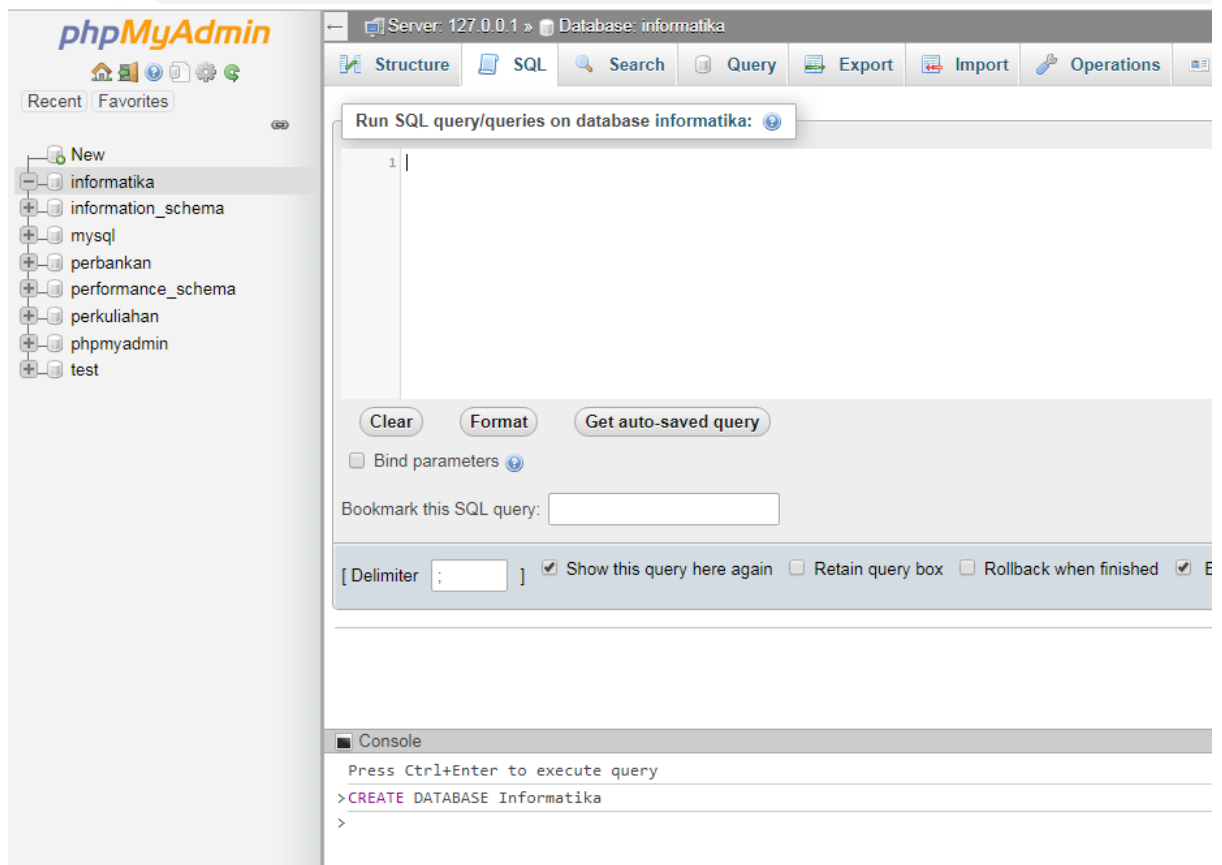


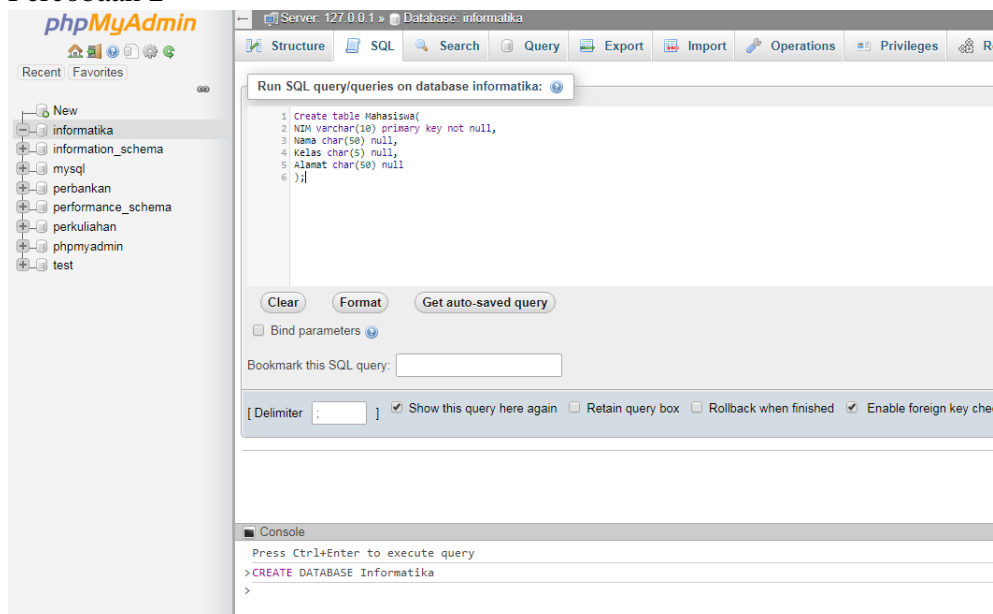
Yarin Nanditya A  
L200170155  
F

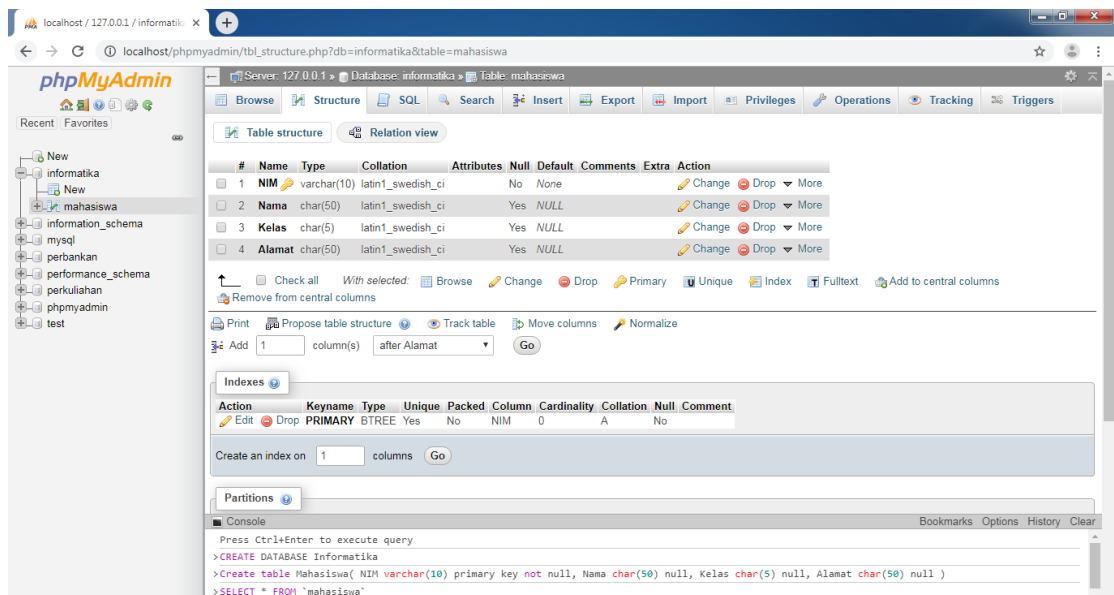
## Praktikum PWD

### 1. Percobaan 1

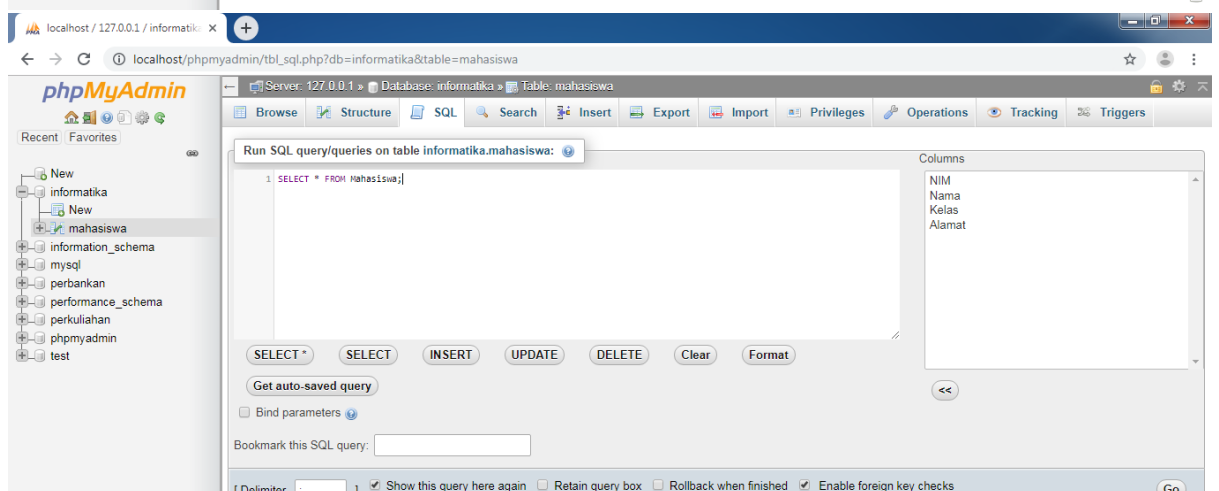
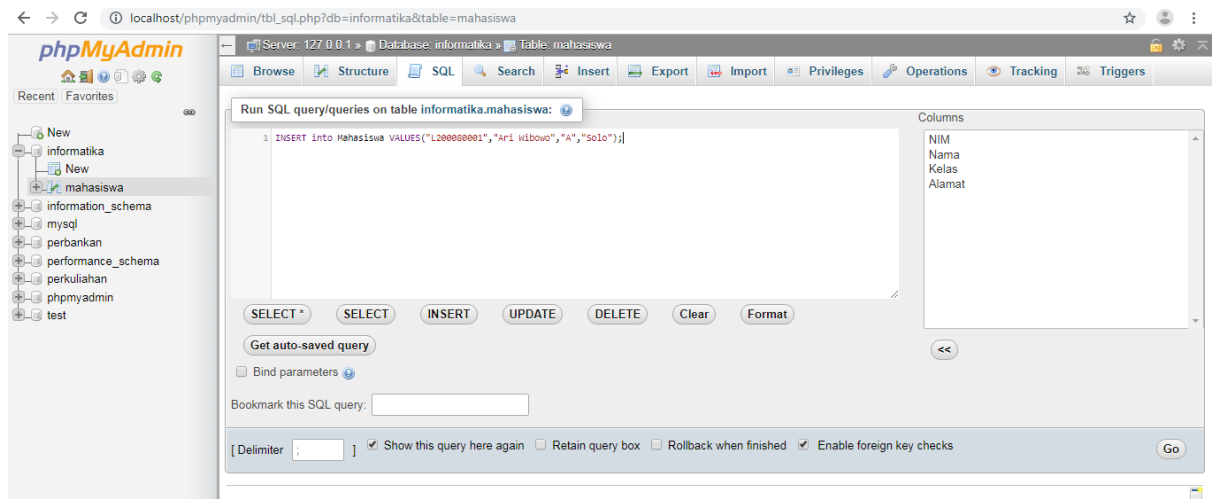


### 2. Percobaan 2





### 3. Percobaan 3



localhost / 127.0.0.1 / informatika

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

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

NIM	Nama	Kelas	Alamat
L200080001	Ani Wibowo	A	Solo

Query results operations: Print Copy to clipboard Export Display chart Create view

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 ("L200080008","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

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

Server: 127.0.0.1 Database: informatika Table: Mahasiswa

Show query box

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

SELECT \* FROM Mahasiswa

Options: NIM Nama Kelas Alamat

