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## DATABASE TECHNOLOGY AOL

Berikut adalah penjelasan kode dan demo aplikasi:

<https://drive.google.com/file/d/1H2ypF3yw9wxcuxmYdjfQ8IWMGuFuBIIq/view?usp=sharing>

- **SELECT**

\*select boats



The screenshot shows a code editor window with a dark theme. At the top, there are three colored circular icons (red, yellow, green). The code itself is a PHP script. It starts with an HTML header <h2> Boats</h2>. Below this, it includes a connection block using mysqli, checks for errors, and then executes a SQL query to select all rows from the 'boats' table. It then loops through the results, printing each row's bid, name, and color into a table. If no results are found, it prints a message. Finally, it closes the database connection. The code is numbered from 1 to 47.

```
1  <h2> Boats</h2><br>
2
3  <?php
4
5  $servername = "localhost";
6  $username = "root";
7  $password = "";
8  $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13     die("connection failed:". $conn->connect_error);
14 }
15
16 $sql = "select * from boats";
17 $result = $conn->query($sql);
18 ?>
19
20 <table border="1", cellspacing = "1" ,cellpadding="1">
21     <tr>
22         <th>Bid</th>
23         <th> Boat Name</th>
24         <th> color </th>
25     </tr>
26 <?php
27 if($result->num_rows > 0){
28     while($row = $result ->fetch_assoc()){
29         ?>
30         <tr>
31             <td><?php echo $row ['bid']; ?> </td>
32             <td><?php echo $row ['bname']; ?> </td>
33             <td><?php echo $row ['color']; ?> </td>
34         </tr>
35     <?php
36 }
37 }else{
38     echo"0 result";
39 }
40 $conn->close();
41 ?>
42 </table>
43
44 <br><br>
45 <a href="http://localhost/labdata/homepage/BMenu.html">back</a>
46 <link rel="stylesheet" href="SelectTest.css">
47
```

*Contoh kode select boats*

Bid	Boat Name	color
101	Interlake	blue
102	Interlake	red
103	Clipper	Green
104	Marine	red

back

*Tampilan select di web*

\*select sailors

```

1 <h2> Sailors </h2><br>
2
3 <?php
4
5 $servername = "localhost";
6 $username = "root";
7 $password = "";
8 $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13 die("connection failed: ". $conn->connect_error);
14 }
15
16 $sql = "select * from sailors";
17 $result = $conn->query($sql);
18 >
19
20 <table border="1", cellspacing = "1" ,cellpadding="1">
21   <tr>
22     <th>sid:</th>
23     <th> sname</th>
24     <th> rating </th>
25     <th> age </th>
26   </tr>
27 </?php
28 if($result->num_rows > 0){
29   while($row = $result ->fetch_assoc()){
30     ?>
31     <tr>
32       <td><?php echo $row ['sid']; ?> </td>
33       <td><?php echo $row ['sname']; ?> </td>
34       <td><?php echo $row ['rating']; ?> </td>
35       <td><?php echo $row ['age']; ?> </td>
36     </tr>
37 </?php
38 }
39 }else{
40   echo"0 result";
41 }
42 $conn->close();
43 >
44 </table>
45
46 <br><br>
47 <a href="http://localhost/labdata/homepage/SMenu.html">back</a>
48 <link rel="stylesheet" href="select.css">
49

```

*Contoh kode select Sailors*

The screenshot shows a web browser window with multiple tabs open. The active tab displays a table titled "Sailors" with the following data:

sid	sname	rating	age
22	Dustin	7	45
29	Brutus	1	33
31	Lubber	8	55
32	Andy	8	25
58	Rusty	10	55
64	Horatio	7	35
71	Zorba	10	16
74	Horatio	9	35
85	Art	3	25.5
95	Bob	3	63.5

Tampilan select di web

#### \*select reserves

```

1 <h2> Reserves </h2><br>
2
3 <?php
4
5 $servername = "localhost";
6 $username = "root";
7 $password = "";
8 $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13     die("connection failed: ". $conn->connect_error);
14 }
15
16 $sql ="select * from reserves";
17 $result = $conn->query($sql);
18 ?>
19
20 <table border="1", cellspacing = "1" ,cellpadding="1">
21     <tr>
22         <th>sid</th>
23         <th> bid</th>
24         <th> days </th>
25     </tr>
26 </?php
27 if($result->num_rows > 0){
28     while($row = $result ->fetch_assoc()){
29         ?>
30         <tr>
31             <td><?php echo $row ['sid']; ?> </td>
32             <td><?php echo $row ['bid']; ?> </td>
33             <td><?php echo $row ['days']; ?> </td>
34         </tr>
35     </?php
36 }
37 else{
38     echo"0 result";
39 }
40 $conn ->close();
41 ?>
42 </table>
43
44 <br><br>
45 <a href="http://localhost/labdata/homepage/RMenu.html">back</a>
46 <link rel="stylesheet" href="select.css">
```

Contoh kode select Reserves

sid	bid	days
22	101	10/10/98
22	102	11/10/98
22	103	12/10/98
22	104	13/10/98
31	102	14/10/98
31	103	15/10/98
31	104	14/10/98
64	101	15/10/98
64	102	16/10/98
74	103	17/10/98

back

*Tampilan select di web*

Dibawah ini merupakan kode yang digunakan untuk menampilkan tabel yang berisi informasi mengenai sailors, boat, dan reserves. Meskipun proyek kami terdiri dari beberapa file seperti boat, sailors, dan reserves, semua perintah SELECT pada dasarnya serupa, hanya perlu mengganti variabel nama saja. Kode ini dapat menampilkan seluruh data atau hanya memilih informasi tertentu yang ingin ditampilkan. Selain itu, terdapat kode CSS yang ditambahkan untuk memperindah tampilan tabel saat ditampilkan di website.

Kode ini akan berhubungan antara PHP mysql dengan website jadi ketika menunjukkan table akan sesuai dengan data yang kita masukkan ke PHP. Dan ketika menunjukkan data yang diinginkan secara personal kita bisa menggunakan  
 SELECT from “Boats”  
 SELECT from “Sailors”  
 SELECT from “Reserves”

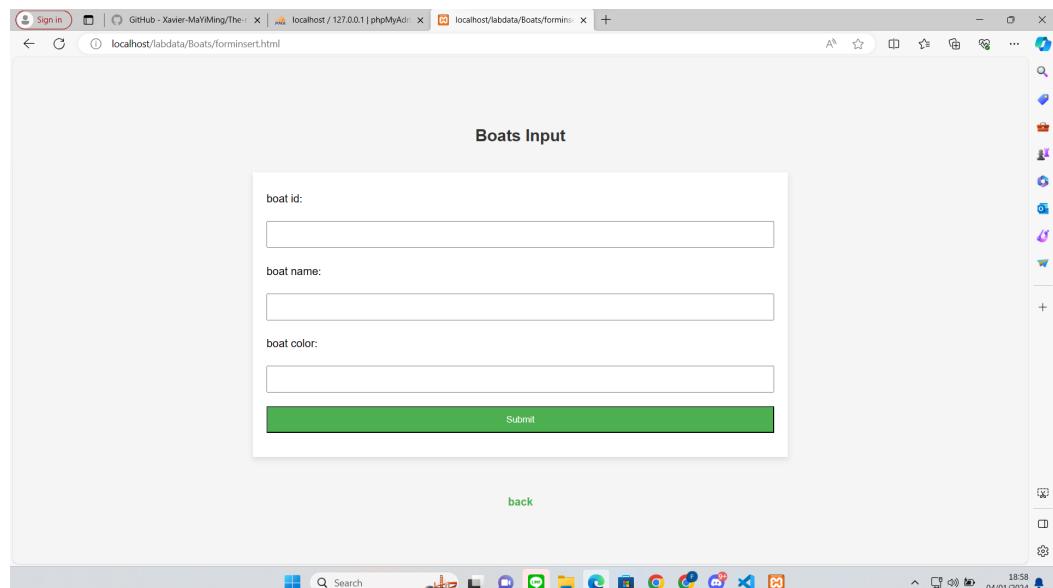
Namun jika kita ingin menunjukkan table secara keseluruhan kita bisa menggunakan  
 SELECT\*

