WWW. **W**EBSITE **HTML5** **MYSQL**
DEVELO**PER** **DESIGN**
B MARKUP **L** **N** **P** css3
PLUG-IN **A** **L** **H** BROWSER
INFORMATION **R** **I** **P** 7 WORDPRESS
ORACLE **A** **N** **P**
RESPONSIVE **JAVASCRIPT**
E SOURCE **SOFTWARE**
CODE
L AYOUT

2018

PRAKTIKUM PEMROGRAMAN WEB

MODUL 7

DATABASE

LABORATORIUM FKTI JURUSAN TEKNIK INFORMATIKA
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1.1 RINGKASAN

Database digunakan untuk menyimpan data pada aplikasi. Database terdiri dari satu atau banyak table dan setiap table terdiri dari baris dan kolom. Untuk memanipulasi database, PHP memiliki perintah-perintah yang digunakan untuk mengeksekusi SQL.

1.2 LATIHAN

Latihan pada pada praktikum ini secaumum mencakup koneksi database, menjalankan perintah SQL dan mengambil keluaran dari perintah tersebut.

1) Koneksi database

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

2) Insert data pada table

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com')";

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

mysqli_close($conn);
?>
```

3) Mendapatkan ID dari data yang dimasukan

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";
5.  $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = mysqli_connect($servername, $username, $password, $dbname);
9.  // Check connection
10. if (!$conn) {
11. die("Connection failed: " . mysqli_connect_error());    12. }
13.
14. $sql = "INSERT INTO MyGuests (firstname, lastname, email)
15. VALUES ('John', 'Doe', 'john@example.com')";
16.
17.     if (mysqli_query($conn, $sql)) {
18.     $last_id = mysqli_insert_id($conn);
19.     echo "New record created successfully. Last inserted ID
        is: " . $last_id;
20.     } else {
21.     echo "Error: " . $sql . "<br>" . mysqli_error($conn);
22.     }
23.     mysqli_close($conn);
24.     ?>
```

4) Eksekusi multiple Kueri

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";    5. $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = mysqli_connect($servername, $username, $password, $dbname);
9.  // Check connection
10. if (!$conn) {
11. die("Connection failed: " . mysqli_connect_error());    12. }
13.
14. $sql = "INSERT INTO MyGuests (firstname, lastname, email)
15. VALUES ('John', 'Doe', 'john@example.com');";
16. $sql .= "INSERT INTO MyGuests (firstname, lastname, email)
    17. VALUES ('Mary', 'Moe', 'mary@example.com');";
18. $sql .= "INSERT INTO MyGuests (firstname, lastname, email)
19. VALUES ('Julie', 'Dooley', 'julie@example.com')";
20.
21.     if (mysqli_multi_query($conn, $sql)) {
22.     echo "New records created successfully";
23.     } else {
24.     echo "Error: " . $sql . "<br>" . mysqli_error($conn);
25.     }
26.     mysqli_close($conn);
27.     ?>
```

5) Select Data

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";
5.  $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = mysqli_connect($servername, $username, $password, $dbname);
9.  // Check connection
10. if (!$conn) {
11.     die("Connection failed: " . mysqli_connect_error());
12. }
13.
14. $sql = "SELECT id, firstname, lastname FROM MyGuests";
15. $result = mysqli_query($conn, $sql);
16.
17. if (mysqli_num_rows($result) > 0) {
18.     // output data of each row
19.     while($row = mysqli_fetch_assoc($result)) {
20.         echo "id: " . $row["id"]. " -
    Name: " . $row["firstname"]. " " . $row["lastname"]. "<br>";
21.     }
22. } else {
23.     echo "0 results";
24. }
25.
26. mysqli_close($conn);
27. ?>
```

6) Hapus Data

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";   5. $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = mysqli_connect($servername, $username, $password, $dbname);   9.
    // Check connection
10. if (!$conn) {
11.     die("Connection failed: " . mysqli_connect_error());
12. }
13.
14. // sql to delete a record
15. $sql = "DELETE FROM MyGuests WHERE id=3";
16.
17. if (mysqli_query($conn, $sql)) {
18.     echo "Record deleted successfully";
19. } else {
20.     echo "Error deleting record: " . mysqli_error($conn);
21. }
22.
23. mysqli_close($conn);
24. ?>
25. <?php
26. $servername = "localhost";
27. $username = "root";
28. $password = "";
```

```php
29. $dbname = "myDB";
30.
31. // Create connection
32. $conn = mysqli_connect($servername, $username, $password, $dbname);
33. // Check connection
34. if (!$conn) {
35.     die("Connection failed: " . mysqli_connect_error());
36. }
37.
38. // sql to delete a record
39. $sql = "DELETE FROM MyGuests WHERE id=3";
40.
41. if (mysqli_query($conn, $sql)) {
42.     echo "Record deleted successfully";
43. } else {
44.     echo "Error deleting record: " . mysqli_error($conn);
45. }
46.
47. mysqli_close($conn);
48. ?>
```

7)   Ubah Data

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";
5.  $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = mysqli connect($servername, $username, $password, $dbname);
9.  // Check connection
10. if (!$conn) {
11.     die("Connection failed: " . mysqli connect error());
12. }
13.
14. $sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";
15.
16. if (mysqli_query($conn, $sql)) {
17.     echo "Record updated successfully";
18. } else {
19. echo "Error updating record: " . mysqli_error($conn);    20. }
21.
22. mysqli_close($conn);
23. ?>
```

8)   Prepared Statement dan Bound Parameter

```php
1.  <?php
2.  $servername = "localhost";
3.  $username = "root";
4.  $password = "";
5.  $dbname = "myDB";
6.
7.  // Create connection
8.  $conn = new mysqli($servername, $username, $password, $dbname);
9.
10. // Check connection
11. if ($conn->connect error) {
12.     die("Connection failed: " . $conn->connect_error);
13. }
14.
```

```php
15. // prepare and bind
16. $stmt = $conn-
    >prepare("INSERT INTO MyGuests (firstname, lastname, email) VALUES (?, ?, ?)");
17. $stmt->bind_param("sss", $firstname, $lastname, $email);
18.
19. // set parameters and execute
20. $firstname = "John";
21. $lastname = "Doe";
22. $email = "john@example.com";
23. $stmt->execute();
24.
25. $firstname = "Mary";
26. $lastname = "Moe";
27. $email = "mary@example.com";
28. $stmt->execute();
29.
30. $firstname = "Julie";
31. $lastname = "Dooley";
32. $email = "julie@example.com";
33. $stmt->execute();
34.
35. echo "New records created successfully";
36.
37. $stmt->close();
38. $conn->close();
39. ?>
```

Buatlah sebuah web pendataan sederhana yang mempunyai crud yaitu bisa di tambah, di ubah , dan di hapus.