

PHPMYADMIN

PHP BASED MYSQL ADMINISTRATION TOOLS

Achmad Solichin

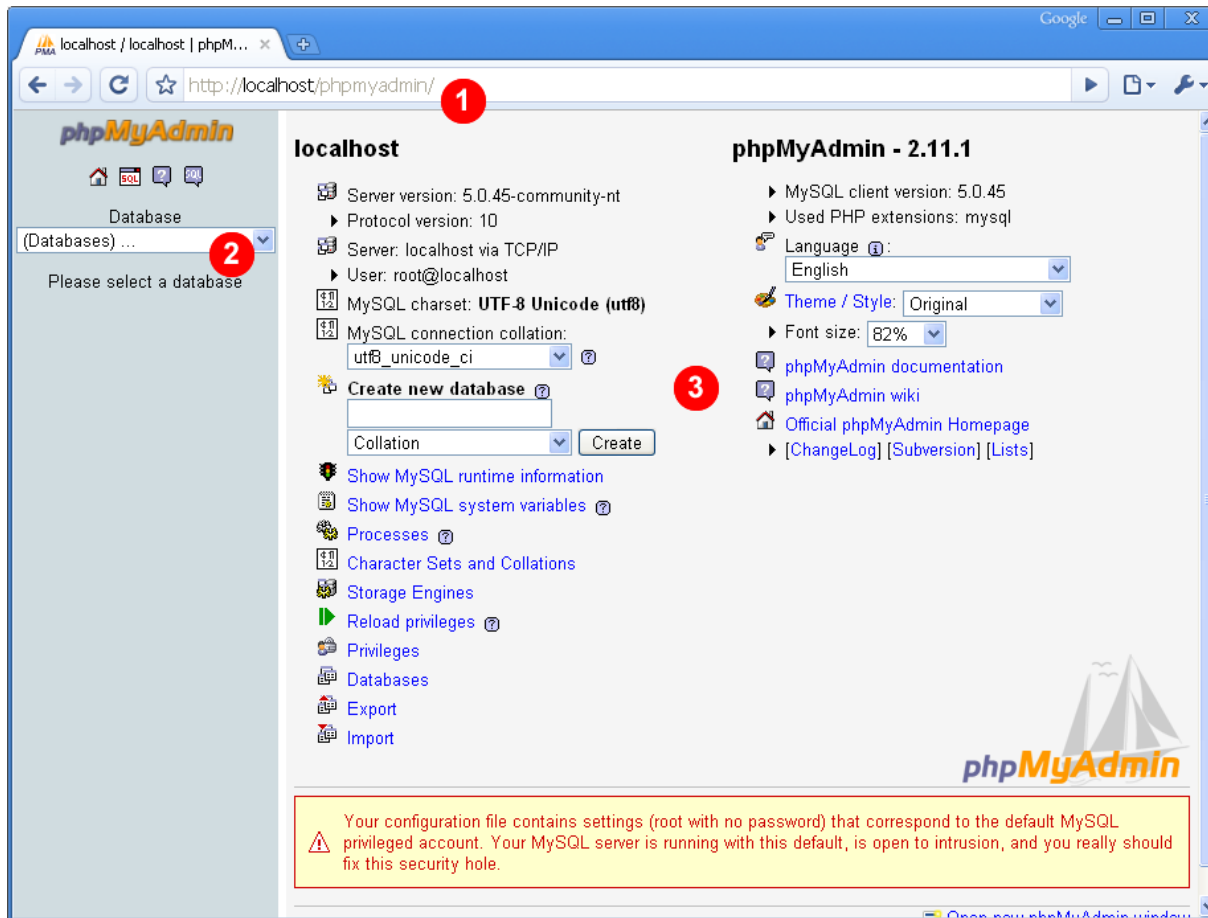
<http://achmatim.net>

SEKILAS PHPMYADMIN

- ◉ **Alat bantu** administrasi database MySQL.
- ◉ Berbasis web
- ◉ Mendukung PHP5
- ◉ Mendukung MySQL 4.x dan 5.x
- ◉ Open Source (Free download at <http://www.phpmyadmin.net>)
- ◉ Menjadi tools favorit di banyak penyedia hosting.

