



INSTIKI
INSTITUT BISNIS DAN TEKNOLOGI INDONESIA

**Kampus
Merdeka**
INDONESIA JAYA

Web Programming

Materi Pertemuan 6

Koneksi Database MySQL

Create Database, Create table

Create, Read, Update, Delete (CRUD) Data

Database Mysql

Pengolahan database dalam PHP:

- 1. Data Defination**
- 2. Data Manipulation**

Fungsi PHP dalam pengelolaan database mysql dengan 2 metode:

- 1. Metode procedural**
- 2. Metode object oriented**

Selain itu juga bisa dilakukan dengan metode PDO

Koneksi Database Mysql

Membuka koneksi ke database MySQL:

1. Metode prosedural
2. Metode object oriented

press - mysql_connect01.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode prosedural
10     $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11     if (!$cnn) {
12         die("Connection failed: " . mysqli_connect_error());
13     }
14     echo "Connected successfully";
```



press - mysql_connect02.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     echo "Connected successfully";
```

Create Database

press - mysql_DDL_create_database01.php

```
1  <?php
2      //konfigurasi
3      define("DBUSER","root");
4      define("DBPWD","");
5      define("DBSERVER","localhost");
6
7      //koneksi ke database metode prosedural
8      $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD);
9
10     //membuat database dengan nama datamhs
11     $sql = "CREATE DATABASE datamhs;";
12
13     if (mysqli_query($cnn, $sql)) {
14         echo "Database created successfully";
15     } else {
16         echo "Error creating database: " . mysqli_error($cnn);
17     }
18     mysqli_close($cnn);
```

Create Database



press - mysql_DDL_create_database.php

```
1  <?php
2      //konfigurasi
3      define("DBUSER","root");
4      define("DBPWD","");
5      define("DBSERVER","localhost");
6
7      //koneksi ke database metode object oriented
8      $cnn = new mysqli(DBSERVER,DBUSER,DBPWD);
9
10     if ($cnn->connect_error) {
11         die("Connection failed: " . $cnn->connect_error);
12     }
13     //membuat database dengan nama datamhs
14     $sql = "CREATE DATABASE datamhs;";
15     if ($cnn->query($sql) === TRUE) {
16         echo "Database created successfully";
17     } else {
18         echo "Error creating database: " . $cnn->error;
19     }
20
21     $cnn->close();
```


Create Table



press - mysql_DDL_create_table01.php

```
1 <?php
2 //konfigurasi
3 define("DBNAME","datamhs");
4 define("DBUSER","root");
5 define("DBPWD","");
6 define("DBSERVER","localhost");
7 define("DBPORT","3306");
8
9 //koneksi ke database metode prosedural
10 $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12 //membuat database dengan nama mydata
13 $table = "mhs1";
14 $sql = "CREATE TABLE $table(
15     NIM varchar(8) PRIMARY KEY,
16     NAMA varchar(30) NOT NULL,
17     ALAMAT varchar(50) NOT NULL,
18     KOTA varchar(50),
19     JK varchar(1),
20     tgl_lahir date
21 );";
22
23 if (mysqli_query($cnn, $sql)) {
24     echo "Table $table created successfully";
25 } else {
26     echo "Error Created Table $table: " . mysqli_error($cnn);
27 }
28
29 mysqli_close($cnn);
```

Create Table

```
press - mysql_DDL_create_table.php

1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     //membuat database dengan nama mydata
16     $table = "mhs";
17     $sql = "CREATE TABLE $table(
18         NIM varchar(8) PRIMARY KEY,
19         NAMA varchar(30) NOT NULL,
20         ALAMAT varchar(50) NOT NULL,
21         KOTA varchar(50),
22         JK varchar(1),
23         tgl_lahir date
24     );";
25
26     if ($cnn->query($sql) === TRUE) {
27         echo "Table $table created successfully";
28     } else {
29         echo "Error Created Table $table: " . $cnn->error;
30     }
31
32     $cnn->close();
```

CURD Database Mysql

PHP database MySQL Manipulation Data (CURD):

Create **U**pdate **R**ead **D**elelete

Create Data

press - mysql_DML_Create01.php

```
1 <?php
2     //konfigurasi
3     define("DBNAME","datamhs");
4     define("DBUSER","root");
5     define("DBPWD","");
6     define("DBSERVER","localhost");
7     define("DBPORT","3306");
8
9     //koneksi ke database metode prosedural
10    $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12    $sql = "INSERT INTO mhs(NIM,NAMA,ALAMAT,KOTA,JK) VALUES('12345678','Budiman','Jl. Kemuning','Denpasar','L')";
13    if (mysqli_query($cnn, $sql)) {
14        echo "New record created successfully";
15    } else {
16        echo "Error: " . $sql . "<br>" . mysqli_error($cnn);
17    }
18    mysqli_close($cnn);
```

press - mysql_DML_Create02.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     //Create Data INSERT INTO
16     $sql = "INSERT INTO mhs(NIM,NAMA,ALAMAT,KOTA,JK) VALUES('12345678','Budiman','Jl. Kemuning','Denpasar','L');";
17
18     $hsl = $cnn->query($sql);
19     if($hsl){
20         echo "New record created successfully";
21     } else {
22         echo "Error: " . $sql . "<br>" . $cnn->error;
23     }
24
25     $cnn->close();
```

Update Data

press - mysql_DML_Update01.php

