

2018030032

PRAKTIKUM

PEMROGRAMAN WEB

SEMESTER GENAP TAHUN AKADEMIK 2021/2022

Tanggal

30 Mei 2022

Materi

PHP dan Database

PRODI SISTEM INFORMASI
FAKULTAS TEKNIK
UNIVERSITAS NUSANTARA PGRI KEDIRI

BAB I

DASAR TEORI

- * MySQL API (Application programming Interface)
Merupakan komponen yang digunakan untuk berkomunikasi dengan database MySQL melalui PHP.
- * Proses Query Database
 - membuat koneksi ke server database dan menentukan database yang akan digunakan.
 - membuat SQL (Structure Query Language)
 - melaksanakan proses query
 - mengumpulkan hasil query kedalam sebuah variabel untuk ditampilkan / diolah.

MySQLi

MySQL Improved (MySQLi) merupakan teknik pengaksesan terhadap database MySQL yang merupakan perkembangan dari PHP 5.x atau yang paling baru. Dengan menggunakan MySQLi memungkinkan untuk mengakses stored procedure, stored function atau prepared statement. MySQLi extension memiliki sejumlah manfaat diantaranya adalah:

- menggunakan ~~object~~ interface object oriented.
- mendukung penggunaan prepared statement.
- mendukung penggunaan multiple statement.
- mendukung Reguence transaction.
- meningkatkan terhadap kemampuan pencarian kesalahan program (debugging).
- mendukung pengambilan server.

terikut ini daftar API MySQLi yang akan dipelajari sebagai berikut =

API	FUNGSI
\$MySQLi → query	Mengirimkan query ke database yang aktif
\$MySQLi_result → fetch_array	mengambil data hasil query yang dapat diakses dengan nomor array field atau nama field.
\$MySQLi_result → num_rows	mengambil jumlah baris (data) hasil dari proses Query.
\$MySQLi → error	menampilkan pesan kesalahan atau kegagalan koneksi.

Koneksi Database

Contoh koneksi database mysql menggunakan API mysqli dan PHP

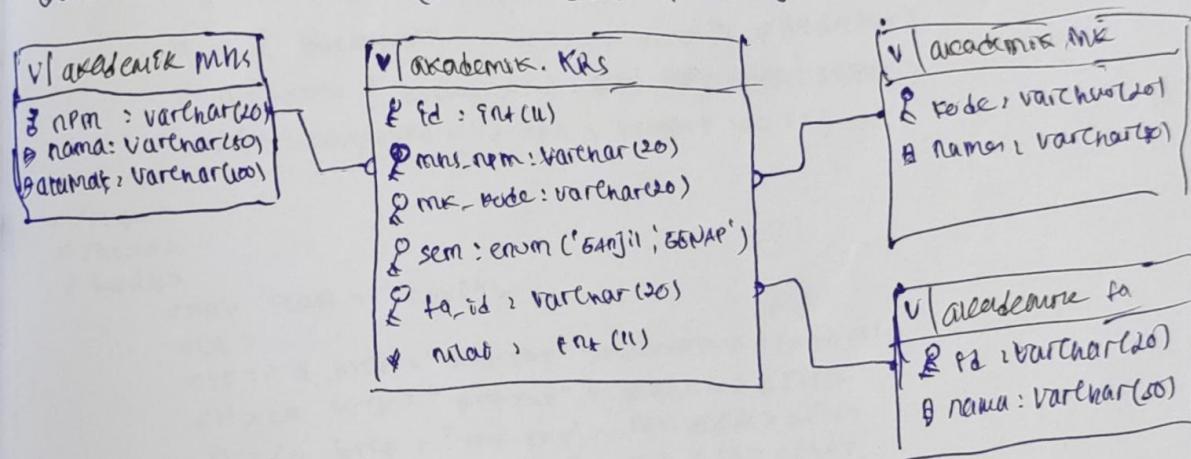
```
<?php
// mendefinisikan variabel
$hostname = "localhost"; // alamat server db MySQL
$username = "root"; // username db MySQL
$password = ""; // password db MySQL
$database = "akademik"; // nama db MySQL

$koneksi = New mysqli ($hostname, $username, $password, $database)
OR die ("koneksi server database gagal". MySQL → ERROR());
echo "koneksi server database berhasil";
?>
```

BAB II

PERCOBAAN DAN LATIHAN

- Membuat database dengan nama akademik
- Membuat tabel dengan nama KRS, mhs, MK, dan fa.
- Gambar database akademik dan relasinya.



Membuat koneksi.php dan sesuaikan username dan password pada database.

```

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

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

}
?>
    
```

Koneksi.php

file PHP dengan nama 'index.php' dengan format HTML

```

<!DOCTYPE html>
<html>
<head>
<meta charset = "UTF-8">
<title></title>
<style type = "text/css">
    a { text-decoration: none; font-size: 16px; font-family: sans-serif;
        padding: 10px 10px; }
    ul { padding: 10px; }
    li { list-style: none; display: inline; }
    li a { background: #222; color: #d4d4d4; }
    li a:hover { background: #d4d4d4; color: #222; }
    .navi { background: #222; height: 50px; }

</style>
</head>
<body>
<nav class = "navi">
    <ul>
        <li><a href = "mhs.php"> Mahasiswa </a></li>
        <li><a href = "krs.php"> KRS </a></li>
        <li><a href = "mk.php"> MK </a></li>
        <li><a href = "ta.php"> TA </a></li>
    </ul>
</nav>

</body>
</html>

```

file PHP dengan nama 'menu.php'

```

<a href = "mhs.php"> MHS </a> | <a href = "mhs-add.php"> ADD </a>

```

file PHP dengan nama mhs.php.

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```
<?php
    include 'koneksi.php';
    include 'index.php';
?>
<!DOCTYPE html>
<html>
<head>
<title> mhs </title>
</head>
<body>
    <h2 align="center"> Mahasiswa </h2>
    <?php include 'menu.php' ?>
    <table width="100%" border="1">
        <thead>
            <tr>
                <th width="150%"> No. </th>
                <th width="50%"> Nama </th>
                <th width="100%"> RKM </th>
                <th width="100%"> Nama </th>
                <th width="100%"> Alamat </th>
            </tr>
        </thead>
        <tbody>
            <?php
                $sql = "SELECT * FROM mhs";
                $res = $conn->query($sql);
                if ($res->num_rows > 0) {
                    $i = 0;
                    while ($dat = $res->fetch_assoc()) {
                        $i++;
                        echo "<tr>";
                        echo "<td>" . $i . "</td>";
                        echo "<td>" . $dat['mhs_detail.php?npm=' . $dat['npm']] . "</td>";
                        echo "<td>" . $dat['RKM'] . "</td>";
                        echo "<td>" . $dat['namo'] . "</td>";
                        echo "<td>" . $dat['Alamat'] . "</td>";
                    }
                }
            </tbody>
        </table>
    </body>
</html>
```

file PHP untuk form tambah data dengan nama mhs-add.php