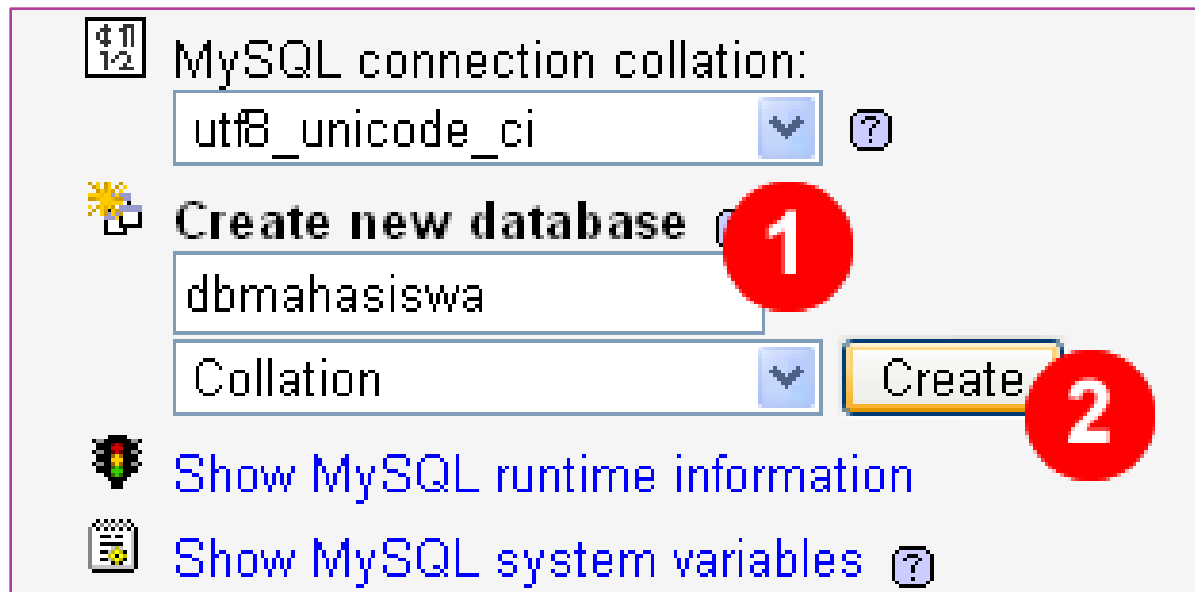
MENGAKSES PHPMYADMIN

1. Buka Browser dan ketikkan alamat dimana PHPMyAdmin berada.
2. Di layar sebelah kiri akan ditampilkan dropdown nama-nama database yang sudah ada.
3. Di bagian utama ditampilkan mengenai informasi server MySQL yang sedang aktif



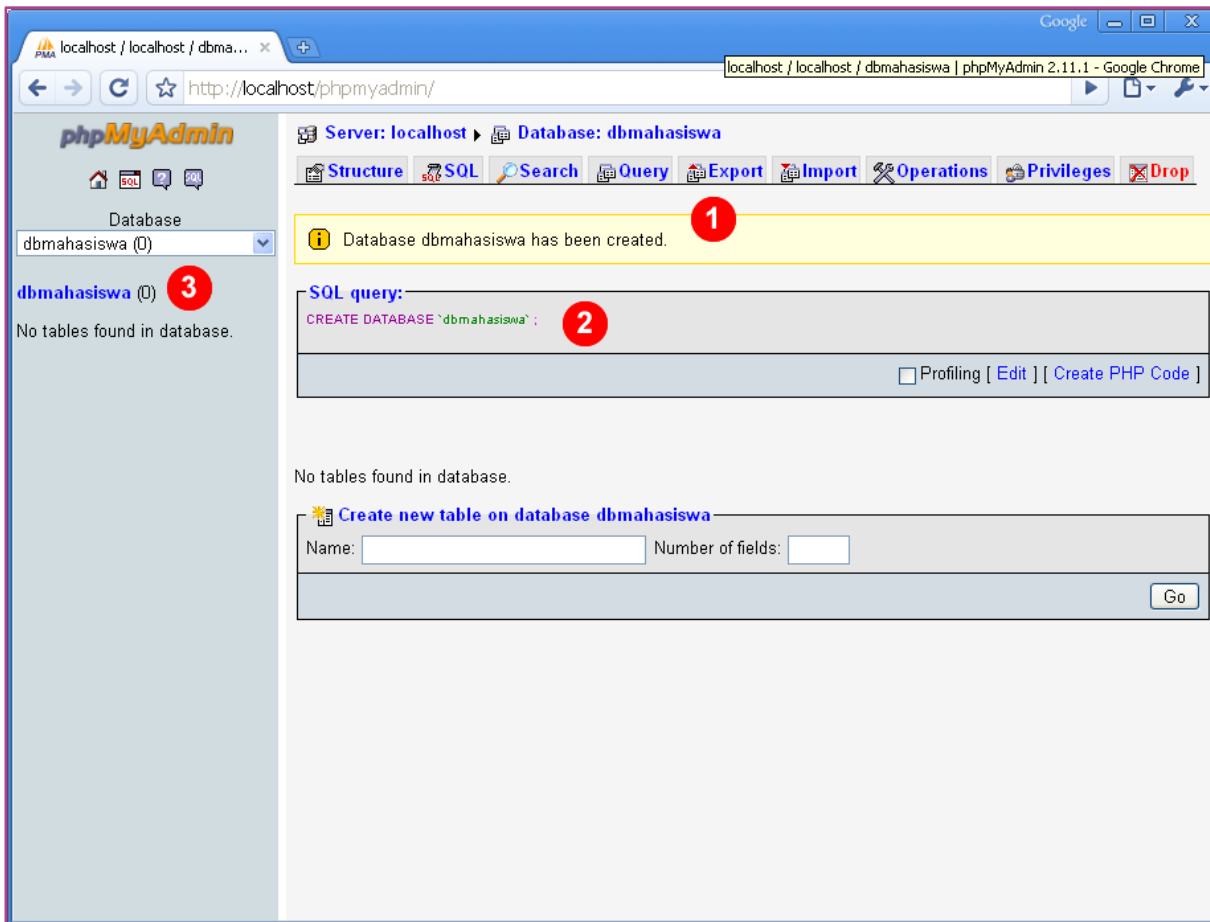
MEMBUAT DATABASE BARU (1)

