Materi codeigneter - web II
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➔ MySQL – Schema Database

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buku

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
kd_buku	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
judul	varchar(50)	latin1_swedish_ci	YES				select,insert,update,references	
pengarang	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
jenis	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
buku	0	PRIMARY	1	kd_buku	A	2	(NULL)	(NULL)		BTREE		

dosen

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
nip	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
nama_dosen	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
bidang	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	
telp	varchar(15)	latin1_swedish_ci	YES		0		select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
dosen	0	PRIMARY	1	nip	A	2	(NULL)	(NULL)		BTREE		

mahasiswa

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
nim	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
nama	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
jurusan	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	
alamat	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
Mahasiswa	0	PRIMARY	1	nim	A	3	(NULL)	(NULL)		BTREE		

peminjaman

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
id_peminjaman	varchar(12)	utf8_general_ci	NO	PRI	(NULL)		select,insert,update,references	
nim	varchar(10)	utf8_general_ci	NO	PRI	(NULL)		select,insert,update,references	

kd_buku	varchar(5)	utf8_general_ci	NO	PRI	(NULL)	select,insert,update,references	
tanggal_pinjam	date	(NULL)	YES		(NULL)	select,insert,update,references	
tanggal_kembali	date	(NULL)	YES		(NULL)	select,insert,update,references	
status	varchar(45)	utf8_general_ci	YES		(NULL)	select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
peminjaman	0	PRIMARY	1	id_peminjaman	A	2	(NULL)	(NULL)		BTREE		
peminjaman	0	PRIMARY	2	nim	A	2	(NULL)	(NULL)		BTREE		
peminjaman	0	PRIMARY	3	kd_buku	A	2	(NULL)	(NULL)		BTREE		

tmp

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
kd_buku	varchar(5)	utf8_general_ci	NO		(NULL)		select,insert,update,references	
judul	varchar(100)	utf8_general_ci	NO		(NULL)		select,insert,update,references	
pengarang	varchar(50)	utf8_general_ci	NO		(NULL)		select,insert,update,references	

Indexes

➜ **MySQL – Query Database (SQL Yog)**

➔ **MySQL – Query Database (gunakan editor query SQL Yog)**

```sql
CREATE DATABASE IF NOT EXISTS CI;

/*Table structure for table buku */

DROP TABLE IF EXISTS buku;

CREATE TABLE buku (
  kd_buku varchar(10) NOT NULL DEFAULT '', judul varchar(50) DEFAULT '',
  pengarang varchar(20) DEFAULT '', jenis varchar(20) DEFAULT '',
  PRIMARY KEY (kd_buku)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