- **INSERT**

\*insert boats

```
1 <h2> Boats Input</h2>
2
3 <?php
4 $servername = "localhost";
5 $username = "root";
6 $password = "";
7 $dbname = "part";
8
9 $conn = new mysqli($servername, $username, $password, $dbname);
10
11 if ($conn->connect_error){
12     die("connection failed:". $conn->connect_error);
13 }
14 $_bid = $_POST['_bid'];
15 $_bname = $_POST['_bname'];
16 $_color = $_POST['_color'];
17 $sql = "insert into boats set bid ='$_bid', bname='$_bname', color='$_color'";
18 if ($conn->query($sql) === TRUE){
19     echo "New record created successfully";
20 } else {
21     echo "error:" . $sql . "<br>" . $conn->error;
22 }
23 $conn->close();
24 ?>
25 <br><br>
26 <a href="http://localhost/labdata/homepage/BMenu.html">back</a>
27 <link rel="stylesheet" href="insert.css">
```

Contoh kode insert boats

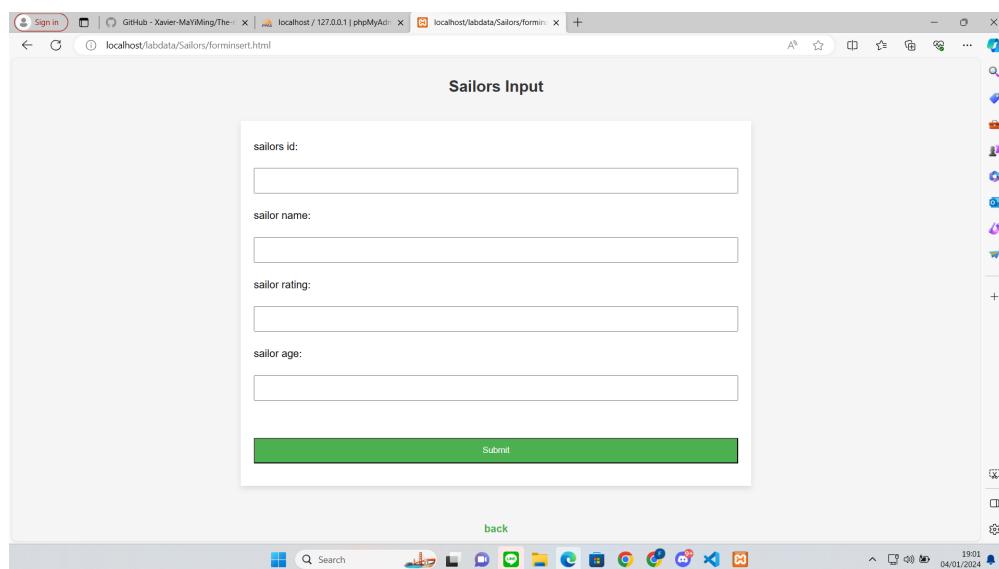


Tampilan insert di web

### \*insert sailors

```
1 <h2> Sailors Input </h2>
2
3 <?php
4 $servername = "localhost";
5 $username = "root";
6 $password = "";
7 $dbname = "part";
8
9 $conn = new mysqli($servername, $username, $password, $dbname);
10
11 if ($conn->connect_error) {
12     die("Connection failed: " . $conn->connect_error);
13 }
14
15 // Validasi dan sanitasi input
16 $_sid = $_POST['_sid'];
17 $_sname = $_POST['_sname'];
18 $_rating = $_POST['_rating'];
19
20 if (isset($_POST['_age'])) {
21     // Gunakan fungsi floatval untuk mendapatkan nilai float dari string
22     $_age = floatval($_POST['_age']);
23
24     // Gunakan prepared statements untuk melindungi dari SQL injection
25     $sql = $conn->prepare("INSERT INTO sailors (sid, sname, rating, age) VALUES (?, ?, ?, ?)");
26     $sql->bind_param("sssd", $_sid, $_sname, $_rating, $_age);
27
28     if ($sql->execute()) {
29         echo "New record created successfully";
30     } else {
31         echo "Error: " . $sql->error;
32     }
33
34     $sql->close();
35 } else {
36     echo "Invalid age format. Please enter a valid number.";
37 }
38
39 $conn->close();
40 ?>
41 <br><br>
42 <a href="http://localhost/labdata/homepage/SMenu.html">back</a>
43 <link rel="stylesheet" href="insert.css">
44
```

Contoh kode insert sailors



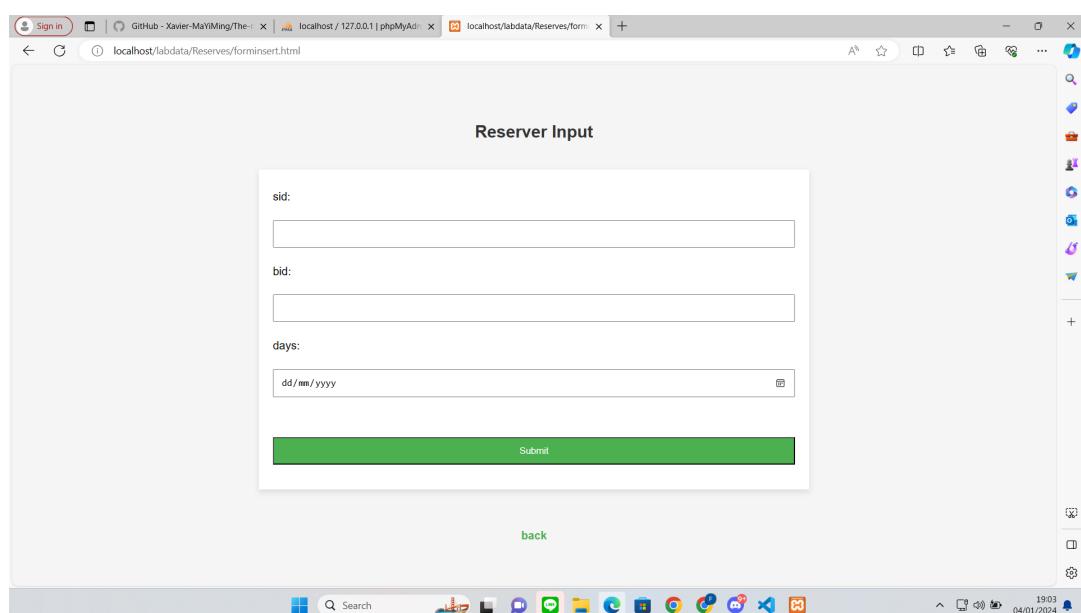
The screenshot shows a web browser window with the title "Sailors Input". The page contains a form with four text input fields and a submit button. The fields are labeled "sailors id:", "sailor name:", "sailor rating:", and "sailor age:". Below the fields is a green "Submit" button. The browser's address bar shows the URL as localhost/labdata/Sailors/forminsert.html.

