

## PHP MYSQL

(koneksi, tampil data, tambah data, ubah data, hapus data)

### 1. Buat database dan tabel

Buatlah database dan tabel dari PHPMysqladmin (localhost/phpmyadmin) dengan struktur database sebagai berikut:

- Nama Database : db\_akademik
- Nama Tabel : mahasiswa
- Struktur tabel :
  - nim Char(10)
  - nama Varchar(30)
  - alamat Varchar(30)
  - jurusan Varchar(30)
- Isi data mahasiswa sebanyak 2 baris data

### 2. Koneksi

- Buat file baru ketikkan kode berikut simpan dengan nama koneksi.php

```
1  <?php
2  $host = "localhost";
3  $user = "root";
4  $pass = "";
5  $db = "db_akademik"; //Nama Database
6  // melakukan koneksi ke db
7  $koneksi = mysqli_connect($host, $user, $pass, $db);
8  if(!$koneksi){
9      echo "Gagal konek: " . die(mysqli_error($koneksi));
10 }
```

- Buka file **index.php** pada folder **admin**

- Tambahkan kode berikut dibawah teks “**TAMBAH DATA MAHASISWA** </a>”

```
<table class="table table-striped table-bordered">
  <thead>
    <tr>
      <th scope="col">NO</th>
      <th scope="col">NIM</th>
      <th scope="col">NAMA MAHASISWA</th>
      <th scope="col">ALAMAT</th>
      <th scope="col">JURUSAN</th>
      <th colspan="3" scope="col">AKSI</th>
    </tr>
  </thead>
  <?php
    include 'koneksi.php';

    $query = mysqli_query($koneksi, "SELECT * FROM mahasiswa");
    $no = 1;
    while ($data = mysqli_fetch_assoc($query)) {
  >
    <tr>
      <td><?php echo $no++;?></td>
      <td><?php echo $data['nim'];?></td>
      <td><?php echo $data['nama'];?></td>
      <td><?php echo $data['alamat'];?></td>
      <td><?php echo $data['jurusan'];?></td>
      <td>
        <i class="fas fa-edit bg-success p-2 text-white rounded"></i>
        <a href="ubah_mhs.php?nim=<?php echo $data['nim'];?>">Edit</a>|
        <i class="fas fa-trash-alt bg-danger p-2 text-white rounded"></i>
        <a href="hapus_mhs.php?nim=<?php echo $data['nim'];?>">Delete</a>
      </td>
    </tr>
    <!-- Update Modal -->

    <!-- modal delete -->

    <?php
    }
  >
</table>
```

- Jalankan di web browser tuliskan hasilnya dibawah ini

Politeknik XYZ
Home
Dashboard
Search
Search

Dashboard
Daftar Mahasiswa
Daftar Pegawai
Jadwal Kuliah

### Data Mahasiswa

Tambah Data Mahasiswa

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401055	Naomi Siahaan	Batam	Teknik Informatika	Edit Delete

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401055	Naomi Siahaan	Batam	Teknik Informatika	Edit Hapus

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### 3. Tambah Data

- Buka file baru ketikkan (**copy**) kode berikut simpan dengan nama **tambah\_mhs.php**

```
<!doctype html>
<html lang="en">
<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="css/bootstrap.min.css" >
  <link rel="stylesheet" type="text/css" href="admin.css">
  <link rel="stylesheet" type="text/css" href="fontawesome/css/all.min.css">
  <title>ADMINISTRATOR</title>
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-light bg-warning fixed-top">
    <a class="navbar-brand" href="#">SELAMAT DATANG ADMIN</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <form class="form-inline my-2 my-lg-0 ml-auto">
        <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
      </form>
      <div class="icon ml-4">
        <h5>
          <i class="fas fa-envelope-square mr-3"></i>
          <i class="fas fa-bell-slash mr-3"></i>
          <i class="fas fa-sign-out-alt mr-3"></i>
        </h5>
      </div>
    </div>
  </nav>
  <div class="row no-gutters mt-5">
    <div class="col-md-2 bg-dark mt-2 pr-3 pt-4">
      <ul class="nav flex-column ml-3 mb-5">
        <li class="nav-item">
          <a class="nav-link active text-white" href=""><i class="fas fa-tachometer-alt mr-
2"></i>Dashboard</a><hr class="bg-secondary">
        </li>
        <li class="nav-item">
          <a class="nav-link text-white" href=""><i class="fas fa-user-graduate mr-2"></i>Daftar
Mahasiswa</a><hr class="bg-secondary">