```

<!DOCTYPE html>
<html>
<head>
<title> mhs add </title>
</head>
<body>
<?php include 'menu.php'; ?>

<br>
<form name="myform" action="mhs-proc.php" method="POST">
NPM
<br>
<input type="text" name="npm" id="nmb" >
<br> Nama <br>
<input type="text" name="name" id="nam" size="30" >
<br> Alamat <br>
<input type="text" name="alamat" id="alat" size="30" >
<br>
<input type="submit" name="submit-add" id="submit-add" value="Simpan" >
</form>
</body>
</html>

```

file PHP untuk mengedit data dengan nama mhs-detail.php

```

<?php include 'koneksi.php'; ?>
$npm = &GET('npm');
$csql = "SELECT * FROM mhs WHERE npm = '$npm'";
$rcs = $conn->query($csql);
$dolt = $rcs->fetch_assoc();
?>
<!DOCTYPE html>
<html>
<head>
<title> mhs Edit </title>
</head>
<body>
<?php include 'menu.php'; ?>

<br>
<form name="myform" action="mhs-proc.php" method="POST">
NPM
<input type="text" name="npm" id="nmb" value="php echo $dolt['npm'];?" >
Name
<input type="text" name="name" id="nam" value="php echo $dolt['name'];?" >
Alamat
<input type="text" name="alamat" id="alat" value="php echo $dolt['alamat'];?" >
<input type="submit" name="submit-edit" id="submit-edit" value="Ubah" >
<input type="submit" name="submit-delete" id="submit-delete" value="Hapus" >
</form>
</body>
</html>

```

```

<?php
include 'koneksi.php';
if (isset($_POST['submit-add'])) {
    $nem = $_POST['nem'];
    $namor = $_POST['namor'];
    $alamat = $_POST['alamat'];
    $sql = "INSERT INTO mhs(npm, nama, alamat)
VALUES ('$nem', '$namor', '$alamat')";
    if (!conn->query($sql)) {
        die ("ramuan tidak berhasil");
    } else {
        header ("location: mhs.php");
    }
}
if (isset($_POST['submit-edit'])) {
    $nem = $_POST['nem'];
    $namor = $_POST['namor'];
    $alamat = $_POST['alamat'];
    $sql = "UPDATE mhs SET nama='$namor', alamat='$alamat' WHERE npm='$nem'";
    if (!conn->query($sql)) {
        die ("Edit mhs gagal");
    } else {
        header ("location: mhs.php");
    }
}
if (isset($_POST['submit-delete'])) {
    $nem = $_POST['nem'];
    $sql = "DELETE FROM mhs WHERE npm='$nem'";
    if (!conn->query($sql)) {
        die ("hapus mhs gagal");
    } else {
        header ("location: mhs.php");
    }
}

```


file PHP untuk proses data dengan nama MK.php, PDR.

file PHP

```

include 'koneksi.php';
if (isset($_POST['mk-add'])) {
    $kode = $_POST['kode'];
    $nama = $_POST['nama'];
    $sql = "INSERT INTO mk (kode,nama)
            VALUES ('$kode','$nama')";
    if ($conn->query($sql)) {
        die ('Tambah data berhasil');
    } else {
        header ("location: mk.php");
    }
}

if (isset($_POST['mk-edit'])) {
    $kode = $_POST['kode'];
    $nama = $_POST['nama'];
    $sql = "UPDATE mk SET nama='$nama' WHERE kode='$kode'";
    if ($conn->query($sql)) {
        die ('Edit data berhasil');
    } else {
        header ("location: mk.php");
    }
}

if (isset($_POST['mk-delete'])) {
    $kode = $_POST['kode'];
    $sql = "DELETE FROM mk WHERE kode='$kode'";
    if ($conn->query($sql)) {
        die ('Hapus data berhasil');
    } else {
        header ("location: mk.php");
    }
}

```

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pre path menampilkkan date dengan nama fa.php

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```
?php  
include "header.php";  
include "index.php";
```

```
?>   
<!DOCTYPE html>  
<html>  
<head>  
<title> Tambah Data Mahasiswa </title>  
</head>  
<body>  
<tr align="center"> Tambah Mahasiswa </tr>  
<a href="ta.php"> Tambah </a> | <a href="ta-add.php"> TAMBAH </a>  
<table width="100%" border="1">  
<thead>  
<tr> <th width="20%"> NO. </th>  
<th width="50%"> NAMA </th>  
<th width="15%"> ID </th>  
<th width="25%"> NIM </th>  
</tr>  
</thead>  
<tbody>  
<?php  
$sql = "SELECT * FROM ta";  
$res = $conn->query($sql);  
if ($res->num_rows > 0) {  
    $i = 0;  
    while ($dat = $res->fetch_assoc()) {  
        $i++;  
        echo "<tr align='center'>  
            <td>" . $dat["id"] . "</td>  
            <td>             <td> " . $dat["nama"] . "</td>  
            <td> " .  
        }  
    }  
</tbody>  
</table>  
</body>  
</html>
```

MC PHP Maka menambah Data dengan nomer b. add.php

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```
<!DOCTYPE html>
<html>
<head>
<title> Tahn Academic Add </title>
<head>
<body>
<a href="#">Logout </a> | <a href="#"> New-add. page </a>
<br>
<form name="myform" action="add-processor.php" method="post">
    ID <br>
    <input type="text" name="id" id="id">
    <br> Name <br>
    <input type="submit" name="ta-add" id="ta-add" value="Simple" >
</form>
</body>
</html>
```

file PHP untuk ~~menyimpan~~ menyediakan data dengan nama for-Hotel-PHP

```

if PHP
    include 'koneksi.php';
    $id = $_GET['id'];
    $sql = "SELECT * FROM ta WHERE id = '$id'";
    $res = mysqli_query($sql);
    $dat = $res->fetch_assoc();

```

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```

<!DOCTYPE html>
<html>
    <head>
        <title> Edit & Add </title>
    </head>
    <body>
        <a href="ta-add.php">Tambah </a>
        <br>
        <form name="myform" action="ta-proc.php" method="post">
            <input type="text" name="id" value="{$dat['id']}"/>
            <input type="text" name="nama" id="nama" size="30" value="{$dat['nama']}"/>
            <input type="submit" name="ta-edit" id="ta-edit" value="Perbarui"/>
            <input type="submit" name="ta-delete" id="ta-delete" value="Hapus"/>
        </form>
    </body>
</html>

