

Nama : Oki Kus Mahesa

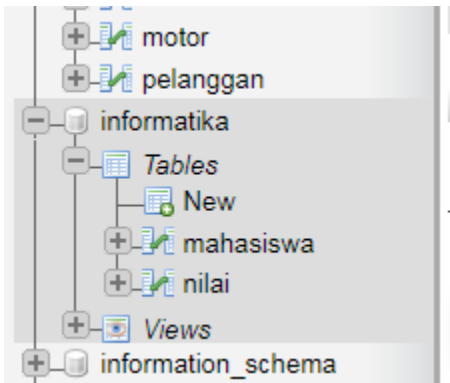
Nim : L200170064

Kelas : C

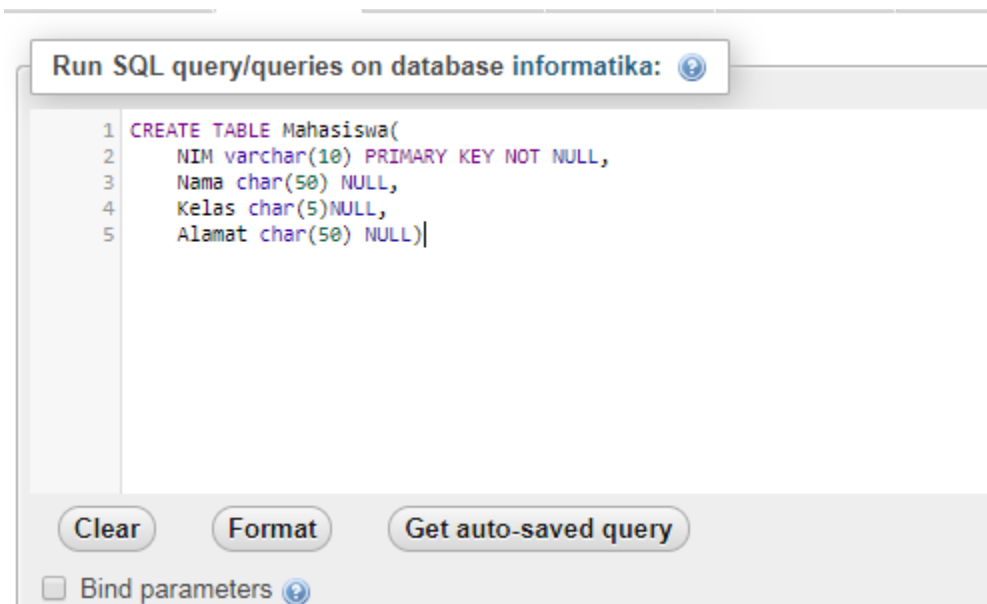
Modul 4

SQL

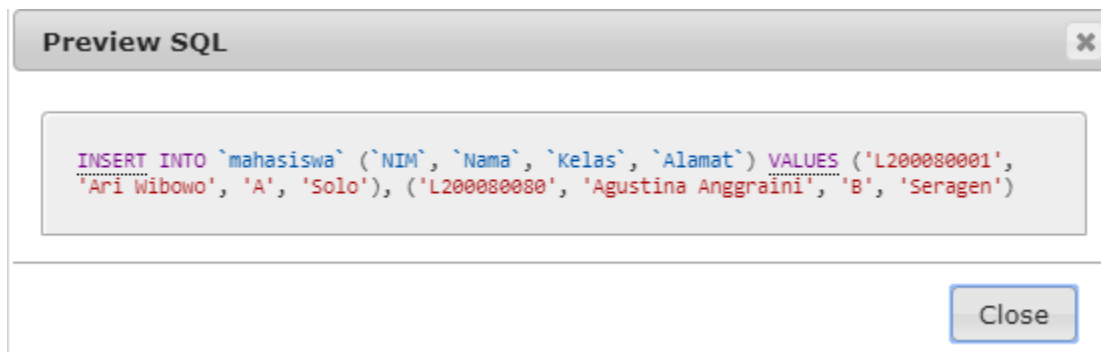
Percobaan 1 (Membuat Database)



Percobaan 2 (Membuat Table)



Percobaan 3 (Memasukan Data)



Percobaan 4 (Mengubah Data)

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 0.0000 seconds.)

```
SELECT * FROM Mahasiswa
```

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

+ 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

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

Percobaan 5 (Join)

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0000 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 [\[Edit inline\]](#) [\[Edit\]](#) [\[\]](#)

☐ 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](#)

[Bookmark this SQL query](#)

Label: ☐ Let every user access this bookmark

Percobaan 6 (Left Join)

✓ Showing rows 0 - 1 (2 total, Query took 0.0000 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 [\[Edit inline\]](#) [\[Edit\]](#) [\[\]](#) [\[Explain SQL \]](#)

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

+ 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:

Query results operations

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

[Bookmark this SQL query](#)

Label: ☐ Let every user access this bookmark

Percobaan 7 (Right Join)

Show query box

✓ Showing rows 0 - 2 (3 total, Query took 0.0000 seconds.)