```

```

</li>
  <li class="nav-item">
    <a class="nav-link text-white" href="" ><i class="fas fa-users mr-2"></i>Daftar Pegawai</a><hr
class="bg-secondary">
  </li>
  <li class="nav-item">
    <a class="nav-link text-white" href="" ><i class="far fa-calendar-alt mr-2"></i>Jadwal Kuliah</a><hr
class="bg-secondary">
  </li>
</ul>
</div>

<div class="col-md-10 p-5 pt-2">
  <h3><i class="fas fa-user-graduate mr-2"></i> Input Data Baru</h3><hr>
  <form action="simpan_mhs.php" method="post">
    <div class="form-row">
      <div class="form-group col-md-4">
        <label >NIM</label>
        <input type="text" name="nim" class="form-control" id="nim">
      </div>
    </div>
    <div class="form-row">
      <div class="form-group col-md-6">
        <label >NAMA</label>
        <input type="text" name="nama" class="form-control" id="nama">
      </div>
    </div>
    <div class="form-row">
      <div class="form-group col-md-6">
        <label >ALAMAT</label>
        <input type="text" name="alamat" class="form-control" id="alamat">
      </div>
    </div>
    <div class="form-row">
      <div class="form-group col-md-6">
        <label >JURUSAN</label>
        <input type="text" name="jurusan" class="form-control" id="jurusan">
      </div>
    </div>
    <button type="submit" class="btn btn-primary">SIMPAN</button>
  </form>
</div>
</div>
</body>
</html>

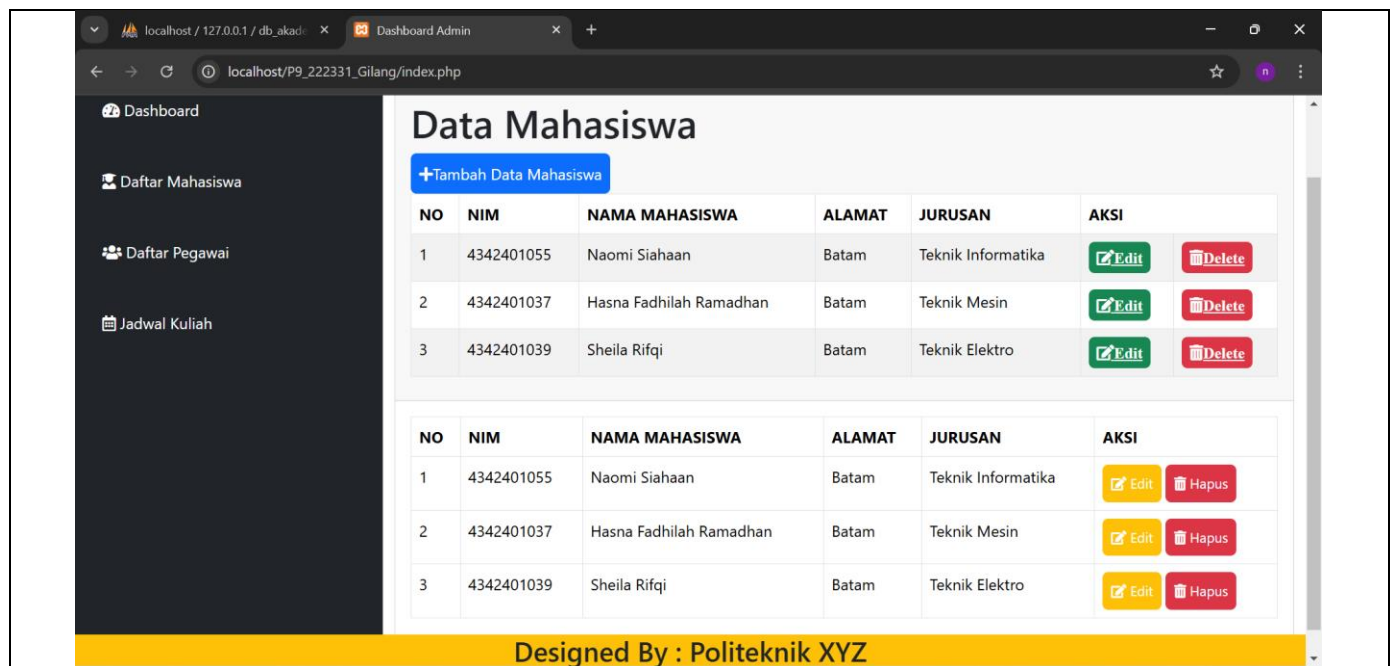
```