1. Ketikkan nama database pada inputan teks yang sudah disediakan.
2. Klik tombol **Create**.



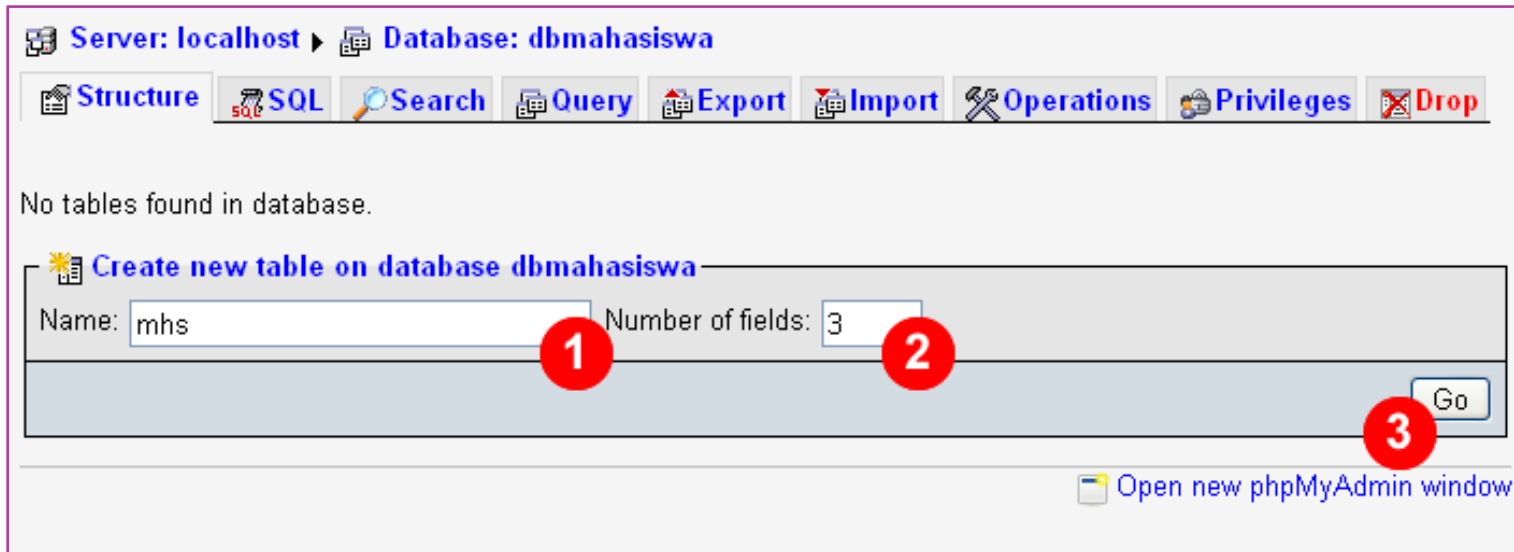
MEMBUAT DATABASE BARU (2)

1. Ditampilkan pesan bahwa database berhasil dibuat.
2. Perintah SQL untuk membuat database baru ditampilkan.
3. Nama database ditampilkan di menu bagian kiri



MEMBUAT TABEL BARU (1)

1. Ketikkan nama tabel di teks yang sudah tersedia
2. Tentukan jumlah field dari tabel yang akan dibuat
3. Klik tombol **Go**.