/*Table structure for table dosen */

DROP TABLE IF EXISTS dosen;

CREATE TABLE dosen (
  nip varchar(10) NOT NULL DEFAULT '',
  nama_dosen varchar(20) DEFAULT '', bidang varchar(30) DEFAULT '',
  telp varchar(15) DEFAULT '0', PRIMARY KEY (nip)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


/*Table structure for table mahasiswa */

DROP TABLE IF EXISTS mahasiswa;

CREATE TABLE mahasiswa (
  nim varchar(10) NOT NULL DEFAULT '', nama varchar(20) DEFAULT '',
  jurusan varchar(30) DEFAULT '', alamat varchar(30) DEFAULT '', PRIMARY KEY (nim) )
ENGINE=InnoDB DEFAULT CHARSET=latin1;

INSERT INTO mahasiswa(nim,nama,jurusan,alamat) VALUES
        ('10185068','Jamal Apriadi','Teknik Informatika','Pangkah'),
        ('10185074','Nazar Zulmi','Teknik Informatika','Kalibantu'),
        ('10185077','Agus Imam','Teknik Informatika','Trayeman');

/*Table structure for table peminjaman */

DROP TABLE IF EXISTS peminjaman;

CREATE TABLE peminjaman (
  id_peminjaman varchar(12) NOT NULL, nim varchar(10) NOT NULL,
  kd_buku varchar(5) NOT NULL, tanggal_pinjam date DEFAULT NULL,
  tanggal_kembali date DEFAULT NULL, status varchar(45) DEFAULT
  NULL,
  PRIMARY KEY (id_peminjaman,nim,kd_buku)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;


/*Table structure for table tmp */

DROP TABLE IF EXISTS tmp;

CREATE TABLE tmp (
  kd_buku varchar(5) NOT NULL,
  judul varchar(100) NOT NULL,
  pengarang varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

➔ **Persiapan Framework Codeigneter**

Untuk melakukan setting framework Codeigniter, lakukan langkah-langkah berikut :

1. Estela Xampp terinstal dengan baik, Ekstrak file CodeIgniter_2.1.3.zip ke direktori xampp/htdocs dan remane menjadi "**MyCI**" agar lebih memudahkan kita.
2. Lakukan testing dengan mengetikan alamat http://localhost/myci pada address bar di browser

Berikut ini adalah tampilan yang pada browser jika framework Codeigniter telah berjalan dengan baik :
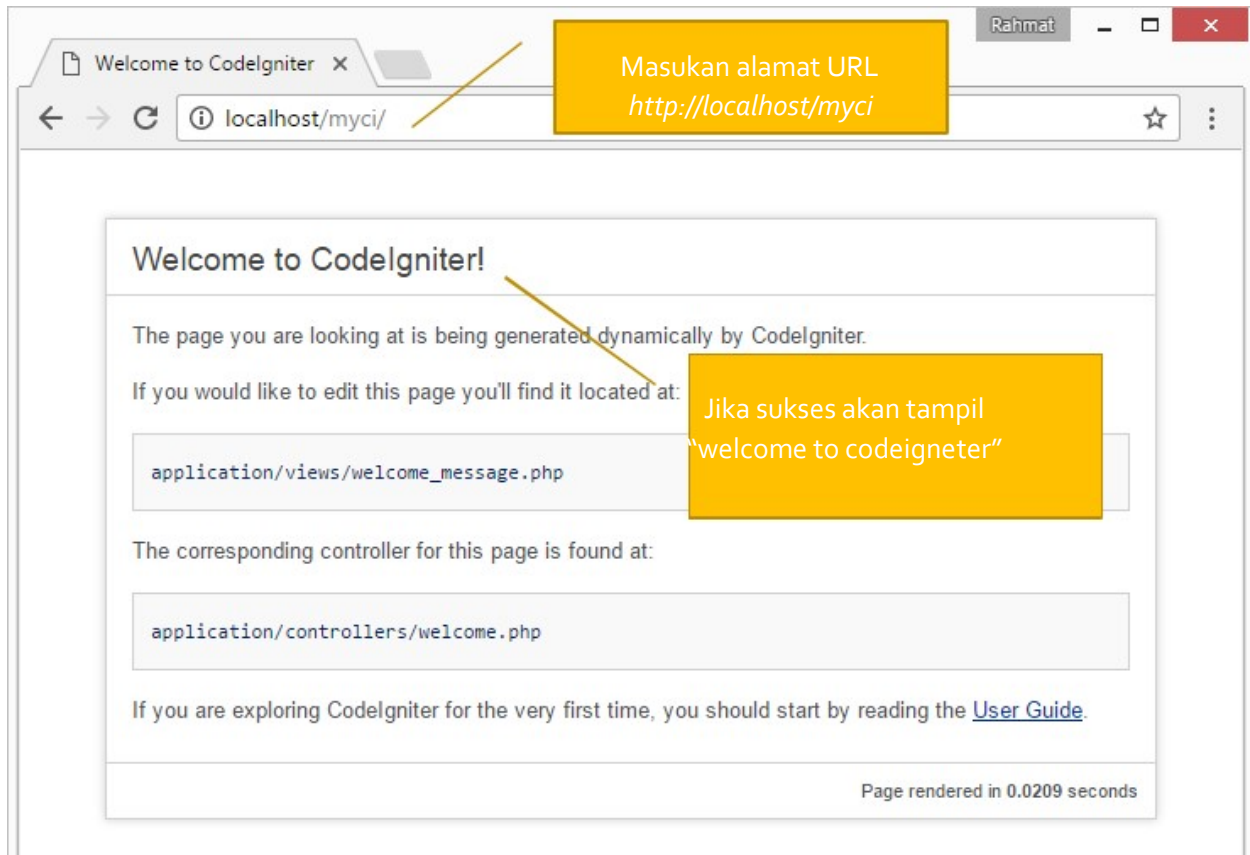
➔ **Pengaturan Framework Codeigneter**

1. Konfigurasi File autoload.php (C:\xampp\htdocs\MyCI\application\config\autoload.php)

   ➔ Ubahlah script dibawah ini pada baris kode ke 55.

$autoload['libraries'] = array('');	➔	➔	$autoload['libraries'] = array('database','session');

   ➔ Ubahlah script dibawah ini pada baris kode ke 67.

$autoload['helper'] = array('');	➔	➔	$autoload['helper'] = array('url','file','html','form');

   Pada file autoload.php ini kita melakukan konfigurasi untuk library ataupun helper yang akan kita panggil secara otomatis ketika program codeigniter kita dijalankan

2. Konfigurasi File databse.php (C:\xampp\htdocs\MyCI\application\config\database.php)
→ Ubahlah script dibawah ini pada baris kode ke 51 sd 65.