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

☐ Profiling [Edit inline] [Edit]

☐ 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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Percobaan 8 (Fungsi AVG)

Bookmark this SQL query:

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

Hide query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available

✓ Showing rows 0 - 0 (1 total, Query took 0.0156 seconds.)

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

☐ Profiling

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

+ Options

Rata-rata Nilai
79.0000

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

Query results operations

Percobaan 9 (Fungsi Sum)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

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

```
SELECT SUM(nilai_Angka) 'Total nilai' FROM nilai
```

Profiling [Edit inline] [Edit]

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

+ Options
Total nilai
237

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Percobaan 10 (View))

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

Hide query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0780 seconds.)

```
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)
```

[Edit inline] [Edit]

Showing rows 0 - ... (Query took 0.0000 seconds.)

SELECT * FROM KHS

Profiling [Edit inline] [Edit] [Exp]

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

Options

	NIM	Nama_MK	Nilai_Angka	Nilai_HURuf
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200080080	Pemrograman Web	90	A

Check all With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Tugas 1, Apa Fungsi dari beberapa hal berikut :

- **SELECT**
Perintah SELECT merupakan perintah dasar SQL yang di gunakan untuk memilih data dari database. Data yang di kembalikan di simpan dalam tabel yang di sebut result-set.
- **JOIN**
INNER JOIN merupakan perintah dasar SQL yang di gunakan untuk menggabungkan beberapa tabel dan mengambil nilai yang cocok (identik) di antara kedua tabel tersebut.
- **LEFT JOIN**
LEFT JOIN merupakan perintah dasar SQL yang di gunakan untuk menggabungkan beberapa tabel dan mengambil nilai yang cocok (identik) di antara kedua tabel tersebut dan nilai lain dari tabel pada ruas kiri meskipun tak ada nilai yang cocok dengan tabel pada ruas kanan.
- **RIGHT JOIN**
RIGHT JOIN merupakan perintah dasar SQL yang di gunakan untuk menggabungkan beberapa tabel dan mengambil nilai yang cocok (identik) di antara kedua tabel tersebut dan nilai lain dari tabel pada ruas kanan meskipun tak ada nilai yang cocok dengan tabel pada ruas kiri.
- **AVG**
Fungsi AVG() merupakan perintah dasar SQL yang di gunakan untuk mendapatkan rata-rata record yang memenuhi suatu kriteria, tentunya nilai pada kolom harus numerik.
- **SUM**
Fungsi SUM() merupakan perintah dasar SQL yang di gunakan untuk mendapatkan jumlah record yang memenuhi suatu kriteria, tentunya nilai pada kolom harus numerik.

Tugas 2, Tuliskan Syntax SQL untuk mengisi data ALAMAT = 'Seragen' pada tabel mahasiswa (percobaan 3) pada NIM L200080080

The screenshot shows a SQL client window titled "Run SQL query/queries on database informatika:". The main query editor contains the following SQL statement:

```
1 UPDATE mahasiswa SET Alamat='Seragen' WHERE NIM='L200080080'
```

Below the query editor, there are buttons for "Clear", "Format", and "Get auto-saved query". There is also a checkbox for "Bind parameters" and a text field for "Bookmark this SQL query:". Below these, there are options for the query delimiter (set to semicolon) and several checkboxes: "Show this query here again" (checked), "Retain query box" (unchecked), "Rollback when finished" (unchecked), and "Enable foreign key checks" (checked). A "Hide query box" link is also present.

The execution result is displayed in a green box, indicating success:

```
✓ 1 row affected. (Query took 0.0780 seconds.)
```

Below the result, the executed SQL statement is shown again:

```
UPDATE mahasiswa SET Alamat='Seragen' WHERE NIM='L200080080'
```

At the bottom left, a status bar shows the current database: "s?db=informatika#".