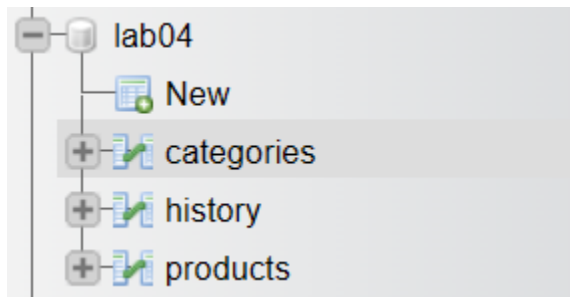


Database:



1. Categories Table:

Server: localhost:3308 » Database: lab04 » Table: categories

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `categories`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

				id	name	created	modified
<input type="checkbox"/>	Edit	Copy	Delete	1	Fashion	2014-06-01 00:35:07	2014-05-30 17:34:33
<input type="checkbox"/>	Edit	Copy	Delete	2	Electronics	2014-06-01 00:35:07	2014-05-30 17:34:33
<input type="checkbox"/>	Edit	Copy	Delete	3	Motors	2014-06-01 00:35:07	2014-05-30 17:34:54

Check all | With selected: Edit Copy Delete Export

2. Product Table:

Server: localhost:3308 » Database: lab04 » Table: products

Showing rows 0 - 19 (20 total, Query took 0.0003 seconds.)

```
SELECT * FROM `products`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

					id	name	description	price	category_id	created	modified
<input type="checkbox"/>	Edit	Copy	Delete	1	LG P880 4X HD		My first awesome phone!	336	3	2014-06-01 01:12:26	2014-05-31 17:12:26
<input type="checkbox"/>	Edit	Copy	Delete	2	Google Nexus 4		The most awesome phone of 2013!	299	2	2014-06-01 01:12:26	2014-05-31 17:12:26
<input type="checkbox"/>	Edit	Copy	Delete	3	Samsung Galaxy S4		How about no?	600	3	2014-06-01 01:12:26	2014-05-31 17:12:26
<input type="checkbox"/>	Edit	Copy	Delete	6	Bench Shirt		The best shirt!	29	1	2014-06-01 01:12:26	2014-05-31 02:12:21
<input type="checkbox"/>	Edit	Copy	Delete	7	Lenovo Laptop		My business partner.	399	2	2014-06-01 01:13:45	2014-05-31 02:13:39
<input type="checkbox"/>	Edit	Copy	Delete	8	Samsung Galaxy Tab 10.1		Good tablet.	259	2	2014-06-01 01:14:13	2014-05-31 02:14:08
<input type="checkbox"/>	Edit	Copy	Delete	9	Spalding Watch		My sports watch.	199	1	2014-06-01 01:18:36	2014-05-31 02:18:31
<input type="checkbox"/>	Edit	Copy	Delete	10	Sony Smart Watch		The coolest smart watch!	300	2	2014-06-06 17:10:01	2014-06-05 18:09:51
<input type="checkbox"/>	Edit	Copy	Delete	11	Huawei Y300		For testing purposes.	100	2	2014-06-06 17:11:04	2014-06-05 18:10:54
<input type="checkbox"/>	Edit	Copy	Delete	12	Abercrombie Lake Arnold Shirt		Perfect as gift!	60	1	2014-06-06 17:12:21	2014-06-05 18:12:11
<input type="checkbox"/>	Edit	Copy	Delete	13	Abercrombie Allen Brook Shirt		Cool red shirt!	70	1	2014-06-06 17:12:59	2014-06-05 18:12:49
<input type="checkbox"/>	Edit	Copy	Delete	25	Abercrombie Allen Anew Shirt		Awesome new shirt! Reallyyyyy niceeeeeee	600	1	2014-11-22 18:42:13	2014-11-21 19:42:13
<input type="checkbox"/>	Edit	Copy	Delete	26	Another product		Awesome product!	555	2	2014-11-22 19:07:34	2014-11-21 20:07:34
<input type="checkbox"/>	Edit	Copy	Delete	27	Bag		Awesome bag for you!	999	1	2014-12-04 21:11:36	2014-12-03 22:11:36
<input type="checkbox"/>	Edit	Copy	Delete	28	Wallet		You can absolutely use this one!	799	1	2014-12-04 21:12:03	2014-12-03 22:12:03
<input type="checkbox"/>	Edit	Copy	Delete	30	Wal-mart Shirt			555	2	2014-12-13 00:52:29	2014-12-12 01:52:29
<input type="checkbox"/>	Edit	Copy	Delete	31	Amanda Waller Shirt		New awesome shirt!	333	1	2014-12-13 00:52:54	2014-12-12 01:52:54

3. History Table:

Server: localhost:3308 » Database: lab04 » Table: history

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 7 (8 total, Query took 0.0002 seconds.)

`SELECT * FROM `history``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Extra options

id	action	timestamp
25	Read	2024-05-29 18:28:29
25	Update	2024-05-29 18:30:28
46	Create	2024-05-29 18:37:15
47	Create	2024-05-29 18:38:27
48	Create	2024-05-29 18:40:41
49	Create	2024-05-29 18:41:51
50	Create	2024-05-29 18:43:57
50	Delete	2024-05-29 18:46:20

Models:

1. database.php:

```
1  <?php
2  class Database
3  {
4      private $host = "localhost";
5      private $db_name = "lab04";
6      private $username = "root";
7      private $password = "";
8      public $conn;
9
10     public function getConnection()
11     {
12         $this->conn = null;
13
14         try
15         {
16             $this->conn = new PDO("mysql:host=".$this->host.";port=3308;dbname=".$this->db_name,$this->username,$this->password);
17         } catch (PDOException $exception)
18         {
19             echo "Connection error.".$exception->getMessage();
20         }
21         return $this->conn;
22     }
23 }
24  >?
```

2. category.php:

```
1  <?php
2  class Category
3  {
4      // database connection and table name
5      private $conn;
6      private $table_name = "categories";
7
8      //object properties
9      public $id;
10     public $name;
11
12     public function __construct($db)
13     {
14         $this->conn = $db;
15     }
16
17     //used by select drop-down list
18     function read()
19     {
20         //select all data
21         $query = "SELECT id, name
22                 FROM ".$this->table_name."
23                 ORDER BY name ";
24
25         $stmt = $this->conn->prepare($query);
26         $stmt->execute();
27
28         return $stmt;
29     }
30
31     //used to read category name by its id
32     function readName()
33     {
34         $query = "SELECT name
35                 FROM ".$this->table_name."
36                 WHERE id = ? limit 0,1 ";
37         $stmt = $this->conn->prepare($query);
38         $stmt->bindParam(1,$this->id);
39         $stmt->execute();
40
41         $row = $stmt->fetch(PDO::FETCH_ASSOC);
42
43         $this->name = $row['name'];
44     }
45 }
46 ?>
```

3. product.php:

```
1  <?php
2  class Product
3  {
4      //database connection and table name
5      private $conn;
6      private $table_name = "products";
7
8      //object properties
9      public $id;
10     public $name;
11     public $price;
12     public $description;
13     public $category_id;
14     public $timestamp;
15
16     public function __construct($db)
17     {
18         $this->conn = $db;
19     }
20
```

```
21 //create Product
22 function create()
23 {
24     $query = "INSERT INTO ".$this->table_name."
25             SET
26             name=:name, price=:price, description=:description, category_id=:category_id, created=:created";
27
28     $stmt = $this->conn->prepare($query);
29
30     //posted values
31     $this->name = htmlspecialchars(strip_tags($this->name));
32     $this->price = htmlspecialchars(strip_tags($this->price));
33     $this->description = htmlspecialchars(strip_tags($this->description));
34     $this->category_id = htmlspecialchars(strip_tags($this->category_id));
35
36     //to get time-stamp for 'created' field
37     $this->timestamp = date('Y-m-d H:i:s');
38
39     //bind values
40     $stmt->bindParam(":name", $this->name);
41     $stmt->bindParam(":price", $this->price);
42     $stmt->bindParam(":description", $this->description);
43     $stmt->bindParam(":category_id", $this->category_id);
44     $stmt->bindParam(":created", $this->timestamp);
45
46     if ($stmt->execute())
47     {
48         return true;
49     }
50     else {
51         return false;
52     }
53 }
```

```

54 function readAll($from_record_num, $records_per_page)
55 {
56     $query = "SELECT id, name, description, price, category_id
57             FROM ".$this->table_name."
58             ORDER BY name ASC
59             LIMIT {$from_record_num}, {$records_per_page} ";
60
61     $stmt = $this->conn->prepare($query);
62     $stmt->execute();
63
64     return $stmt;
65 }
66
67 public function countAll()
68 {
69     $query = "SELECT id FROM ".$this->table_name." ";
70
71     $stmt = $this->conn->prepare($query);
72     $stmt->execute();
73
74     $num = $stmt->rowCount();
75
76     return $num;
77 }
78

```