4. Buat file baru ketikkan kode berikut simpan dengan nama **simpan\_mhs.php**

```
<?php
include 'koneksi.php';
$nim = $_POST['nim'];
$nama = $_POST['nama'];
$alamat= $_POST['alamat'];
$jurusan = $_POST['jurusan'];
$input = mysqli_query($koneksi,"INSERT INTO mahasiswa
VALUES('$nim','$nama','$alamat','$jurusan')") or die(mysqli_error());
if($input){
    echo "Data Berhasil Disimpan";
    header("location:index.php");
}else{
    echo "Gagal Disimpan";
}
?>
```



5. Jalankan di web browser “Klik tombol kemudian isi **data mahasiswa dan simpan**.
6. Tuliskan hasilnya dibawah ini:



Dashboard Admin

localhost/P9\_222331\_Gilang/index.php

### Data Mahasiswa

[+Tambah Data Mahasiswa](#)

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401055	Naomi Siahaan	Batam	Teknik Informatika	<a href="#">Edit</a> <a href="#">Delete</a>
2	4342401037	Hasna Fadhilah Ramadhan	Batam	Teknik Mesin	<a href="#">Edit</a> <a href="#">Delete</a>
3	4342401039	Sheila Rifqi	Batam	Teknik Elektro	<a href="#">Edit</a> <a href="#">Delete</a>

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401055	Naomi Siahaan	Batam	Teknik Informatika	<a href="#">Edit</a> <a href="#">Hapus</a>
2	4342401037	Hasna Fadhilah Ramadhan	Batam	Teknik Mesin	<a href="#">Edit</a> <a href="#">Hapus</a>
3	4342401039	Sheila Rifqi	Batam	Teknik Elektro	<a href="#">Edit</a> <a href="#">Hapus</a>