```
$db['default']['hostname'] = 'localhost';
$db['default']['username'] = '';
$db['default']['password'] = '';
$db['default']['database'] = '';
$db['default']['dbdriver'] = 'mysql';
$db['default']['dbprefix'] = '';
$db['default']['pconnect'] = TRUE;
$db['default']['db_debug'] = TRUE;

$db['default']['cache_on'] = FALSE;
$db['default']['cachedir'] = '';
$db['default']['char_set'] = 'utf8';
$db['default']['dbcollat'] =
'utf8_general_ci';
$db['default']['swap_pre'] = '';
$db['default']['autoinit'] = TRUE;
$db['default']['stricton'] = FALSE;
```

→ →

```
$db['default']['hostname'] = 'localhost';
$db['default']['username'] = 'root';
$db['default']['password'] = 'password';
$db['default']['database'] = 'ci';
$db['default']['dbdriver'] = 'mysql';
$db['default']['dbprefix'] = '';
$db['default']['pconnect'] = TRUE;
$db['default']['db_debug'] = TRUE;

$db['default']['cache_on'] = FALSE;
$db['default']['cachedir'] = '';
$db['default']['char_set'] = 'utf8';
$db['default']['dbcollat'] =
'utf8_general_ci';
$db['default']['swap_pre'] = '';
$db['default']['autoinit'] = TRUE;
$db['default']['stricton'] = FALSE;
```

Di file database.php ini mengatur tentang urusan koneksi framework codeigniter dengan database:

Username dan Password sesuaikan dengan webserver anda, dan database nya adalah **CI** yang telah dibuat sebelumnya.

➔ **File- file MVC pada folder projek MyCI**
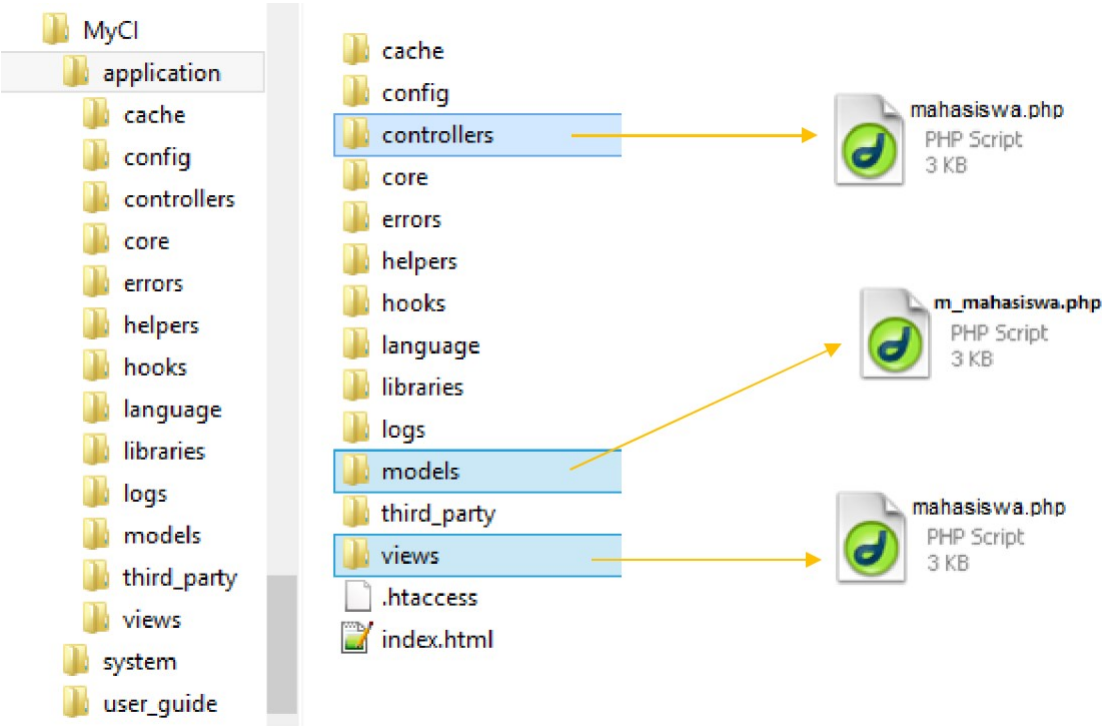
➔ File MODEL | *m_mahasiswa.php*

Sekarang semua telah diatur dengan baik, sekarang kita buat file model kita, beri nama m_mahasiswa.php dan simpan di application/model.

```php
<?php
class m_mahasiswa extends CI_Model{
    private $table="mahasiswa";
    private $primary="nim";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

}
```

➔ File CONTROLLER | *mahasiswa.php*

Setelah itu kita buat file mahasiswa.php (controller). Kita akan meletakkan kode agar controller dapat mengambil data dari database yang sudah di deklerasikan pada file model dibaris kode yang telah kita buat sebelumnya sehingga skrip (controller) mahasiswa.php akan seperti berikut :

```php
<?php
class mahasiswa extends CI_Controller{

    function __construct(){
        parent::__construct();
        $this->load->model('m_mahasiswa');
    }

    function index(){
                $data['mahasiswa']=$this->m_mahasiswa->tampilData()->result();
                $this->load->view('mahasiswa',$data);
    }

}
```

➔ File VIEW | *mahasiswa.php*

Selanjutnya, kita akan membuat file view. Kita akan meletakkan kode pada file view ini untuk menampilkan setiap data yang masuk, yaitu data yang ada di database ci table mahasiswa, simpan di folder application/views dengan nama mahasiswa.php

