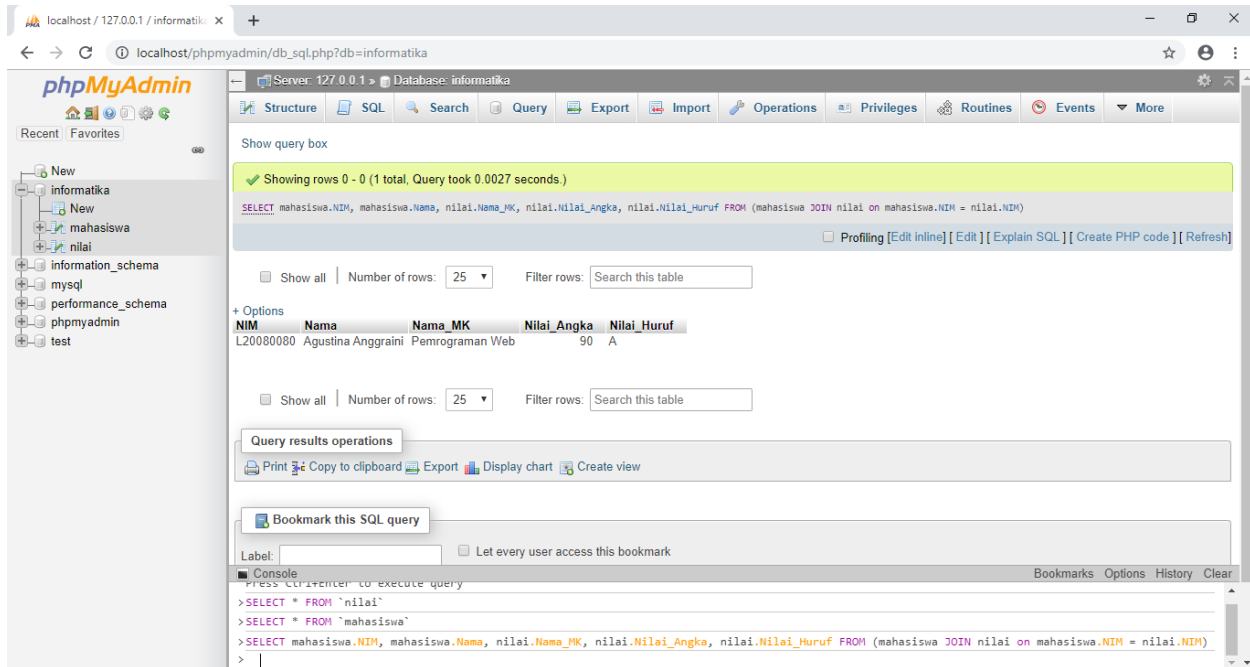


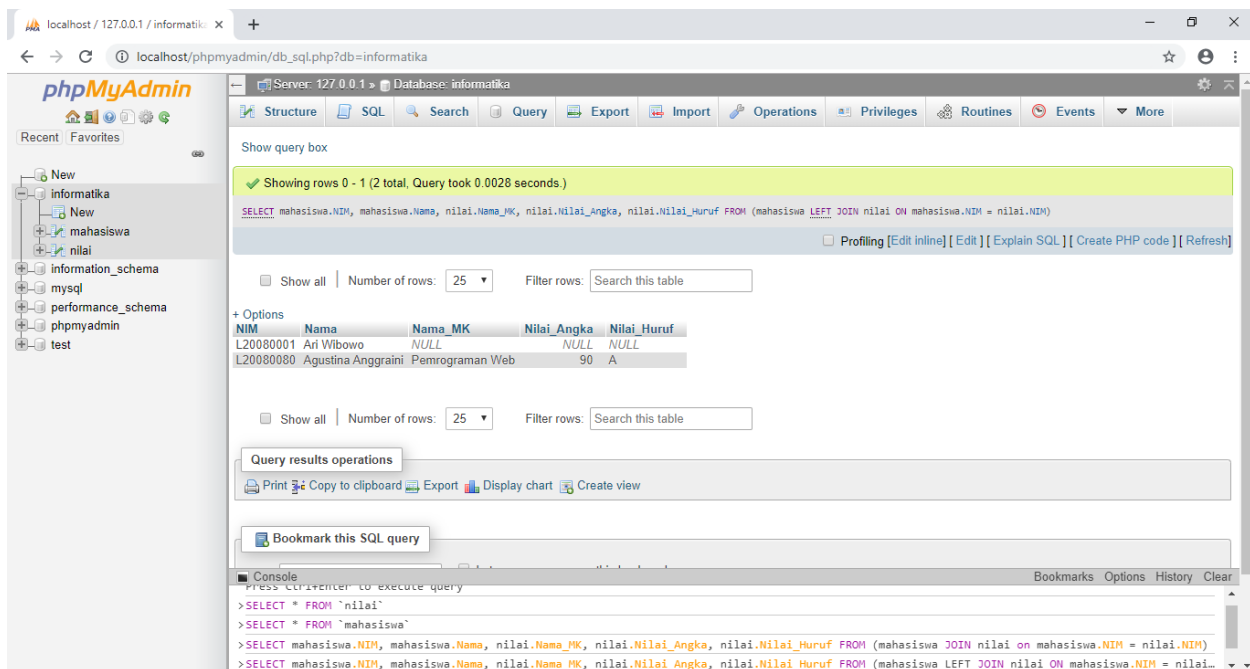
Percobaan 5.



