

NAMA = CORRY LUQMA ZUNIRA

NIM = L200170152

KELAS = F

PRAKTIKUM PEMROGRAMAN WEB

MODUL 4

Percobaan 2.

Run SQL query/queries on database informatika: ?

```
1 CREATE TABLE Mahasiswa (  
2 NIM varchar(10) PRIMARY KEY NOT NULL,  
3 Nama char(50) NULL,  
4 Kelas char(5) NULL,  
5 Alamat char(50) NULL )
```

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

Percobaan 3.

Run SQL query/queries on table informatika.mahasiswa: ?

```
1 INSERT INTO mahasiswa VALUES ( 'L200080001', 'Ari Wibowo', 'A', 'Solo' )
```

Browse Structure SQL Search Insert Export Import Privileges

Run SQL query/queries on table informatika.mahasiswa: ?

```
1 SELECT * FROM mahasiswa
```

Run SQL query/queries on table informatika.mahasiswa: ?

```
1 INSERT INTO mahasiswa (NIM, Nama, Kelas) VALUES ('L200080080', 'Agustina', 'B');
```

☐ 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	B	NULL

↑ ☐ Check all | With selected: Edit Copy Delete Export

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

Percobaan 4.

Run SQL query/queries on table informatika.mahasiswa: ?

```
1 UPDATE mahasiswa SET Nama = 'Agustina Anggraini' WHERE Nama = 'Agustina';
```

+ 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 | Sort by key: None

Run SQL query/queries on database informatika: ?

```
1 CREATE TABLE Nilai (  
2 NIM varchar(10) PRIMARY KEY NOT NULL,  
3 Nama_MK char(20) NULL,  
4 Nilai_Angka int NULL,  
5 Nilai_Huruf char(5) NULL  
6 )|
```

ClearFormatGet auto-saved query

☐ Bind parameters ?

Run SQL query/queries on table informatika.nilai: ?

```
1 INSERT INTO nilai VALUES ( 'L200080002' , 'Kapita Selektta' , '60' , 'BC'),  
2 ( 'L200080010' , 'Pemrograman Web' , '87' , 'A'),  
3 ( 'L200080080' , 'Pemrograman Web' , '90' , 'A')|
```

SELECT *SELECTINSERTUPDATEDELETEClearFormat

Get auto-saved query

☐ Bind parameters ?

Percobaan 5(Join).

Run SQL query/queries on table informatika.nilai: ?

```
1 SELECT mahasiswa.NIM, mahasiswa>Nama, nilai>Nama_MK, nilai.Nilai_Angka, nilai.Nilai_Huruf from ( mahasiswa JOIN nilai  
2 on mahasiswa.NIM= nilai.NIM)|
```

SELECT *SELECTINSERTUPDATEDELETEClearFormat

Get auto-saved query

☐ Bind parameters ?

+ Options

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



Show all

Number of rows:

25



Filter rows:

Search this table

Percobaan 6. (left join)

Run SQL query/queries on table informatika.nilai:

```
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 )|
```

SELECT *

SELECT

INSERT

UPDATE

DELETE

Clear

Format

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080001	Ari Wibowo	NULL	NULL	NULL
L200080080	Agustina Anggraini	Pemrograman Web	90	A

Percobaan 7(Right Join)

Run SQL query/queries on table informatika.nilai:

```
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)|
```

SELECT *

SELECT

INSERT

UPDATE

DELETE

Clear

Format

Get auto-saved query

+ 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

Percobaan 8(fungsi AVG)

Run SQL query/queries on table informatika.nilai: ⓘ

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

SELECT * **SELECT** **INSERT** **UPDATE** **DELETE** **Clear** **Format**

+ Options

Rata-rata Nilai
79.0000

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

Percobaan 9(fungsi SUM)

Run SQL query/queries on table informatika.Nilai: ⓘ

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

SELECT * **SELECT** **INSERT** **UPDATE** **DELETE** **Clear** **Format**

+ Options
Total Nilai
237

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

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)
```

SELECT *

SELECT

INSERT

UPDATE

DELETE

Clear

Format

Get auto-saved query

SELECT * FROM KHS

+ 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:

Query results operations

TUGAS

1. Apa fungsi dari :

SELECT = Untuk menampilkan / memilih isi dari sebuah tabel

JOIN = Menampilkan data dari beberapa tabel

LEFT JOIN = Menghubungkan tabel & menampilkan semua data **kiri** pada tabel yang tidak berhubungan, sedangkan data yang **kanan** kosong akan bernilai NULL.

RIGHT JOIN = Menghubungkan tabel & menampilkan semua data **kanan** pada tabel yang tidak berhubungan, sedangkan data yang **kiri** kosong akan bernilai NULL

AVG = Menghitung rata rata nilai dari sekumpulan record

SUM = Menjumlahkan nilai dari sekumpulan record

2.

The screenshot shows a database management interface. At the top, a text box contains the SQL query: `1 UPDATE mahasiswa SET Alamat = 'Sragen' WHERE NIM= 'L200080080' |`. Below the text box are buttons for **SELECT ***, **SELECT**, **INSERT**, **UPDATE**, **DELETE**, **Clear**, and **Format**. Below these buttons is a section titled **+ Options** which contains a table with columns **NIM**, **Nama**, **Kelas**, and **Alamat**. The table has two rows of data. Each row has a checkbox, an **Edit** button, a **Copy** button, and a **Delete** button. At the bottom of the interface, there is a **Check all** checkbox, a **With selected:** label, and buttons for **Edit**, **Copy**, **Delete**, and **Export**.

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