```html
<html>
<head>
<title>Data Mahasiswa</title>
</head>
<body>
        <legend>Data Mahasiswa</legend>
        <table width="40%" border="1">
                <thead>
                        <tr>
                                <td>No.</td>
                                <td>NIM</td>
                                <td>Nama</td>
                                <td>Jurusan</td>
                                <td>Alamat</td>
                        </tr>
                </thead>
                <?php $no=0; foreach($mahasiswa as $row ): $no++;?>
                <tr>
                        <td><?php echo $no;?></td>
                        <td><?php echo $row->nim;?></td>
                        <td><?php echo $row->nama;?></td>
                        <td><?php echo $row->jurusan;?></td>
                        <td><?php echo $row->alamat;?></td>
                </tr>
                <?php endforeach;?>
        </Table>
</body>
</html>
```
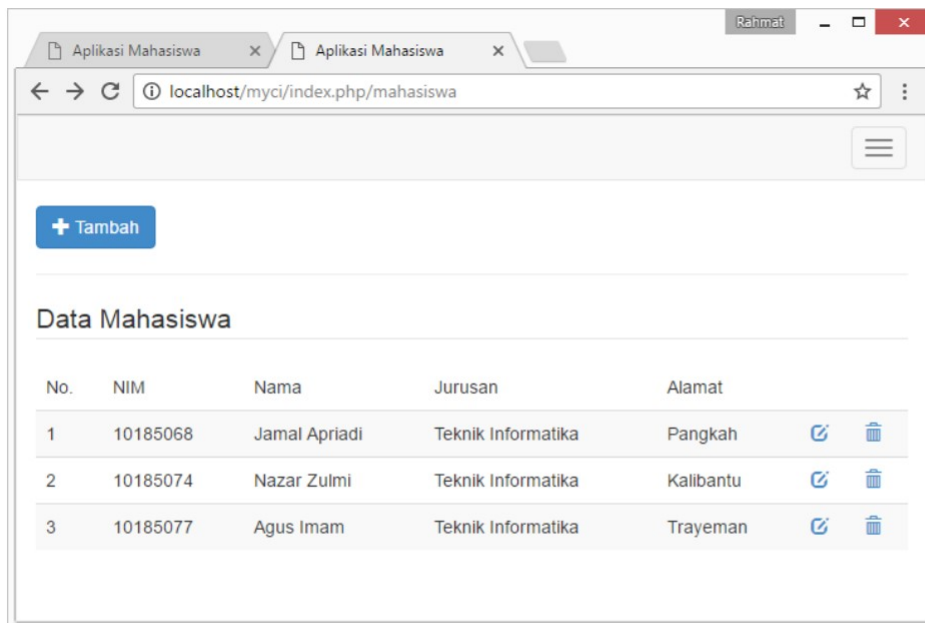
Sekarang coba jalankan di web browser anda dengan mengetikkan alamat url
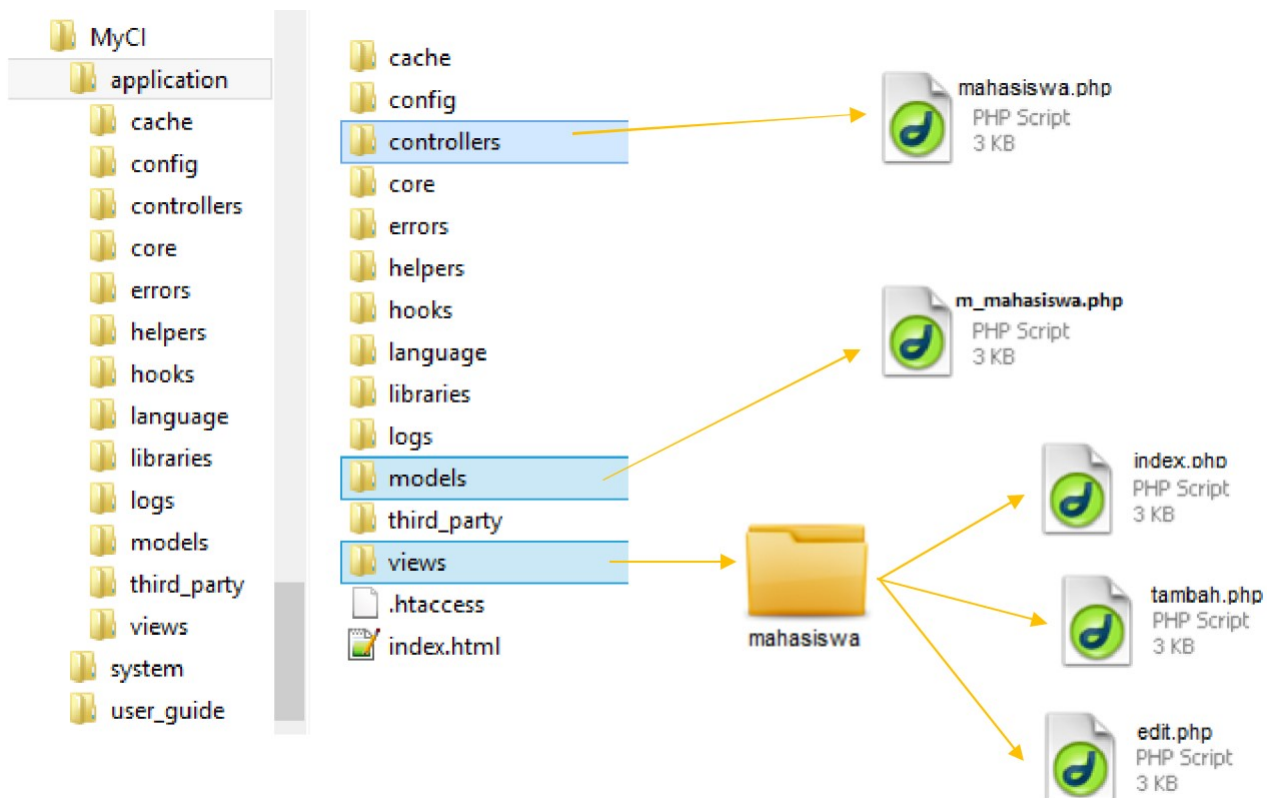http://localhost/myci/index.php/mahasiswa

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➔ **Migrasi Template Bootstrap and CI**

Untuk migrasi tampilan web lebih user friendly, dibutuhkan suatu template web yang sudah mengimplemtasikan HTML 5, JQMobile, Javascript, dll. Untuk memudahkan proyek web kita silahkan ekstrak file "master_bootstrap_ci" yang terdapat folder MyCI, kemudian pindahkan dan tempatkan pada masing-masing localhost server kita C:\xampp\htdocs\MyCI

Adapaun terjadi kesalahan, pastikan pengaturan (setting) koneksi dengan Database kita disesuaikan (red. Lihat halaman 5). Jika tidak ada kendala, silahkan coba akses halaman
http://localhost/myci/index.php/mahasiswa

➔ **Schema Modul MAHASISWA**

➔ **File VIEW** ➔ Mahasiswa | *index.php* | membuat halaman HTML tampil data

```php
<a href="<?php echo site_url('mahasiswa/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i>
Tambah</a>
<hr>
<legend>Data Mahasiswa</legend>
<?php echo $message;?>
<Table class="table table-striped">
  <thead>
    <tr>
      <td>No.</td>
      <td>NIM</td>
      <td>Nama</td>
      <td>Jurusan</td>
      <td>Alamat</td>
      <td colspan="2"></td>
    </tr>
  </thead>
  <?php $no=0; foreach($mahasiswa as $row ): $no++;?>
  <tr>
    <td><?php echo $no;?></td>
    <td><?php echo $row->nim;?></td>
    <td><?php echo $row->nama;?></td>
    <td><?php echo $row->jurusan;?></td>
    <td><?php echo $row->alamat;?></td>
    <td><a href="<?php echo site_url('mahasiswa/edit/'.$row->nim);?>"><i class="glyphicon glyphicon-edit"></i></a></td>
    <td><a href="#" class="hapus" kode="<?php echo $row->nim;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
  </tr>
  <?php endforeach;?>
</Table>