```

79 function readOne()
80 {
81     $query = "SELECT name, price, description, category_id
82             FROM ".$this->table_name."
83             WHERE id = ? LIMIT 0,1 ";
84     $stmt = $this->conn->prepare($query);
85     $stmt->bindParam(1, $this->id);
86     $stmt->execute();
87
88     $row = $stmt->fetch(PDO::FETCH_ASSOC);
89
90     $this->name = $row['name'];
91     $this->price = $row['price'];
92     $this->description = $row['description'];
93     $this->category_id = $row['category_id'];
94 }
95

```

```

96 function update()
97 {
98     $query = "UPDATE ".$this->table_name."
99             SET name = :name,
100               price = :price,
101               description = :description,
102               category_id = :category_id
103             WHERE id = :id";
104     $stmt = $this->conn->prepare($query);
105
106     //posted values
107     $this->name = htmlspecialchars(strip_tags($this->name));
108     $this->price = htmlspecialchars(strip_tags($this->price));
109     $this->description = htmlspecialchars(strip_tags($this->description));
110     $this->category_id = htmlspecialchars(strip_tags($this->category_id));
111     $this->id = htmlspecialchars(strip_tags($this->id));
112
113     // bind parameters
114     $stmt->bindParam(':name', $this->name);
115     $stmt->bindParam(':price', $this->price);
116     $stmt->bindParam(':description', $this->description);
117     $stmt->bindParam(':category_id', $this->category_id);
118     $stmt->bindParam(':id', $this->id);
119
120     //execute the query
121     if($stmt->execute())
122     {
123         return true;
124     }
125
126     return false;
127 }
128

```

```

129 function delete()
130 {
131     $query = "DELETE FROM ".$this->table_name."
132             WHERE id = ? ";
133     $stmt = $this->conn->prepare($query);
134     $stmt->bindParam(1, $this->id);
135
136     if ($result = $stmt->execute())
137     {
138         return true;
139     }
140     return false;
141 }
142
143 function savingAction($id, $action)
144 {
145     $table = "history";
146     $query = "INSERT INTO ".$table."
147             SET id=:id, action=:action, timestamp=:timestamp ";
148     $stmt = $this->conn->prepare($query);
149
150     $timestamp = date('Y-m-d H:i:s');
151
152     $stmt->bindParam(":id", $id);
153     $stmt->bindParam(":action", $action);
154     $stmt->bindParam(":timestamp", $timestamp);
155
156     $stmt->execute();
157 }
158 }
159

```

Code:

1. layout_header.php:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7
8     <title><?php echo $page_title; ?></title>
9     <!--Bootstrap -->
10    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
11    <!--Bootstrap ICON -->
12    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">
13    <!--CSS -->
14    <link rel="stylesheet" href="assets/css/custom.css" />
15 </head>
16
17 <body>
18     <!--container header-->
19     <div class="container">
20         <?php
21         echo "<div class='mb-4 pb-2 border-bottom'>
22             <h1>{$page_title}</h1>
23         </div>";
24     <?>
25
```

2. layout_footer.php:

```
1 <!--container footer-->
2 <!-- jquery core - the newest version 3.7.1-->
3 <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
4
5 <!-- Bootstrap JavaScript -->
6 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
7
8 <!-- Bootbox library -->
9 <script src="https://cdnjs.cloudflare.com/ajax/libs/bootbox.js/4.4.0/bootbox.min.js"></script>
10
11 <!-- Deleting product -->
12 <script>
13     // JavaScript for deleting product
14     $(document).on('click', '.delete-object', function(){
15         var id = $(this).attr('delete-id');
16         bootbox.confirm({
17             title: 'Delete Product',
18             message: '<h4>Are you sure?</h4>',
19             buttons: {
20                 confirm: {
21                     label: '<i class="bi bi-check"></i> Yes',
22                     className: 'btn-danger'
23                 },
24                 cancel: {
25                     label: '<i class="bi bi-x"></i> No',
26                     className: 'btn-primary'
27                 }
28             },
29             callback: function (result) {
30                 if(result==true){
31                     $.post('delete_product.php', {
32                         object id: id
33                     }, function(data){
34                         location.reload();
35                     }).fail(function() {
36                         alert('Unable to delete.');
```