The screenshot shows the phpMyAdmin interface for a database named 'dbmahasiswa' on 'localhost'. The 'Structure' tab is active. Below the navigation menu, it states 'No tables found in database.' The 'Create new table on database dbmahasiswa' form is visible. The 'Name' field contains 'mhs' (annotated with a red circle '1'). The 'Number of fields' field contains '3' (annotated with a red circle '2'). A 'Go' button is located at the bottom right of the form (annotated with a red circle '3'). At the bottom right of the interface, there is a link: 'Open new phpMyAdmin window'.

MEMBUAT TABEL BARU (2)

1. Ketikkan nama, type dan panjang dari field pertama
2. Ketikkan nama, type dan panjang dari field kedua
3. Ketikkan nama, type dan panjang dari field ketiga
4. Jadikan field yang pertama (nim) sebagai **primary key**.
5. Klik tombol **Save**.

Server: localhost ▶ Database: dbmahasiswa ▶ Table: mhs





Field	nim	nama	alamat
Type	VARCHAR	VARCHAR	TEXT
Length/Values ¹	10	30	
Collation			
Attributes			
Null	not null	not null	not null
Default ²			
Extra			
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
---	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			

Table comments:

Storage Engine: MyISAM

Collation:

5 Save Or Add 1 field(s) Go

MEMBUAT TABEL BARU (3)

1. Ditampilkan konfirmasi tabel berhasil dibuat.
2. Perintah SQL untuk membuat tabel ditampilkan
3. Struktur tabel yang baru ditampilkan
4. Informasi lain berhubungan dengan tabel.

Server: localhost Database: dbmahasiswa Table: mhs

Table `dbmahasiswa`.`mhs` has been created. **1**

SQL query:

```
CREATE TABLE `dbmahasiswa`.`mhs` (  
  `nim` VARCHAR(10) NOT NULL ,  
  `nama` VARCHAR(30) NOT NULL ,  
  `alamat` TEXT NOT NULL ,  
  PRIMARY KEY (`nim`)  
) ENGINE = MYISAM
```

Profiling [Edit] [Create PHP Code]

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	nim	varchar(10)	latin1_general_ci		No			
<input type="checkbox"/>	nama	varchar(30)	latin1_general_ci		No			
<input type="checkbox"/>	alamat	text	latin1_general_ci		No			

Check All / Uncheck All With selected:

Print view Propose table structure

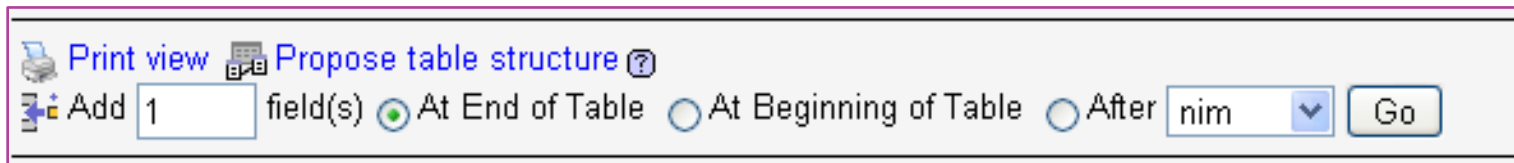
Add 1 field(s) At End of Table At Beginning of Table After nim

Indexes:				Space usage		Row Statistics		
Keyname	Type	Cardinality	Action	Field	Type	Usage	Statements	Value
PRIMARY	PRIMARY	0		nim	Data	0 B		
Create an index on 1 column(s) <input type="button" value="Go"/>					Index	0 B		
					Total	0 B		

2 **3** **4**

MENAMBAH FIELD BARU DI TABEL (1)

1. Tentukan jumlah field yang akan ditambahkan pada teks isian yang terdapat di bawah struktur tabel.
2. Tentukan posisi field yang akan ditambahkan
3. Klik tombol **Go**.



The screenshot shows a dialog box with the following elements:

- Buttons: Print view, Propose table structure ?
- Text: Add field(s)
- Radio buttons: At End of Table, At Beginning of Table, After
- Dropdown menu: nim
- Button: Go

MENAMBAH FIELD BARU DI TABEL (2)

1. Tentukan nama, tipe data dan panjang dari field yang akan ditambahkan.
2. Klik tombol Save.

Server: localhost Database: dbmahasiswa Table: mhs

Structure SQL Search Insert Export Import Operations Empty Drop

Field	tgllahir
Type	DATE
Length/Values ¹	
Collation	
Attributes	
Null	not null
Default ²	
Extra	
	<input type="radio"/>
	<input type="radio"/>
	<input type="radio"/>
---	<input checked="" type="radio"/>
	<input type="checkbox"/>
Comments	

Save Or Add 1 field(s) Go

MENAMBAH FIELD BARU DI TABEL (3)

1. Konfirmasi penambahan field baru ditampilkan.
2. Perintah SQL penambahan field baru ditampilkan.
3. Struktur tabel yang baru ditampilkan.