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## 7. Ubah Data

- Buat file baru ketikkan kode berikut simpan dengan nama file **ubah\_mhs.php**

```
<?php
include 'koneksi.php';
$nim = $_GET['nim'];
$result = mysqli_query($koneksi, "SELECT * FROM mahasiswa WHERE nim='$nim'");
while($user_data = mysqli_fetch_array($result))
{
    $nama = $user_data['nama'];
    $alamat = $user_data['alamat'];
    $jurusan = $user_data['jurusan'];
}

?>
<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="css/bootstrap.min.css" >
<link rel="stylesheet" type="text/css" href="admin.css">
<link rel="stylesheet" type="text/css" href="fontawesome/css/all.min.css">
<title>ADMINISTRATOR</title>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-warning fixed-top">
    <a class="navbar-brand" href="#">SELAMAT DATANG ADMIN</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <form class="form-inline my-2 my-lg-0 ml-auto">
            <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">
            <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
        </form>
        <div class="icon ml-4">
            <h5>
                <i class="fas fa-envelope-square mr-3"></i>
                <i class="fas fa-bell-slash mr-3"></i>
                <i class="fas fa-sign-out-alt mr-3"></i>
            </h5>
        </div>
    </div>
</div>
```

```

</nav>
<div class="row no-gutters mt-5">
  <div class="col-md-2 bg-dark mt-2 pr-3 pt-4">
    <ul class="nav flex-column ml-3 mb-5">
      <li class="nav-item">
        <a class="nav-link active text-white" href=""><i class="fas fa-tachometer-alt mr-2"></i>Dashboard</a><hr class="bg-secondary">
      </li>
      <li class="nav-item">
        <a class="nav-link text-white" href=""><i class="fas fa-user-graduate mr-2"></i>Daftar Mahasiswa</a><hr class="bg-secondary">
      </li>
      <li class="nav-item">
        <a class="nav-link text-white" href=""><i class="fas fa-chalkboard-teacher mr-2"></i>Daftar Dosen</a><hr class="bg-secondary">
      </li>
      <li class="nav-item">
        <a class="nav-link text-white" href=""><i class="fas fa-users mr-2"></i>Daftar Pegawai</a><hr class="bg-secondary">
      </li>
      <li class="nav-item">
        <a class="nav-link text-white" href=""><i class="far fa-calendar-alt mr-2"></i>Jadwal Kuliah</a><hr class="bg-secondary">
      </li>
    </ul>
  </div>
  <div class="col-md-10 p-5 pt-2">
    <h3><i class="fas fa-user-graduate mr-2"></i> Ubah Data Mahasiswa</h3><hr>
    <form action="update_mhs.php" method="post">
      <div class="form-row">
        <div class="form-group col-md-4">
          <label>NIM</label>
          <input type="text" name="nim" class="form-control" id="nim" value="{?php echo $nim;?}>
        </div>
      </div>
      <div class="form-row">
        <div class="form-group col-md-8">
          <label>NAMA</label>
          <input type="text" name="nama" class="form-control" id="nama" value="{?php echo $nama;?}>
        </div>
      </div>
      <div class="form-row">
        <div class="form-group col-md-6">
          <label>ALAMAT</label>
          <input type="text" name="alamat" class="form-control" id="alamat" value="{?php echo $alamat;?}>
        </div>
      </div>
    </form>
  </div>

```

```

<div class="form-row">
  <div class="form-group col-md-6">
    <label >JURUSAN</label>
    <input type="text" name="jurusan" class="form-control" id="jurusan" value=<?php echo
$jurusan;?>>
  </div>
</div>
<button type="submit" class="btn btn-primary">SIMPAN</button>
</form>
</div>
</div>
</body>
</html>

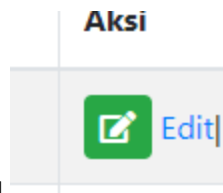
```


- Buat file baru ketikkan kode berikut simpan dengan nama file **update\_mhs.php**

```

<?php
// include database connection file
include 'koneksi.php';
$nim=$_POST['nim'];
$nama=$_POST['nama'];
$alamat=$_POST['alamat'];
$jurusan=$_POST['jurusan'];
$result = mysqli_query($koneksi, "UPDATE mahasiswa SET
nama='$nama',alamat='$alamat',jurusan='$jurusan' WHERE nim='$nim'");
// Redirect to homepage to display updated user in list
header("Location: index.php");
?>

```



- Jalankan file index.php klik tombol  pada salah satu record, kemudian ubah data dan simpan.



- Tuliskan hasilnya dibawah ini

localhost/P9\_222331\_Gilang/admin/ubah\_mhs.php?nim=4342401055

SELAMAT DATANG ADMIN

Search

Search

Dashboard

Daftar Mahasiswa

Daftar Dosen

Daftar Pegawai

Jadwal Kuliah

NIM

4342401055

NAMA

Naomi

ALAMAT

Batam

JURUSAN

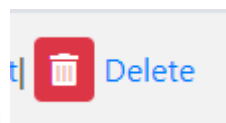
Teknik

SIMPAN

## 8. Hapus Data

- Buat file baru ketikkan kode berikut simpan dengan nama file **hapus\_mhs.php**

```
<?php
// include database connection file
include 'koneksi.php';
$nim = $_GET['nim'];
$result = mysqli_query($koneksi, "DELETE FROM mahasiswa WHERE nim='$nim'");
header("Location:mahasiswa.php");
?>
```



- Jalankan file index.php klik tombol pada salah satu bari record.

