

Cara Cepat :

Belajar Pemrograman Web

Part 2

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Pengenalan Database

- Simpan / Cari / Update / Hapus Data

- Sangat cepat :

Dual core + single disk = 300 query / detik

- Bahasa Database : SQL
(Structured Query Language)

- Contoh :

```
INSERT INTO dataKawan (nama,telpon) VALUES ("harry","555")  
SELECT * FROM dataKawan WHERE nama="harry"  
DELETE FROM dataKawan WHERE nama="harry"
```

Database = Kumpulan Tabel

Tabel DataKawan

Nomor	Nama	Telpon	Alamat	Sekolah
1	harry	555-5555	Jl. Disana no:23	Kampus 1
2	helen	222-2222	Jl. Disitu no: 34	Kampus 2
3	dani	333-3333	Jl. Peritu no:10	Kampus 1
4	susan	444-4444	Jl. Paris no:3	Kampus 3

Action

1. Konek ke Database,
Input Data,
Cari Data

2. Dari Form, Simpan ke Database

3. Dari Form, Cari ke Database

Interupsi / Pertanyaan : Anytime !

Start : Buka Editor

- (1) Tekan Alt – F2
- (2) Ketik : gksudo gedit
- (3) Klik tombol RUN
- (4) Pilih menu : File – Save
- (5) Ketik : /var/www/test-db1.php
- (6) Klik tombol SAVE

Siap Action !

Action 1 : Hello Database

(1) Ketik :

```
<?php
```

```
$c = mysql_connect ("localhost", "root", "");  
mysql_select_db ("sensus", $c);
```

```
$sql = "INSERT INTO data (nama) VALUES ('harry)";  
$result = mysql_query($sql, $c);
```

```
$sql = "SELECT * FROM data WHERE nama='harry)";  
$result = mysql_query($sql, $c);  
$row = mysql_fetch_assoc ($result);  
echo "Hello ".$row["nama];
```

```
?>
```

Action 1 : Lihat hasilnya

(2) Tekan Ctrl – S

(3) Buka browser :

Pilih menu Application – Internet – Firefox

Tekan Ctrl – L

Ketik : **`http://localhost/test-db1.php`**

(4) Hello Harry !

Action 1 :

Apa yang telah kita lakukan ?

(1) Koneksi ke database :

```
$c = mysql_connect ("localhost", "root", "123");  
mysql_select_db ("sensus", $c);
```

(2) Simpan ke database :

```
$sql = "INSERT INTO data (nama) VALUES ("harry");  
$result = mysql_query($sql, $c);
```

Action 1 :

Apa yang telah kita lakukan ?

(3) Cari dari database :

```
$sql = "SELECT * FROM data WHERE nama="harry";  
$result = mysql_query($sql, $c);
```

```
$row = mysql_fetch_assoc ($result);
```

```
echo "Hello ".$row["nama"];
```

Action 1 : Eksperimen

- (1) Input field “alamat”
- (2) Input field “telpon”
- (3) Tampilkan field “alamat”
- (4) Tampilkan field “telpon”

Action 2 : Form ke Database

Buat file baru

(1) Pilih menu File – Save As

(2) Ketik : `/var/www/sensus1.php`

(3) Klik tombol SAVE

```
<?php
```

```
if ($_GET["inputdata"] !== "Submit Query") {
```

```
    echo "<h1>Input Data Penduduk</h1><p>";
```

```
    echo "<form action=sensus1.php method=get name=formData>";
```

```
    echo "Nama : <input type=text name=nama>";
```

```
    echo "Alamat : <input type=text name=alamat>";
```

```
    echo "<input type=submit name=inputdata>";
```

```
    echo "</form>";
```

```
} else {
```

```
    $c = mysql_connect ("localhost", "root", "");
```

```
    mysql_select_db ("sensus", $c);
```

```
    $sql = "INSERT INTO data (nama,alamat)";
```

```
    $sql .= "VALUES (' ".$_GET["nama"]." ', ' ";
```

```
    $sql .= $_GET["alamat"]." ' )";
```

```
    $result = mysql_query($sql, $c);
```

```
    echo "Sukses input ke database !";
```

```
}
```

```
?>
```

Action 2 :

Apa yang telah kita lakukan ?