<script>
  $(function(){
    $(".hapus").click(function(){
      var kode=$(this).attr("kode");

      $("#idhapus").val(kode);
      $("#myModal").modal("show");
    });

    $("#konfirmasi").click(function(){
      var kode=$("#idhapus").val();

      $.ajax({
        url:"<?php echo site_url('mahasiswa/hapus');?>",
        type:"POST",
        data:"kode="+kode,
        cache:false,
        success:function(html){
          location.href="<?php echo site_url('mahasiswa/index/delete_success');?>";
        }
      });
    });
  });
</script>
```

➜ **File Controller | *mahasiswa.php* | membuat fungsi DML (create, read, update, delete)**

```php
<?php
class mahasiswa extends CI_Controller{

function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_mahasiswa');
}

function index(){
    $data['mahasiswa']=$this->m_mahasiswa->tampilData()->result();
    $config['base_url']=site_url('mahasiswa/index/');

    if($this->uri->segment(3)=="delete_success")
        $data['message']="<div class='alert alert-success'>Data berhasil
    dihapus</div>"; else if($this->uri->segment(3)=="add_success")
        $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
        $data['message']='';
        $this->template->display('mahasiswa/index',$data);
}

function tambah(){
    $nim=$this->input->post('nim');
    if($nim<>""){
        $cek=$this->m_mahasiswa->cek($nim);
        if($cek->num_rows()>0){
            $data['message']="<div class='alert alert-warning'>NIM sudah digunakan</div>";
            $this->template->display('mahasiswa/tambah',$data);
        }else{
            $isidata=array(
            'nim'=>$this->input->post('nim'),
            'nama'=>$this->input->post('nama'),
            'jurusan'=>$this->input->post('jurusan'),
            'alamat'=>$this->input->post('alamat')
            );
            $this->m_mahasiswa->simpan($isidata);
            redirect('mahasiswa/index/add_success');
        }
    }else{
        $data['message']="";
        $this->template->display('mahasiswa/tambah',$data);
    }
}

function hapus(){
        $nim=$this->input->post('kode');
        $this->m_mahasiswa->hapus($nim);
}
```

```
function edit($id){
    $nim=$this->input->post('nim');
    $nama=$this->input->post('nama');
    $jurusan=$this->input->post('jurusan');
    $alamat=$this->input->post('alamat');

    if($nim<>"" and $nama<>"" and $jurusan<>"" and $alamat<>""){
        $isidata=array(
        'nama'=>$this->input->post('nama'),
        'jurusan'=>$this->input->post('jurusan'),
        'alamat'=>$this->input->post('alamat'));

        $this->m_mahasiswa->update($nim,$isidata);
        $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
        $data['mhs']=$this->m_mahasiswa->cek($id)->row_array(); $this->template-
        >display('mahasiswa/edit',$data);
    }else{
        $data['mhs']=$this->m_mahasiswa->cek($id)->row_array();
        $data['message']="";
        $this->template->display('mahasiswa/edit',$data);
    }
}

}
```

➔ File Model | m_*mahasiswa.php* | membuat fungsi DML (create, read, update, delete)

```php
<?php
class m_mahasiswa extends CI_Model{
    private $table="mahasiswa";
    private $primary="nim";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```

➔ **File VIEW** ➔ **Mahasiswa |** *tambah.php* **|** form halaman HTML tambah

```php
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-
   data"> <div class="form-group">
     <label class="col-lg-2 control-label">NIM</label>
     <div class="col-lg-5">
       <input type="text" name="nim" class="form-control">
     </div>
   </div>
         <div class="form-group">
     <label class="col-lg-2 control-label">Nama</label>
     <div class="col-lg-5">
       <input type="text" name="nama" class="form-control">
     </div>
   </div>
         <div class="form-group">
     <label class="col-lg-2 control-label">Jurusan</label>
     <div class="col-lg-5">
       <input type="text" name="jurusan" class="form-control">
     </div>
   </div>
         <div class="form-group">
     <label class="col-lg-2 control-label">Alamat</label>
     <div class="col-lg-5">
       <input type="text" name="alamat" class="form-control">
     </div>
   </div>
   <div class="form-group well">
     <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button> <a
     href="<?php echo site_url('mahasiswa');?>" class="btn btn-default">Kembali</a>
   </div>
</form>
```

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➔ **File VIEW** ➔ **Mahasiswa |** *edit.php* | form halaman HTML edit

```
<legend>Edit Data Mahasiswa</legend>
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-
  data"> <div class="form-group">
    <label class="col-lg-2 control-label">NIM</label>
    <div class="col-lg-5">
      <input type="text" name="nim" class="form-control" value="<?php echo $mhs['nim'];?>" readonly="readonly">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Nama</label>
    <div class="col-lg-5">
      <input type="text" name="nama" class="form-control" value="<?php echo $mhs['nama'];?>">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Jurusan</label>
    <div class="col-lg-5">
      <input type="text" name="jurusan" class="form-control" value="<?php echo $mhs['jurusan'];?>">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Alamat</label>
    <div class="col-lg-5">
      <input type="text" name="alamat" class="form-control" value="<?php echo $mhs['alamat'];?>">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('mahasiswa');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```

(Tampil Data) http://localhost/ci/index.php/mahasiswa

(Tambah) http://localhost/ci/index.php/mahasiswa/tambah

http://localhost/ci/index.php/mahasiswa/edit/10185068

(Hapus) http://localhost/ci/index.php/mahasiswa/#

➜ **Schema Modul BUKU**

➜ **File Controller | *buku.php* | membuat fungsi DML (create, read, update, delete)**