The screenshot shows the phpMyAdmin interface for a table named 'mhs' in the 'dbmahasiswa' database on a 'localhost' server. The interface includes a toolbar with options like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Operations', 'Empty', and 'Drop'. A yellow message box at the top states 'Table mhs has been altered.' with a red circle '1' next to it. Below this, the 'SQL query' section shows the command 'ALTER TABLE `mhs` ADD `tgllahir` DATE NOT NULL ;' with a red circle '2' next to it. At the bottom, a table structure view shows the updated fields: 'nim', 'nama', 'alamat', and 'tgllahir'. The 'tgllahir' field is highlighted with a red circle '3'. The table structure view includes columns for Field, Type, Collation, Attributes, Null, Default, Extra, and Action.

Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> nim	varchar(10)	latin1_general_ci		No			
<input type="checkbox"/> nama	varchar(30)	latin1_general_ci		No			
<input type="checkbox"/> alamat	text	latin1_general_ci		No			
<input type="checkbox"/> tgllahir	date			No			

Check All / Uncheck All With selected:

MELIHAT STRUKTUR TABEL

1. Klik menu **Structure** yang terdapat di menu navigasi sebelah atas.
2. Akan ditampilkan struktur tabel yang dipilih.
3. Informasi lain sehubungan dengan tabel juga ditampilkan

Server: localhost ▶ Database: dbmahasiswa ▶ Table: mhs

Navigation: [Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Empty](#) [Drop](#)

Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> nim	varchar(10)	latin1_general_ci		No			
<input type="checkbox"/> nama	varchar(30)	latin1_general_ci		No			
<input type="checkbox"/> alamat	text	latin1_general_ci		No			
<input type="checkbox"/> tgllahir	date			No			

Check All / Uncheck All With selected:

Print view [Propose table structure](#)

Add field(s) At End of Table At Beginning of Table After [Go](#)

Indexes: ?					Space usage		
Keyname	Type	Cardinality	Action	Field	Type	Usage	
PRIMARY	PRIMARY	4		nim	Data	304	B
Create an index on <input type="text" value="1"/> columns Go					Index	2,048	B
					Overhead	56	B
					Effective	2,296	B
					Total	2,352	B

[Optimize table](#)

MENAMBAH RECORD (DATA) KE TABEL (1)

1. Klik menu **Insert** pada navigasi sebelah atas.
2. Akan ditampilkan form isian data baru sesuai dengan struktur tabelnya. Isi data dengan benar.
3. Klik tombol **Go** untuk menyimpan record (data) ke tabel.

Server: localhost ▶ Database: dbmahasiswa ▶ Table: mhs

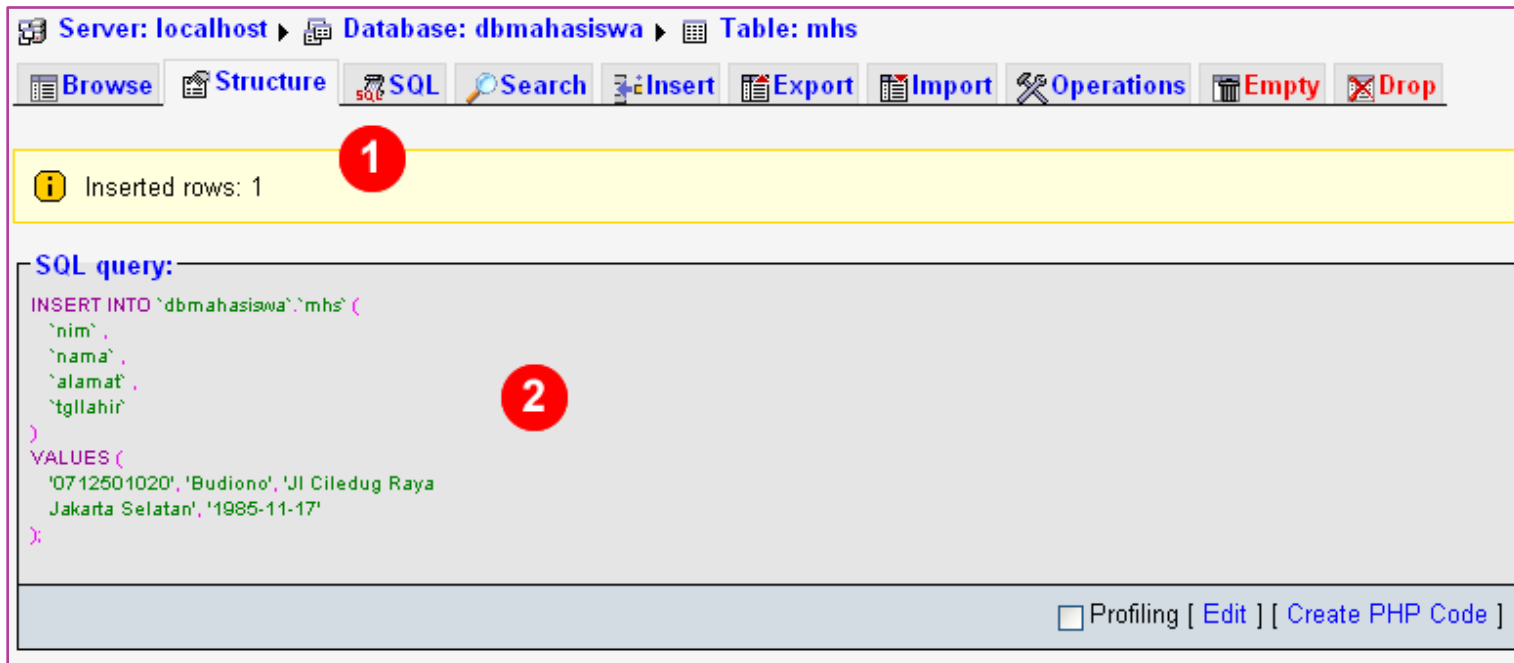
1 **Insert** | **Export** | **Import** | **Operations** | **Empty** | **Drop**