Form input data :

```
if ($_GET["inputdata"] !== "Submit Query") {  
  
    echo "<h1>Input Data Penduduk</h1><p>";  
    echo "<form action=sensus1.php method=get name=formData>";  
    echo "Nama : <input type=text name=nama>";  
    echo "Alamat : <input type=text name=alamat>";  
    echo "<input type=submit name=inputdata>";  
    echo "</form>";  
}
```

Action 2 :

Apa yang telah kita lakukan ?

Proses simpan ke Database :

```
else {  
    $c = mysql_connect ("localhost", "root", "");  
    mysql_select_db ("sensus", $c);  
  
    $sql = "INSERT INTO data (nama,alamat)";  
    $sql .= "VALUES ('".$_GET["nama"]."',";  
    $sql .= $_GET["alamat"]."')";  
    $result = mysql_query($sql, $c);  
    echo "Sukses input ke database !";  
}
```

Action 2 : Eksperimen

- (1) Coba tambahkan kolom input “Telpon”
- (2) Coba simpan ke field “telpon”
- (3) Tampilkan form dengan rapi

Action 3 :

Form Cari ke Database

Buat file baru

(1) Pilih menu File – Save As

(2) Ketik : `/var/www/sensus2.php`

(3) Klik tombol SAVE

```
<?php
```

```
if ($_GET["inputdata"] !== "Submit Query") {
```

```
    echo "<h1>Cari Data Penduduk</h1><p>";
```

```
    echo "<form action=sensus2.php method=get name=formData>";
```

```
    echo "Nama : <input type=text name=nama>";
```

```
    echo "<input type=submit name=inputdata>";
```

```
    echo "</form>";
```

```
} else {
```

```
    $c = mysql_connect ("localhost", "root", "");
```

```
    mysql_select_db ("sensus", $c);
```

```
    $sql = "SELECT * FROM data ";
```

```
    $sql .= "WHERE nama='". $_GET["nama"]. "'";
```

```
    $result = mysql_query($sql, $c);
```

```
    $row = mysql_fetch_assoc ($result);
```

```
    echo "Nama : ".$row["nama"]; 
```

```
    echo "<p>Alamat : ".$row["alamat"]; 
```

```
}
```

```
?>
```

Action 3 :

Apa yang telah kita lakukan ?

Form, input data yang ingin di Cari :

```
<?php
if ($_GET["inputdata"] !== "Submit Query") {

    echo "<h1>Cari Data Penduduk</h1><p>";
    echo "<form action=sensus2.php method=get name=formData>";
    echo "Nama : <input type=text name=nama>";
    echo "<input type=submit name=inputdata>";
    echo "</form>";
}
```

Konek ke Database :

```
else {  
    $c = mysql_connect ("localhost", "root", "");  
    mysql_select_db ("sensus", $c);
```

Cari di Database :

```
$sql = "SELECT * FROM data ";  
$sql .= "WHERE nama='". $_GET["nama"]."'";  
$result = mysql_query($sql, $c);  
$row = mysql_fetch_assoc ($result);
```

Tampilkan :

```
echo "Nama : ".$row["nama"];  
echo "<p>Alamat : ".$row["alamat"];
```

```
}  
?>
```

Action 3 : Eksperimen

(1) Munculkan juga field “telpon” di hasil pencarian

(2) Search berdasarkan nomor telpon !
Tampilkan nama dan alamatnya

Program Data Kependudukan Berbasis Web

(1) sensus1.php dan sensus2.php

(2) **Powerful :**

mampu menyimpan ratusan juta record / data penduduk

(3) **Cepat :**

Mencari data dari jutaan data dalam waktu < 1 detik

Agenda Besok

**(1) Membuat Komputer Linux di
USB / Flashdisk**

(2) Virtualisasi / Virtual Machine

Terimakasih

Have Fun !