# LAPORAN PRAKTIKUM PEMROGRAMAN WEB MODUL 4



## **DISUSUN OLEH:**

NIM	L200220277
NAMA	MHD. FARHAN LUBIS
KELAS	F

PROGRAM STUDI INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA

# **DAFTAR ISI**

DAFT	'AR ISI	2
LATI	HAN	3
1)	Percobaan 1 (Membuat Database)	3
2)	Percobaan 2 (Membuat Tabel)	4
3)	Percobaan 3 (Memasukkan Data)	5
4)	Percobaan 4 (Mengubah Data)	5
<b>5</b> )	Percobaan 5 (Join)	6
<b>6</b> )	Percobaan 6 (Left Join)	6
<b>7</b> )	Percobaan 7 (Right Join)	6
8)	Percobaan 8 (Fungsi AVG)	6
9)	Percobaan 9 (Fungsi SUM)	6
10)	Percobaan 10 (View)	6
TUGA	<b>\S</b>	7
1)	Fungsi beberapa function	7
2)	Mengisi data Alamat "Sragen" pada tabel Mahasiswa (percobaan 3) pada NIM L2000808	<b>0.</b> 7

#### LATIHAN

1) Percobaan 1 (Membuat Database)

```
MariaDB [(none)]> CREATE DATABASE informatics;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> show databases;
  Database
 akademik
case study a
| company_employees_test
| election_webapp
| empattendanceci
| informatics
| information_schema
| karyawansi
| mfl4 blog
| mysql
| notes api
| perbankan
| performance_schema
| phpmyadmin
| test
 web_pemilu_fosti
16 rows in set (0.001 sec)
```

2) Percobaan 2 (Membuat Tabel)

```
MariaDB [(none)]> use informatics;
Database changed
MariaDB [informatics]> CREATE TABLE student (
    → student id varchar(10) PRIMARY KEY NOT NULL,
    \rightarrow name char(50) NULL,
    \rightarrow class char(5) NULL,
    → address char(50) NULL
    \rightarrow );
Query OK, 0 rows affected (0.016 sec)
MariaDB [informatics]> show tables;
 Tables in informatics |
 student
1 row in set (0.038 sec)
MariaDB [informatics]> DESC student;
| Field
                            | Null | Key | Default | Extra
               Туре
 student id | varchar(10) | NO
                                     PRI | NULL
 name
              l char(50)
                            l YES
                                          NULL
                                          NULL
 class
              l char(5)
                            l YES
             | char(50)
  address
                            l YES
                                          NULL
4 rows in set (0.007 sec)
```

#### 3) Percobaan 3 (Memasukkan Data)

```
MariaDB [informatics]> INSERT INTO student VALUES
    → ('l200080001', 'Ari Wibowo', 'A', 'Solo');
Query OK, 1 row affected (0.011 sec)
MariaDB [informatics]> SELECT * FROM student;
| student id | name
                          | class | address
| 1200080001 | Ari Wibowo | A
                                  l Solo
1 row in set (0.001 sec)
MariaDB [informatics]> INSERT INTO student (student_id, name, class)
    → VALUES ('L200080080', 'Agustina', 'B');
Query OK, 1 row affected (0.003 sec)
MariaDB [informatics]> SELECT * FROM student;
                          | class | address
| student id | name
| L200080001 | Ari Wibowo | A
                                  l Solo
| L200080080 | Agustina
                                  NULL
2 rows in set (0.001 sec)
```

### 4) Percobaan 4 (Mengubah Data)

```
MariaDB [informatics]> UPDATE student SET name='Agustina Anggraini'
    → WHERE name='Agustina':
Query OK, 1 row affected (0.014 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [informatics]> SELECT * FROM student;
| student id | name
                                  | class | address
 l200080001 | Ari Wibowo
                                          l Solo
| L200080080 | Agustina Anggraini | B
                                           NULL
2 rows in set (0.000 sec)
```

