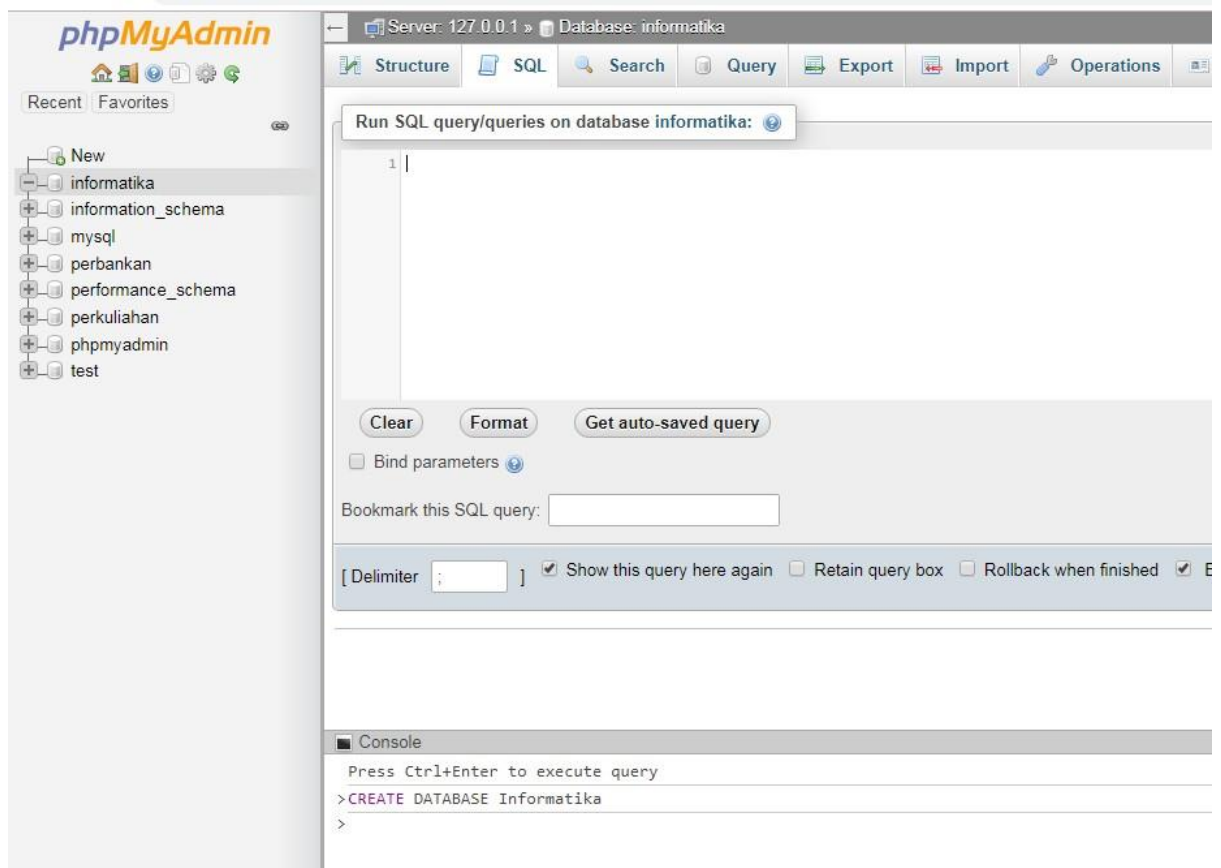
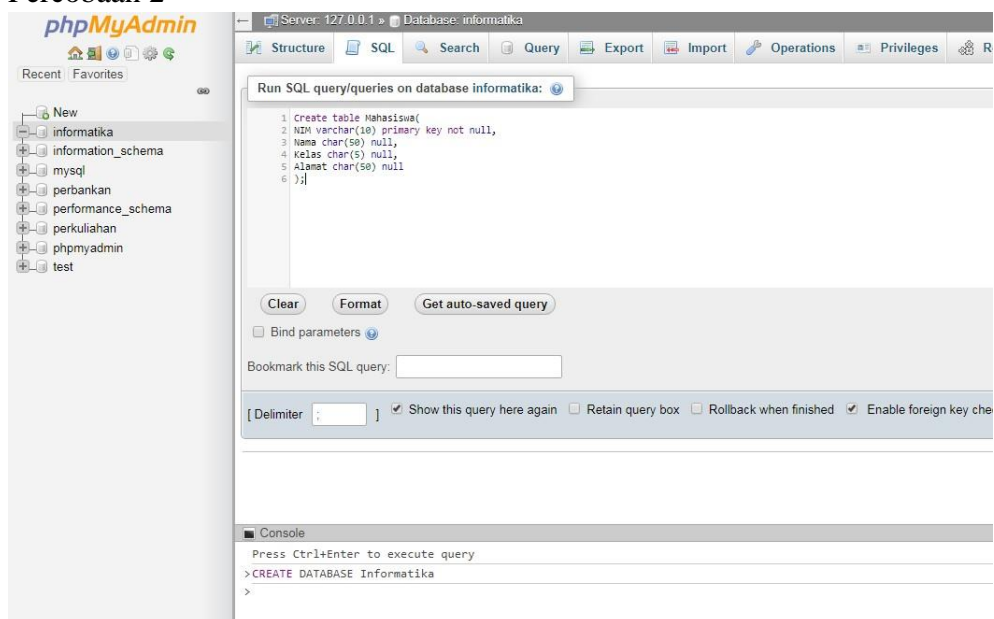