The screenshot shows the phpMyAdmin interface for a database named 'informatika'. The left sidebar displays the database structure with tables: 'mahasiswa', 'nilai', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', and 'test'. The main panel shows the 'Query' tab with a SQL query executed: `SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa JOIN nilai ON mahasiswa.NIM = nilai.NIM)`. The result shows 1 row: NIM L20080080, Nama Agustina Anggraini, Nama_MK Pemrograman Web, Nilai_Angka 90, and Nilai_Huruf A. The console at the bottom shows the executed query and its result.

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L20080080	Agustina Anggraini	Pemrograman Web	90	A

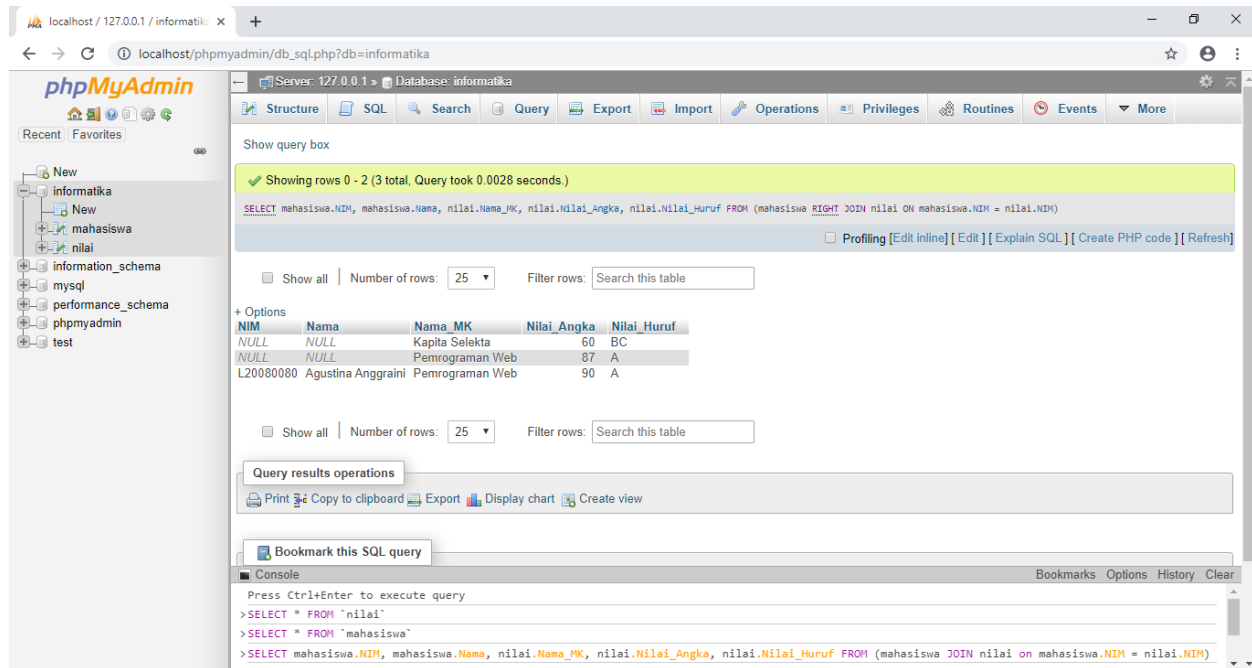
Percobaan 6.