```

```
file.php archive 'koneksi.php';
if (isset($_POST['ta-add'])) {
    $id = $_POST['id'];
    $nama = $_POST['nama'];
    $sql = "INSERT INTO ta VALUES ('$id', '$nama')";
    if ($conn->query($sql)) {
        die ('tambah berhasil');
    } else {
        header ("location: ta.php");
    }
}

if (isset($_POST['ta-edit'])) {
    $id = $_POST['id'];
    $nama = $_POST['nama'];
    $sql = "UPDATE ta SET nama = '$nama' WHERE id = '$id'";
    if ($conn->query($sql)) {
        die ('Edit berhasil');
    } else {
        header ("location: ta.php");
    }
}

if (isset($_POST['ta-delete'])) {
    $id = $_POST['id'];
    $sql = "DELETE FROM ta WHERE id = '$id'";
    if ($conn->query($sql)) {
        die ('hapus berhasil');
    } else {
        header ("location: ta.php");
    }
}
```

```

<?php
    include 'KONEKSI.PHP';
    include 'index.php';

?>
<!DOCTYPE html>
<html>
<head>
<title> KRS </title>
</head>
<body>
    <h2 align="center"> KRS </h2>
    <a href="#"> KRS.PHP </a> | <a href="#"> KRS-Add.PHP </a> | tambah </a>
    <table width="100%" border="1">
        <thead>
            <tr> <th width="20%"> NO. </th>
                <th width="15%"> ACT. </th>
                <th width="15%"> ID </th>
                <th width="15%"> MHS-NPM </th>
                <th width="15%"> MK-KODE </th>
                <th width="15%"> SEM </th>
                <th width="15%"> TA-S2 </th>
                <th width="15%"> NILAI </th>
            </tr>
        </thead>
        <tbody>
            <?php
                $sql = "SELECT * FROM KRS";
                $res = $conn->query($sql);
                if ($res->num_rows > 0) {
                    $i = 0;
                    while ($dat = $res->fetch_assoc()) {
                        $i++;
                        echo "<tr align='center'>
                            <td><td>
                            <td><a href='KRS-Details.php?id=$dat[id]'> Edit </a> </td>
                            <td> $dat[id] </td>
                            <td> $dat[mhs-npm] </td>
                            <td> $dat[mk-kode] </td>
                            <td> $dat[sem] </td>
                            <td> $dat[ta-s2] </td>
                            <td> $dat[nilai] </td>
                        </tr>" ;
                }
            </tbody>
            </table>
            </body>
        </html>
    
```

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untuk menambah data dengan nama KRS-add-PHP

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```
<?php
include "koneksi.php";
?>
<!DOCTYPE html>
<html>
<head>
<title> KRS </title>
</head>
<body>
<h2> Tambah Data KRS </h2>
<a href="krs.php">Home </a> | <a href="krs_add.php">Tambah </a>
<br>
<form action = "krs_proc.php" method = "post">
<br>
<input type="text" name="id"> <br>
mas-npm <br>
<select name = "mas-npm">
<br>
<?php
$sql = "SELECT * FROM mas";
$res = $conn->query($sql);
while ($rows = $res->fetch_array(MYSQLI_BOTH)) {
    echo "<option value = '".$rows['npm']."'". $rows['name']. "</option>";
}
?>
<select>
mk-kode <br>
<select name = "mk-kode">
<br>
$sql = "SELECT * FROM mk";
$res = $conn->query($sql);
while ($rows = $res->fetch_array(MYSQLI_BOTH)) {
    echo "<option value = '".$rows['kode']."'". $rows['kode']. "</option>";
}
?>
<select><br>
sem <br>
<input type="text" name = "sem"> <br>
ta-id <br>
<select name = "ta-id">
<br>
<?php
$sql = "SELECT * FROM ta";
$res = $conn->query($sql);
while ($rows = $res->fetch_array(MYSQLI_BOTH)) {
    echo "<option value = '".$rows['ta']."'". $rows['name']. "</option>";
}
?>
<select><br>
nilai <br>
<input type="text" name = "nilai"> <br>
<input type = "submit" name = "krs-add" value = "Simpan">
</form>
</body>
</html>
```

file PHP mengedit data KRS dengan nome KRS-Edit.php

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```
<?php
include "koneksi.php";
$fd = fopen ("fd");
$qd = "SELECT * FROM KRS WHERE id = '$id'";
$res = $conn->query($qd);
$row = $res->fetch_array(MYSQL_BOTH);

<?php
header("Content-Type: text/html");
echo "<html><head><title> KRS Edit </title></head><body><h2> KRS Edit </h2>
<a href = \"KRS.php\"> Lihat </a> <a href = \"KRS-add.php\"> Tambah </a>
<br>
<form action = \"KRS-proc.php\" method = \"post\">
<input type = \"text\" name = \"id\" value = \"$id\" >
<br> MHS-NPM <br>
<select name = \"mhs-npm\">
<?php
    $sql = "SELECT * FROM mhs";
    $res = $conn->query($sql);
    while ($mhs = $res->fetch_array(MYSQL_BOTH)) {
        if ($mhs['npm'] == $row['mhs-npm']) {
            $select = 'selected = "selected"';
        } else {
            $select = '';
        }
        echo "<option value = \"$mhs['npm']\" $select>". $mhs['npm']. "-". $mhs['nama']. "</option>";
    }
    ?>
</select>
<br>
MK-Kode <br>
<select name = \"mk-kode\">
<?php
    $sql = "SELECT * FROM MK";
    $res = $conn->query($sql);
    while ($mk = $res->fetch_array(MYSQL_BOTH)) {
        if ($mk['kode'] == $row['mk-kode']) {
            $select = 'selected = "selected"';
        } else {
            $select = '';
        }
        echo "<option value = \"$mk['kode']\" $select>". $mk['kode']. "-". $mk['nama']. "</option>";
    }
    ?>
sem <br>
<input type = "text name = \"sem\" value = \"$row['sem']\" >
<br>
```

```

<?php
$select name = "tbl_id" >
$tbl = "SELECT * FROM $tbl";
$rcs = $conn->query($tbl);
while ($tar = $rcs->fetch_array(MYSQLI_ASSOC)) {
    if ($tbl['fd'] == $row['ta_id']) {
        $select = 'selected="selected"';
    } else {
        $select = '';
    }
    echo "<option value=\"$tbl['fd']\" $select> $tbl['fd'] - $tbl['name']</option>";
}
?>
<select><br>
<input type="text" name="tbl_id" value="$row['tbl_id']"><br>
<input type="submit" name="tbl-edit" value="PERBAIKAN">
<input type="submit" name="tbl-delete" value="HAPUS"
onclick="return confirm('Yakin menghapus data ini ?')">
</form>
</div>
</table>