Field	Type	Function	Null	Value
nim	varchar(10)	<input type="text"/>		<input type="text" value="0712501020"/>
nama	varchar(30)	<input type="text"/>		<input type="text" value="Budiono"/>
alamat	text	<input type="text"/>		<input type="text" value="Jl Ciledug Raya
Jakarta Selatan"/>
tgllahir	date	<input type="text"/>		<input type="text" value="1985-11-17"/>

2 **Go** **3**

MENAMBAH RECORD (DATA) KE TABEL (2)

1. Konfirmasi jumlah record yang ditambahkan ditampilkan di layar.
2. Perintah SQL dari proses menambah data (insert) ke tabel ditampilkan. Pahamiilah.



The screenshot displays a database management interface with the following components:

- Server:** localhost
- Database:** dbmahasiswa
- Table:** mhs
- Navigation Menu:** Browse, Structure, SQL, Search, Insert, Export, Import, Operations, Empty, Drop.
- Confirmation Message:** A yellow banner at the top indicates "Inserted rows: 1", marked with a red circle containing the number "1".
- SQL Query:** A text area below the banner contains the following SQL command, marked with a red circle containing the number "2":

```
INSERT INTO `dbmahasiswa`.`mhs` (  
  `nim` ,  
  `nama` ,  
  `alamat` ,  
  `tgllahir`  
)  
VALUES (  
  '0712501020', 'Budiono', 'JI Ciledug Raya  
  Jakarta Selatan', '1985-11-17'  
);
```
- Footer:** A checkbox for "Profiling" followed by links for "Edit" and "Create PHP Code".

MENAMPILKAN DATA

1. Klik tombol **Browse** pada navigasi bagian atas.
2. Akan ditampilkan jumlah record (data) dan waktu eksekusi query.
3. Ditampilkan pula perintah SQL-nya.
4. Record (data) ditampilkan dalam bentuk tabel.

Server: localhost ▶ Database: dbmahasiswa ▶ Table: mhs

1 Browse Structure SQL Search Insert Export Import Operations Empty Drop

2 Showing rows 0 - 4 (5 total, Query took 0.0003 sec)

3 SQL query:
`SELECT *
FROM `mhs`
LIMIT 0, 30`

Profiling [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Show: 30 row(s) starting from record # 0
in horizontal mode and repeat headers after 100 cells
Sort by key: None


	nim	nama	alamat	tgllahir
<input type="checkbox"/>	0712501020	Budiono	Jl Ciledug Raya Jakarta Selatan	1985-11-17
<input type="checkbox"/>	0712500200	Luhur Palupi	Jl Dago Utara Bandung	1984-10-10
<input type="checkbox"/>	0711502022	Adinda	Jl. Raya Simpangan Semarang	1988-05-06
<input type="checkbox"/>	0611500100	Indy	Jl Ciledug Raya, Tangerang	1980-02-24
<input type="checkbox"/>	0612502988	Indro	Komplek Kunciaran Mas, Tangerang	1988-10-04

Check All / Uncheck All With selected:

Show: 30 row(s) starting from record # 0
in horizontal mode and repeat headers after 100 cells

4

MENGUBAH DATA (1)

Klik tombol  pada tabel data (record). Akan ditampilkan form ubah record dimana data yang lama sudah ditampilkan.