Tampilan insert di web

\*insert reserves

```
1 <h2> Reserves Input </h2>
2
3 <?php
4 $servername = "localhost";
5 $username = "root";
6 $password = "";
7 $dbname = "part";
8
9 $conn = new mysqli($servername, $username, $password, $dbname);
10
11 if ($conn->connect_error){
12     die("connection failed:". $conn->connect_error);
13 }
14 $_sid = $_POST['_sid'];
15 $_bid = $_POST['_bid'];
16 $_days = $_POST['_days'];
17 $sql = "insert into Reserves set sid ='$_sid', bid='$_bid', days='$_days'";
18 if ($conn->query($sql) === TRUE){
19     echo "New record created successfully";
20 } else {
21     echo "error:" . $sql . "<br>" . $conn->error;
22 }
23 $conn->close();
24 ?>
25 <br><br>
26 <a href="http://localhost/labdata/homepage/RMenu.html">back</a>
27 <link rel="stylesheet" href="insert.css">
```

Contoh kode insert sailors



The screenshot shows a Microsoft Edge browser window with the title bar displaying multiple tabs. The active tab is titled 'localhost/labdata/Reserves/forminsert.html'. The main content area contains a form with the title 'Reserver Input'. The form has three input fields: 'sid:' with a text input field, 'bid:' with a text input field, and 'days:' with a date input field (dd/mm/yyyy). Below the inputs is a large green 'Submit' button. At the bottom of the page, there is a link labeled 'back'.

Tampilan insert di web

Code Insert memiliki fungsi penambahan data baru ke dalam sebuah database. Ini bekerja dengan cara menentukan primary key baru dari sebuah data dan penambahan detail-detail tambahan agar data terlengkap. Lalu data tersebut dimasukan kedalam tabel kumpulan data lainnya yang sejenis pada sebuah database.

- **DELETE**

\*delete boats

```
● ● ●

<?php
$servername = "localhost";
$username = "root";
$password = "tm";
$dbname = "part";
$conn = new mysqli($servername, $username, $password, $dbname);

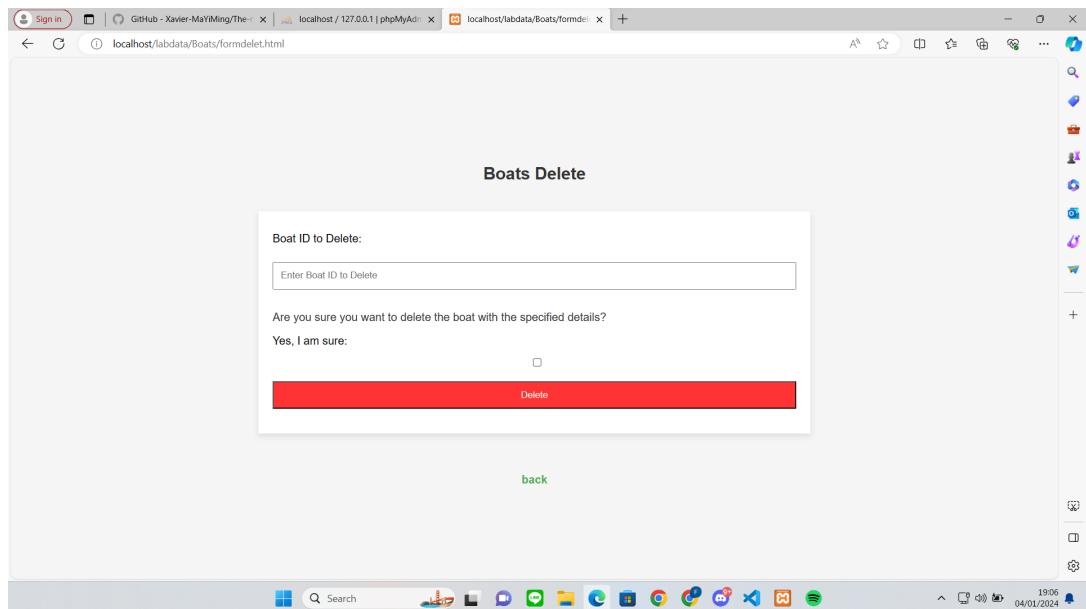
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Assuming '_bid' is the key for identifying the record to delete
$_bid_to_delete = $_POST['bid'];
$sql = "DELETE FROM boats WHERE bid = '$_bid_to_delete'";

if ($conn->query($sql) === TRUE) {
    echo "Record deleted successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}

$conn->close();
?>
<a href="http://localhost/labdata/homepage/BNenu.html">back</a>
<link rel="stylesheet" href="delet.css">
```