The screenshot shows the phpMyAdmin interface for the same database 'informatika'. The left sidebar is the same. The main panel shows the 'Query' tab with a SQL query executed: `SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa LEFT JOIN nilai ON mahasiswa.NIM = nilai.NIM)`. The result shows 2 rows: the first row has NIM L20080001, Nama Ari Wibowo, Nama_MK NULL, Nilai_Angka NULL, and Nilai_Huruf NULL; the second row has NIM L20080080, Nama Agustina Anggraini, Nama_MK Pemrograman Web, Nilai_Angka 90, and Nilai_Huruf A. The console at the bottom shows the executed query and its result.

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L20080001	Ari Wibowo	NULL	NULL	NULL
L20080080	Agustina Anggraini	Pemrograman Web	90	A

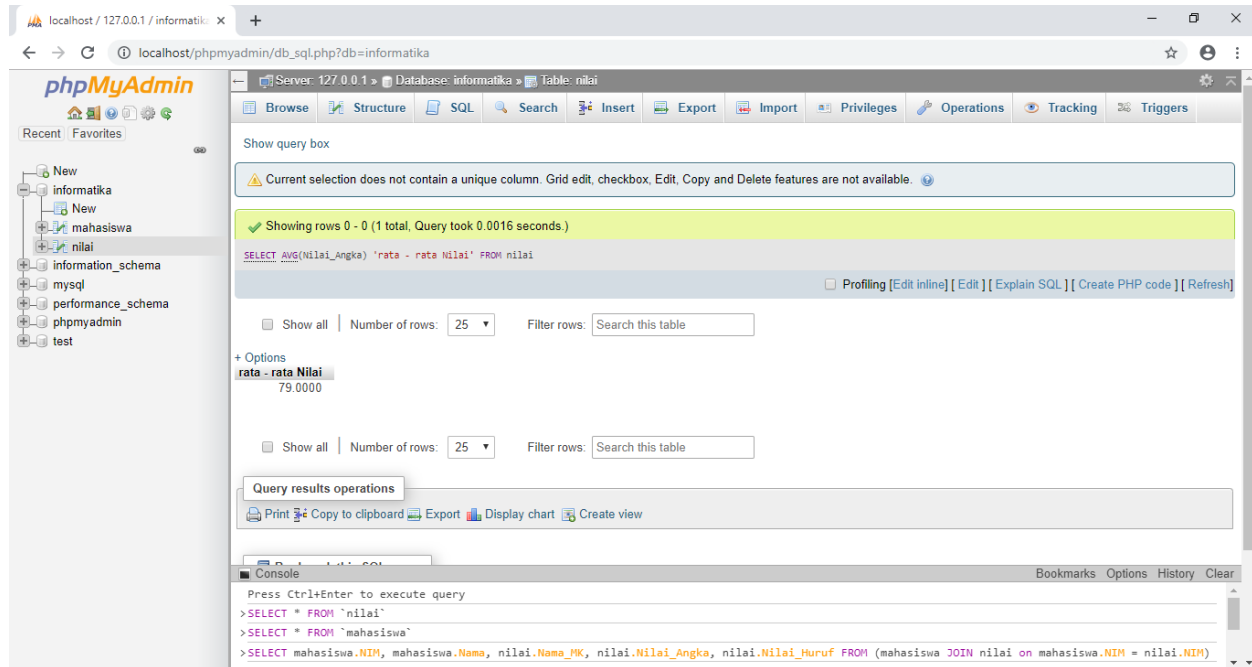
Percobaan 7.