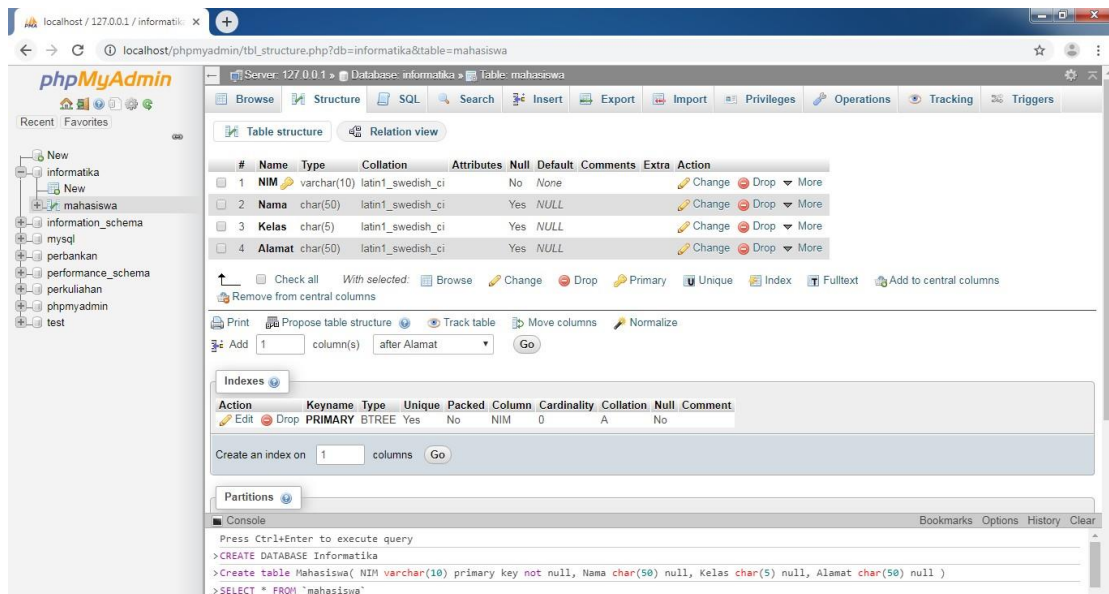
NARENDRA GUSTIAJI  
L200170151  
F

## 1. Percobaan 1

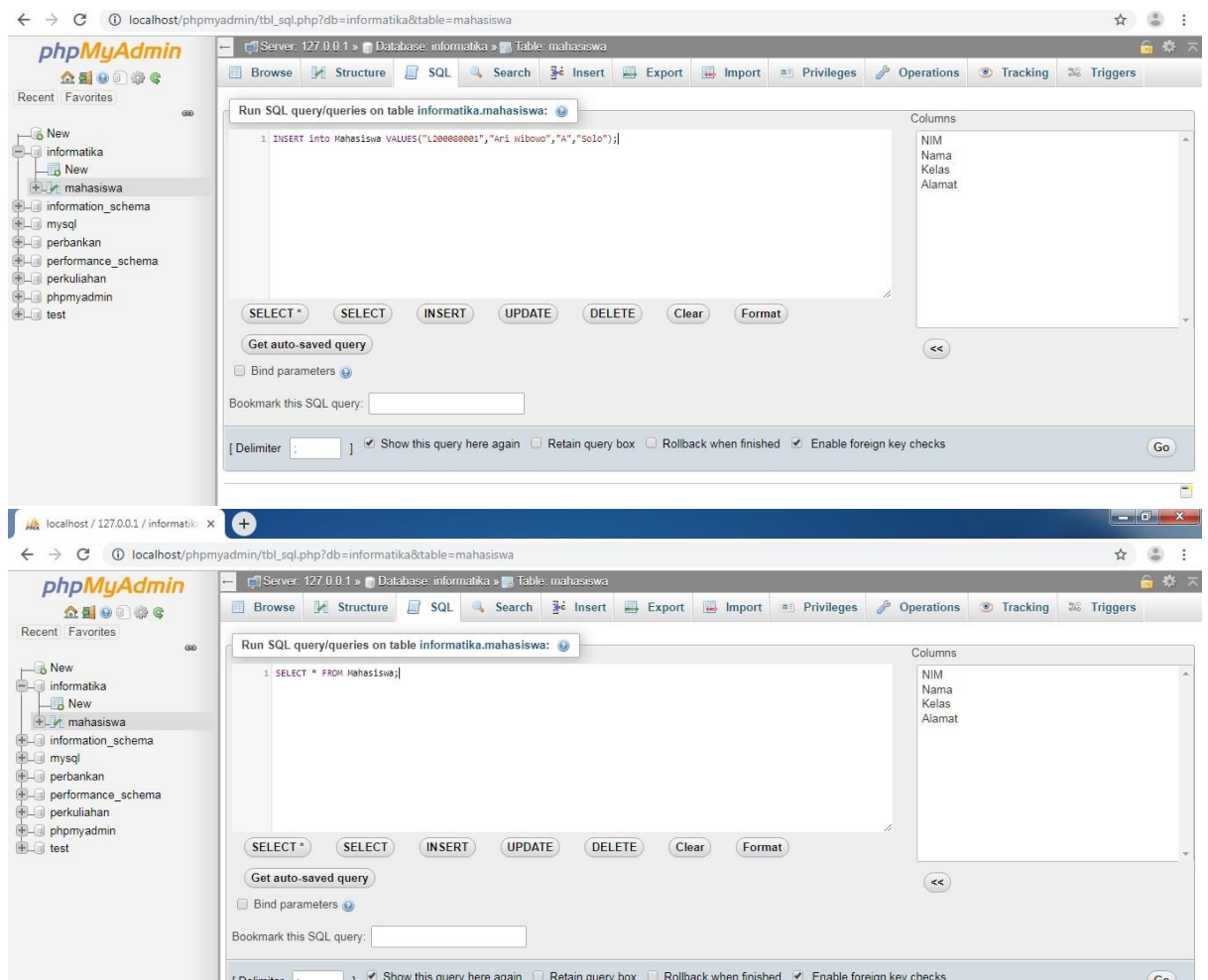


## 2. Percobaan 2





### 3. Percobaan 3



localhost / 127.0.0.1 / informatika x

localhost/phpmyadmin/sql.php?server=1&db=informatika&table=mahasiswa&pos=0

phpMyAdmin

Recent Favorites

- New
- informatika
  - New
  - mahasiswa
  - information\_schema
  - mysql
  - perbankan
  - performance\_schema
  - perkulahan
  - phpmyadmin
  - test

Server: 127.0.0.1 Database: informatika Table: mahasiswa

Showing rows 0 - 0 (1 total, Query took 0.0010 seconds)