*Contoh kode delete boats*

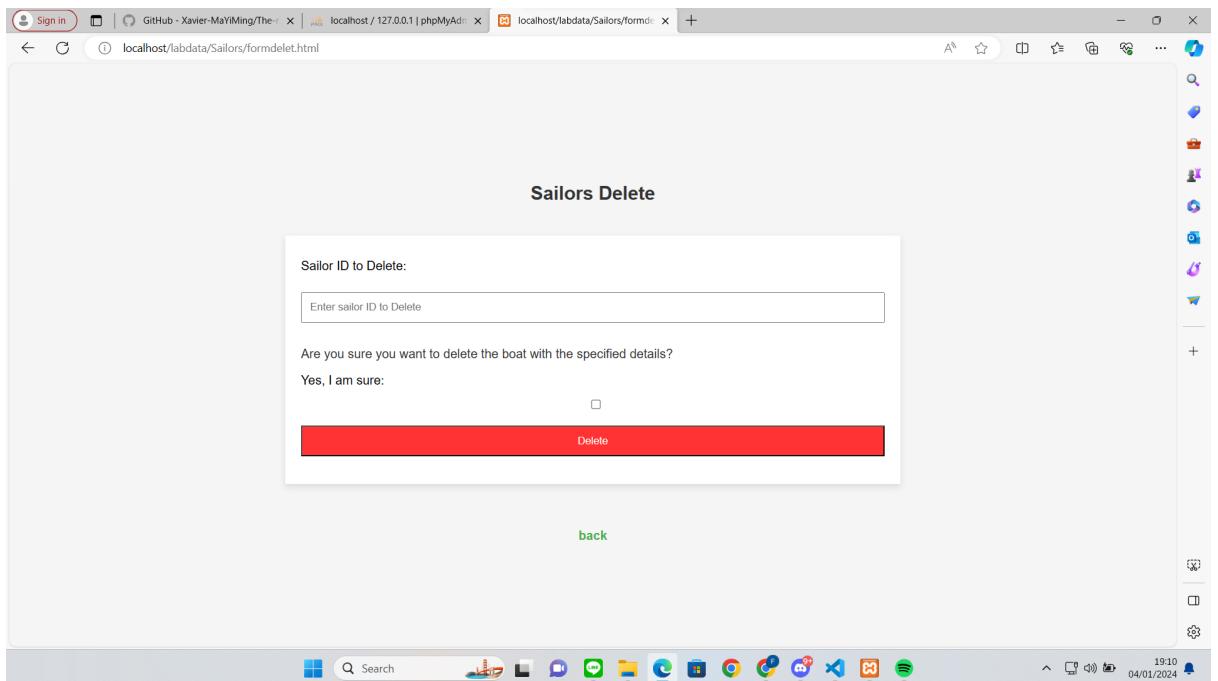


Tampilan delete di web

\*delete sailors

```
1 <?php
2 $servername = "localhost";
3 $username = "root";
4 $password = "";
5 $dbname = "part";
6
7 $conn = new mysqli($servername, $username, $password, $dbname);
8
9 if ($conn->connect_error){
10     die("Connection failed: " . $conn->connect_error);
11 }
12
13 // Assuming '_bid' is the key for identifying the record to delete
14 $_sid_to_delete = $_POST['_sid'];
15
16 $sql = "DELETE FROM sailors WHERE sid = '$_sid_to_delete'";
17
18 if ($conn->query($sql) === TRUE) {
19     echo "Record deleted successfully";
20 } else {
21     echo "Error: " . $sql . "<br>" . $conn->error;
22 }
23
24 $conn->close();
25 ?>
26 <br><br>
27 <a href="http://localhost/labdata/homepage/SMenu.html">back</a>
28 <link rel="stylesheet" href="delet.css">
29
```

Contoh kode delete sailors



*Tampilan delete di web*

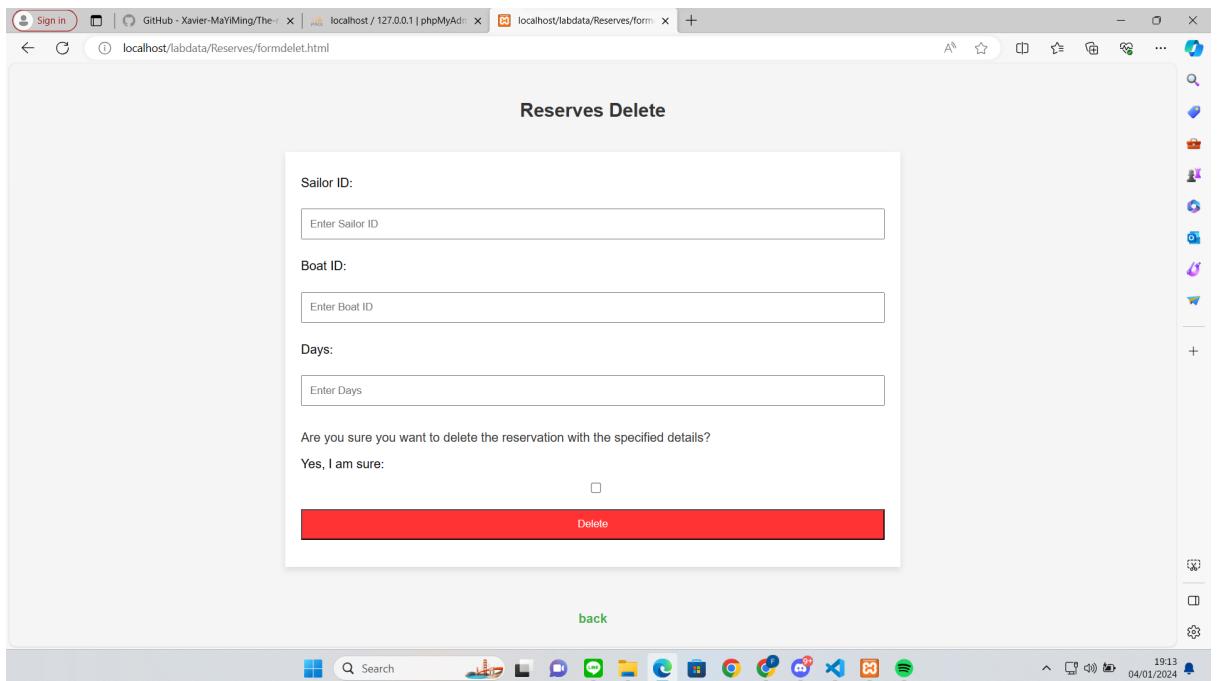
\*delete reserves

```

1  <?php
2  $servername = "localhost";
3  $username = "root";
4  $password = "";
5  $dbname = "part";
6
7  $conn = new mysqli($servername, $username, $password, $dbname);
8
9  if ($conn->connect_error) {
10      die("Connection failed: " . $conn->connect_error);
11  }
12
13 // Assuming '_sid', '_bid', and '_days' are the keys for identifying the record to delete
14 $_sid_to_delete = $_POST['_sid'];
15 $_bid_to_delete = $_POST['_bid'];
16 $_days_to_delete = $_POST['_days'];
17
18 // Use prepared statement to prevent SQL injection
19 $sql = "DELETE FROM reserves WHERE sid = ? AND bid = ? AND days = ?";
20 $stmt = $conn->prepare($sql);
21 $stmt->bind_param("sss", $_sid_to_delete, $_bid_to_delete, $_days_to_delete);
22
23 if ($stmt->execute()) {
24     echo "Record deleted successfully";
25 } else {
26     echo "Error: " . $stmt->error;
27 }
28
29 $stmt->close();
30 $conn->close();
31 >
32 <br><br>
33 <a href="http://localhost/labdata/homepage/RMenu.html">back</a>
34 <link rel="stylesheet" href="delet.css">
35

```

*Contoh kode delete reserves*



Tampilan delete di web

Dalam proses penghapusan data boats dari database menggunakan PHP dan MySQL, langkah awalnya melibatkan pembuatan koneksi ke database dengan memberikan informasi seperti alamat server, nama pengguna, dan kata sandi. Setelah itu, kita memeriksa apakah koneksi berhasil atau tidak. Selanjutnya, kita mengambil data yang dimasukkan oleh pengguna melalui formulir, contohnya nomor identifikasi kapal yang ingin dihapus. Pada tahap penting berikutnya, kita memberikan perintah kepada komputer untuk menghapus data kapal dari tabel 'boats' berdasarkan nomor identifikasi tersebut. Hasil dari perintah ini kemudian dievaluasi, dan pesan keberhasilan atau kesalahan dicetak. Akhirnya, kita menutup koneksi ke database setelah selesai. Proses ini membantu memahami cara sederhana mengelola data dalam database menggunakan PHP dan MySQL.

Perintah DELETE digunakan dalam SQL untuk menghapus data dari tabel database. "delete boats", "delete sailors", dan "delete reserves" memiliki dampak dan tujuan yang berbeda-beda

### 1. DELETE FROM boats:

- Tujuan: Menghapus semua data dari tabel "boats".
- Dampak: Semua catatan dalam tabel "boats" akan dihapus.

### 2. DELETE FROM sailors:

- Tujuan: Menghapus semua data dari tabel "sailors".
- Dampak: Semua catatan dalam tabel "sailors" akan dihapus.