The screenshot shows the phpMyAdmin interface with the 'informatika' database selected. A SQL query is executed, showing the results of a RIGHT JOIN between the 'mahasiswa' and 'nilai' tables. The query is: `SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf FROM (mahasiswa RIGHT JOIN nilai ON mahasiswa.NIM = nilai.NIM)`. The results table has 3 rows. The first two rows have NULL values for the 'mahasiswa' columns, while the third row contains data for NIM 'L20080080', Nama 'Agustina Anggraini', Nama_MK 'Pemrograman Web', Nilai_Angka '90', and Nilai_Huruf 'A'.

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
NULL	NULL	Kapita Selekt	60	BC
NULL	NULL	Pemrograman Web	87	A
L20080080	Agustina Anggraini	Pemrograman Web	90	A

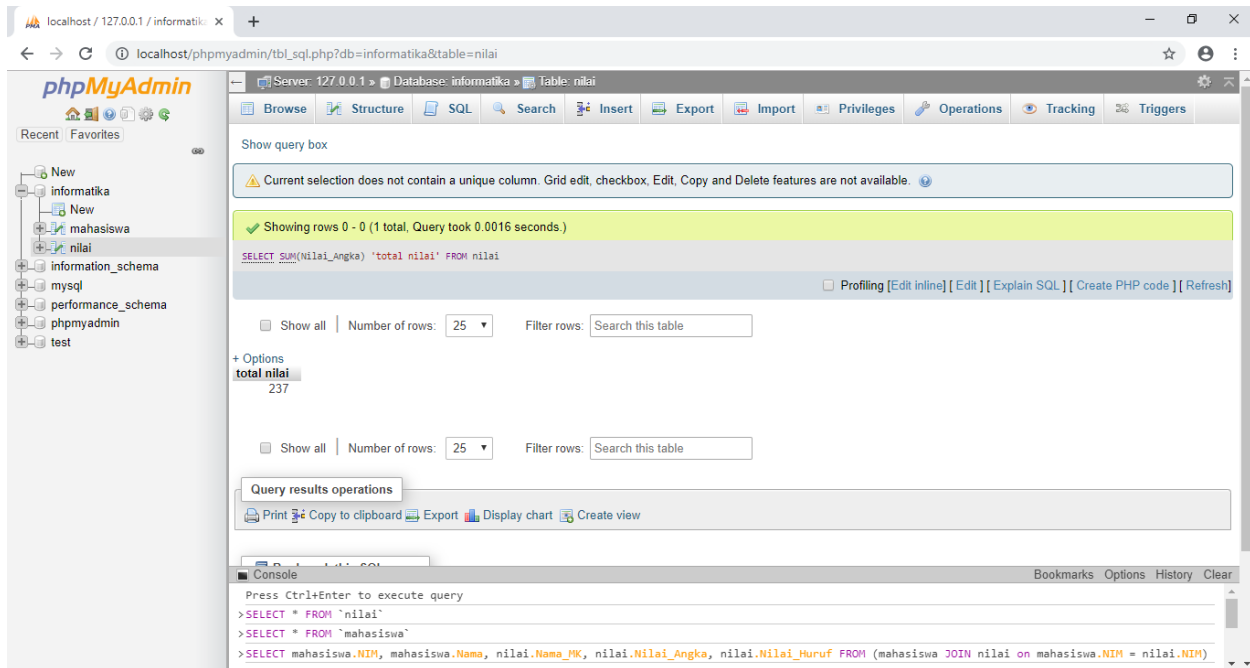
Percobaan 8.



The screenshot shows the phpMyAdmin interface with the 'informatika' database selected. A SQL query is executed, showing the results of an AVG calculation on the 'nilai' table. The query is: `SELECT AVG(nilai_Angka) 'rata - rata Nilai' FROM nilai`. The results table has 1 row with the value '79.0000' for the 'rata - rata Nilai' column. A warning message is displayed at the top: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.'

rata - rata Nilai
79.0000

Percobaan 9.