SELECT \* FROM `mahasiswa`

Options

NIM	Nama	Kelas	Alamat
L200080001	An Wibowo	A	Solo

Query results operations

Bookmark this SQL query

Console

```

Press Ctrl+Enter to execute query
>CREATE DATABASE Informatika
>Create table Mahasiswa( NIM varchar(10) primary key not null, Nama char(50) null, Kelas char(5) null, Alamat char(50) null )
>SELECT * FROM `mahasiswa`
  
```

1 insert into Mahasiswa (NIM, Nama,Kelas) values ("L200080080","Agustina","B");

SELECT \* SELECT INSERT UPDATE DELETE Clear Format

Get auto-saved query

Bind parameters

Bookmark this SQL query:

[Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

NIM  
Nama  
Kelas  
Alamat

localhost / 127.0.0.1 / informatika x

localhost/phpmyadmin/tbl\_sql.php?db=informatika&table=mahasiswa

phpMyAdmin

Recent Favorites

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- informatika
  - New
  - mahasiswa
  - information\_schema
  - mysql
  - perbankan
  - performance\_schema
  - perkulahan
  - phpmyadmin
  - test

Server: 127.0.0.1 Database: informatika Table: Mahasiswa

Showing rows 0 - 1 (2 total, Query took 0.0010 seconds)

SELECT \* FROM Mahasiswa

Options

NIM	Nama	Kelas	Alamat
L200080001	An Wibowo	A	Solo
L200080080	Agustina	B	NULL

Query results operations

Console

```

SELECT * FROM `mahasiswa`
>SELECT * FROM Mahasiswa
>SELECT * FROM `mahasiswa`
>insert into Mahasiswa (NIM, Nama,Kelas) values ("L200080080","Agustina","B")
>SELECT * FROM `mahasiswa`
  
```

#### 4. Percobaan 4

Run SQL query/queries on table informatika.mahasiswa:

```
1 update Mahasiswa Set Nama="Agustina Anggraini" WHERE Nama = "Agustina"
```

Columns: NIM, Nama, Kelas, Alamat

Buttons: SELECT \*, SELECT, INSERT, UPDATE, DELETE, Clear, Format

Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Simulate query Go

Show query box

Showing rows 0 - 1 (2 total, Query took 0.0010 seconds.)

```
SELECT * FROM `mahasiswa`
```

☐ Profiling [Edit inline] [Edit]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	NIM	Nama	Kelas	Alamat
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200080001	Ari Wibowo	A	Solo
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200080080	Agustina Anggraini	B	NULL

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

#### JOIN

Server: 127.0.0.1 » Database: informatika » Table: nilai

Buttons: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, Triggers

Run SQL query/queries on table informatika.nilai:

```
1 insert into Nilai VALUES
2 ("L200080002","Kapita Selekt",60,"BC"),
3 ("L200080010","Pemrograman web",87,"A"),
4 ("L200080080","Pemrograman web",90,"B")
5
6
```

Columns: NIM, Nama\_MK, Nilai\_Angka, Nilai\_Huruf

Buttons: SELECT \*, SELECT, INSERT, UPDATE, DELETE, Clear, Format

Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

#### 5. Percobaan 5

Run SQL query/queries on database informatika:

```
1 select Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Clear Format Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Console

Press Ctrl+Enter to execute query

Showing rows 0 - 0 (1 total, Query took 0.0030 seconds.)

```
select Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080080	Agustina Anggraini	Pemrograman Web	90	A

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

## 6. Percobaan 6

yadmin/db\_sql.php?db=informatika

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Run SQL query/queries on database informatika:

```
1 SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa LEFT JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Clear Format Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Console

Bookmarks Options History Clear

Showing rows 0 - 1 (2 total, Query took 0.0030 seconds.)

```
SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa LEFT JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080001	Ari Wibowo	NULL	NULL	NULL
L200080080	Agustina Anggraini	Pemrograman Web	90	A

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

## 7. Percobaan 7

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Run SQL query/queries on database informatika:

```
1 SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa RIGHT JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Clear Format Get auto-saved query

Bind parameters

Bookmark this SQL query:

[Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Showing rows 0 - 2 (3 total, Query took 0.0030 seconds.)