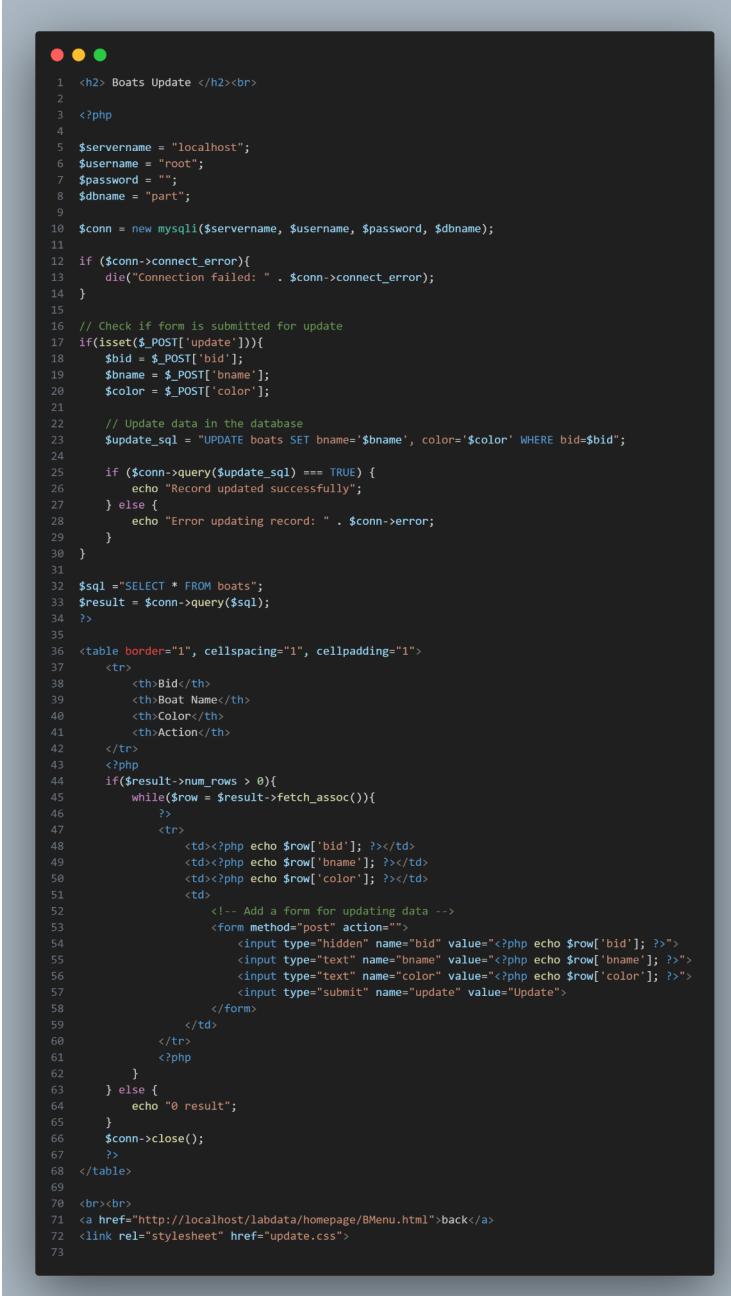
### 3. DELETE FROM reserves:

- Tujuan: Menghapus semua data dari tabel "reserves".
- Dampak: Semua catatan dalam tabel "reserves" akan dihapus.

Perbedaannya terletak pada tabel yang dioperasikan. "boats", "sailors", dan "reserves" adalah nama tabel yang berbeda, dan pernyataan DELETE akan menghapus data dari tabel yang sesuai dengan nama yang disebutkan.

## ● UPDATE

\*update boats



```

1 <h2> Boats Update </h2><br>
2
3 <?php
4
5 $servername = "localhost";
6 $username = "root";
7 $password = "";
8 $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13     die("Connection failed: " . $conn->connect_error);
14 }
15
16 // Check if form is submitted for update
17 if(isset($_POST['update'])){
18     $bid = $_POST['bid'];
19     $bname = $_POST['bname'];
20     $color = $_POST['color'];
21
22     // Update data in the database
23     $update_sql = "UPDATE boats SET bname='$bname', color='$color' WHERE bid=$bid";
24
25     if ($conn->query($update_sql) === TRUE) {
26         echo "Record updated successfully";
27     } else {
28         echo "Error updating record: " . $conn->error;
29     }
30 }
31
32 $sql = "SELECT * FROM boats";
33 $result = $conn->query($sql);
34 ?>
35
36 <table border="1", cellspacing="1", cellpadding="1">
37     <tr>
38         <th>Bid</th>
39         <th>Boat Name</th>
40         <th>Color</th>
41         <th>Action</th>
42     </tr>
43     <?php
44     if($result->num_rows > 0){
45         while($row = $result->fetch_assoc()){
46             ?>
47             <tr>
48                 <td><?php echo $row['bid']; ?></td>
49                 <td><?php echo $row['bname']; ?></td>
50                 <td><?php echo $row['color']; ?></td>
51                 <td>
52                     <!-- Add a form for updating data -->
53                     <form method="post" action=">">
54                         <input type="hidden" name="bid" value=<?php echo $row['bid']; ?>>">
55                         <input type="text" name="bname" value=<?php echo $row['bname']; ?>>">
56                         <input type="text" name="color" value=<?php echo $row['color']; ?>>">
57                         <input type="submit" name="update" value="Update">
58                     </form>
59                 </td>
60             </tr>
61         <?php
62     }
63     } else {
64         echo "0 result";
65     }
66     $conn->close();
67     ?>
68 </table>
69
70 <br><br>
71 <a href="http://localhost/labdata/homepage/BMenu.html">back</a>
72 <link rel="stylesheet" href="update.css">
73

```

*Contoh kode update boats*

Bid	Boat Name	Color	Action
101	Interlake	blue	<input type="text" value="Interlake"/> <input type="text" value="blue"/>
102	Interlake	red	<input type="text" value="Interlake"/> <input type="text" value="red"/>
103	Clipper	Green	<input type="text" value="Clipper"/> <input type="text" value="Green"/>
104	Marine	red	<input type="text" value="Marine"/> <input type="text" value="red"/>

back

*Tampilan update di web*

\*update sailors

```

1 <h2> Sailors update </h2><br>
2
3 <?php
4
5 $servername = "localhost";
6 $username = "root";
7 $password = "";
8 $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13     die("Connection failed: " . $conn->connect_error);
14 }
15
16 // Check if form is submitted for update
17 if(isset($_POST['update'])){
18     $sid = $_POST['sid'];
19     $sname = $_POST['sname'];
20     $rating = $_POST['rating'];
21     $age = $_POST['age'];
22
23     // Update data in the database
24     $update_sql = "UPDATE sailors SET sname='$sname', rating='$rating', age='$age' WHERE sid =$sid";
25
26     if ($conn->query($update_sql) === TRUE) {
27         echo "Record updated successfully";
28     } else {
29         echo "Error updating record: " . $conn->error;
30     }
31 }
32
33 $sql = "SELECT * FROM sailors";
34 $result = $conn->query($sql);
35 ?>
36
37 <table border="1", cellspacing="1", cellpadding="1">
38     <tr>
39         <th>sid</th>
40         <th>sailor Name</th>
41         <th>rating</th>
42         <th>age</th>
43         <th>Action</th>
44     </tr>
45     <tr>
46         &#39; if($result->num_rows > 0){
47             while($row = $result->fetch_assoc()){
48                 <td>
49                     <td><?php echo $row["sid"]; ?></td>
50                     <td><?php echo $row["sname"]; ?></td>
51                     <td><?php echo $row["rating"]; ?></td>
52                     <td><?php echo $row["age"]; ?></td>
53                     <td>
54                         <!-- Add a form for updating data -->
55                         <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
56                             <input type="hidden" name="sid" value=<?php echo $row['sid']; ?>>
57                             <input type="text" name="sname" value=<?php echo $row['sname']; ?>>
58                             <input type="text" name="rating" value=<?php echo $row['rating']; ?>>
59                             <input type="text" name="age" value=<?php echo $row['age']; ?>>
60                             <input type="submit" name="update" value="Update">
61                         </form>
62                     </td>
63                 </td>
64             </tr>
65         &#39;
66     }
67 }
68 &#39; else {
69     &#39; echo "0 result";
70 }
71 $conn->close();
72 ?>
73 </table>
74 <br><br>
75 <a href="http://localhost/labdata/homepage/SMenu.html">back</a>
76 <link rel="stylesheet" href="update.css">
```

