

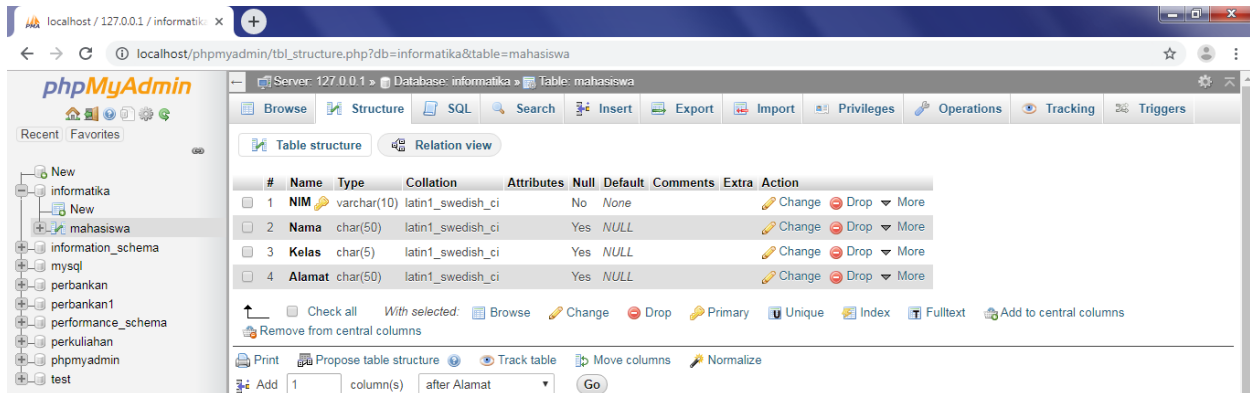
## PWD Modul ke-4

Nama : Hastyana Rihardneswara

NIM : L200170172

Kelas : G

### Percobaan 1 dan 2

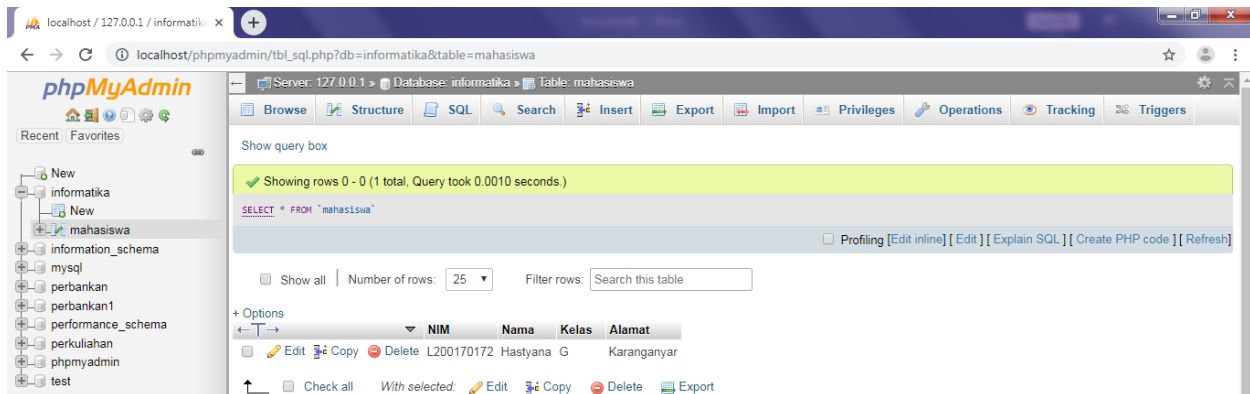


The screenshot shows the phpMyAdmin interface for the 'mahasiswa' table. The 'Table structure' tab is selected, displaying the following table structure:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	NIM	varchar(10)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	Nama	char(50)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	Kelas	char(5)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	Alamat	char(50)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Fulltext', and 'Add to central columns'. There is also a 'Remove from central columns' option.

