

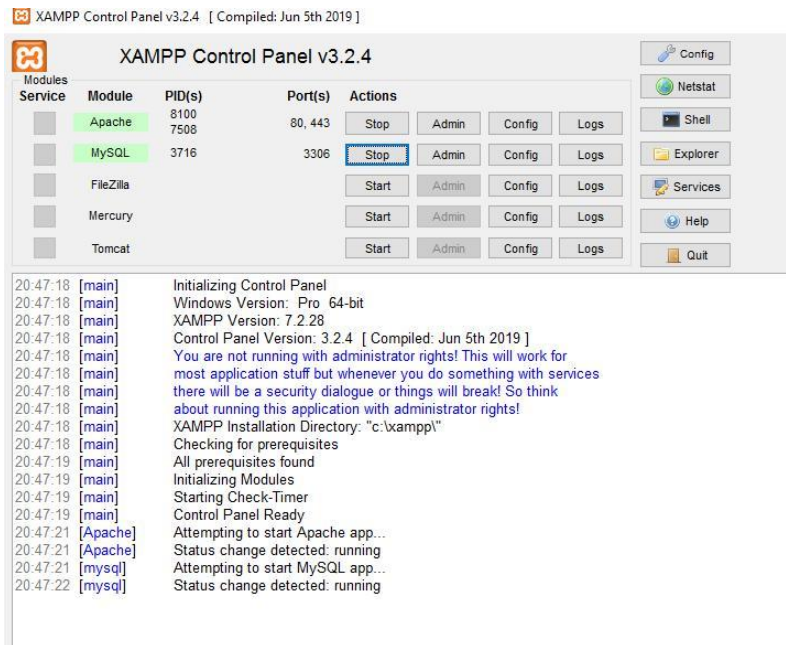
NAMA : Iqbal Ramadhani

NIM : L200180155

KELAS : F

PRAKTIKUM BASIS DATA Modul 5

1. Run Xampp Control Panel, Start Apache dan MySQL



2. Buka CMD dan Login MySQL

```
C:\Users\Win10>cd\

C:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 22
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
```

3. Input data nasabah

```
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (1, 'Sutopo', 'Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.142 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (2, 'Maryati', 'Jl. MT. Haryono 31');
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (3, 'Suparman', 'Jl. Hasanuddin 81');
Query OK, 1 row affected (0.044 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (4, 'Kartika Padmasari', 'Jl. Manggis 15');
Query OK, 1 row affected (0.045 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (5, 'Budi Eko Prayogo', 'Jl. Kantil 30');
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45');
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (9, 'Canka Lokananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.073 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES (10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.048 sec)
```

4. Input data cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.107 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P.Tendean 43');
Query OK, 1 row affected (0.027 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Suparman 23');
Query OK, 1 row affected (0.045 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21');
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> VALUES ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 1 row affected (0.037 sec)
```

5. Input data rekening

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (101, 'BRUS', '1111', 500000);
Query OK, 1 row affected (0.103 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (102, 'BRUS', '2222', 350000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (103, 'BRUS', '3333', 750000);
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (104, 'BRUM', '4444', 900000);
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (105, 'BRUM', '5555', 2000000);
Query OK, 1 row affected (0.034 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (106, 'BRUS', '6666', 3000000);
Query OK, 1 row affected (0.031 sec)
```

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (107, 'BRUS', '7777', 1000000);
Query OK, 1 row affected (0.067 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (108, 'BRUB', '0000', 5000000);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (109, 'BRUB', '9999', 0);
Query OK, 1 row affected (0.078 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (110, 'BRUY', '1234', 550000);
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (111, 'BRUK', '4321', 150000);
Query OK, 1 row affected (0.065 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (112, 'BRUK', '0123', 300000);
Query OK, 1 row affected (0.032 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo)
-> VALUES (113, 'BRUY', '8888', 250000);
```

6. Input data nasabah_has_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (2, 103);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (3, 105);
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (3, 106);
Query OK, 1 row affected (0.044 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (4, 101);
Query OK, 1 row affected (0.033 sec)
```



```

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (4, 107);
Query OK, 1 row affected (0.027 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (5, 102);
Query OK, 1 row affected (0.051 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (5, 107);
Query OK, 1 row affected (0.033 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (6, 109);
Query OK, 1 row affected (0.026 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (7, 109);
Query OK, 1 row affected (0.033 sec)

```

```

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (8, 111);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (9, 110);
Query OK, 1 row affected (0.034 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (10, 113);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (8, 112);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> VALUES (10, 108);
Query OK, 1 row affected (0.054 sec)

```

```

MariaDB [perbankan]> SELECT *FROM transaksi;

