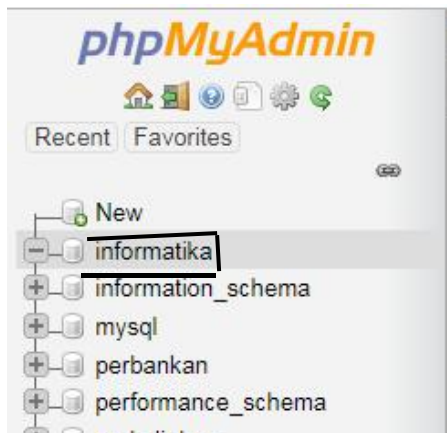


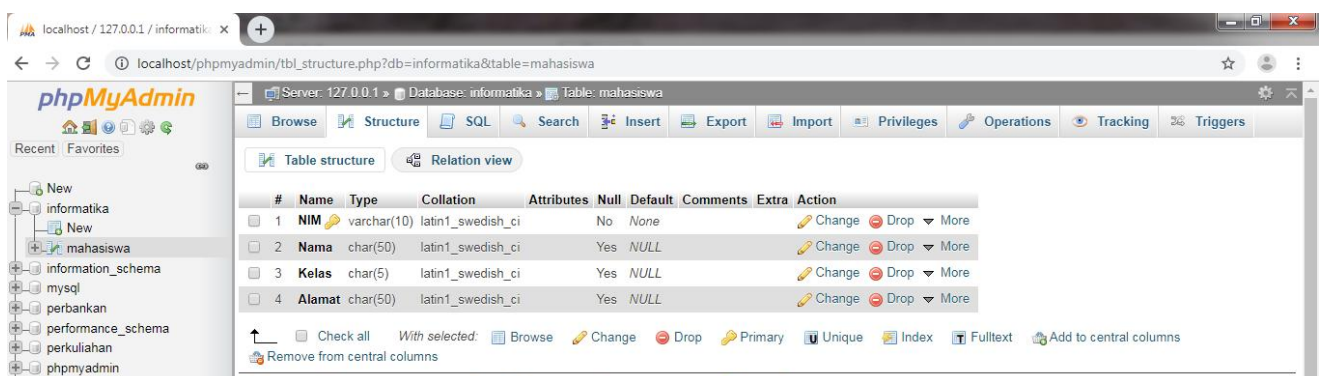
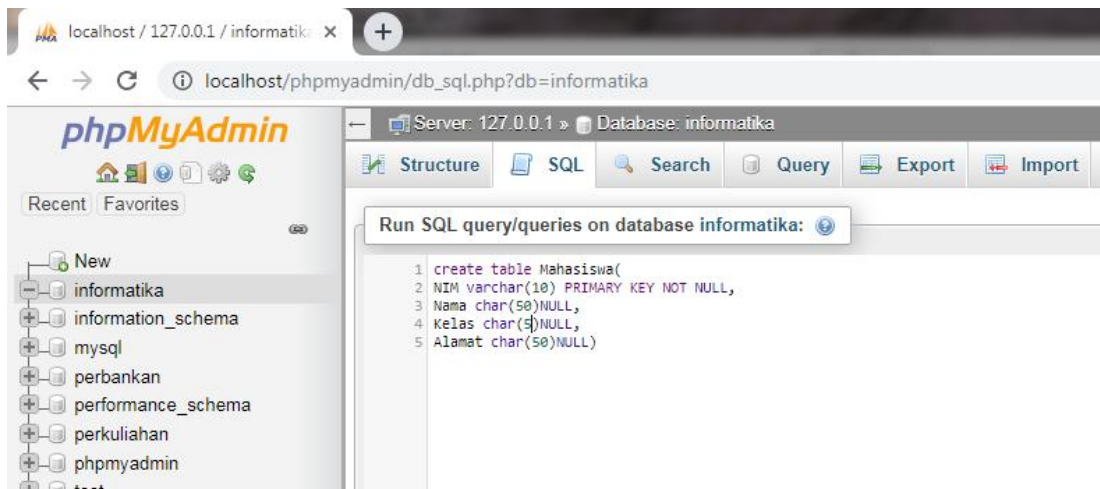
Nama : AVIFAH HASNA NF