```

MC PHP Memproses Data dengan nama KRS-POL-PHP

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if PHP include 'koneksi.php';

if isset(\$_POST['krs-add']) {

\$fd = \$_POST['fd'];
\$mhs_npm = \$_POST['mhs-npm'];
\$mk_kode = \$_POST['mk-kode'];
\$sem = \$_POST['sem'];
\$ta_id = \$_POST['ta_id'];
\$matak = \$_POST['matak'];
\$sql = "INSERT INTO krs(fd,mhs_npm,mk_kode,sem,ta_id,matak) VALUES ('\$fd','\$mhs_npm','\$mk_kode','\$sem','\$ta_id','\$matak')";
if (\$conn->query(\$sql)) {
 die("Tambah krs gagal");
} else {
 header("location: krs.php");
}

}

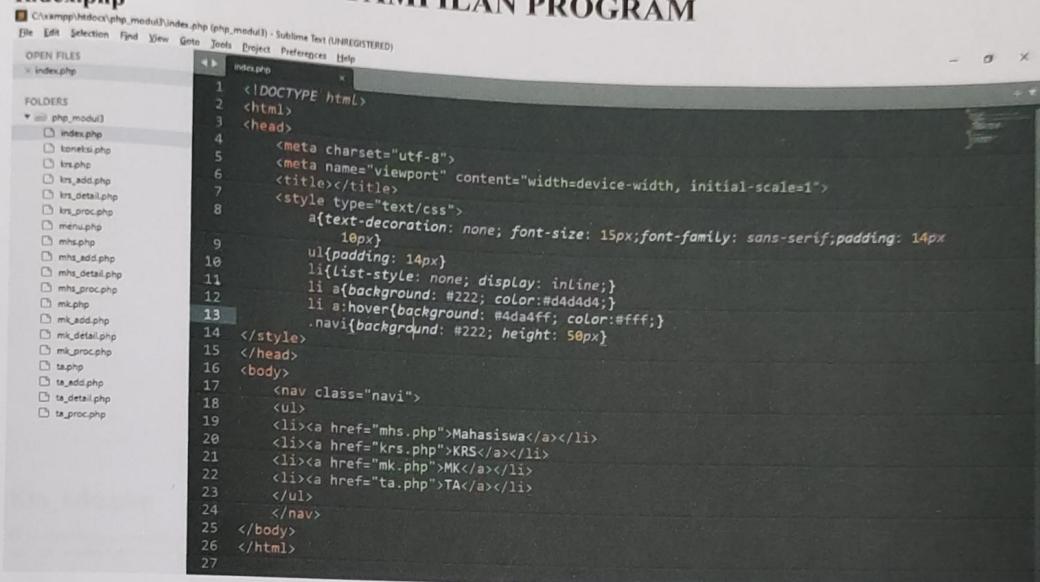
if (isset(\$_POST['krs-edit'])) {
 \$id = \$_POST['id'];
 \$mhs_npm = \$_POST['mhs-npm'];
 \$mk_kode = \$_POST['mk-kode'];
 \$sem = \$_POST['sem'];
 \$ta_id = \$_POST['ta_id'];
 \$matak = \$_POST['matak'];
 \$sql = "UPDATE krs SET mhs_npm='\$mhs_npm', mk_kode='\$mk_kode', sem='\$sem', ta_id='\$ta_id', matak='\$matak' WHERE id='\$id'";
 if (\$conn->query(\$sql)) {
 die("Edit krs gagal");
 } else {
 header("location: krs.php");
 }
}

if (isset(\$_POST['krs-delete'])) {
 \$id = \$_POST['id'];
 \$sql = "DELETE FROM krs WHERE id='\$id'";
 if (\$conn->query(\$sql)) {
 die("Hapus krs gagal");
 } else {
 header("location: krs.php");
 }
}

}

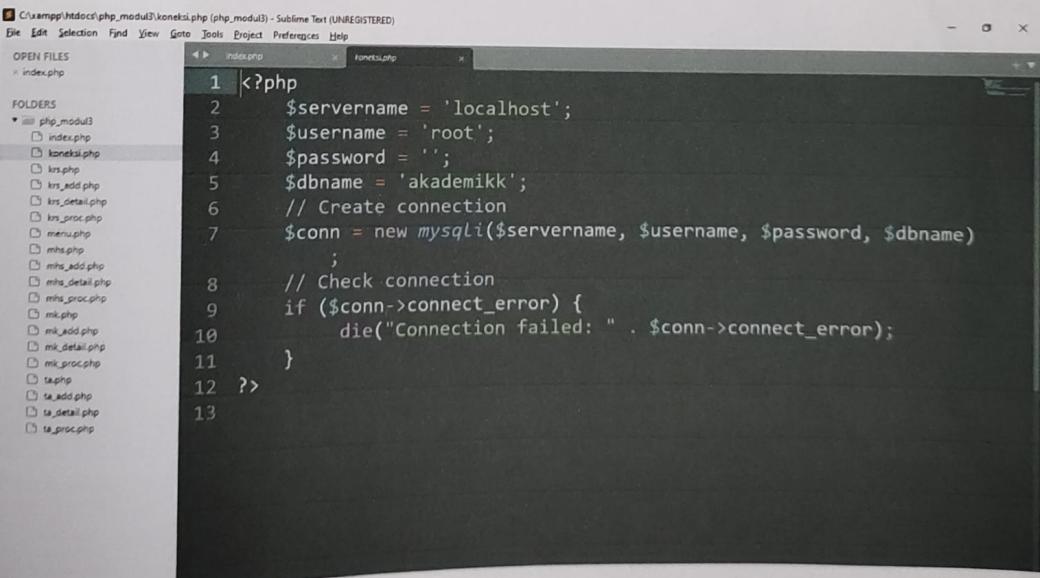
III TAMPILAN PROGRAM

Index.php



```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title></title>
    <style type="text/css">
        a{text-decoration: none; font-size: 15px;font-family: sans-serif;padding: 14px 18px}
        ul{padding: 14px}
        li{list-style: none; display: inline;}
        li a{background: #222; color: #d4d4d4; }
        li a:hover{background: #4da4ff; color:#fff; }
        .navi{background: #222; height: 50px}
    </style>
</head>
<body>
    <nav class="navi">
        <ul>
            <li><a href="mhs.php">Mahasiswa</a></li>
            <li><a href="krs.php">KRS</a></li>
            <li><a href="mk.php">MK</a></li>
            <li><a href="ta.php">TA</a></li>
        </ul>
    </nav>
</body>
</html>
```