3. create_product.php:

```
1  <?php
2  //include database and object file
3  include_once 'config/database.php';
4  include_once 'objects/product.php';
5  include_once 'objects/category.php';
6
7  //get database connection
8  $database = new Database();
9  $db = $database->getConnection();
10
11 //pass connection to objects
12 $product = new Product($db);
13 $category = new Category($db);
14
15 //set page header
16 $page_title = "Create Product";
17 include_once "layout_header.php";
18
19 //CONTENT
20 // Read Products Button
21 echo "<div class='m-3 text-end'>
22     <a href='index.php' class='btn btn-outline-dark'>Read Products</a>
23 </div>";
24 ?>
25
26 <!-- PHP post code will be here -->
27 <?php
28 // if the form was submitted - PHP OOP CRUD tutorial
29 if($_POST)
30 {
31     //product property values
32     $product->name = $_POST['name'];
33     $product->price = $_POST['price'];
34     $product->description = $_POST['description'];
35     $product->category_id = $_POST['category_id'];
36
37     //create the product
38     if ($product->create())
39     {
40         // If create product success, take the newest id (the just created product)
41         // and saving into history
42         $id = $db->lastInsertId();
43         $product->savingAction($id, "Create");
44         echo "<div class='alert alert-success'>Product was created.</div>";
45     }
46     else
47     {
48         echo "<div class='alert alert-danger'>Unable to create product.</div>";
49     }
50 }
51 ?>
52
```



```

53 <!-- CREATE PRODUCT FORM -->
54 <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>" method="post">
55
56     <table class='table table-bordered'>
57
58         <tr>
59             <td>Name</td>
60             <td><input type='text' name='name' class='form-control' /></td>
61         </tr>
62
63         <tr>
64             <td>Price</td>
65             <td><input type='text' name='price' class='form-control' /></td>
66         </tr>
67
68         <tr>
69             <td>Description</td>
70             <td><textarea name='description' class='form-control'></textarea></td>
71         </tr>
72
73         <tr>
74             <td>Category</td>
75             <td>
76                 <!-- DROP-DOWN LIST category -->
77                 <?php
78                     // read the product categories from the database
79                     $stmt = $category->read();
80
81                     // put them in a select drop-down
82                     echo "<select class='form-control' name='category_id'>";
83                     echo "<option>Select category...</option>";
84
85                     while ($row_category = $stmt->fetch(PDO::FETCH_ASSOC)) {
86                         extract($row_category);
87                         echo "<option value='{ $id }'>{ $name}</option>";
88                     }
89
90                     echo "</select>";
91                 ?>
92             </td>
93         </tr>
94

```

```

95         <tr>
96             <td></td>
97             <td>
98                 <button type="submit" class="btn btn-primary">Create</button>
99             </td>
100         </tr>
101     </table>
102 </form>
103 </div>
104
105
106 <?php
107     //footer
108     include_once "layout_footer.php";
109 ?>