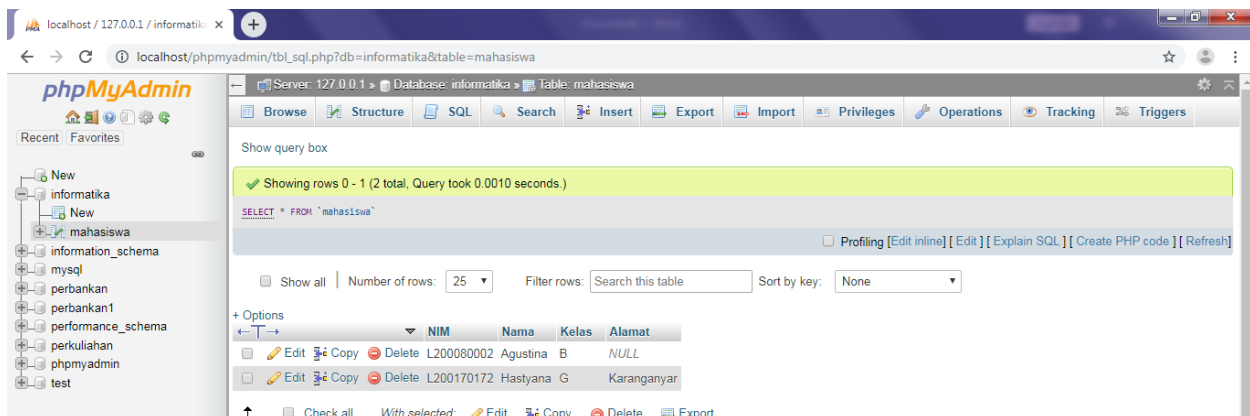
### Percobaan 3



The screenshot shows the phpMyAdmin interface for the 'mahasiswa' table. The 'SQL' tab is selected, displaying the query results for the query 'SELECT \* FROM `mahasiswa`'. The results show 1 row:

NIM	Nama	Kelas	Alamat
L200170172	Hastyana	G	Karanganyar

Below the results, there are options to 'Show all', 'Number of rows: 25', 'Filter rows: Search this table', and 'Options'.



The screenshot shows the phpMyAdmin interface for the 'mahasiswa' table. The 'SQL' tab is selected, displaying the query results for the query 'SELECT \* FROM `mahasiswa`'. The results show 2 rows:

NIM	Nama	Kelas	Alamat
L200080002	Agustina	B	NULL
L200170172	Hastyana	G	Karanganyar

Below the results, there are options to 'Show all', 'Number of rows: 25', 'Filter rows: Search this table', 'Sort by key: None', and 'Options'.

## Percobaan 4

The screenshot shows the phpMyAdmin interface for a database named 'informatika'. The 'Table: mahasiswa' is selected. The 'Structure' tab is active, displaying the table's schema and a list of rows. The table has four columns: NIM, Nama, Kelas, and Alamat. Two rows are visible in the data table.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	NIM	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
2	Nama_MK	char(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Nilai_Angka	int(11)			Yes	NULL			Change Drop More
4	Nilai_Huruf	char(5)	latin1_swedish_ci		Yes	NULL			Change Drop More

NIM	Nama	Kelas	Alamat
L200080002	Agustina Anggraini	B	NULL
L200170172	Hastiana	G	Karanganyar

## Membuat table nilai

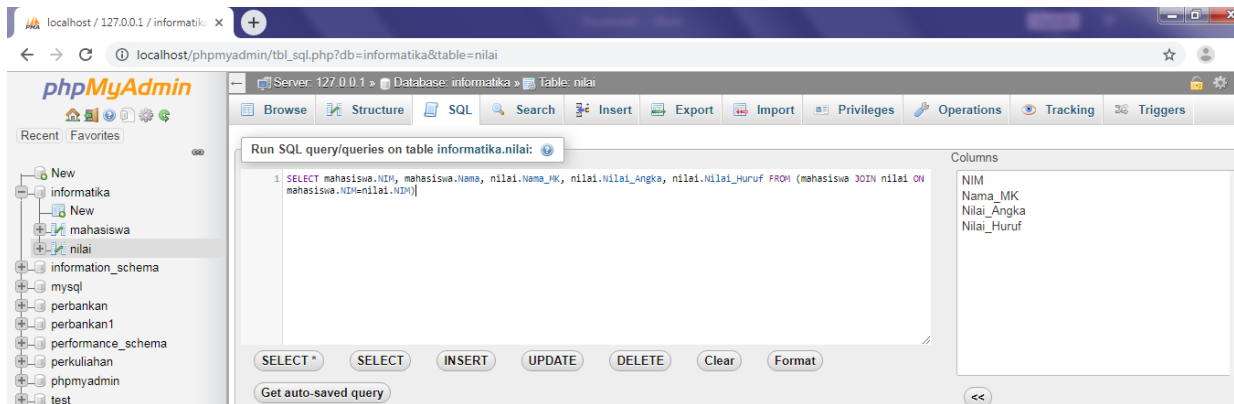
The screenshot shows the phpMyAdmin interface for the 'informatika' database, specifically the 'Table: nilai' structure. The 'Structure' tab is active, displaying the table's schema. The table has four columns: NIM, Nama\_MK, Nilai\_Angka, and Nilai\_Huruf. The 'Relation view' tab is also visible.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	NIM	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
2	Nama_MK	char(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Nilai_Angka	int(11)			Yes	NULL			Change Drop More
4	Nilai_Huruf	char(5)	latin1_swedish_ci		Yes	NULL			Change Drop More

The screenshot shows the phpMyAdmin interface for the 'informatika' database, specifically the 'Table: nilai' data. The 'Browse' tab is active, displaying the table's data. The table has four columns: NIM, Nama\_MK, Nilai\_Angka, and Nilai\_Huruf. Three rows are visible in the data table.