1. Ubah data yang akan dirubah.
2. Klik tombol **Go** untuk menyimpan perubahan.

Server: localhost Database: dbmahasiswa Table: mhs

Browser Structure SQL Search Insert Export Import Operations Empty Drop

Field	Type	Function	Null	Value
nim	varchar(10)	<input type="text"/>		0712501020
nama	varchar(30)	<input type="text"/>		Budianto
alamat	text	<input type="text"/>		Jl Ciledug Raya Jakarta Selatan
tgllahir	date	<input type="text"/>		1985-11-17

Go

Save and then Go back to previous page

Go Reset

1

2

MENGUBAH DATA (2)

1. Setelah perubahan disimpan akan ditampilkan informasi jumlah record yang berubah.
2. Perintah SQL untuk mengubah data ditampilkan.
3. Record setelah terjadi perubahan ditampilkan.

The screenshot shows the phpMyAdmin interface for a database named 'dbmahasiswa' and a table named 'mhs'. The interface includes a toolbar with options like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Operations', 'Empty', and 'Drop'. A yellow banner at the top indicates 'Affected rows: 1'. Below this, the SQL query is displayed: `UPDATE `dbmahasiswa`.`mhs` SET `nama` = 'Budianto' WHERE CONVERT(`mhs`.`nim` USING utf8) = '0712501020' LIMIT 1 ;`. A second yellow banner shows 'Showing rows 0 - 4 (5 total, Query took 0.0003 sec)'. The SQL query section shows: `SELECT * FROM `mhs` LIMIT 0 , 30`. At the bottom, there are controls for 'Show: 30 row(s) starting from record # 0 in horizontal mode and repeat headers after 100 cells Sort by key: None'. A table displays the results of the query:

	nim	nama	alamat	tgllahir
<input type="checkbox"/>	0712501020	Budianto	Jl Ciledug Raya Jakarta Selatan	1985-11-17
<input type="checkbox"/>	0712500200	Luhur Palupi	Jl Dago Utara Bandung	1984-10-10

MENGHAPUS DATA

1. Pada tampilan record, klik tombol X untuk record yang akan dihapus.
2. Akan ditampilkan konfirmasi penghapusan. Klik OK jika benar-benar ingin menghapus data dan klik Cancel jika ingin membatalkannya.

The screenshot shows a data table with columns: nim, nama, alamat, and tgllahir. The second row is highlighted in green. A red circle with the number '1' points to the 'X' delete icon in the first column of the second row. An 'Alert http://localhost/' dialog box is overlaid on the table, containing the text: 'Do you really want to : DELETE FROM `mhs` WHERE CONVERT(`mhs`.`nim` USING utf8) = '0712500200' LIMIT 1'. A red circle with the number '2' points to the 'OK' button in the dialog box. Below the table, there are controls for 'Show : 30 row(s) starting from record # 0' and 'in horizontal mode and repeat headers after 100 cells'.

			nim	nama	alamat	tgllahir
<input type="checkbox"/>			0712501020	Budianto	Jl Ciledug Raya Jakarta Selatan	1985-11-17
<input type="checkbox"/>			0712500200	Luhur Palupi	Jl Dago Utara Bandung	1984-10-10
<input type="checkbox"/>			07115020			
<input type="checkbox"/>			06115001			
<input type="checkbox"/>			06125029			

Alert http://localhost/

Do you really want to :
DELETE FROM `mhs` WHERE CONVERT(`mhs`.`nim` USING utf8)
= '0712500200' LIMIT 1

OK Cancel

Show : 30 row(s) starting from record # 0

in horizontal mode and repeat headers after 100 cells

MENJALANKAN PERINTAH SQL (1)

1. Klik menu **SQL** pada navigasi bagian atas.
2. Tuliskan perintah SQL pada area teks yang sudah disediakan.
3. Klik tombol **Go**.

The screenshot displays the phpMyAdmin interface for a database named 'dbmahasiswa' and a table named 'mhs'. The top navigation bar includes buttons for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Operations', 'Empty', and 'Drop'. The 'SQL' button is highlighted with a red circle and the number '1'. Below the navigation bar, the text 'Run SQL query/queries on database dbmahasiswa:' is followed by a text area containing the SQL query: 'SELECT * FROM `mhs` ORDER BY nim'. This text area is also highlighted with a red circle and the number '2'. To the right of the text area is a 'Fields' list containing 'nim', 'nama', 'alamat', and 'tgllahir'. At the bottom of the interface, there is a 'Go' button highlighted with a red circle and the number '3'. Below the 'Go' button, there is a checkbox labeled 'Show this query here again' which is checked, and a 'Delimiter' field set to semicolon (;). At the bottom right corner, there is a link that says 'Open new phpMyAdmin window'.