```

4. index.php:

```
1 <?php
2 // page given in URL parameter, default page is one
3 $page = isset($_GET['page']) ? $_GET['page'] : 1;
4
5 // set number of records per page
6 $records_per_page = 5;
7
8 //calculate for the query LIMIT clause
9 $from_record_num = ($records_per_page * $page) - $records_per_page;
10
11 // include database and object files
12 include_once 'config/database.php';
13 include_once 'objects/product.php';
14 include_once 'objects/category.php';
15
16 // instantiate database and objects
17 $database = new Database();
18 $db = $database->getConnection();
19 $product = new Product($db);
20 $category = new Category($db);
21
22 //query products
23 $stmt = $product->readAll($from_record_num, $records_per_page);
24 $num = $stmt->rowCount();
25
26 // set page header
27 $page_title = "Read Products";
28 include_once "layout_header.php";
29
30 // CREATE PRODUCT Button
31 echo "<div class='m-3 text-end'>
32     <a href='create_product.php' class='btn btn-outline-dark'>Create Product</a>
33 </div>";
```

```
35 //display products
36 if ($num>0)
37 {
38     echo "<table class='table table-bordered'>";
39     echo "<tr>";
40     echo "<th>Product</th>";
41     echo "<th>Price</th>";
42     echo "<th>Description</th>";
43     echo "<th>Category</th>";
44     echo "<th>Actions</th>";
45     echo "</tr>";
46
47     while ($row = $stmt->fetch(PDO::FETCH_ASSOC))
48     {
49         extract($row);
50
51         echo "<tr>";
52         echo "<td>{$name}</td>";
53         echo "<td>{$price}</td>";
54         echo "<td>{$description}</td>";
55         echo "<td>";
56         $category->id = $category_id;
57         $category->readName();
58         echo $category->name;
59         echo "</td>";
60
61         echo "<td>";
62         //read, edit and delete button
63         echo "<a href='read_one.php?id={$id}' class='btn btn-outline-primary'>
64             <i class='bi bi-list'></i> Read
65         </a>";
66
67         echo "<a href='update_product.php?id={$id}' class='btn btn-outline-info'>
68             <i class='bi bi-pencil-square'></i> Edit
69         </a>";
70
71         echo "<a href='delete-one.php?id={$id}' class='btn btn-outline-danger'>
72             <i class='bi bi-x-square'></i> Delete
73         </a>";
74         echo "</td>";
75
76         echo "</tr>";
77     }
78     echo "</table>";
79 }
```

```

80         // the page where this paging is used
81         $page_url = "index.php?";
82
83         //count all products in the database to calculate total pages
84         $total_rows = $product->countAll();
85
86         //paging button
87         include_once 'paging.php';
88     }
89     else
90     {
91         echo "<div class='alert alert-info'>No products found </div>";
92     }
93
94     // set page footer
95     include_once "layout_footer.php";
96 }
97
98

```

5. paging.php:

```

1  <?php
2  echo "<ul class='pagination'>";
3
4  //button for first page
5  if ($page>1)
6  {
7      echo "<li class='page-item'><a class='page-link' href='{ $page_url}' title='Go to the first page'>First</a></li>";
8  }
9
10 // calculate total pages
11 $total_pages = ceil($total_rows/$records_per_page);
12
13 // range of links to show
14 $range = 2;
15 $initial_num = $page - $range;
16 $condition_limit_num = ($page + $range) + 1;
17
18 for ($x=$initial_num; $x<$condition_limit_num; $x++)
19 {
20     if ( ($x>0) && ($x <= $total_pages) )
21     {
22         //current page
23         if ($x == $page)
24         {
25             echo "<li class='page-item active'><a class='page-link' href='{ $page_url}'>{$x} <span class='visually-hidden'>(current)</span></a></li>";
26         }
27         //not current page
28         else
29         {
30             echo "<li class='page-item'><a class='page-link' href='{ $page_url}'>page={$x}>{$x}</a></li>";
31         }
32     }
33 }
34
35 //button for last page
36 if ($page < $total_pages)
37 {
38     echo "<li class='page-item'><a class='page-link' href='{ $page_url}'>page={$total_pages}>{$total_pages}</a></li>";
39 }
40
41 echo "</ul>";
42
43

```

6. read_one.php:

```
1  <?php
2  // get id of the product to be Read
3  $id = isset($_GET['id']) ? $_GET['id'] : die('ERROR: missing ID.');
```

4

```
5  // include database and object
6  include_once "config/database.php";
7  include_once "objects/product.php";
8  include_once "objects/category.php";
9
10 //get db connection
11 $database = new Database();
12 $db = $database->getConnection();
13
14 // prepare object
15 $product = new Product($db);
16 $category = new Category($db);
17
18 // set id property of product to be read
19 $product->id = $id;
20 // read details of product to be read
21 $product->readOne();
22
23 //set page header
24 $page_title = "Read One Product";
25 include_once "layout_header.php";
26
27 //Saving into History
28 $product->savingAction($id, "Read");
29
30 //read product button
31 echo "<div class='m-3 text-end'>
32     <a href='index.php' class='btn btn-primary'>
33         <i class='bi bi-list-task'></i> Read Product
34     </a>
35 </div>";
```

```
37 // HTML table for displaying a product details
38 echo
39 "<table class='table table-bordered'>
40     <tr>
41         <td>Name</td>
42         <td>{$product->name}</td>
43     </tr>
44
45     <tr>
46         <td>Price</td>
47         <td>{$product->price}</td>
48     </tr>
49
50     <tr>
51         <td>Description</td>
52         <td>{$product->description}</td>
53     </tr>
54
55     <tr>
56         <td>Category</td>
57         <td>";
58         // display category name
59         $category->id=$product->category_id;
60         $category->readName();
61         echo $category->name;
62     </td>
63 </tr>
64 </table>";
65
66 //set footer
67 include_once "layout_footer.php";
68 <?>
```