NIM	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Kapita Selekt	60	BC
L200080010	Pemrograman Web	87	A
L200180080	Pemrograman Web	90	A

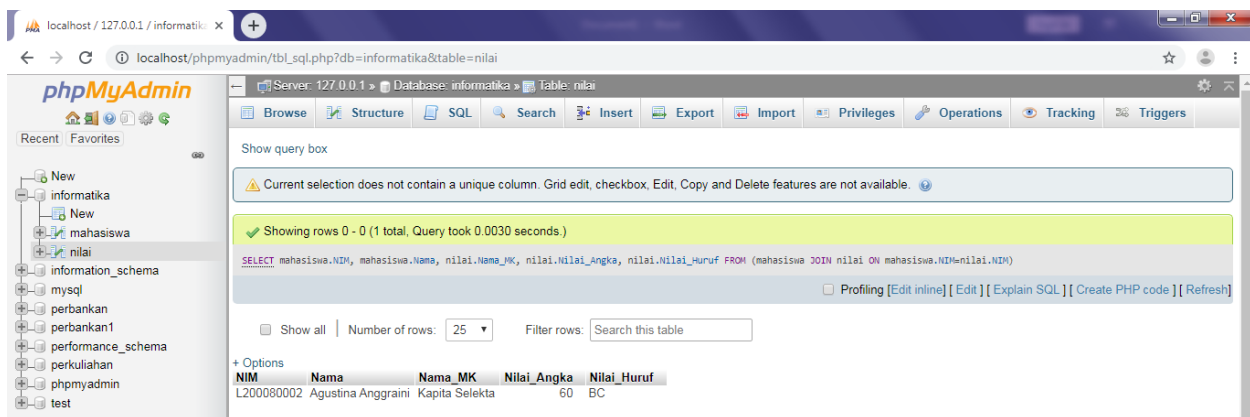
## Percobaan 5



The screenshot shows the phpMyAdmin interface with the 'nilai' table selected. The SQL query editor contains the following query:

```
1 SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa JOIN nilai ON mahasiswa.NIM=nilai.NIM)
```

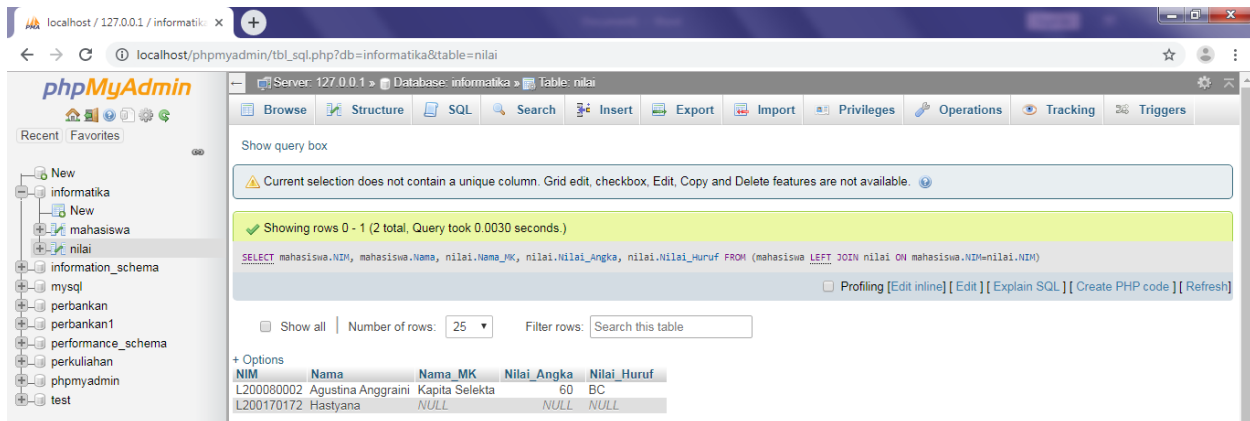
The 'Columns' list on the right shows: NIM, Nama\_MK, Nilai\_Angka, and Nilai\_Huruf.