```php
<?php
class buku extends CI_Controller{


  function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_buku');
  }

  function index(){
    $data['buku']=$this->m_buku->tampilData()->result();
    $config['base_url']=site_url('buku/index/');

    if($this->uri->segment(3)=="delete_success")
      $data['message']="<div class='alert alert-success'>Data berhasil
    dihapus</div>"; else if($this->uri->segment(3)=="add_success")
      $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
      $data['message']='';
      $this->template->display('buku/index',$data);
  }
```

```
function tambah(){
    $kd_buku=$this->input->post('kd_buku');
    if($kd_buku<>""){
        $cek=$this->m_buku->cek($kd_buku);
        if($cek->num_rows()>o){
            $data['message']="<div class='alert alert-warning'>Buku sudah digunakan</div>";
            $this->template->display('buku/tambah',$data);
        }else{
            $isidata=array(
            'kd_buku'=>$this->input->post('kd_buku'),
            'judul'=>$this->input->post('judul'),
            'pengarang'=>$this->input->post('pengarang'),
            'jenis'=>$this->input->post('jenis')
            );
            $this->m_buku->simpan($isidata);
            redirect('buku/index/add_success');
        }
    }else{
        $data['message']="";
        $this->template->display('buku/tambah',$data);
    }
}

function hapus(){
    $kd_buku=$this->input->post('kode');
    $this->m_buku->hapus($kd_buku);
}


function edit($id){
    $kd_buku=$this->input->post('kd_buku');
    $judul=$this->input->post('judul');
    $pengarang=$this->input->post('pengarang');
    $jenis=$this->input->post('jenis');

    if($kd_buku<>"" and $judul<>"" and $pengarang<>"" and
        $jenis<>""){ $isidata=array(
            'judul'=>$this->input->post('judul'),
            'pengarang'=>$this->input->post('pengarang'),
            'jenis'=>$this->input->post('jenis')
        );

        $this->m_buku->update($kd_buku,$isidata);
        $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
        $data['bk']=$this->m_buku->cek($id)->row_array(); $this->template-
        >display('buku/edit',$data);
    }else{
        $data['bk']=$this->m_buku->cek($id)->row_array();
        $data['message']="";
        $this->template->display('buku/edit',$data);
    }
}

}
```

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➔ **File Model | m_*buku.php* | membuat fungsi DML (create, read, update, delete)**

```php
<?php
class m_buku extends CI_Model{
    private $table="buku";
    private $primary="kd_buku";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```

➔ **File VIEW** ➔ Buku | *index.php* | membuat halaman HTML tampil data

```php
<a href="<?php echo site_url('buku/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i> Tambah</a>
<hr>
<legend>Data Buku</legend>
<?php echo $message;?>
<Table class="table table-striped">
  <thead>
    <tr>
      <td>No.</td>
      <td>Kode Buku</td>
      <td>Judul</td>
      <td>Pengarang</td>
      <td>Jenis</td>
      <td colspan="2"></td>
    </tr>
  </thead>
  <?php $no=0; foreach($buku as $row ): $no++;?>
  <tr>
    <td><?php echo $no;?></td>
    <td><?php echo $row->kd_buku;?></td>
    <td><?php echo $row->judul;?></td>
    <td><?php echo $row->pengarang;?></td>
    <td><?php echo $row->jenis;?></td>
    <td><a href="<?php echo site_url('buku/edit/'.$row->kd_buku);?>"><i class="glyphicon glyphicon-edit"></i></a></td> <td><a
    href="#" class="hapus" kode="<?php echo $row->kd_buku;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
  </tr>
  <?php endforeach;?>
</Table>

<script>
  $(function(){
    $(".hapus").click(function(){
      var kode=$(this).attr("kode");

      $("#idhapus").val(kode);
      $("#myModal").modal("show");
    });

    $("#konfirmasi").click(function(){
      var kode=$("#idhapus").val();

      $.ajax({
        url:"<?php echo site_url('buku/hapus');?>",
        type:"POST",
        data:"kode="+kode,
        cache:false,
        success:function(html){
          location.href="<?php echo site_url('buku/index/delete_success');?>";
        }
      });
    });
  });
</script>
```

➔ **File VIEW**   ➔ **Buku | *tambah.php* | membuat halaman HTML tampil data**

```php
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-
  data"> <div class="form-group">
    <label class="col-lg-2 control-label">Kode Buku</label>
    <div class="col-lg-5">
      <input type="text" name="kd_buku" class="form-
    control"> </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Judul</label>
    <div class="col-lg-5">
      <input type="text" name="judul" class="form-control">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Pengarang</label>
    <div class="col-lg-5">
      <input type="text" name="pengarang" class="form-
    control"> </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Klasifikasi buku</label>
    <div class="col-lg-5">
      <select name="jenis" class="form-control">
        <option></option>
        <option value="Tugas Akhir">Tugas Akhir</option>
                            <option value="Skripsi">Skripsi</option>
        <option value="Tutorial">Tutorial</option>
                            <option value="Science">Science</option>
      </select>
    </div>
  </div>
        <br>
        <br>
        <br>
        <br>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button> <a
    href="<?php echo site_url('buku');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```

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➔ **File VIEW** ➔ Buku | *edit.php* | membuat halaman HTML tampil data

