<a href="listing4delete.php">Listing</a>
<br>
</body>
</html>
```


Listing to Delete - Mozilla Firefox
File Edit View History Bookmarks Tools Help BlinkList
http://localhost/php/codes/delete/listing4delete.php
Google
Listing a Table for Deleting a Record
Employee no. | First name | Last name | Department code | Phone no.
000020 | MICHAEL | THOMPSONS | C01 | 3107 | delete
000030 | SALLY | KWAN | C01 | 4738 | delete
000050 | JOHN | GEYER | E01 | 6789 | delete
000060 | IRVING | STERN | D11 | 6423 | delete
000070 | EVA | PULASKI | D21 | 7831 | delete
http://localhost/php/codes/delete/confirmdelete.php?EMPNO=000030
11.594s
2 Errors
0:207
khirulnizam@gmail.com
Delete Confirmation - Mozilla Firefox
File Edit View History Bookmarks Tools Help BlinkList
http://localhost/php/codes/delete/confirmdelete.php?EMPNO=000030
Google
Are u sure to delete the record for 000030
Yes No
http://localhost/php/codes/delete/delete.php?EMPNO=000030
0.532s
0:207
khirulnizam@gmail.com
Delete Record - Mozilla Firefox
File Edit View History Bookmarks Tools Help BlinkList
http://localhost/php/codes/delete/delete.php?EMPNO=000030
Google
The record for 000030 has been deleted
Listing
Done
1.172s
0:207
khirulnizam@gmail.com