#### 5) Percobaan 5 (Join)

<pre>MariaDB [informatics]&gt; SELECT stude ent_id);</pre>	ent.student_id, st	udent.name, score	e.course_name, sco	ore.numeric_score,	score.alphabet_score FF	OM (student J	DIN score ON stud	ent.student_id =	= score.stud
student_id   name	course_name	numeric_score	alphabet_score						
	Kapita Selekta   Pemrograman Web   Pemrograman Web	87	A						
*3 rows in set (0.039 sec)	+	+							

#### 6) Percobaan 6 (Left Join)

MariaDB [informatics]> SELECT student.student_id, student.name, score.course_name, score.numeric_score, score.alphabet_score FROM (student LEFT JOIN score ON student.student_id = score.student_id);								
student_id   name	course_name	numeric_score	alphabet_score	Ī				
1200080002   Freya   1200080010   Gita   L200080080   Agustina Anggraini   1200080001   Ari Wibowo	Kapita Selekta   Pemrograman Web   Pemrograman Web   NULL	87 90	l A i					
4 rows in set (0.000 sec)								

### 7) Percobaan 7 (Right Join)

```
.student_ld, student.name, score.course_name, score.numeric_score, score.alphabet_score FROM (student RIGHT JOIN score ON student_td = sco
| student_id | name
                                                               | numeric_score | alphabet_score |
 l200080002 | Freya | Kapita Selekta
l200080010 | Gita | Pemrograman Web
L200080080 | Agustina Anggraini | Pemrograman Web
3 rows in set (0.037 sec)
```

#### 8) Percobaan 8 (Fungsi AVG)

```
MariaDB [informatics]> SELECT AVG(numeric_score) 'Average Score' FROM score;
 Average Score |
        79.0000 |
1 row in set (0.039 sec)
```

## 9) Percobaan 9 (Fungsi SUM)

```
MariaDB [informatics] > SELECT SUM(numeric score) 'Total Score' FROM score;
 Total Score |
          237
1 row in set (0.001 sec)
```

#### 10)Percobaan 10 (View)

```
artabB [informatics]> CREATE VIEW SRC AS SELECT student.student_id, score.course_name, score.numeric_score, score.alphabet_score FROM (student INNER JOIN score ON student.student_id score.student_id);
uery OK, 0 rows affected (0.042 sec)
MariaDB [informatics]> SELECT * FROM SRC;
```

## **TUGAS**

1) Fungsi beberapa function

No	Nama	Fungsi
1	SELECT	Memilih data dari satu atau lebih tabel
2	JOIN	Menggabungkan baris dari dua atau lebih tabel berdasarkan kolom-kolom yang memiliki nilai yang sama
3	LEFT JOIN	Menggabungkan setiap baris dari tabel di sebelah kiri (tabel pertama yang disebutkan dalam pernyataan JOIN) dengan setiap baris yang sesuai dari tabel di sebelah kanan (tabel kedua yang disebutkan dalam pernyataan JOIN)
4	RIGHT JOIN	Menggabungkan setiap baris dari tabel di sebelah kanan dengan setiap baris yang sesuai dari tabel di sebelah kiri
5	AVG	Menghitung nilai rata-rata dari sebuah kolom numerik
6	SUM	Menghitung total jumlah dari nilai-nilai dalam sebuah kolom numerik

2) Mengisi data Alamat "Sragen" pada tabel Mahasiswa (percobaan 3) pada NIM L20008080.

```
MariaDB [informatics] > UPDATE student SET address='Sragen'
    → WHERE student_id='L200080080';
Query OK, 1 row affected (0.012 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [informatics]> SELECT * FROM student;
                                    class
                                           address
  student id |
              name
 l200008080
              Туа
                                           Sragen
 1200080001 | Ari Wibowo
                                          | Solo
 l200080002 | Freya
                                           Yogyakarta
                                           Tangerang
 l200080010 | Gita
                                    Α
 l200080011 | Michie
                                    В
                                          | Jakarta
 L200080080 | Agustina Anggraini | B
                                          Sragen
6 rows in set (0.001 sec)
```