The screenshot shows the results of the SQL query. A message indicates: "Showing rows 0 - 0 (1 total. Query took 0.0030 seconds)". The query is repeated: `SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa JOIN nilai ON mahasiswa.NIM=nilai.NIM)`. Below the message, there is a table with the following data:

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Agustina Anggraini	Kapita Selekt	60	BC

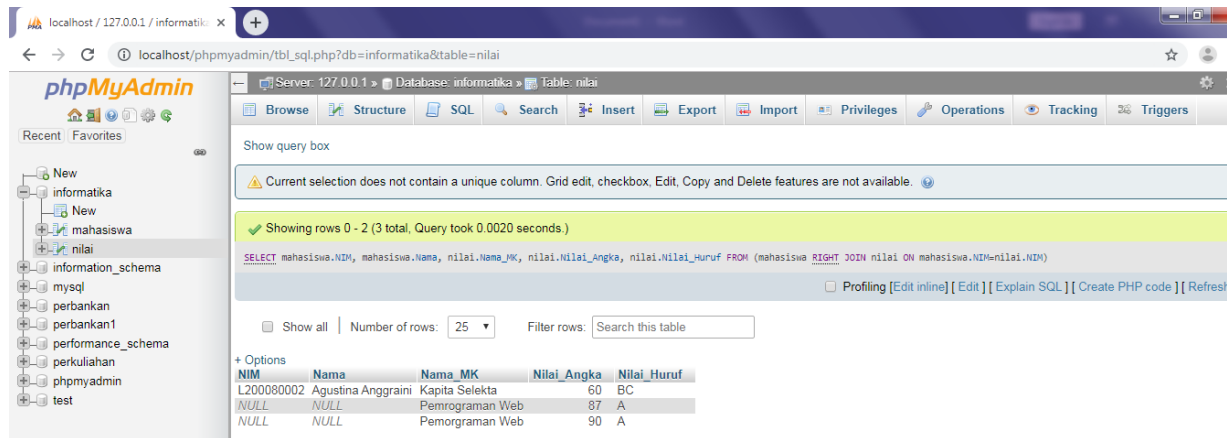
## Percobaan 6



The screenshot shows the results of a SQL query using a LEFT JOIN. A message indicates: "Showing rows 0 - 1 (2 total. Query took 0.0030 seconds)". The query is: `SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa LEFT JOIN nilai ON mahasiswa.NIM=nilai.NIM)`. Below the message, there is a table with the following data:

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Agustina Anggraini	Kapita Selekt	60	BC
L200170172	Hastyana	NULL	NULL	NULL

## Percobaan 7



Server: 127.0.0.1 » Database: informatika » Table: nilai

Showing rows 0 - 2 (3 total. Query took 0.0020 seconds.)

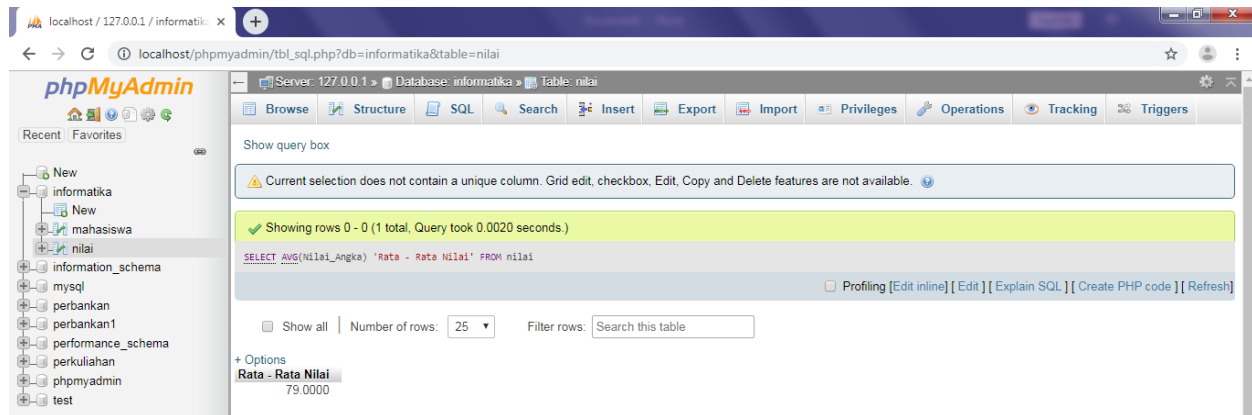
```
SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa RIGHT JOIN nilai ON mahasiswa.NIM=nilai.NIM)
```

Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Agustina Anggraini	Kapita Selektia	60	BC
NULL	NULL	Pemrograman Web	87	A
NULL	NULL	Pemrograman Web	90	A