7. update_product.php:

```
1 <?php
2 // retrieve product
3 $id = isset($_GET['id']) ? $_GET['id'] : die('Error: missing ID');
4
5 // include database and object
6 include_once "config/database.php";
7 include_once "objects/product.php";
8 include_once "objects/category.php";
9
10 //get db connection
11 $database = new Database();
12 $db = $database->getConnection();
13
14 //prepare object
15 $product = new Product($db);
16 $category = new Category($db);
17
18 // set ID property of product to be edited
19 $product->id = $id;
20 // read the details of product to be edited
21 $product->readOne();
22
23 //set page header
24 $page_title = "Update Product";
25 include_once "layout_header.php";
26
27
28 // content
29 // Read Product button
30 echo "<div class='m-3 text-end'>
31     <a href='index.php' class='btn btn-outline-dark'>Read Product</a>
32 </div>";
33
34 //set page footer
35 include_once "layout_footer.php";
36 ?>
37 <!-- post code -->
38 <?php
39 //if the form was submitted
40 if ($_POST)
41 {
42     // product property values
43     $product->name = $_POST['name'];
44     $product->price = $_POST['price'];
45     $product->description = $_POST['description'];
46     $product->category_id = $_POST['category_id'];
47
48     //update the Product
49     if ($product->update())
50     {
51         // If update product success, saving into history
52         $product->savingAction($id, "Update");
53         echo "<div class='alert alert-success alert-dismissible'>
54             Product was updated
55         </div>";
56     }
57     else
58     {
59         echo "<div class='alert alert-danger alert-dismissible'>
60             Unable to update Product
61         </div>";
62     }
63 }
64 ?>
65
```

```

66 <!-- Update Product form -->
67 <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]."?id={$id}");?>" method="post">
68 <table class='table table-bordered'>
69 <tr>
70 <td>Name</td>
71 <td><input type='text' name='name' value='<?php echo $product->name; ?>' class='form-control' /></td>
72 </tr>
73
74 <tr>
75 <td>Price</td>
76 <td><input type='text' name='price' value='<?php echo $product->price; ?>' class='form-control' /></td>
77 </tr>
78
79 <tr>
80 <td>Description</td>
81 <td><textarea name='description' class='form-control'><?php echo $product->description; ?></textarea></td>
82 </tr>
83
84 <tr>
85 <td>Category</td>
86 <td>
87 <!-- categories select drop-down will be here -->
88 <?php
89 $stmt = $category->read();
90
91 echo "<select class='form-control' name='category_id'>";
92 echo "<option>Please select...</option>";
93 while ($row_category = $stmt->fetch(PDO::FETCH_ASSOC))
94 {
95     $category_id = $row_category['id'];
96     $category_name = $row_category['name'];
97
98     //current category of the product must be selected
99     if ($product->category_id == $category_id)
100     {
101         echo "<option value='{$category_id}' selected>";
102     }
103     else
104     {
105         echo "<option value='{$category_id}'>";
106     }
107     echo "{$category_name}</option>";
108 }
109 echo "</select>";
110 ?>
111
112 </td>
113 </tr>
114
115 <tr>
116 <td></td>
117 <td>
118 <button type="submit" class="btn btn-primary">Update</button>
119 </td>
120 </tr>
121 </table>
122 </form>

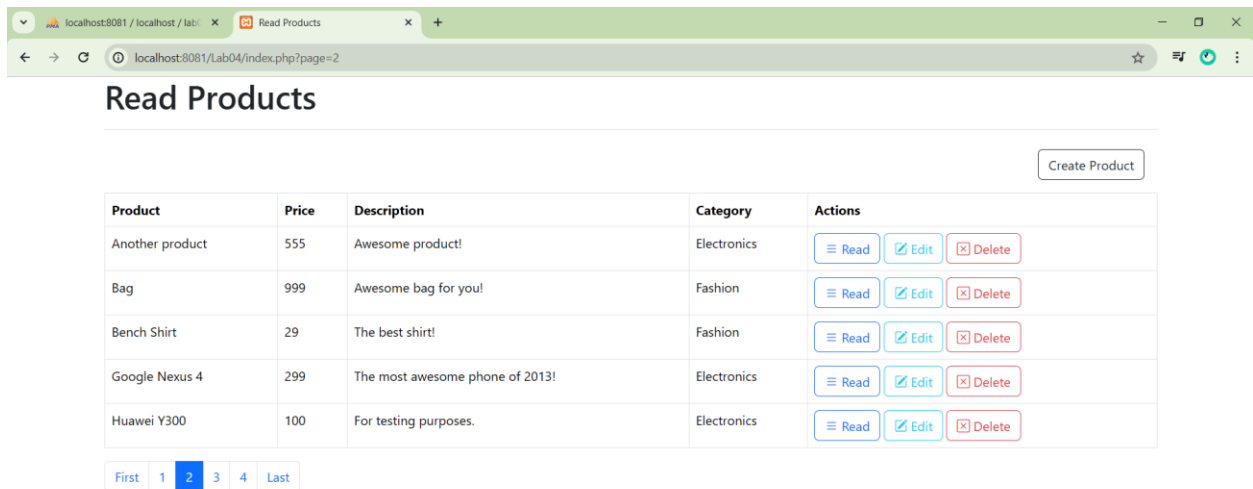
```