```
1 <?php
2 //konfigurasi
3 define("DBNAME","datamhs");
4 define("DBUSER","root");
5 define("DBPWD","");
6 define("DBSERVER","localhost");
7 define("DBPORT","3306");
8
9 //koneksi ke database metode prosedural
10 $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12 //Update Data
13 $sql = "UPDATE mhs SET NAMA='Buemareko' WHERE NIM='12345678'";
14 if (mysqli_query($cnn, $sql)) {
15     echo "Record Updated successfully";
16 } else {
17     echo "Error: " . $sql . "<br>" . mysqli_error($cnn);
18 }
19 mysqli_close($cnn);
```

press - mysql_DML_Update02.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     //Update Data
16     $sql = "UPDATE mhs SET NAMA='Supardiyasa' WHERE NIM='12345679'";
17
18     $hsl = $cnn->query($sql);
19     if($hsl){
20         echo "Record Updated successfully";
21     } else {
22         echo "Error: " . $sql . "<br>" . $cnn->error;
23     }
24
25     $cnn->close();
```

Read Data

press - mysql_DML_Read01.php

```
1 <?php
2     //konfigurasi
3     define("DBNAME","datamhs");
4     define("DBUSER","root");
5     define("DBPWD","");
6     define("DBSERVER","localhost");
7     define("DBPORT","3306");
8
9     //koneksi ke database metode prosedural
10    $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12    //Read Data
13    $sql = "SELECT NIM, NAMA FROM mhs;";
14    $result = mysqli_query($cnn, $sql);
15
16    if (mysqli_num_rows($result) > 0) {
17        while($row = mysqli_fetch_assoc($result)) {
18            echo "NIM: " . $row["NIM"]. " - Nama: " . $row["NAMA"]. "<br>";
19        }
20    }else{
21        echo "0 results";
22    }
23    mysqli_close($cnn);
```


press - mysql_DML_Read02.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME", "datamhs");
4      define("DBUSER", "root");
5      define("DBPWD", "");
6      define("DBSERVER", "localhost");
7      define("DBPORT", "3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER, DBUSER, DBPWD, DBNAME, DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     //Read Data
16     $sql = "SELECT NIM, NAMA FROM mhs;";
17
18     $result = $cnn->query($sql);
19
20     if ($result->num_rows > 0) {
21         while($row = $result->fetch_assoc()) {
22             echo "NIM: " . $row["NIM"]. " - Nama: " . $row["NAMA"]. "<br>";
23         }
24     } else {
25         echo "0 results";
26     }
27
28     $cnn->close();
```

Delete Data

press - mysql_DML_Delete01.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME","datamhs");
4      define("DBUSER","root");
5      define("DBPWD","");
6      define("DBSERVER","localhost");
7      define("DBPORT","3306");
8
9      //koneksi ke database metode prosedural
10     $cnn = mysqli_connect(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     //Delete Data
13     $sql = "DELETE FROM mhs WHERE NIM='12345678'";
14
15     if (mysqli_query($cnn, $sql)) {
16         echo "Record deleted successfully";
17     } else {
18         echo "Error deleting record: " . mysqli_error($cnn);
19     }
20
21     mysqli_close($cnn);
```



press - mysql_DML_Delete02.php

```
1  <?php
2      //konfigurasi
3      define("DBNAME", "datamhs");
4      define("DBUSER", "root");
5      define("DBPWD", "");
6      define("DBSERVER", "localhost");
7      define("DBPORT", "3306");
8
9      //koneksi ke database metode object oriented
10     $cnn = new mysqli(DBSERVER,DBUSER,DBPWD,DBNAME,DBPORT);
11
12     if ($cnn->connect_error) {
13         die("Connection failed: " . $cnn->connect_error);
14     }
15     //Delete Data
16     $sql = "DELETE FROM mhs WHERE NIM='12345678'";
17
18     if ($cnn->query($sql) === TRUE) {
19         echo "Record deleted successfully";
20     } else {
21         echo "Error deleting record: " . $cnn->error;
22     }
23
24     $cnn->close();
```