MENJALANKAN PERINTAH SQL (2)

1. Ditampilkan informasi eksekusi perintah SQL
2. Perintah SQL akan ditampilkan kembali
3. Akan ditampilkan hasil perintah SQL.

The screenshot shows a database management tool interface with the following components:

- Server:** localhost
- Database:** dbmahasiswa
- Table:** mhs
- Navigation Bar:** Browse, Structure, SQL, Search, Insert, Export, Import, Operations, Empty, Drop
- Status Bar:** Showing rows 0 - 4 (5 total, Query took 0.0005 sec) (1)
- SQL query:**

```
SELECT *
FROM `mhs`
ORDER BY nim
LIMIT 0 , 30
```

 (2)
- Options:** Profiling [Edit] [Explain SQL] [Create PHP Code] [Refresh]
- Display Settings:** Show: 30 row(s) starting from record # 0 in horizontal mode and repeat headers after 100 cells. Sort by key: None
- Table Results:** (3)

			nim	nama	alamat	tgllahir
<input type="checkbox"/>			0611500100	Indy	Jl Ciledug Raya, Tangerang	1980-02-24
<input type="checkbox"/>			0612502988	Indro	Komplek Kunciran Mas, Tangerang	1988-10-04
<input type="checkbox"/>			0711502022	Adinda	Jl. Raya Simpangan Semarang	1988-05-06
<input type="checkbox"/>			0712500200	Luhur Palupi	Jl Dago Utara Bandung	1984-10-10
<input type="checkbox"/>			0712501020	Budiono	Jl Ciledug Raya Jakarta Selatan	1985-11-17

MELAKUKAN PENCARIAN RECORD

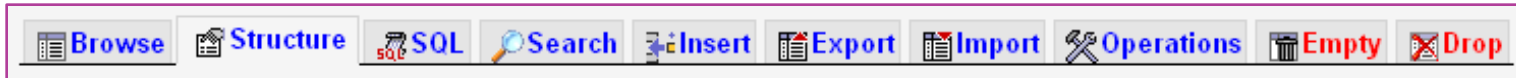
1. Pilih menu **Search** di bagian menu utama.
2. Pilih field yang akan ditampilkan
3. Tentukan jumlah baris per halaman dalam tampilan.
4. Pilih dasar pengurutan field
5. Tuliskan kondisi pencarian
6. Atau tentukan kondisi pencarian untuk masing-masing field
7. Pilih tombol **Go** untuk mengeksekusi pencarian

The screenshot shows a database search interface with the following components and annotations:

- 1**: Points to the **Search** menu item in the top toolbar.
- 2**: Points to the **Select fields (at least one):** dropdown menu containing 'nim', 'nama', 'alamat', and 'tglahir'.
- 3**: Points to the **Number of rows per page** input field, which contains the value '3'.
- 4**: Points to the **Display order:** dropdown menu, which is set to 'nim', and the **Ascending** radio button.
- 5**: Points to the **Add search conditions (body of the "where" clause):** text input field.
- 6**: Points to the **Operator** column in the **Or Do a "query by example" (wildcard: "%")** table.
- 7**: Points to the **Go** button at the bottom right of the query builder section.

Field	Type	Collation	Operator	Value
nim	varchar(10)	latin1_general_ci	LIKE	
nama	varchar(30)	latin1_general_ci	LIKE	
alamat	text	latin1_general_ci	LIKE	
tglahir	date		=	

MENU / FASILITAS LAINNYA



1. Browse, untuk melihat data (record) tabel
2. Structure, untuk melihat struktur tabel
3. SQL, untuk mengeksekusi perintah SQL
4. Search, untuk melakukan pencarian data dalam record
5. Insert, untuk menambahkan data (record) baru
6. Export, untuk mengekspor record dan tabel ke dalam format lain
7. Import, untuk mengimport data dari hasil ekspor
8. Operations, untuk operasi dalam tabel, seperti rename tabel, copy tabel, dsb
9. Empty, untuk mengosongkan tabel (truncate)
10. Drop, untuk menghapus tabel beserta isinya (drop).

TERIMA KASIH

Presentasi ini dibuat oleh **Achmad Solichin**, Staff dan Pengajar di Universitas Budi Luhur, dapat dihubungi di email achmatim@gmail.com.
Dapatkan juga berbagai artikel sehubungan dengan programming, database, dan web development di situs <http://achmatim.net>