```php
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">Kode Buku</label>
    <div class="col-lg-5">
      <input type="text" name="kd_buku" class="form-control" value="<?php echo $bk['kd_buku'];?>"
    readonly="readonly"> </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Judul</label>
    <div class="col-lg-5">
      <input type="text" name="judul" class="form-control" value="<?php echo $bk['judul'];?>">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Pengarang</label>
    <div class="col-lg-5">
      <input type="text" name="pengarang" class="form-control" value="<?php echo
    $bk['pengarang'];?>"> </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Klasifikasi buku</label>
    <div class="col-lg-5">
      <select name="jenis" class="form-control">
        <option></option>
        <option value="Tugas Akhir">Tugas Akhir</option>
                          <option value="Skripsi">Skripsi</option>
        <option value="Tutorial">Tutorial</option>
                          <option value="Science">Science</option>
      </select>
    </div>
  </div>
        <br>
        <br>
        <br>
        <br>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('buku');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```
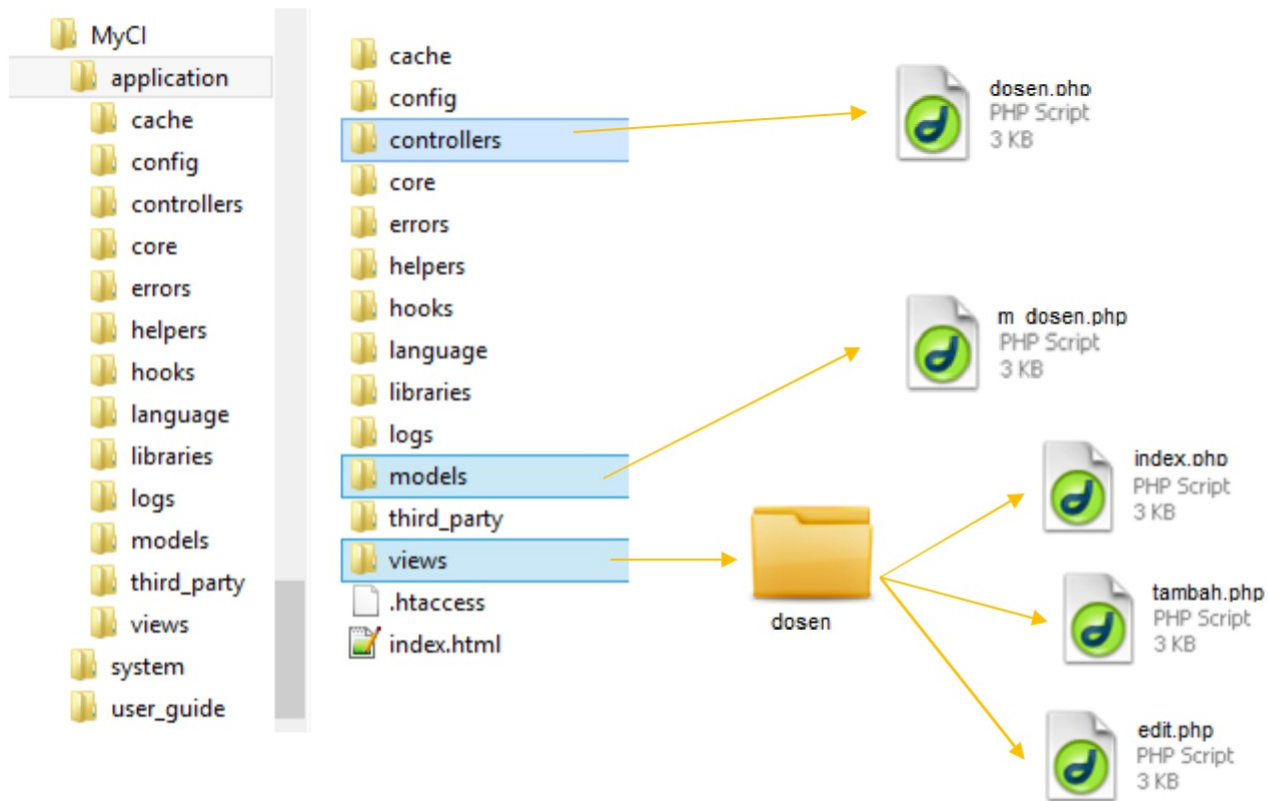
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(Tampil Data) http://localhost/ci/index.php/buku

(Tambah) http://localhost/ci/index.php/buku/tambah

http://localhost/ci/index.php/buku/edit/B001

(Hapus) http://localhost/ci/index.php/buku/#

➜ Schema Modul DOSEN

➜ File Controller | *dosen.php* | membuat fungsi DML (create, read, update, delete)

```php
<?php
class dosen extends CI_Controller{


  function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_dosen');
  }

  function index(){
    $data['dosen']=$this->m_dosen->tampilData()->result();
    $config['base_url']=site_url('dosen/index/');

    if($this->uri->segment(3)=="delete_success")
      $data['message']="<div class='alert alert-success'>Data berhasil
    dihapus</div>"; else if($this->uri->segment(3)=="add_success")
      $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
      $data['message']='';
      $this->template->display('dosen/index',$data);
  }
```

```
function tambah(){
    $nip=$this->input->post('nip');
      if($nip<>""){
      $cek=$this->m_dosen->cek($nip);
      if($cek ->num_rows()>0){
        $data['message']="<div class='alert alert-warning'>NIP sudah digunakan</div>";
        $this->template->display('dosen/tambah',$data);
      }else{
        $isidata=array(
          'nip'=>$this->input->post('nip'),
          'nama_dosen'=>$this->input->post('nama_dosen'),
          'bidang'=>$this->input->post('bidang'),
          'telp'=>$this->input->post('telp')
        );
        $this->m_dosen->simpan($isidata);
        redirect('dosen/index/add_success');
      }
                }else{
      $data['message']="";
      $this->template->display('dosen/tambah',$data);
    }
  }

  function hapus(){
    $nip=$this->input->post('kode');
    $this->m_dosen->hapus($nip);
  }


  function edit($id){
        $nip=$this->input->post('nip');
        $nama_dosen=$this->input->post('nama_dosen');
        $bidang=$this->input->post('bidang');
        $telp=$this->input->post('telp');

        if($nip<>"" and $nama_dosen<>"" and $bidang<>"" and $telp<>""){

              $isidata=array(
                  'nama_dosen'=>$this->input->post('nama_dosen'),
                  'bidang'=>$this->input->post('bidang'),
                  'telp'=>$this->input->post('telp')
                );

              $this->m_dosen->update($nip,$isidata);
              $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
              $data['dsn']=$this->m_dosen->cek($id)->row_array(); $this->template-
              >display('dosen/edit',$data);
        }else{
              $data['dsn']=$this->m_dosen->cek($id)->row_array();
              $data['message']="";
              $this->template->display('dosen/edit',$data);
        }
    }

}
```