```
SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa RIGHT JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
NULL	NULL	Kapita Selekt	60	BC
NULL	NULL	Pemrograman Web	87	A
L200080080	Agustina Anggraini	Pemrograman Web	90	A

Show all | Number of rows: 25 | Filter rows: Search this table

## 8. Percobaan 8

Profiling [Edit inline] [Edit] [Explain SQL] [Create P

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

Rata-rata Nilai
79.0000

## 9. Percobaan 9



Run SQL query/queries on table informatika.Nilai: ⓘ

```
1 SELECT SUM(Nilai_Angka) "Total Nilai" FROM Nilai
```

Columns

- NIM
- Nama\_MK
- Nilai\_Angka
- Nilai\_Huruf

SELECT \* SELECT INSERT UPDATE DELETE Clear Format

Get auto-saved query

☐ Bind parameters ⓘ

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Showing rows 0 - 0 (1 total, Query took 0.0020 seconds.)

```
SELECT SUM(Nilai_Angka) "Total Nilai" FROM Nilai
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

Total Nilai
237

☐ Show all | Number of rows: 25 | Filter rows:

## 10. Percobaan 10

Run SQL query/queries on table informatika.Nilai: ⓘ

```
1 CREATE VIEW KHS AS SELECT Mahasiswa.NIM, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa INNER JOIN NILAI ON Mahasiswa.NIM=Nilai.NIM)
```

Columns

- NIM
- Nama\_MK
- Nilai\_Angka
- Nilai\_Huruf

SELECT \* SELECT INSERT UPDATE DELETE Clear Format

Get auto-saved query

☐ Bind parameters ⓘ

Bookmark this SQL query:

[ Delimiter : ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

SELECT \* FROM KHS

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

> >> ☐ Show all | Number of rows: 25 | Filter rows:

+ Options

NIM	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080080	Pemrograman Web	90	A

☐ Edit ☒ Copy ☐ Delete

☐ Check all With selected: ☐ Edit ☒ Copy ☐ Delete ☐ Export

> >> ☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

## TUGAS

1. Apa fungsi dari beberapa hal berikut :
  - A. SELECT untuk menampilkan isi dari sebuah table
  - B. JOIN untuk menghubungkan satu table dengan table yang lainnya
  - C. LEFT JOIN untuk cara menghubungkan tabel dan menampilkan semua data (kiri) pada tabel yang tidak berhubungan, sedangkan data yang kosong akan bernilai NULL.
  - D. RIGHT JOIN untuk menghubungkan tabel dan menampilkan semua data (kanan) pada tabel yang tidak berhubungan, dan data yang kosong akan bernilai NULL.
  - E. AVG untuk menghitung rata-rata nilai dari sekumpulan record
  - F. SUM untuk menjumlahkan nilai dari sekumpulan record
- 2.

The screenshot displays a web-based SQL query tool interface. The top section is titled "Run SQL query/queries on table informatika.mahasiswa:". The main query area contains the following SQL statement:

```
1 update Mahasiswa SET Alamat ="Sragen" WHERE NIM = "L200080080"
```

Below the query area are buttons for "SELECT \*", "SELECT", "INSERT", "UPDATE", "DELETE", "Clear", and "Format". There is also a "Get auto-saved query" button and a "Bind parameters" checkbox. A "Bookmark this SQL query:" field is present. At the bottom of the query area, there are checkboxes for "Show this query here again", "Retain query box", "Rollback when finished", and "Enable foreign key checks", along with "Simulate query" and "Go" buttons.

The right sidebar shows the "Columns" section with a list of columns: NIM, Nama, Kelas, and Alamat.

The bottom section shows the results of the query. A green banner at the top indicates "Showing rows 0 - 1 (2 total, Query took 0.0020 seconds.)". Below this, the SQL query is repeated: `SELECT * FROM 'mahasiswa'`. There are links for "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh".

The results are displayed in a table with columns: NIM, Nama, Kelas, and Alamat. The table shows two rows of data:

NIM	Nama	Kelas	Alamat
L200080001	Ari Wibowo	A	Solo
L200080080	Agustina Anggraini	B	Sragen

Below the table, there are checkboxes for "Show all", "Number of rows: 25", "Filter rows: Search this table", and "Sort by key: None". There are also buttons for "Check all", "With selected: Edit", "Copy", "Delete", and "Export".