Koneksi.php



```
<?php
$servername = 'localhost';
$username = 'root';
$password = '';
$dbname = 'akademikk';
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname)
        ;
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

Menu.php



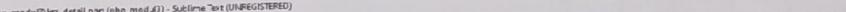
```
<a href="mhs.php">LIHAT</a> | <a href="mhs_add.php">TAMBAH</a>
```

Krs.php

Krs_add.php

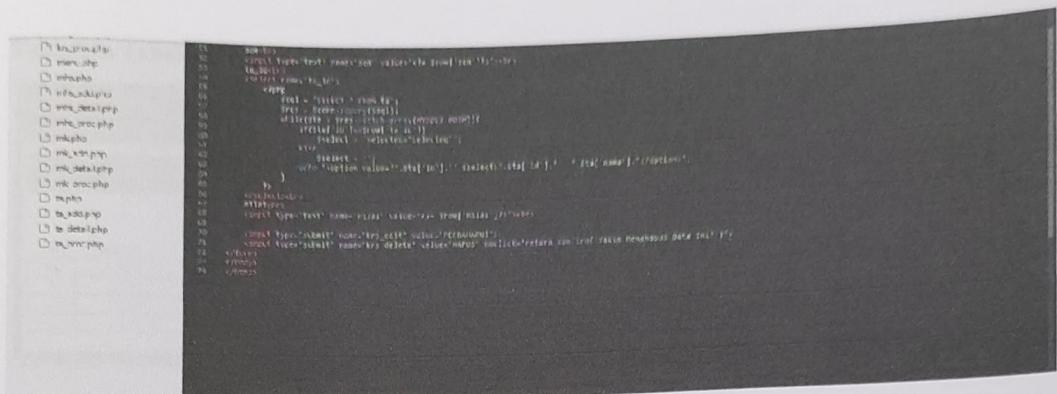
Krs_proc.php

Krs detail.php



A screenshot of the Sublime Text code editor. The title bar shows the path "C:\xampp\htdocs\php_modul\vers1_detail.php (php_modul)" and the status bar indicates "Sublime Text (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, Data, Tools, Projects, Preferences, Help. The left sidebar shows "OPEN FILES" with "vers1.php" listed. The main editor area contains the following PHP code:

```
1 <?php
2 include('includes/header.php');
3
4 <?php
```

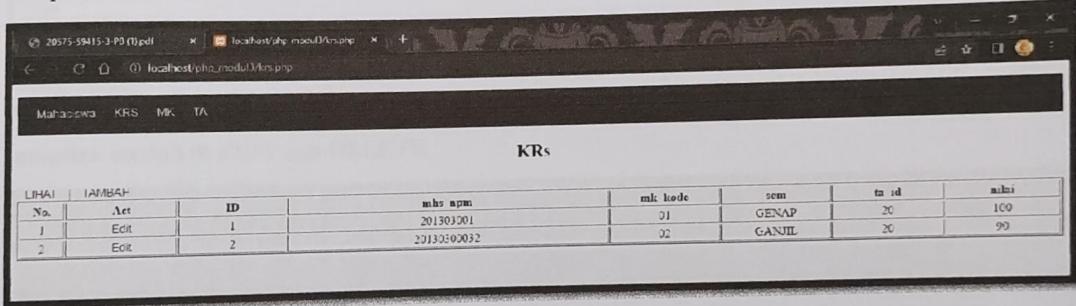


```
1<?php
2    $aksi = $_POST['aksi'];
3    $id = $_POST['id'];
4    $mhs_apm = $_POST['mhs_apm'];
5    $mk_kode = $_POST['mk_kode'];
6    $sem = $_POST['sem'];
7    $ta_id = $_POST['ta_id'];
8    $nilai = $_POST['nilai'];
9
10   if($aksi == "simpan") {
11       $sql = "INSERT INTO krs SET id=$id, mhs_apm='$mhs_apm', mk_kode='$mk_kode', sem=$sem, ta_id=$ta_id, nilai=$nilai";
12       $query = mysqli_query($conn, $sql);
13       if($query) {
14           echo "Data berhasil disimpan";
15       } else {
16           echo "Data gagal disimpan";
17       }
18   } elseif ($aksi == "edit") {
19       $sql = "UPDATE krs SET mhs_apm='$mhs_apm', mk_kode='$mk_kode', sem=$sem, ta_id=$ta_id, nilai=$nilai WHERE id=$id";
20       $query = mysqli_query($conn, $sql);
21       if($query) {
22           echo "Data berhasil diupdate";
23       } else {
24           echo "Data gagal diupdate";
25       }
26   } elseif ($aksi == "hapus") {
27       $sql = "DELETE FROM krs WHERE id=$id";
28       $query = mysqli_query($conn, $sql);
29       if($query) {
30           echo "Data berhasil dihapus";
31       } else {
32           echo "Data gagal dihapus";
33       }
34   }
35 }
```

Tampilan Index



Tampilan Tabel Krs



KRS							
LHAI	TAMBAH	ID	mhs_apm	mk_kode	sem	ta_id	nilai
No.	Add	1	201303001	01	GENAP	20	100
1	Edit	2	2013030032	02	GANJIL	20	90
2	Edit						

Tampilan Form ADD KRs



A screenshot of a web browser window titled "localhost/php_modul3/krs_add.php". The address bar shows "localhost/php_modul3/krs_add.php". The page title is "Tambah Data KRS". The form contains fields for: ID (dropdown menu), mhs_apm (dropdown menu), mk_kode (dropdown menu), sem (dropdown menu), ta_id (dropdown menu), and nilai (text input). A "SIMPAN" button is at the bottom.

Tampilan Tabel setelah di ADD

No.	Act	ID	mhs_npm	mk_kode	sem	ta_id	nilai
1	Edit	1	201303001	01	GENAP	20	100
2	Edit	2	2013030032	02	GANJIL	20	99
3	Edit	11	2013030008	02	GENAP	19	99

Tampilan form EDIT dan DELETE

KRS Edit

Lihat | TAMBAH

ID
11

mhs_npm
201303008 - edel kau

mk_kode
06-ADC

sem
GENAP

ta_id
19 2019

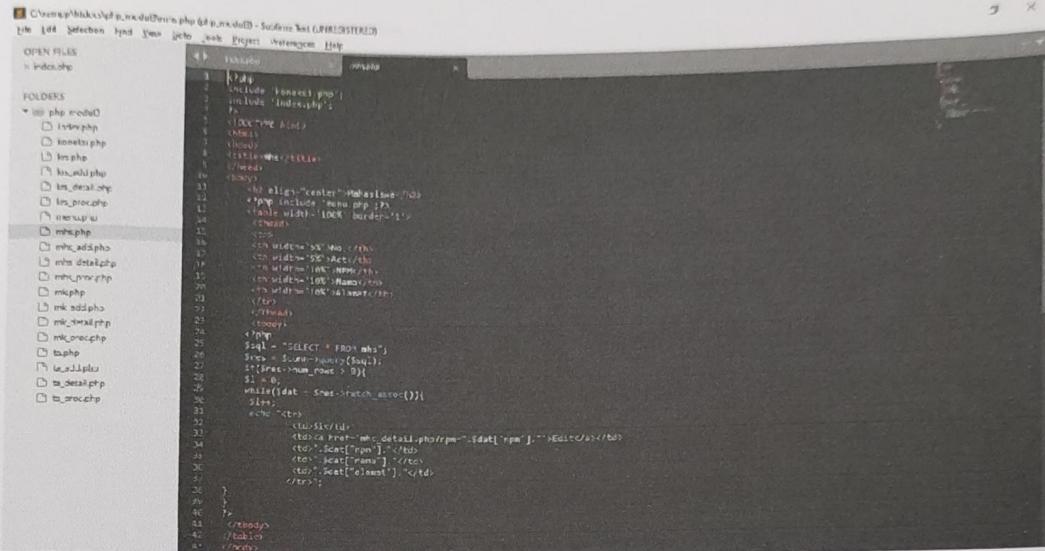
nilai
80

PERBAHKARU HAPUS

Tampilan setelah di EDIT dan DELETE

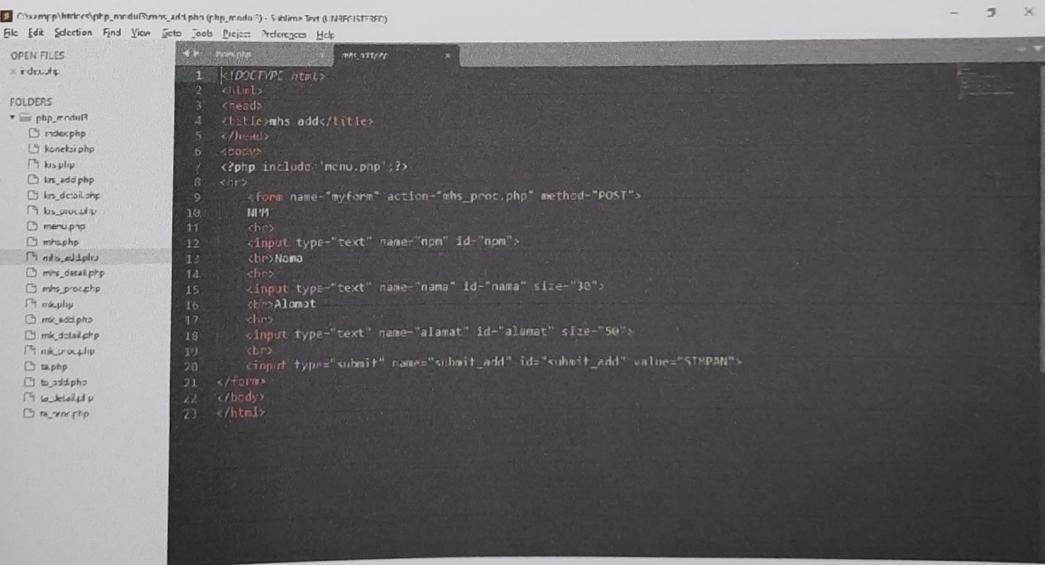
No.	Act	ID	mhs_npm	mk_kode	sem	ta_id	nilai
1	Edit	1	201303001	01	GENAP	20	100
2	Edit	11	201303008	06	GENAP	19	80

Mhs.php