➔ **File Model | m_*dosen.php* | membuat fungsi DML (create, read, update, delete)**

```php
<?php
class m_dosen extends CI_Model{
    private $table="dosen";
    private $primary="nip";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```

➔ **File VIEW** ➔ **Dosen | *index.php* | membuat halaman HTML tampil data**

```php
<a href="<?php echo site_url('dosen/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i> Tambah</a>
<hr>
<legend>Data Dosen</legend>
<?php echo $message;?>
<Table class="table table-striped">
   <thead>
     <tr>
        <td>No.</td>
        <td>NIP Dosen</td>
        <td>Nama</td>
        <td>Bidang Keahlian</td>
        <td>Telepon</td>
        <td colspan="2"></td>
     </tr>
   </thead>
   <?php $no=0; foreach($dosen as $row ): $no++;?>
   <tr>
     <td><?php echo $no;?></td>
     <td><?php echo $row->nip;?></td>
     <td><?php echo $row->nama_dosen;?></td>
     <td><?php echo $row->bidang;?></td>
     <td><?php echo $row->telp;?></td>
     <td><a href="<?php echo site_url('dosen/edit/'.$row->nip);?>"><i class="glyphicon glyphicon-edit"></i></a></td> <td><a
     href="#" class="hapus" kode="<?php echo $row->nip;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
   </tr>
   <?php endforeach;?>
</Table>

<script>
   $(function(){
     $(".hapus").click(function(){
        var kode=$(this).attr("kode");

        $("#idhapus").val(kode);
        $("#myModal").modal("show");
     });

     $("#konfirmasi").click(function(){
        var kode=$("#idhapus").val();

        $.ajax({
          url:"<?php echo site_url('dosen/hapus');?>",
          type:"POST",
          data:"kode="+kode,
          cache:false,
          success:function(html){
             location.href="<?php echo site_url('dosen/index/delete_success');?>";
          }
        });
     });
   });
</script>
```

➔ **File VIEW** ➔ Dosen| *tambah.php* | membuat halaman HTML tampil data

```php
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-
  data"> <div class="form-group">
    <label class="col-lg-2 control-label">NIP</label>
    <div class="col-lg-5">
      <input type="text" name="nip" class="form-control">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Nama Dosen</label>
    <div class="col-lg-5">
      <input type="text" name="nama_dosen" class="form-control">
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Bidang
    Keahlian</label> <div class="col-lg-5">
      <select name="bidang" class="form-control">
        <option></option>
        <option value="Ilmu Komputer">Ilmu Komputer</option>
        <option value="Ilmu Akuntansi Bisnis">Ilmu Akuntansi Bisnis</option>
                          <option value="Ilmu Administrasi Kantor">Ilmu Administrasi Kantor</option>
                          <option value="Ilmu Keperawatan">Ilmu Keperawatan</option>
      </select>
    </div>
  </div>
        <div class="form-group">
    <label class="col-lg-2 control-label">Telepon</label>
    <div class="col-lg-5">
      <input type="text" name="telp" class="form-control">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button> <a
    href="<?php echo site_url('dosen');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```

➜ **File VIEW**   ➜ **Dosen | *edit.php* | membuat halaman HTML tampil data**

```php
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
   <div class="form-group">
     <label class="col-lg-2 control-label">NIP</label>
     <div class="col-lg-5">
       <input type="text" name="nip" class="form-control" value="<?php echo $dsn['nip'];?>" readonly="readonly">
     </div>
   </div>
         <div class="form-group">
     <label class="col-lg-2 control-label">Nama Dosen</label>
     <div class="col-lg-5">
       <input type="text" name="nama_dosen" class="form-control" value="<?php echo $dsn['nama_dosen'];?>">
     </div>
   </div>
         <div class="form-group">
     <label class="col-lg-2 control-label">Bidang
   Keahlian</label> <div class="col-lg-5">
       <select name="bidang" class="form-control">
         <option></option>
         <option value="Ilmu Komputer">Ilmu Komputer</option>
         <option value="Ilmu Akuntansi Bisnis">Ilmu Akuntansi Bisnis</option>
                         <option value="Ilmu Administrasi Kantor">Ilmu Administrasi Kantor</option>
                         <option value="Ilmu Keperawatan">Ilmu Keperawatan</option>
       </select>
     </div>
   </div>
         <br>
         <br>
         <br>
         <br>
         <div class="form-group">
     <label class="col-lg-2 control-label">Telepon</label>
     <div class="col-lg-5">
       <input type="text" name="telp" class="form-control" value="<?php echo
   $dsn['telp'];?>"> </div>
   </div>
   <div class="form-group well">
     <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
     <a href="<?php echo site_url('dosen');?>" class="btn btn-default">Kembali</a>
   </div>
</form>
```

(Tampil Data) http://localhost/ci/index.php/dosen

(Tambah) http://localhost/ci/index.php/dosen/tambah

http://localhost/ci/index.php/dosen/edit/10185068

(Hapus) http://localhost/ci/index.php/dosen/#