8. delete_product.php:

```
1  <?php
2      //check if value was posted
3      if ($_POST)
4      {
5          //include database and object
6          include_once "config/database.php";
7          include_once "objects/product.php";
8
9          //get db connection
10         $database = new Database();
11         $db = $database->getConnection();
12
13         //prepare product object
14         $product = new Product($db);
15
16         // set product id to be deleted
17         $product->id = $_POST['object_id'];
18
19         // delete the Product
20         if ($product->delete())
21         {
22             // If delete product success, saving action into history
23             $product->savingAction($_POST['object_id'], "Delete");
24             echo "Object was deleted";
25         }
26         else
27         {
28             echo "Unable to delete object";
29         }
30     }
31  ?>
```

Result:

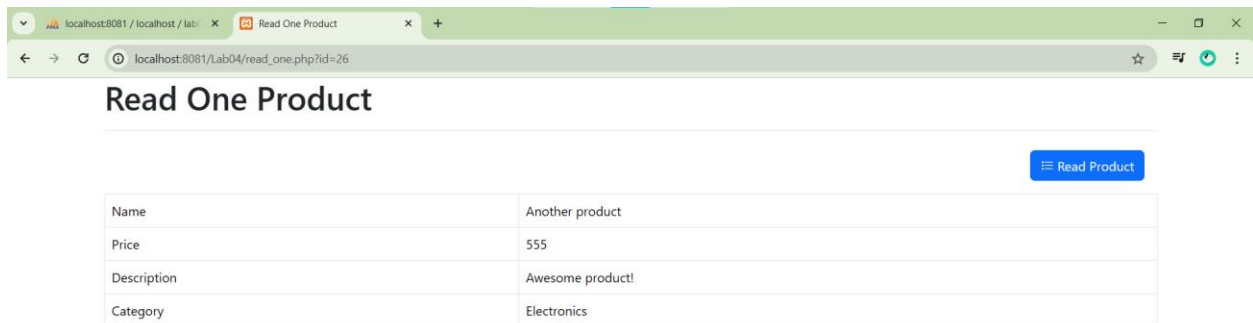
index.php:



Product	Price	Description	Category	Actions
Another product	555	Awesome product!	Electronics	Read Edit Delete
Bag	999	Awesome bag for you!	Fashion	Read Edit Delete
Bench Shirt	29	The best shirt!	Fashion	Read Edit Delete
Google Nexus 4	299	The most awesome phone of 2013!	Electronics	Read Edit Delete
Huawei Y300	100	For testing purposes.	Electronics	Read Edit Delete

First 1 2 3 4 Last

read_one.php:



Name	Price	Description	Category
Another product	555	Awesome product!	Electronics

update_product.php:

localhost:8081 / localhost / lab: X Update Product X +

localhost:8081/Lab04/update_product.php?id=25

Update Product

Read Product

Product was updated

Name	Abercrombie Allen Anew Shirt
Price	600
Description	Awesome new shirt! Reallyyyyy niceeeeeee
Category	Fashion
	<input type="button" value="Update"/>

delete_product.php:

localhost:8081 / localhost / lab: X Read Products X +

localhost:8081/Lab04/index.php

Read Products

Create Product

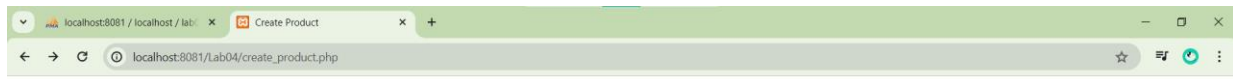
Delete Product

Are you sure?