NIM :L200170072

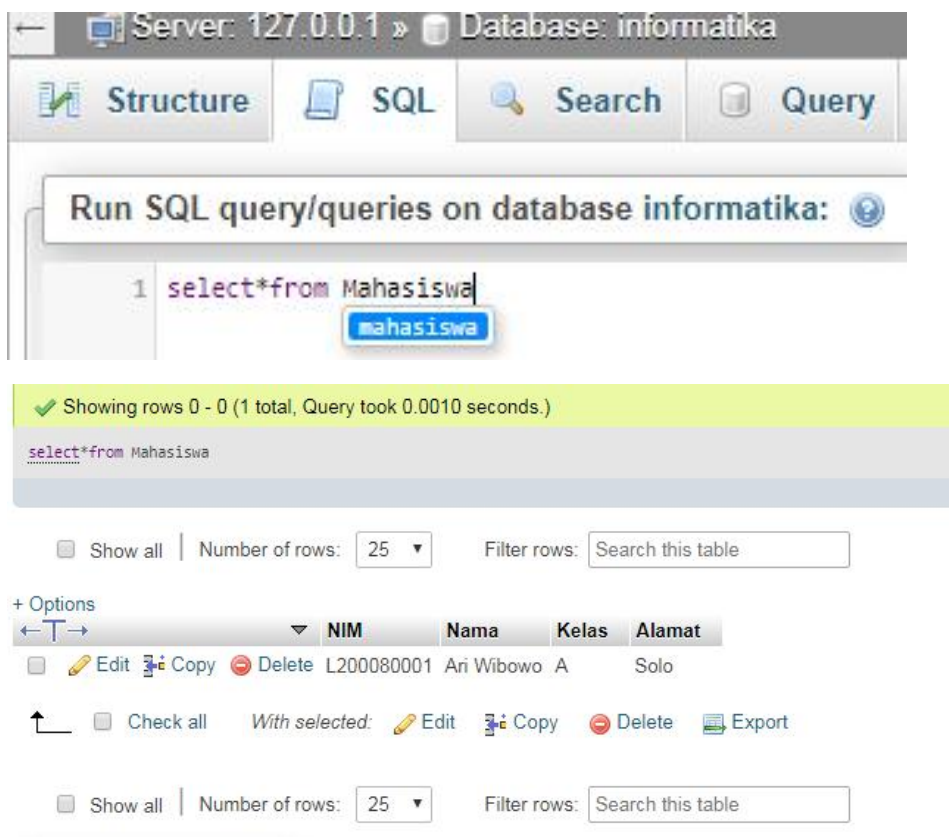
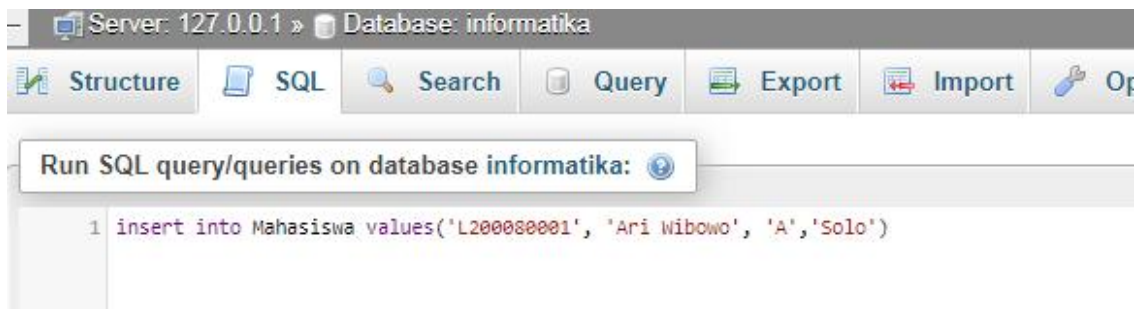
Percobaan 1



