

CRUD — (*create read update delete*) abbreviation naming four basic functions for working with databases - create, read, update and delete.

Examples

Operation	MySQL statment	HTTP operation
Create	INSERT	POST
Read	SELECT	GET
Update	UPDATE	PUT or PATCH
Delete	DELETE	DELETE

The classic application to work with the database is usually called **CRUD** - on the first letter of standard operations, Create, read, update and delete.

It's like the notes in music - any application consists of these basic elements. In our case it is a PHP web page that displays a list of records in the database as a list of (**R**), allows you to add new records in the MySQL database (

C
) , edit them (
U
) and delete (
D
) from database.

With the help of this php application [class](#) is implemented through a few stitches.

Here they are:

```
<?

include 'safemysql.class.php';
$db = new SafeMysql();
$table = "test";

if($_SERVER['REQUEST_METHOD']=='POST') {
    if (isset($_POST['delete'])) {
        $db->query("DELETE FROM ?n WHERE id=?i",$table,$_POST['delete']);
    } elseif ($_POST['id']) {
        $db->query("UPDATE ?n SET name=?s WHERE id=?i",$table,$_POST['name'],$_POST['id']);
    } else {
        $db->query("INSERT INTO ?n SET name=?s",$table,$_POST['name']);
    }
    header("Location: http://".$_SERVER['HTTP_HOST'].$_SERVER['PHP_SELF']);
    exit;
}
if (!isset($_GET['id'])) {
    $LIST = $db->getAll("SELECT * FROM ?n",$table);
    include 'list.php';
} else {
    if ($_GET['id']) {
        $row = $db->getRow("SELECT * FROM ?n WHERE id=?i",$table,$_GET['id']);
        foreach ($row as $k => $v) $row[$k]=htmlspecialchars($v);
    } else {
        $row['name']="";
        $row['id']=0;
    }
    include 'form.php';
}
```

Template files:

list.php

```
<a href="?id=0">Add item</a>
```

```
<? foreach ($LIST as $row): ?>
```

```
<li><a href="?id=?=$row['id']?>"><?=$row['name']?></a>
```

```
<? endforeach ?>
```

form.php

```
<form method="POST">
<input type="text" name="name" value="<?=$row['name']?>"><br>
<input type="hidden" name="id" value="<?=$row['id']?>">
<input type="submit"><br>
<a href="#">Return to the list</a>
</form>
<? if ($row['id']):?>
<div align=right>
<form method="POST">
<input type="hidden" name="delete" value="<?=$row['id']?>">
<input type="submit" value="Удалить"><br>
</form>
</div>
<?endif?>
```