```
1 <?php
2     include 'koneksi.php';
3     include 'Index.php';
4     <?php include 'menu.php';?
5     <table border="1">
6         <tr>
7             <td align="center">
8                 <?php include 'menu.php';?
9                 <table width="100%" border="1">
10                     <tr>
11                         <td align="center">
12                             <?php
13                                 $sql = "SELECT * FROM mhs";
14                                 $res = $con->query($sql);
15                                 if($res->num_rows > 0){
16                                     $i = 0;
17                                     while($data = $res->fetch_assoc()){
18                                         $i++;
19                                         <tr>
20                                             <td align="center">Edit</td>
21                                             <td align="center">Delete</td>
22                                         </tr>
23                                     }
24                                 }
25                         </td>
26                     </tr>
27                 </table>
28             </td>
29         </tr>
30     </table>
31     </body>
32 </html>
```

Mhs_add.php



```
1 <?php
2     include 'koneksi.php';
3     <?php include 'menu.php';?
4     <?php
5         $sql = "SELECT * FROM mhs";
6         $res = $con->query($sql);
7         if($res->num_rows > 0){
8             $i = 0;
9             while($data = $res->fetch_assoc()){
10                 $i++;
11                 <tr>
12                     <td align="center">Edit</td>
13                     <td align="center">Delete</td>
14                 </tr>
15             }
16         }
17     </table>
18     </body>
19 </html>
```

Mhs_detail.php

Mhs_proc.php

Tabel Mahasiswa

A screenshot of a web browser window displaying a table titled "Mahasiswa". The table has columns for No., Nama, Alamat, and NPM. There are four rows of data.

No.	Nama	Alamat	NPM
1	Edu	KEDIRI	2013030032
2	Edu	surabaya	2013030008
3	Edu	kediri	201303001
4	Edu	jago	201303009

Form ADD data MAHASISWA

A screenshot of a web browser window showing a form titled "LIHAT | TAMBAH". The form includes fields for "Nama" and "Alamat", and a "SIMPAN" button.

LIHAT | TAMBAH

NPM

Nama

Alamat

SIMPAN

Form EDIT dan DELETE

A screenshot of a web browser window showing a form titled "LIHAT | TAMBAH". The form displays "NPM" (20130300032), "Nama" (Ana), "Alamat" (KEDIRI), and two buttons: "PERBAHARUI" and "HAPUS".

LIHAT | TAMBAH

NPM

20130300032

Nama

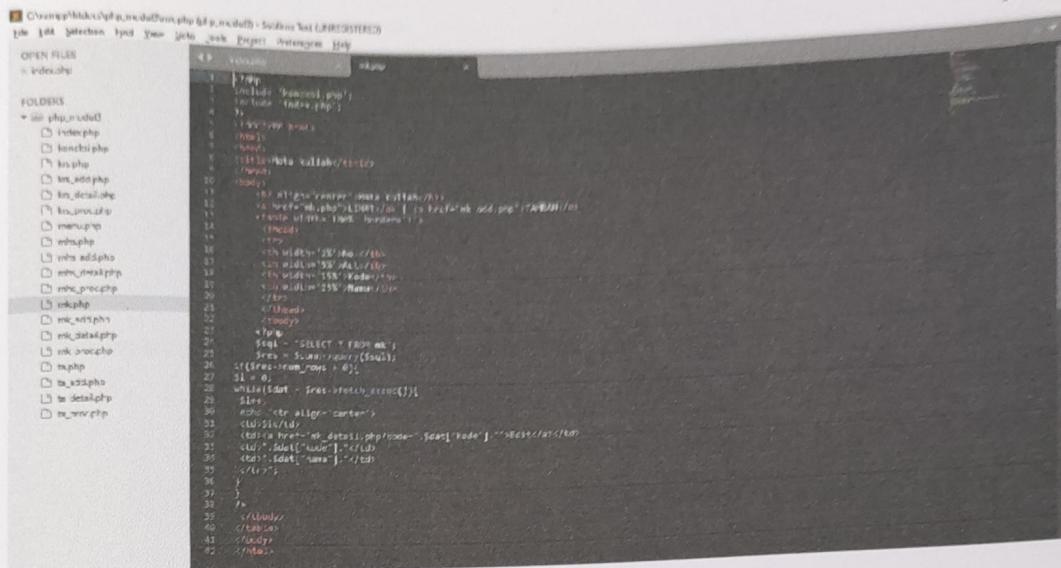
Ana

Alamat

KEDIRI

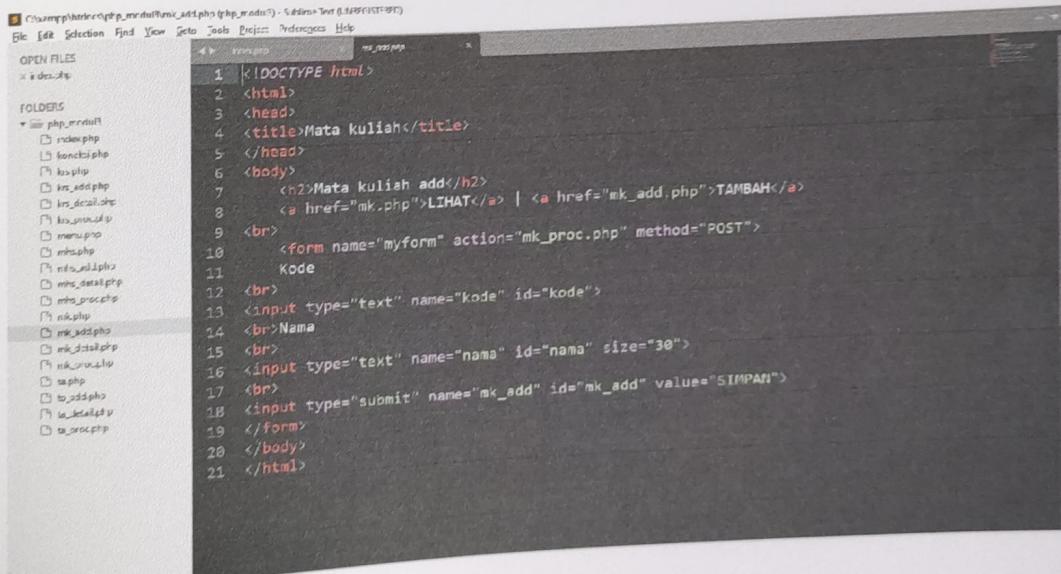
PERBAHARUI HAPUS

Mk.php