*Contoh kode update sailors*

sid	sailor Name	rating	age	Action
22	Dustin	7	45	<input type="text" value="Dustin"/> <input type="text" value="7"/> <input type="text" value="45"/> <button>Update</button>
29	Brutus	1	33	<input type="text" value="Brutus"/> <input type="text" value="1"/> <input type="text" value="33"/> <button>Update</button>
31	Lubber	8	55	<input type="text" value="Lubber"/> <input type="text" value="8"/> <input type="text" value="55"/> <button>Update</button>
32	Andy	8	25	<input type="text" value="Andy"/> <input type="text" value="8"/> <input type="text" value="25"/> <button>Update</button>
58	Rusty	10	55	<input type="text" value="Rusty"/> <input type="text" value="10"/> <input type="text" value="55"/> <button>Update</button>
64	Horatio	7	35	<input type="text" value="Horatio"/> <input type="text" value="7"/> <input type="text" value="35"/> <button>Update</button>
71	Zorba	10	16	<input type="text" value="Zorba"/> <input type="text" value="10"/> <input type="text" value="16"/> <button>Update</button>
74	Horatio	9	35	<input type="text" value="Horatio"/> <input type="text" value="9"/> <input type="text" value="35"/> <button>Update</button>
85	Art	3	25.5	<input type="text" value="Art"/> <input type="text" value="3"/> <input type="text" value="25.5"/> <button>Update</button>
95	Bob	3	63.5	<input type="text" value="Bob"/> <input type="text" value="3"/> <input type="text" value="63.5"/> <button>Update</button>

Tampilan update di web

\*update reserves

```

1 <h2> Reserves Update </h2><br>
2
3 <?php
4
5 $servername = "localhost";
6 $username = "root";
7 $password = "";
8 $dbname = "part";
9
10 $conn = new mysqli($servername, $username, $password, $dbname);
11
12 if ($conn->connect_error){
13     die("Connection failed: " . $conn->connect_error);
14 }
15
16 // Check if form is submitted for update
17 if(isset($_POST['update'])){
18     $sid = $_POST['sid'];
19     $bid = $_POST['bid'];
20     $days = $_POST['days'];
21
22     // Update data in the database
23     $update_sql = "UPDATE reserves SET days=$days WHERE sid=$sid AND bid=$bid";
24
25     if ($conn->query($update_sql) === TRUE) {
26         echo "Record updated successfully";
27     } else {
28         echo "Error updating record: " . $conn->error;
29     }
30 }
31
32 $sql = "SELECT * FROM reserves";
33 $result = $conn->query($sql);
34 ?
35
36 <table border='1', cellspacing='1', cellpadding='1'>
37     <tr>
38         <th>sid</th>
39         <th>bid</th>
40         <th>days</th>
41         <th>Action</th>
42     </tr>
43     <tr>
44         &if($result->num_rows > 0){
45             while($row = $result->fetch_assoc()){
46                 ?
47                 <tr>
48                     <td><?php echo $row['sid']; ?></td>
49                     <td><?php echo $row['bid']; ?></td>
50                     <td><?php echo $row['days']; ?></td>
51                     <td>
52                         <!-- Add a form for updating data -->
53                         <form method="post" action="">>
54                             <input type="hidden" name="sid" value=<?php echo $row['sid']; ?>>;
55                             <input type="hidden" name="bid" value=<?php echo $row['bid']; ?>>;
56                             <input type="text" name="days" value=<?php echo $row['days']; ?>>;
57                             <input type="submit" name="update" value="Update">
58                         </form>
59                     </td>
60                 </tr>
61             }
62         } else {
63             echo "&#0 result";
64         }
65         $conn->close();
66     ?>
67 </table>
68
69 <br><br>
70 <a href="http://localhost/labdata/homepage/RMenu.html">back</a>
71 <link rel="stylesheet" href="update.css">
72

```

Contoh kode update resservers

Reserves Update			
sid	bid	days	Action
22	101	10/10/98	<input type="text" value="10/10/98"/>
22	102	11/10/98	<input type="text" value="11/10/98"/>
22	103	12/10/98	<input type="text" value="12/10/98"/>
22	104	13/10/98	<input type="text" value="13/10/98"/>
31	102	14/10/98	<input type="text" value="14/10/98"/>
31	103	15/10/98	<input type="text" value="15/10/98"/>
31	104	14/10/98	<input type="text" value="14/10/98"/>
64	101	15/10/98	<input type="text" value="15/10/98"/>
64	102	16/10/98	<input type="text" value="16/10/98"/>
74	103	17/10/98	<input type="text" value="17/10/98"/>