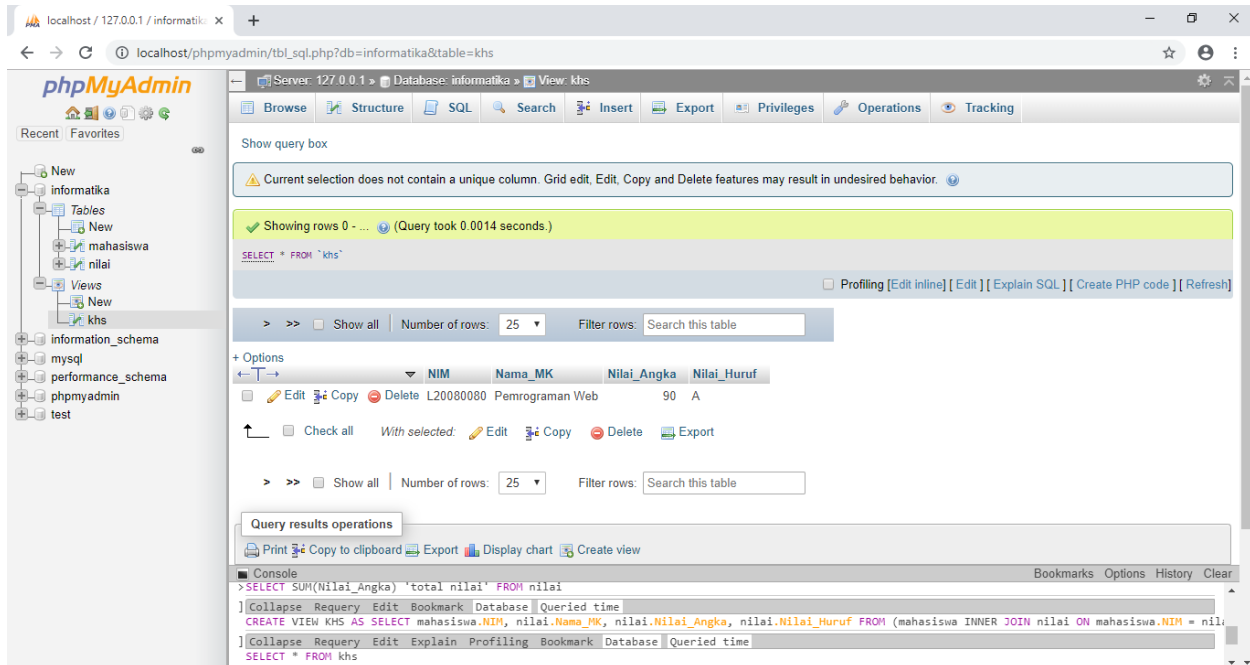


The screenshot shows the phpMyAdmin interface for a database named 'informatika'. The left sidebar shows the database structure with tables 'mahasiswa' and 'nilai'. The main panel displays the 'nilai' table structure and a query result. The query is:

```
SELECT SUM(Nilai_Angka) 'total nilai' FROM nilai
```

The result shows a single row with the value 237. The console at the bottom shows the SQL query and its execution details.

Percobaan 10.



The screenshot shows the phpMyAdmin interface for a database named 'informatika'. The left sidebar shows the database structure with tables 'mahasiswa' and 'nilai'. The main panel displays the 'khs' table structure and a query result. The query is:

```
SELECT * FROM 'khs'
```

The result shows a single row with the value 237. The console at the bottom shows the SQL query and its execution details.

Tugas:

1. Apa fungsi dari beberapa hal berikut :
 - a. SELECT
 - b. JOIN
 - c. LEFT JOIN
 - d. RIGHT JOIN
 - e. AVG
 - f. SUM
2. Tuliska Syntaks SQL untuk mengisi data Alamat “Sragen” pada table Mahasiswa (percobaan 3) pada NIM L2008080.

Jawab:

1. A. SELECT
Berfungsi untuk menampilkan data dalam table database.
 - B. JOIN
Untuk menggabungkan kolom dari dua tabel atau lebih.
 - C. LEFT JOIN
Untuk menggabungkan kolom dari kiri dari dua buah tabel, hasilnya akan *NULL* jika tidak ada kesamaan.
 - D. RIGHT JOIN
Untuk menggabungkan kolom dari kanan dari dua buah tabel atau lebih, hasilnya akan *NULL* jika tidak ada kesamaan.
 - E. AVG
Untuk menghitung/mencari jumlah rata-rata nilai/data.
 - F. SUM
Untuk menghitung hasil total jumlah keseluruhan nilai/data.
2. UPDATE `mahasiswa` SET `Alamat`= 'Sragen' WHERE NIM = 'L20080080'