## Percobaan 8

### Rata rata nilai



Server: 127.0.0.1 » Database: informatika » Table: nilai

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

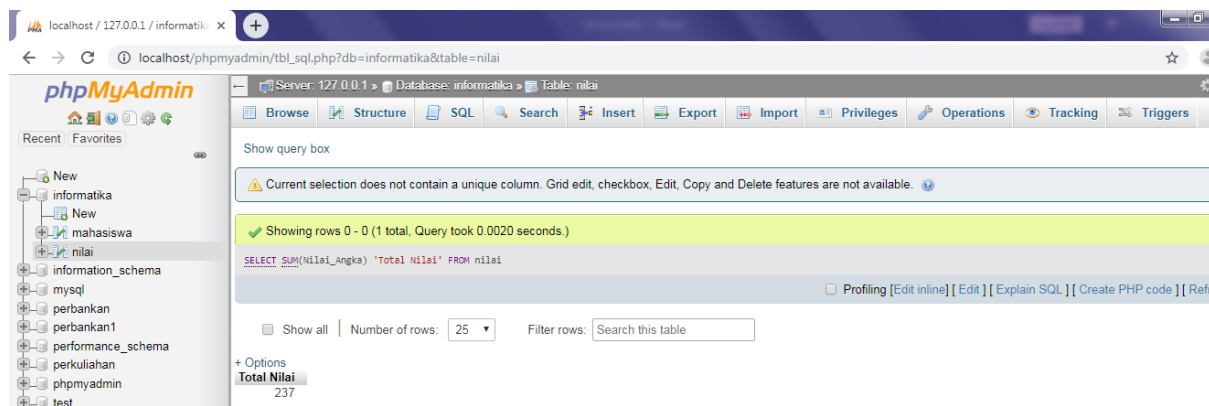
```
SELECT AVG(Nilai_Angka) 'Rata - Rata Nilai' FROM nilai
```

Options

Rata - Rata Nilai
79.0000

## Percobaan 9

### Total nilai



Server: 127.0.0.1 » Database: informatika » Table: nilai

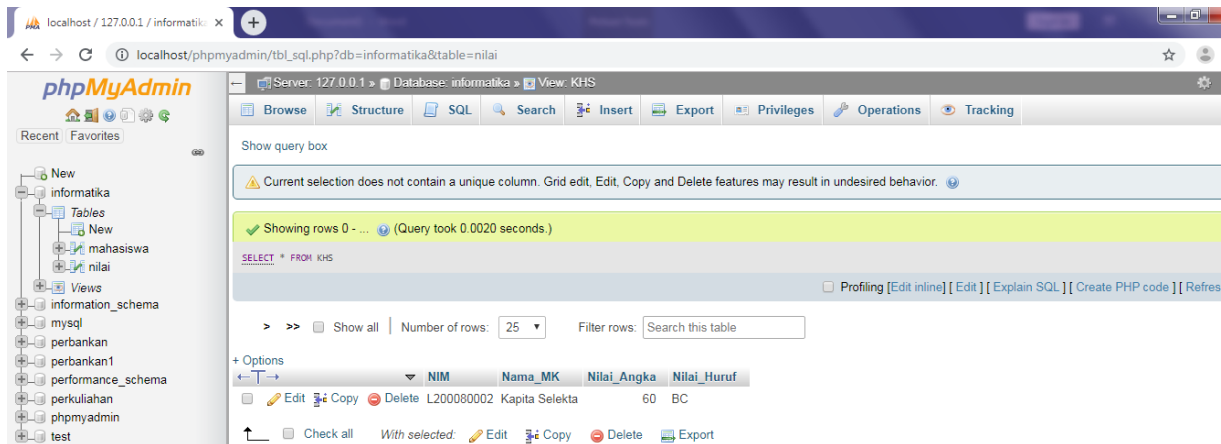
Showing rows 0 - 0 (1 total. Query took 0.0020 seconds.)

```
SELECT SUM(Nilai_Angka) 'Total Nilai' FROM nilai
```

Options

Total Nilai
237

## Percobaan 10



## TUGAS

1. Fungsi
  - a. Select : untuk memilih object
  - b. Join : penggabungan table
  - c. Left Join : untuk menampilkan data sebelah kiri yang dijoinkan dan menampilkan data sebelah kanan yang sama nilainya
  - d. Right Join : untuk menampilkan data sebelah kanan yang dijoinkan dan menampilkan data sebelah kiri yang sama nilainya
  - e. AVG : memberi nilai rata rata
  - f. SUM : memberi nilai total jumlah
2. UPDATE mahasiswa SET Alamat='Sragen' WHERE NIM='L20008080'