Product	Price	Description	Category	Actions
Abercrombie Allen Anew Shirt	600			<input type="button" value="Read"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Abercrombie Allen Brook Shirt	70	Cool red shirt!	Fashion	<input type="button" value="Read"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Abercrombie Lake Arnold Shirt	60	Perfect as gift!	Fashion	<input type="button" value="Read"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Amanda Waller Shirt	333	New awesome shirt!	Fashion	<input type="button" value="Read"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Another Motor	800	My motor	Motors	<input type="button" value="Read"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

1 2 3 Last

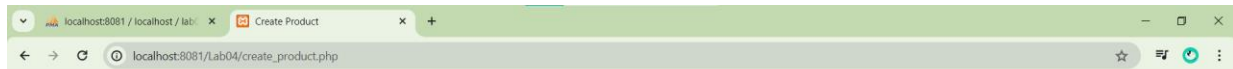
create_product.php:



Create Product

[Read Products](#)

Name	<input type="text" value="Bulb 25V 3A"/>
Price	<input type="text" value="3.99"/>
Description	<input type="text" value="It's shininggggg"/>
Category	<input type="text" value="Electronics"/>
<input type="button" value="Create"/>	



Create Product

[Read Products](#)

Product was created.

Name	<input type="text"/>
Price	<input type="text"/>
Description	<input type="text"/>
Category	<input type="text" value="Select category..."/>
<input type="button" value="Create"/>	

In database:

Product Table:

Server: localhost:3308 » Database: lab04 » Table: products

Browse										Structure	SQL	Search	Insert	Export	Import	Privileges	Operations	Tracking	Triggers	
										id	name	description	price	category_id	created	modified				
<input type="checkbox"/>				13	Abercrombie Allen Brook Shirt	Cool red shirt!	70	1	2014-06-06 17:12:59	2014-06-05 18:12:49										
<input type="checkbox"/>				25	Abercrombie Allen Anew Shirt	Awesome new shirt! Reallyyyyy niceeeeeeee	600	1	2014-11-22 18:42:13	2014-11-21 19:42:13										
<input type="checkbox"/>				26	Another product	Awesome product!	555	2	2014-11-22 19:07:34	2014-11-21 20:07:34										
<input type="checkbox"/>				27	Bag	Awesome bag for you!	999	1	2014-12-04 21:11:36	2014-12-03 22:11:36										
<input type="checkbox"/>				28	Wallet	You can absolutely use this one!	799	1	2014-12-04 21:12:03	2014-12-03 22:12:03										
<input type="checkbox"/>				30	Wal-mart Shirt		555	2	2014-12-13 00:52:29	2014-12-12 01:52:29										
<input type="checkbox"/>				31	Amanda Waller Shirt	New awesome shirt!	333	1	2014-12-13 00:52:54	2014-12-12 01:52:54										
<input type="checkbox"/>				32	Washing Machine Model PTRR	Some new product.	999	1	2015-01-08 22:44:15	2015-01-07 23:44:15										
<input type="checkbox"/>				38	Pillow 1.1	The best pillow for dev	30	2	2024-05-22 14:54:59	2024-05-22 19:54:59										
<input type="checkbox"/>				51	Bulb 25V 3A	It's shiningggggg	4	2	2024-05-30 16:31:14	2024-05-30 21:31:14										

History Table:

Server: localhost:3308 » Database: lab04 » Table: history

⚠ Current selection does not contain a unique column. Grid edit, checkbox, I

✅ Showing rows 0 - 10 (11 total, Query took 0.0003 seconds.)

`SELECT * FROM `history``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this

Extra options

id	action	timestamp
25	Read	2024-05-29 18:28:29
25	Update	2024-05-29 18:30:28
46	Create	2024-05-29 18:37:15
47	Create	2024-05-29 18:38:27
48	Create	2024-05-29 18:40:41
49	Create	2024-05-29 18:41:51
50	Create	2024-05-29 18:43:57
50	Delete	2024-05-29 18:46:20
26	Read	2024-05-30 16:24:34
51	Create	2024-05-30 16:31:14