Percobaan 2



Percobaan 3



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

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

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

+ Options

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

☐ Check all | With selected: Edit Copy Delete Export

Percobaan 4

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import

Run SQL query/queries on database informatika:

```
1 update Mahasiswa set Nama='Agustina Anggraini' where Nama='Agustina'
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0020 seconds.)

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

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

+ Options

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

☐ Check all | With selected: Edit Copy Delete Export

Percobaan 5

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export

Run SQL query/queries on database informatika:

```
1 CREATE TABLE Nilai(
2 NIM varchar(50) PRIMARY KEY NOT NULL,
3 Nama_MK char(50) NULL,
4 Nilai_Angka int NULL,
5 Nilai_Huruf char(5) NULL)
```

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines Events

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)
2
3
```

☐ Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel

+ Opsi

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

Percobaan 6

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines Events

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)
2
3
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0040 seconds.)

```
select Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Maha
```

☐ 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	NULL	NULL	NULL

Percobaan 7

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines Events

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)
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0040 seconds.)

```
select Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf
```

☐ 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
NULL	NULL	Pemrograman Web	90	A

Percobaan 8

Run SQL query/queries on database informatika: ?

```
1 SELECT AVG(Nilai_Angka) 'Rata-rata Nilai' FROM Nilai
```

nilai

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

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

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

+ Options

Rata-rata Nilai
79.0000

Percobaan 9

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

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

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

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

+ Options

Total Nilai
237

Percobaan 10

Run SQL query/queries on database informatika: ?

```
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)
```

Run SQL query/queries on database informatika: ?

```
1 SELECT * FROM KHS
```

+ Opsi

	NIM	Nama_MK	Nilai_Angka	Nilai_Huruf
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	L200080080	Pemrograman Web	90	A

↑ ☐ Pilih Semua Dengan pilihan: ☐ Ubah ☐ Salin ☐ Hapus ☐ Ekspor

Tugas

1. **-SELECT** adalah perintah yang paling sering digunakan pada SQL, sehingga kadang-kadang istilah query dirujuk pada perintah SELECT. SELECT digunakan untuk menampilkan data dari satu atau lebih tabel, biasanya dalam sebuah basis data yang sama.
-Join adalah variasi dari Query select yang digunakan ketika ingin mengkombinasikan record dari satu atau lebih tabel berdasarkan field yang ada.
-Left join digunakan apabila ingin menampilkan semua data pada tabel kiri dan data yang berhubungan atau berkaitan saja.
-Right join digunakan apabila ingin menampilkan semua data pada tabel kanan dan data yang berhubungan atau berkaitan saja.

- AVG** Digunakan untuk menampilkan nilai rata-rata dari suatu kolom
- SUM** Digunakan untuk menghitung total nilai dari kolom tertentu

2.

The screenshot shows a database management tool interface. At the top, it displays 'Server: 127.0.0.1' and 'Database: informatika'. Below this are tabs for 'Structure', 'SQL', 'Search', 'Query', and 'Export'. A banner reads 'Run SQL query/queries on database informatika:'. The SQL editor contains the query: `1 UPDATE Mahasiswa SET Alamat='SRAGEN' where NIM='L200080080'`. Below the editor, a green status bar indicates 'Showing rows 0 - 1 (2 total, Query took 0.0010 seconds.)'. A dropdown menu shows the query: `SELECT * FROM `mahasiswa``. Below this are controls for 'Show all', 'Number of rows: 25', and a 'Filter rows' search box. A '+ Options' section is visible. The main table displays two rows of data with columns 'NIM', 'Nama', 'Kelas', and 'Alamat'.

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

At the bottom, there are controls for 'Check all', 'With selected', and actions like 'Edit', 'Copy', 'Delete', and 'Export'.