```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	105	3	debit	0000-00-00 00:00:00	50000
2	103	2	debit	0000-00-00 00:00:00	40000
3	101	4	kredit	0000-00-00 00:00:00	20000
4	106	3	debit	0000-00-00 00:00:00	50000
5	107	5	kredit	0000-00-00 00:00:00	30000
6	104	1	kredit	0000-00-00 00:00:00	200000
7	110	9	kredit	0000-00-00 00:00:00	150000
8	102	5	debit	0000-00-00 00:00:00	20000
9	105	3	kredit	0000-00-00 00:00:00	50000
10	107	4	debit	0000-00-00 00:00:00	100000
11	103	2	debit	0000-00-00 00:00:00	100000
12	104	1	debit	0000-00-00 00:00:00	200000
13	107	4	kredit	0000-00-00 00:00:00	40000
14	105	3	debit	0000-00-00 00:00:00	100000
15	104	1	kredit	0000-00-00 00:00:00	20000
16	101	4	kredit	0000-00-00 00:00:00	50000
17	103	2	debit	0000-00-00 00:00:00	50000
18	102	5	debit	0000-00-00 00:00:00	100000
19	108	10	debit	0000-00-00 00:00:00	200000
20	106	3	kredit	0000-00-00 00:00:00	100000
21	103	2	kredit	0000-00-00 00:00:00	20000
22	105	3	kredit	0000-00-00 00:00:00	50000
23	102	5	debit	0000-00-00 00:00:00	200000
24	104	1	debit	0000-00-00 00:00:00	50000
25	103	2	debit	0000-00-00 00:00:00	40000
26	101	4	debit	0000-00-00 00:00:00	50000
27	103	2	kredit	0000-00-00 00:00:00	100000
28	102	5	kredit	0000-00-00 00:00:00	200000
29	109	7	debit	0000-00-00 00:00:00	100000
30	110	9	debit	0000-00-00 00:00:00	20000

```

30 rows in set (0.001 sec)

```

8. Update alamat_nasabah 'indri hapsari' dan alamat cabang_bank 'Jl Ahmad Yani 23'.

```
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jl. Slamet Riyadi 34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.064 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perbankan]>
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jl Ahmad Yani 23'
-> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.162 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

6	Satria Eka Jaya	Jl. Slamet Riyadi 45
7	Indri Hapsari	Jl. Slamet Riyadi 34
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokananta	Jl. Tidar 86

BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUW	Bank Rut Unit Wonogiri	Jl Ahmad Yani 23

9. Hapus nasabah id '7' menutup rekening dan nama_cabang 'Bank Rut Unit Magelang' menutup kantor.

```
MariaDB [perbankan]> DELETE FROM nasabah
-> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.074 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank
-> WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.184 sec)
```

```
MariaDB [perbankan]> SELECT *FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparman | Jl. Hasanuddin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
9 rows in set (0.001 sec)
```

```
MariaDB [perbankan]> SELECT *FROM cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jl Ahmad Yani 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
5 rows in set (0.000 sec)
```

TUGAS

Memasukkan data nasabah

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT FROM nasabah;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
for the right syntax to use near 'FROM nasabah' at line 1
MariaDB [perbankan]> SELECT *FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparman | Jl. Hasanuddin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | danu | sragen |
| 12 | aziss | sragen |
| 13 | banu | karanganyar |
| 14 | aji | karanganyar |
| 15 | iqbal | wonogiri |
| 16 | hanan | sragen |
| 17 | ilyas | wonogiri |
| 18 | ahluzaain | lampung |
| 19 | amri | solo |
| 20 | riza | solo |
+-----+-----+-----+
19 rows in set (0.001 sec)

MariaDB [perbankan]>
```

Memasukkan data rekening

```
C:\Windows\system32\cmd.exe - mysql -u root -p
+-----+-----+-----+-----+
| no_rekening | kode_cabang | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 750000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 2000000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 250000 |
| 114 | BRUS | 2345 | 500000 |
| 115 | BRUY | 3456 | 500000 |
| 116 | BRUS | 4567 | 500000 |
| 117 | BRUK | 5678 | 500000 |
| 118 | BRUK | 6789 | 500000 |
| 119 | BRUY | 7890 | 500000 |
| 120 | BRUK | 8901 | 500000 |
| 121 | BRUY | 9012 | 500000 |
| 122 | BRUS | 0123 | 500000 |
| 123 | BRUY | 3210 | 500000 |
+-----+-----+-----+-----+
23 rows in set (0.001 sec)

MariaDB [perbankan]>
```

Memasukkan data pada nasabah_has_rekening

```
MariaDB [perbankan]> SELECT *FROM nasabah_has_rekening;
```

id_nasabahFK	no_rekeningFK
1	104
2	103
3	105
3	106
4	101
4	107
5	102
5	107
6	109
7	109
8	111
8	112
9	110
10	108
10	113
11	104
12	106
13	105
14	106
15	111
16	112
17	104
18	109
19	110
20	103

Memasukkan data ke tabel transaksi

31	15	120	kredit	0000-00-00 00:00:00	450000
32	10	125	kredit	0000-00-00 00:00:00	60000
33	11	116	debit	0000-00-00 00:00:00	4000000
34	11	116	kredit	0000-00-00 00:00:00	257000
35	17	122	debit	0000-00-00 00:00:00	43000
36	12	117	debit	0000-00-00 00:00:00	73000
37	12	117	kredit	0000-00-00 00:00:00	125000
38	18	123	kredit	0000-00-00 00:00:00	900000
39	11	116	debit	0000-00-00 00:00:00	1100000
40	19	124	kredit	0000-00-00 00:00:00	700000
41	20	125	kredit	0000-00-00 00:00:00	27000
42	18	123	debit	0000-00-00 00:00:00	338000
43	12	117	debit	0000-00-00 00:00:00	44000
44	16	121	kredit	0000-00-00 00:00:00	200000
45	16	121	kredit	0000-00-00 00:00:00	400000
46	16	121	debit	0000-00-00 00:00:00	30000
47	14	119	kredit	0000-00-00 00:00:00	220000
48	11	116	kredit	0000-00-00 00:00:00	4450000
49	11	116	debit	0000-00-00 00:00:00	2000000
50	11	116	debit	0000-00-00 00:00:00	7000000