Tampilan update di web

- **SUM BOATS,SAILORS**

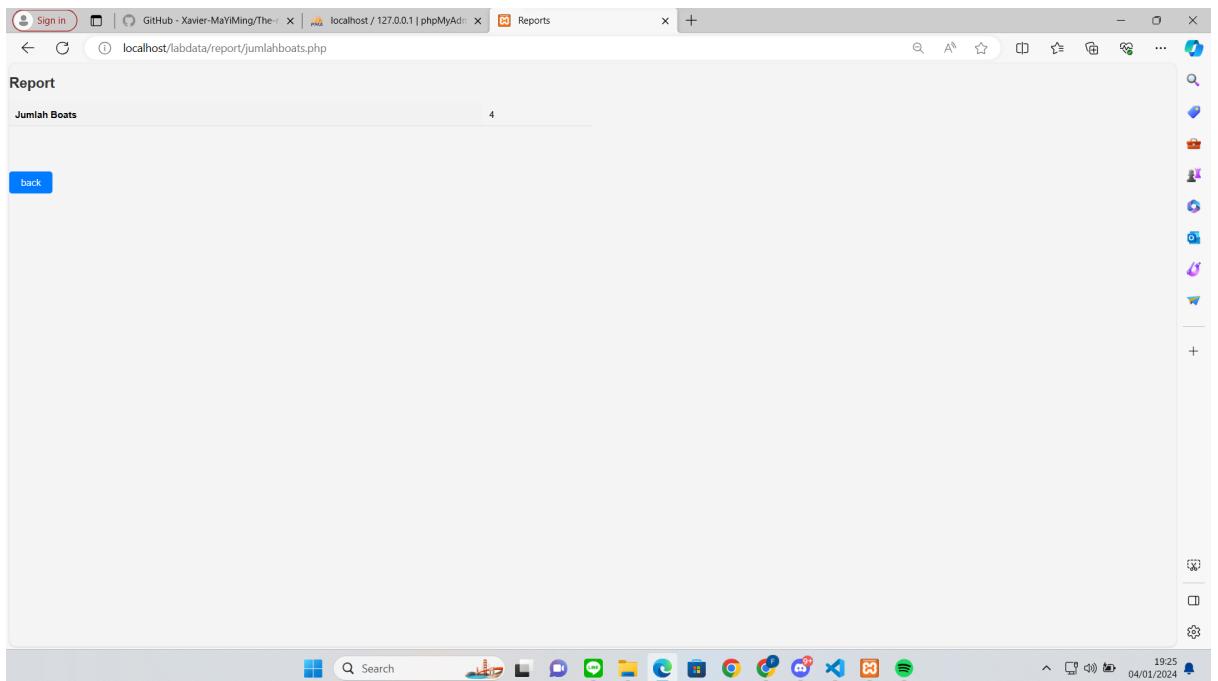
\*sum boats

```

1 <?php
2
3 $host = "localhost";
4 $username = "root";
5 $password = "";
6 $database = "part";
7
8 $conn = new mysqli($host, $username, $password, $database);
9
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14
15 // Jumlah boats
16 $result = $conn->query("SELECT COUNT(*) AS jumlah_boats FROM boats");
17 $row = $result->fetch_assoc();
18 $jumlahBoats = $row['jumlah_boats'];
19
20 ?>
21
22
23 <!DOCTYPE html>
24 <html lang="en">
25 <head>
26     <meta charset="UTF-8">
27     <title>Reports</title>
28     <link rel="stylesheet" href="style.css">
29 </head>
30 <body>
31     <!-- Report Section -->
32     <h2>Report</h2>
33
34     <table>
35         <tr>
36             <th>Jumlah Boats</th>
37             <td><?php echo $jumlahBoats; ?></td>
38         </tr>
39     </table>
40     <br><br>
41     <a href="http://localhost/labdata/homepage/Report.html">back</a>
42     <link rel="stylesheet" href="style.css">
43 </body>
44 </html>
45

```

Contoh kode sum boats

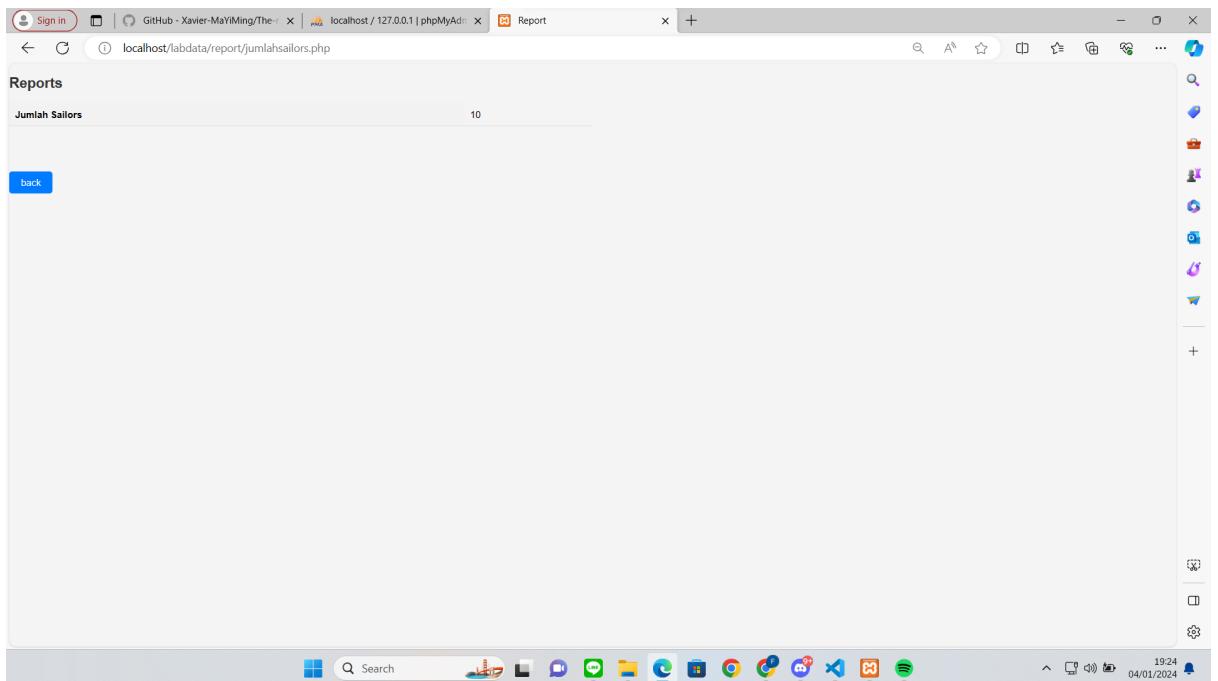


Tampilan di sum diweb

### \*sum sailors

```
1  <?php
2
3  $host = "localhost";
4  $username = "root";
5  $password = "";
6  $database = "part";
7
8  $conn = new mysqli($host, $username, $password, $database);
9
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14
15
16 // Jumlah sailors
17 $result = $conn->query("SELECT COUNT(*) AS jumlah_sailors FROM sailors");
18 $row = $result->fetch_assoc();
19 $jumlahSailors = $row['jumlah_sailors'];
20
21 ?>
22
23 <!DOCTYPE html>
24 <html lang="en">
25 <head>
26     <meta charset="UTF-8">
27     <title>Report</title>
28     <link rel="stylesheet" href="style.css">
29 </head>
30 <body>
31     <!-- Report Section -->
32     <h2>Reports</h2>
33
34     <table>
35         <tr>
36             <th>Jumlah Sailors</th>
37             <td><?php echo $jumlahSailors; ?></td>
38         </tr>
39     </table>
40     <br><br>
41     <a href="http://localhost/labdata/homepage/Report.html">back</a>
42     <link rel="stylesheet" href="style.css">
43 </body>
44 </html>
```

Contoh kode sum sailors



*Tampilan di sum diweb*

Code diatas memiliki struktur hampir sama dan menggunakan COUNT untuk menjumlahkan boats dan sailors yang terdapat dalam database lalu dimunculkan dalam bentuk angka.

Seperti contoh untuk boats :

Jumlah Boats = Boats 1 + Boats 2

Jumlah Boats = 2

Berarti jumlah boats ada 2.