NIM	Nama	Kelas	Alamat
L200080001	Ani Wibowo	A	Solo
L200080008	Agustina	B	NULL

Query results operations: Print Copy to clipboard Export Display chart Create view

Console: Press Ctrl+Enter to execute query

```

>SELECT * FROM `mahasiswa`
>SELECT * FROM Mahasiswa
>SELECT * FROM `mahasiswa`
>Insert into Mahasiswa (NIM, Nama,Kelas) Values ("L200080008","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

**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] [Export]

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

+ Options

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

↑ ☐ Check all With selected: Edit Copy Delete Export

#### JOIN

Server: 127.0.0.1 » Database: informatika » Table: nilai

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,"K");
5
6
```

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

#### 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

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

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
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a> L200080080	Pemrograman Web	90	A

☐ 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, there are buttons for "SELECT \*", "SELECT", "INSERT", "UPDATE", "DELETE", "Clear", and "Format". A "Get auto-saved query" button is also present. A checkbox for "Bind parameters" is unchecked. A "Bookmark this SQL query:" field is empty. 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". A "Simulate query" button and a "Go" button are also visible.

On the right side, a "Columns" panel lists the 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 statement "SELECT \* FROM `mahasiswa`" is displayed. A "Profiling" section includes links for "[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:

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". A "With selected:" section includes buttons for "Edit", "Copy", "Delete", and "Export".