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Home

Dashboard

Search

Search

Dashboard

Daftar Mahasiswa

Daftar Pegawai

Jadwal Kuliah

Data Mahasiswa

Tambah Data Mahasiswa

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401037	Hasna Fadhillah Ramadhan	Batam	Teknik Mesin	<div>Edit</div> <div>Delete</div>
2	4342401039	Sheila Rifqi	Batam	Teknik Elektro	<div>Edit</div> <div>Delete</div>

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401037	Hasna Fadhillah Ramadhan	Batam	Teknik Mesin	<div>Edit</div> <div>Hapus</div>

NO	NIM	NAMA MAHASISWA	ALAMAT	JURUSAN	AKSI
1	4342401037	Hasna Fadhillah Ramadhan	Batam	Teknik Mesin	<div>Edit</div> <div>Delete</div>

Designed By : Politeknik XYZ

## Modifikasi menggunakan Modal

1. Buka file **index.php** pada folder **admin**
2. Tambahkan **Modal** pada tombol **TAMBAH DATA MAHASISWA** menjadi seperti berikut:

```
<a href="#" class="btn btn-primary mb-2" data-toggle="modal" data-target="#tambahmhs">
<i class="fas fa-plus-circle mr-2"></i>TAMBAH DATA MAHASISWA</a>
```

3. Tambahkan **Modal** pada tombol **Edit dan Delete** sehingga menjadi seperti berikut:

```
<i class="fas fa-edit bg-success p-2 text-white rounded"></i>
<a href="#" data-toggle="modal" data-target="#editmhs<?php echo $data['nim'];?>">Edit</a>|
<i class="fas fa-trash-alt bg-danger p-2 text-white rounded"></i>
<a href="#" data-toggle="modal" data-target="#deletemhs<?php echo $data['nim'];?>">Delete</a>
```

4. Tambahkan Form Modal untuk masing-masing tombol Simpan, Edit dan Hapus seperti dibawah ini:

a. Simpan Modal → letakkan kode berikut dibawah komentar <!-- Simpan Modal -->

```
<div class="example-modal">
  <div id="tambahmhs" class="modal fade" role="dialog" style="display:none;">
    <div class="modal-dialog">
      <div class="modal-content">
        <div class="modal-header">
          <h3 class="modal-title">Tambah Data Baru</h3>
        </div>
        <div class="modal-body">
          <form action="simpan_mhs.php" method="post" role="form">
            <div class="form-group">
              <div class="row">
                <label class="col-sm-3 control-label text-right">NIM</label>
                <div class="col-sm-8"><input type="text" class="form-control" name="nim" placeholder="NIM"
value=""></div>
              </div>
            </div>
            <div class="form-group">
              <div class="row">
                <label class="col-sm-3 control-label text-right">Nama Mahasiswa</label>
                <div class="col-sm-8"><input type="text" class="form-control" name="nama" placeholder="Nama
Mahasiswa" value=""></div>
              </div>
            </div>
            <div class="form-group">
              <div class="row">
                <label class="col-sm-3 control-label text-right">Alamat</label>
                <div class="col-sm-8"><input type="text" class="form-control" name="alamat" placeholder="Alamat"
id="alamat" value="">
              </div>
            </div>
            <div class="form-group">
              <div class="row">
                <label class="col-sm-3 control-label text-right">Jurusan </label>
                <div class="col-sm-8"><input type="text" name="jurusan" class="form-control"
placeholder="Jurusan">
              </div>
            </div>
            <div class="modal-footer">
              <button id="nosave" type="button" class="btn btn-danger pull-left" data-
dismiss="modal">Batal</button>
              <input type="submit" name="submit" class="btn btn-primary" value="Simpan">
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
</div>
```

