

PRACTICUM DYNAMIC WEB

MODUL 4

DYNAMIC WEB



By:

Donny Rizal Adhi Pratama

L200183161

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

## Percobaan 1

### SQL

Run SQL query/queries on server "127.0.0.1": ⓘ

1 CREATE DATABASE Informatika

## Percobaan 2

### SQL

Run SQL query/queries on database informatika: ⓘ

1 CREATE TABLE mahasiswa(  
2     nim CHARACTER(10) PRIMARY KEY NOT NULL,  
3     nama CHARACTER(50) NULL,  
4     kelas CHARACTER(50) NULL,  
5     alamat CHARACTER(50) NULL);

### Result

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0919 seconds.)

CREATE TABLE mahasiswa( nim CHARACTER(10) PRIMARY KEY NOT NULL, nama CHARACTER(50) NULL, kelas CHARACTER(50) NULL, alamat CHARACTER(50) NULL)

## Percobaan 3

### SQL

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

1 INSERT INTO `mahasiswa`(`nim`, `nama`, `kelas`, `alamat`) VALUES ("L200180001", "Ari Wibowo", "A", "Solo");

### Result

Show query box

✓ 1 row inserted. (Query took 0.0159 seconds.)

INSERT INTO `mahasiswa`(`nim`, `nama`, `kelas`, `alamat`) VALUES ("L200180001", "Ari Wibowo", "A", "Solo")

### SQL

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

1 INSERT INTO `mahasiswa`(`nim`, `nama`, `kelas`) VALUES ("L200180000", "Agustina", "B")

### Result

Show query box

✓ 1 row inserted. (Query took 0.0158 seconds.)

```
INSERT INTO `mahasiswa`(`nim`, `nama`, `kelas`) VALUES ("L200180080", "Agustina", "B")
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0022 seconds.)

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

☐ Show all | Number of rows: 25 ▼

+ Options

<div>↩️ ↪️</div>				nim	nama	kelas	alamat
<input type="checkbox"/>	Edit	Copy	Delete	L200180001	Ari Wibowo	A	Solo
<input type="checkbox"/>	Edit	Copy	Delete	L200180080	Agustina	B	NULL

## Percobaan 4

### SQL

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

```
1 UPDATE `mahasiswa` SET nama="Agustina Anggraini" WHERE nama="Agustina"
```

### Result

Show query box

✓ 1 row affected. (Query took 0.0139 seconds.)

```
UPDATE `mahasiswa` SET nama="Agustina Anggraini" WHERE nama="Agustina"
```

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

☐ Show all | Number of rows: 25 ▼

+ Options

				nim	nama	kelas	alamat
<input type="checkbox"/>	Edit	Copy	Delete	L200180001	Ari Wibowo	A	Solo
<input type="checkbox"/>	Edit	Copy	Delete	L200180080	Agustina Anggraini	B	NULL

## Percobaan 5

### SQL

```
SELECT * FROM `nilai`
```

☐ Show all | Number of rows: 25 ▼

+ Options

			NIM	Nama_MK	Nilai_Angka	Nilai_Huruf
<input type="checkbox"/>	Edit	Copy	Delete	L200180002	Kapita Seleкта	60 B
<input type="checkbox"/>	Edit	Copy	Delete	L200180010	Pemrograman Web	87 A
<input type="checkbox"/>	Edit	Copy	Delete	L200180080	Pemrograman Web	90 A

### Result

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0101 seconds.)

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

☐ Show all | Number of rows: 25 ▼

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200180080	Agustina Anggraini	Pemrograman Web	90	A

## Percobaan 6

### SQL & RESULT

✓ Showing rows 0 - 1 (2 total, Query took 0.0106 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)
```

☐ Show all | Number of rows: 25 ▼

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200180001	Ari Wibowo	NULL	NULL	NULL
L200180080	Agustina Anggraini	Pemrograman Web	90	A

## Percobaan 7

### SQL & Result

✓ Showing rows 0 - 2 (3 total, Query took 0.0060 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)
```

☐ Show all | Number of rows: 25 ▼

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
NULL	NULL	Kapita Seleкта	60	B
NULL	NULL	Pemrograman Web	87	A
L200180080	Agustina Anggraini	Pemrograman Web	90	A

## Percobaan 8

### SQL & Result

```
SELECT AVG(Nilai_Angka) AS "Rata-Rata Nilai" FROM Nilai
```

☐ Show all | Number of rows: 25 ▼

+ Options

**Rata-Rata Nilai**

79.0000

## Percobaan 9

### SQL & Result

```
SELECT SUM(Nilai_Angka) AS "Total Nilai" FROM Nilai
```

☐ Show all | Number of rows: 25 ▼

+ Options

**Total Nilai**

237

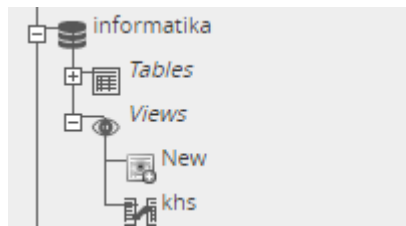
## Percobaan 10

### SQL & Result

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)
```

### Result



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

☐ Show all | Number of rows: 25 ▼

+ Options

←T→	NIM	Nama_MK	Nilai_Angka	Nilai_Huruf
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200180080	Pemrograman Web	90	A

## TUGAS

1. What is the function of these?

- **SELECT**  
Use to selecting data in a table
- **JOIN**  
**JOIN** is a command to show all data that has a same value.
- **LEFT JOIN**  
**LEFT JOIN** is one way to connect table and show all the data (LEFT) in table that has no connection, while the empty data will be NULL.
- **RIGHT JOIN**  
**RIGHT JOIN** is almost same as **LEFT JOIN** but in reverse, while **RIGHT JOIN** will join table and show all the data (RIGHT) in table that has no connection, while the empty data will be NULL.
- **AVG**  
Use to calculate the average value in a column that is inside a table in database.
- **SUM**  
Use to calculate the total value in a column that is inside a table in database.

2. Write a SQL Syntax to fill the address of NIM L200180080

☐ Show all | Number of rows: 25 ▼

+ Options

←T→	nim	nama	kelas	alamat
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200180001	Ari Wibowo	A	Solo
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	L200180080	Agustina Anggraini	B	NULL

(Initial State)

## SQL

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

```
1 UPDATE `mahasiswa` SET `alamat`="Sragen" WHERE nim="L200180080"
```

## Result

Show query box







✓ 1 row affected. (Query took 0.0109 seconds.)

```
UPDATE `mahasiswa` SET `alamat`="Sragen" WHERE nim="L200180080"
```

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

☐ Show all | Number of rows: 25 ▼

+ Options

			nim	nama	kelas	alamat
<input type="checkbox"/>	 Edit	 Copy	 Delete	L200180001	Ari Wibowo	A Solo
<input type="checkbox"/>	 Edit	 Copy	 Delete	L200180080	Agustina Anggraini	B Sragen