```
1 <?php
2 include 'koneksi.php';
3 include 'fungsi.php';
4 $sql = "SELECT * FROM mk";
5 $res = mysqli_query($sql);
6 if($res->num_rows > 0){
7     while($data = $res->fetch_assoc()){
8         echo "<tr align='center'>";
9         echo "<td>" . $data['kode'] . "</td>";
10        echo "<td>" . $data['nama'] . "</td>";
11        echo "<td>" . $data['kredit'] . "</td>";
12        echo "<td>" . $data['semester'] . "</td>";
13        echo "<td>" . $data['deskripsi'] . "</td>";
14        echo "<td>" . $data['status'] . "</td>";
15        echo "<td>" . $data['tambah'] . "</td>";
16        echo "<td>" . $data['edit'] . "</td>";
17        echo "<td>" . $data['hapus'] . "</td>";
18        echo "</tr>";
19    }
20 }
21 </table>
22 </body>
23 </html>
24 
```

Mk_add.php



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Mata Kuliah</title>
5 </head>
6 <body>
7     <h2>Mata Kuliah add</h2>
8     <a href="mk.php">LIHAT</a> | <a href="mk_add.php">TAMBAH</a>
9     <br>
10    <form name="myform" action="mk_proc.php" method="POST">
11        Kode
12        <br>
13        <input type="text" name="kode" id="kode">
14        <br>
15        Nama
16        <br>
17        <input type="text" name="nama" id="nama" size="30">
18        <br>
19        <input type="submit" name="mk_add" id="mk_add" value="SIMPAN">
20    </form>
21 </body>
22 </html>
```

Mk_proc.php

```
1 <?php
2 include 'koneksi.php';
3 if($_POST){ //POST[ukuran]
4 $kode = $_POST['kode'];
5 $nama = $_POST['nama'];
6 $sql = "INSERT INTO mk(kode,nama)";
7 $val = "VALUES('$kode','$nama')";
8 }
9 if($_POST['aksi']=='edit'){
10 $id = $_POST['id'];
11 $kode = $_POST['kode'];
12 $nama = $_POST['nama'];
13 $sql = "UPDATE mk SET nama='$nama' WHERE kode='$kode'";
14 }
15 if($_POST['aksi']=='hapus'){
16 $id = $_POST['id'];
17 $kode = $_POST['kode'];
18 $sql = "DELETE FROM mk WHERE kode='$kode'";
19 }
20 if($conn->query($sql)){
21 die("Tulisan Berhasil");
22 }else{
23 die("Tulisan gagal");
24 }
25 header('Location: mk.php');
26 }
27 if(isset($_POST['mk_edit'])){
28 $kode = $_POST['kode'];
29 $sql = "DELETE FROM mk WHERE kode='$kode'";
30 if($conn->query($sql)){
31 die("Hapus Tahan Pakadmit gagal");
32 }else{
33 die("Hapus Berhasil");
34 }
35 }
36 else{
37 header('Location: mk.php');
38 }
39 }
40 }
41 }
```

Mk_detail.php

```
1 <?php
2 include 'koneksi.php';
3 $kode = $_GET['kode'];
4 $sql = "SELECT * FROM mk WHERE kode='$kode'";
5 $res = $conn->query($sql);
6 $dat = $res->fetch_assoc();
7 ?>
8 <!DOCTYPE html>
9 <html>
10 <head>
11 <title>Mata Kuliah</title>
12 </head>
13 <body>
14 <h2>Mata Kuliah Edit</h2>
15 <a href="mk.php">LIHAT</a> | <a href="mk_add.php">TAMBAH</a>
16 <br>
17 <form name="myform" action="mk_proc.php" method="POST">
18 Kode
19 <br>
20 <input type="text" name="kode" id="kode" value=<?php echo $dat['kode']?>>
21 <br>Nama
22 <br>
23 <input type="text" name="nama" id="nama" size="30" value=<?php echo $dat['nama']?>>
24 <br>
25 <input type="submit" name="mk_edit" id="mk_edit" value="PERBAHKARUL">
26 <input type="submit" name="mk_delete" id="mk_delete" value="HAPUS">
27 </form>
28 </body>
29 </html>
```

Tabel MATAKULIAH

A screenshot of a web browser window displaying a table titled "Mata Kuliah". The table has columns for "No.", "Aktif", "Kode", and "Nama". There are six rows of data. The "Nama" column contains the names of the subjects: pemrograman basis data, inovasi teknologi, pemrograman web, riset operasi, praktik basis data, and ABC.