**b. Edit modal** → letakkan kode berikut dibawah komentar `<!-- Update Modal -->`

```
<div class="example-modal">  
    <div class="modal fade" id="editmhs<?php echo $data['nim'];?>" role="dialog">  
        <div class="modal-dialog">  
            <div class="modal-content">  
                <div class="modal-header">  
                    <h3 class="modal-title">Edit Data Mahasiswa</h3>  
                </div>  
                <div class="modal-body">  
                    <form action="update_mhs.php" method="post" role="form">  
                        <?php  
                            $nim = $data['nim'];  
                            $query1 = mysqli_query($koneksi, "SELECT * FROM mahasiswa WHERE nim='$nim'");  
                            while ($data1 = mysqli_fetch_assoc($query1)) {  
                                ?>  
                                <div class="form-group">  
                                    <div class="row">  
                                        <label class="col-sm-3 control-label text-right">NIM </label>  
                                        <div class="col-sm-8"><input type="text" class="form-control" name="nim" value="<?php echo  
$data1['nim']; ?>"></div>  
                                    </div>  
                                </div>  
                                <div class="form-group">  
                                    <div class="row">  
                                        <label class="col-sm-3 control-label text-right">>Nama Mahasiswa</label>  
                                        <div class="col-sm-8"><input type="text" class="form-control" name="nama" value="<?php echo  
$data1['nama']; ?>"></div>  
                                    </div>  
                                </div>  
                                <div class="form-group">  
                                    <div class="row">  
                                        <label class="col-sm-3 control-label text-right">Alamat </label>  
                                        <div class="col-sm-8"><input type="text" class="form-control" name="alamat" value="<?php echo  
$data1['alamat']; ?>">  
                                    </div>  
                                </div>  
                                <div class="form-group">  
                                    <div class="row">  
                                        <label class="col-sm-3 control-label text-right">Jurusan </label>  
                                        <div class="col-sm-8"><input type="text" name="jurusan" class="form-control" value="<?php echo  
$data1['jurusan']; ?>">  
                                    </input>  
                                </div> </div> </div>  
                                <div class="modal-footer">  
                                    <button id="noedit" type="button" class="btn btn-danger pull-left" data-  
dismiss="modal">Batal</button>  
                                    <input type="submit" name="submit" class="btn btn-primary" value="Update">  
                                </div>  
                                <?php  
                                    }  
                                ?>  
                            </form> </div> </div> </div> </div></div>
```

c. Hapus modal → letakkan kode berikut dibawah komentar `<!-- modal delete -->`

```
<div class="example-modal">
  <div id="deletemhs"<?php echo $data['nim']; ?>" class="modal fade" role="dialog" style="display:none;">
    <div class="modal-dialog">
      <div class="modal-content">

        <div class="modal-header">

          <h3 class="modal-title">Konfirmasi Hapus Data</h3>
        </div>
        <div class="modal-body">
          <h5 align="center" >Apakah anda yakin ingin menghapus NIM <?php echo
$data['nim'];?><strong><span class="grt"></span></strong> ?</h5>
        </div>
        <div class="modal-footer">
          <button id="nodelete" type="button" class="btn btn-danger pull-left" data-
dismiss="modal">Cancle</button>
          <a href="hapus_mhs.php?nim=<?php echo $data['nim']; ?>" class="btn btn-primary">Delete</a>
        </div>

      </div>
    </div>
  </div>
</div>
```

## TUGAS

Buatlah program tambah, ubah, update, hapus data untuk data dosen, pegawai dan jadwal kuliah dengan struktur tabel sebagai berikut:

- a. Tabel dosen:
  - nidn char (10)
  - nama Varchar(30)
  - alamat Varchar(30)
  - jabatan Varchar(10)
- b. Tabel Pegawai:
  - nik char(10)
  - nama Varchar(30)
  - bagian Varchar(20)
- c. Tabel jadwal kuliah disesuaikan dengan jadwal kuliah masing yang ada di Politeknik Batam.