Seperti contoh untuk sailors :

Jumlah Sailors = Fadhlwan + Jimmie + Faiz

Jumlah Sailors = 3

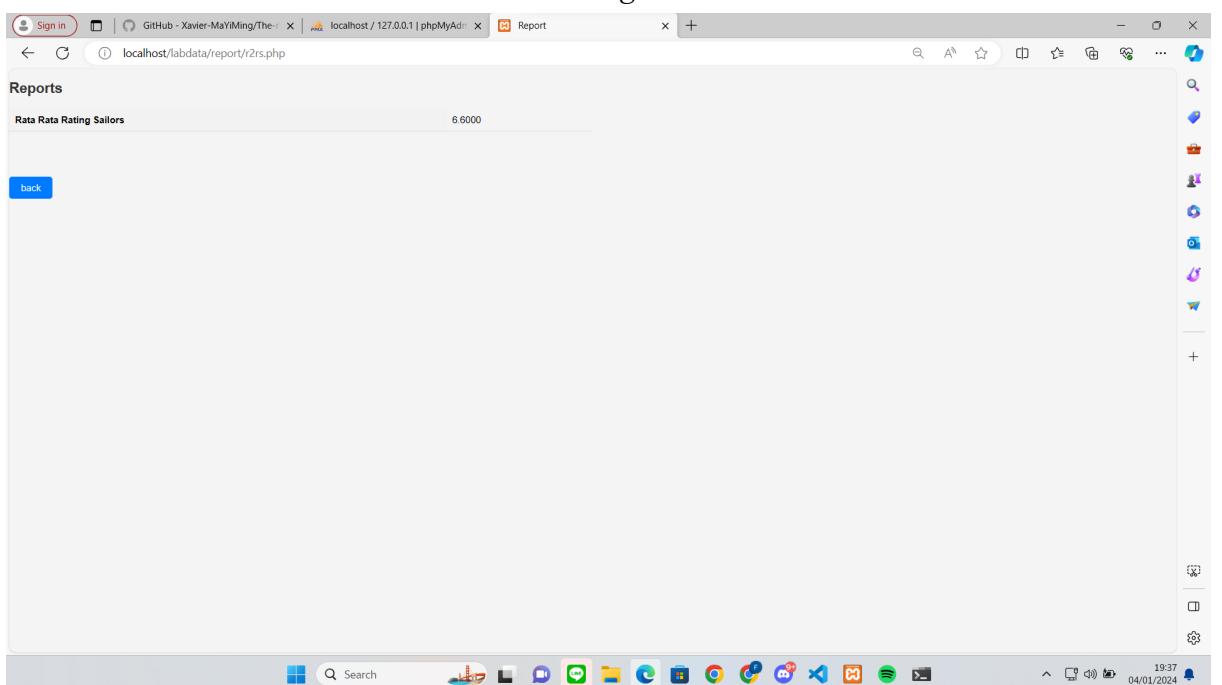
Berarti jumlah sailors ada 3.

- AVERAGE SAILORS AGE, SAILORS RATING

\*avg age

```
1  <?php
2
3  $host = "localhost";
4  $username = "root";
5  $password = "";
6  $database = "part";
7
8  $conn = new mysqli($host, $username, $password, $database);
9
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14
15 // Rata-rata age sailors
16 $result = $conn->query("SELECT AVG(age) AS rata_age_sailors FROM sailors");
17 $row = $result->fetch_assoc();
18 $rataAgeSailors = $row['rata_age_sailors'];
19
20
21 ?>
22
23
24 <!DOCTYPE html>
25 <html lang="en">
26 <head>
27     <meta charset="UTF-8">
28     <title>Report</title>
29     <link rel="stylesheet" href="style.css">
30 </head>
31 <body>
32     <!-- Report Section -->
33     <h2>Reports</h2>
34
35     <table>
36         <tr>
37             <th>Rata Rata Age Sailors</th>
38             <td><?php echo $rataAgeSailors; ?></td>
39         </tr>
40     </table>
41     <br><br>
42     <a href="http://localhost/labdata/homepage/Report.html">back</a>
43     <link rel="stylesheet" href="style.css">
44 </body>
45 </html>
46
```

Contoh kode AVG age sailors



Tampilan di AVG age diweb

Average Age merupakan rata-rata usia dari semua pelaut yang dicatat dalam database.

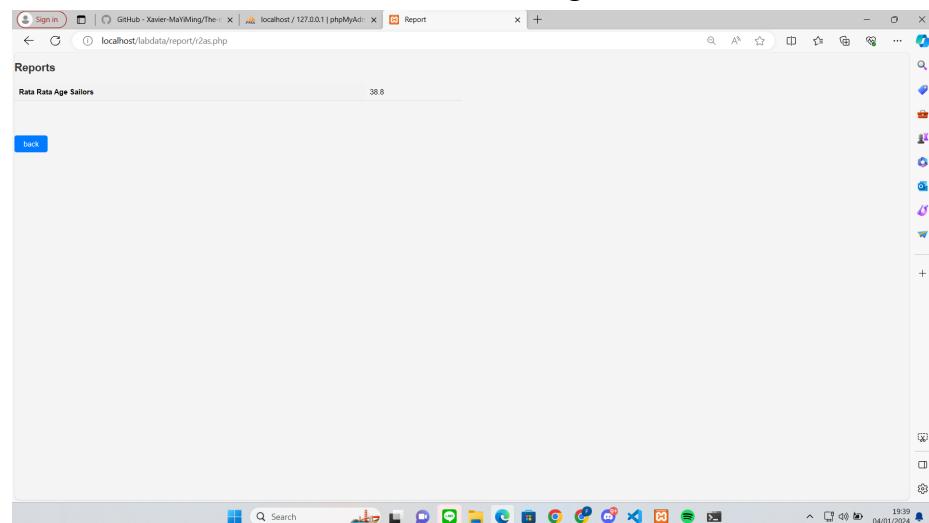
Rumus yang digunakan:  
total usia semua pelaut/jumlah pelaut

\*avg rating



```
1 <?php
2
3 $host = "localhost";
4 $username = "root";
5 $password = "";
6 $database = "part";
7
8 $conn = new mysqli($host, $username, $password, $database);
9
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14
15
16 // Rata-rata rating sailors
17 $result = $conn->query("SELECT AVG(rating) AS rata_rating_sailors FROM sailors");
18 $row = $result->fetch_assoc();
19 $rataRatingSailors = $row['rata_rating_sailors'];
20
21 ?>
22
23 <!DOCTYPE html>
24 <html lang="en">
25 <head>
26     <meta charset="UTF-8">
27     <title>Report</title>
28     <link rel="stylesheet" href="style.css">
29 </head>
30 <body>
31     <!-- Report Section -->
32     <h2>Reports</h2>
33
34     <table>
35         <tr>
36             <th>Rata Rata Rating Sailors</th>
37             <td><?php echo $rataRatingSailors; ?></td>
38         </tr>
39     </table>
40     <br><br>
41     <a href="http://localhost/labdata/homepage/Report.html">back</a>
42     <link rel="stylesheet" href="style.css">
43 </body>
44 </html>
45
```

Contoh kode AVG rating sailors



Tampilan di AVG rating diweb

Rata-rata rating pelaut (sailor) dapat dihitung dengan menjumlahkan semua nilai rating pelaut dan kemudian membaginya dengan jumlah pelaut. Misalnya, jika setiap pelaut memiliki rating, kita menjumlahkan semua rating tersebut dan kemudian membagi hasilnya dengan jumlah pelaut.

Rumusnya adalah:

$$\text{rata-rata rating} = \frac{\text{total rating boats}}{\text{jumlah boats}}$$

Proses ini memberikan gambaran umum tentang seberapa baik atau buruk rata-rata pelaut yang terlibat. Semakin tinggi rata-rata rating, semakin baik performa rata-rata pelautnya. Rata-rata rating adalah metrik statistik yang umum digunakan untuk mengevaluasi kinerja kelompok atau individu dalam berbagai konteks, termasuk dalam hal ini, sailors.