LIHAT TAMBAH		Kode	Nama
1	aktif	U1	pemrograman basis data
2	aktif	U2	inovasi teknologi
3	aktif	U3	pemrograman web
4	aktif	U4	riset operasi
5	aktif	U5	praktik basis data
6	aktif	U6	ABC

Form ADD data Matakuliah

A screenshot of a web browser window showing a form titled "Mata kuliah add". The form includes fields for "Kode" (with a placeholder "Masukkan Kode") and "Nama" (with a placeholder "Masukkan Nama"). Below the form is a "SIMPAN" button.

LIHAT | TAMBAH
Kode

Nama

SIMPAN

Form EDIT dan DELETE

A screenshot of a web browser window showing a form titled "Mata Kuliah Edit". The form displays the subject details for "Riset Operasi" (Kode: 04). It includes a "PERBAHARUI" button and a "HAPUS" button.

LIHAT | TAMBAH
Kode
04
Nama
riset operasi
PERBAHARUI | **HAPUS**

Ta.php

Ta_add.php

The screenshot shows a Windows desktop environment. In the foreground, there is a code editor window titled "Champlain\Public\php_modulRia\add.php (PHP, PHP_DRAFT) - Sublime Text (1,000,000 B)" containing the following PHP code:

```
<!DOCTYPE html>
<html>
<head>
<title>Tahun Akademik add</title>
</head>
<body>
<a href="ta.php">LIHAT</a> | <a href="ta_add.php">TAMBAH</a>
<br>
<form name="myform" action="ta_proc.php" method="POST">
ID
<br>
<input type="text" name="id" id="id">
<br>Nama
<br>
<input type="text" name="nama" id="nama" size="30">
<br>
<input type="submit" name="ta_add" id="ta_add" value="SIMPAN">
</form>
</body>
</html>
```

In the background, a file explorer window is open, showing a directory structure under "php_modulRia". The contents of the "index.php" file are visible in the preview pane.

Ta_detail.php

```
1 <?php
2 include 'koneksi.php';
3 $id = $_GET['id'];
4 $sql = "SELECT * FROM ta WHERE id='$id'";
5 $res = $conn->query($sql);
6 $dat = $res->fetch_assoc();
7 >
8 <!DOCTYPE html>
9 <html>
10 <head>
11 <ttitle>TA edit</ttitle>
12 </head>
13 <body>
14 <a href="ta.php">LIHAT</a> | <a href="ta_add.php">TAMBAHK</a>
15 <br>
16 <form name="myform" action="ta_proc.php" method="POST">
17 <b>ID</b>
18 <br>
19 <input type="text" name="id" id="id" value=<?php echo $dat['id']?>>
20 <br>
21 <b>Nama</b>
22 <br>
23 <input type="text" name="nama" id="nama" size="30" value=<?php echo $dat['nama']?>>
24 <br>
25 <input type="submit" name="ta_edit" id="ta_edit" value="PERBAIKAN" type="button">
26 <input type="submit" name="ta_delete" id="ta_delete" value="HAPUS" type="button">
27 </form>
28 </body>
29 </html>
```

Ta_proc.php

```
1 <?php
2 include 'koneksi.php';
3 if(isset($_POST['ta_edit'])) {
4     $id = $_POST['id'];
5     $name = $_POST['nama'];
6     $sql = "UPDATE ta SET nama='$name' WHERE id='$id'";
7     $res = $conn->query($sql);
8     if($res) {
9         header('location:ta.php');
10    }
11 }
12 if(isset($_POST['ta_delete'])) {
13     $id = $_POST['id'];
14     $name = $_POST['nama'];
15     $sql = "DELETE FROM ta WHERE id='$id'";
16     if($res) {
17         die("Anda telah berhasil hapus");
18     }
19 }
20 if(isset($_POST['ta_tambah'])) {
21     $name = $_POST['nama'];
22     $sql = "INSERT INTO ta(id,nama)
23             VALUES('$id','$name')";
24     $res = $conn->query($sql);
25     if($res) {
26         die("Anda berhasil tambah");
27     }
28 }
29 if(isset($_POST['ta_update'])) {
30     $id = $_POST['id'];
31     $name = $_POST['nama'];
32     $sql = "UPDATE ta SET nama='$name' WHERE id='$id'";
33     if($res) {
34         die("Anda berhasil update");
35     }
36 }
37 if(isset($_POST['ta_hapus'])) {
38     $id = $_POST['id'];
39     $name = $_POST['nama'];
40     $sql = "DELETE FROM ta WHERE id='$id'";
41     if($res) {
42         die("Anda berhasil hapus");
43     }
44 }
```

Tampilan Tabel Tahun Akademik

A screenshot of a web browser window displaying a table titled "Tahun Akademik". The table has two columns: "No." and "TA". The "No." column contains numbers 1 through 5, and the "TA" column contains years 2018, 2019, 2020, 2022, and 2021 respectively. There are also "Edit" links next to each row.

LIHAT	TAMBAH
No.	Act
1	Edit
2	Edit
3	Edit
4	Edit
5	Edit

Tahun Akademik

ID	Nama
18	2018
19	2019
20	2019
2022	2020
21	2021

Form ADD data Tahun Akademik

A screenshot of a web browser window showing a form for adding data. The form includes fields for "ID" (with placeholder "Nama") and "SIMPAN".

LIHAT | TAMBAH

ID
Nama
SIMPAN

Form EDIT dan DELETE

A screenshot of a web browser window showing a form for editing or deleting data. The form includes fields for "ID" (with placeholder "Nama"), "PERBAHARUI", and "HAPUS".

LIHAT | TAMBAH

ID
19
Nama
2019
PERBAHARUI HAPUS

BAB IV

KESIMPULAN

MySQL merupakan teknik pengaksesan terhadap database MySQL yang merupakan perkembangan terbaru.

Pada praktikum kali ini membuat database akademik yang memiliki tabel Mahasiswa, Mata Kuliah, KRS, dan Tahun Akademik. Masing-masing tabel memiliki hubungan yang berkaitan.

- Untuk table Mahasiswa berelasi dengan tabel KRS
berguna untuk memasukkan data mahasiswa menggunakan NPM sebagai Primary key.
- Untuk table Mata Kuliah berelasi dengan tabel KRS
berguna untuk menambahkan data mata kuliah pada KRS
- Untuk table Tahun Akademik berelasi dengan tabel KRS
berguna untuk menambahkan tahun ajaran pada KRS.