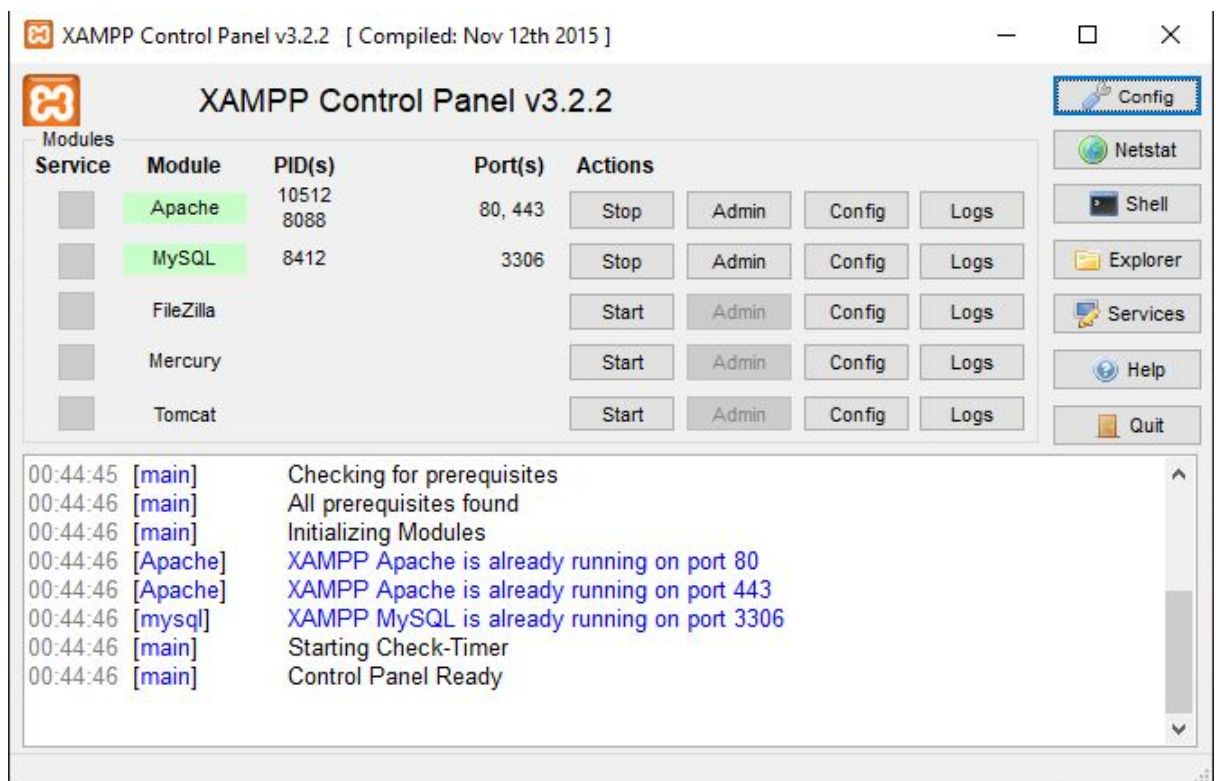Nama   : Dzaki Fadhlurrohman
NIM   : L200180064
Kelas   : C

Prak-SBD
Modul 5

Latihan

1. Buka XAMPP , lalu aktifkan server apache dan mysql

2. Setelah itu masuk ke cmd dan login sebagai root ke mysql

3. Tampilkan table database, lalu pilih/ masuk ke databse perbankan

4. Kemudian masukan data yang diperintahkan
   a. Insert table nasabah

   b. Insert table cabang_bank

   c. Insert table rekening

d. Insert table nasabah_has_rekening

e. insert table transaksi

5. Lakukan update untuk kasus berikut
   a. Nasabah dengan nama "Indri Hapsari " pindah alamat ke "Jalan Slamet Riyadi No.34"

   Sebelum

```
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. Hasanudin 81       |
|          4 | Kartika Padmasari | Jl. Manggis 15         |
|          5 | Budi Eko Prayogo  | Jl. Kantil 30          |
|          6 | Satria Eka Jaya   | Jl. Slamet Riyadi 45   |
|          7 | Indri Hapsari     | Jl. Sutoyo 5           |
|          8 | Sari Murti        | Jl. Pangandaran 11     |
|          9 | Canka Loknanta    | Jl. Tidar 86           |
|         10 | Budi Murtono      | Jl. Merak 22           |
+------------+-------------------+------------------------+
10 rows in set (0.05 sec)

MariaDB [perbankan]>
```

Sesudah

```
30 rows in set (0.00 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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. Hasanudin 81       |
|          4 | Kartika Padmasari | Jl. Manggis 15         |
|          5 | Budi Eko Prayogo  | Jl. Kantil 30          |
|          6 | Satria Eka Jaya   | Jl. Slamet Riyadi 45   |
|          7 | Indri Hapsari     | Jl. Slamet Riyadi 34   |
|          8 | Sari Murti        | Jl. Pangandaran 11     |
|          9 | Canka Loknanta    | Jl. Tidar 86           |
|         10 | Budi Murtono      | Jl. Merak 22           |
+------------+-------------------+------------------------+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

b.

Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23"

Sebelum

```
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       |
| BRUM        | Bank Rut Unit Magelang | Jl. P.Tendean 63      |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21      |
+-------------+-----------------------+------------------------+
6 rows in set (0.05 sec)

MariaDB [perbankan]>
```

Sesudah

```
MariaDB [perbankan]> update cabang_bank set  alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.11 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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      |
| BRUM        | Bank Rut Unit Magelang  | Jl. P.Tendean 63     |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri  | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
6 rows in set (0.00 sec)

MariaDB [perbankan]>
```

6. Lakukan penghapusan untuk kasus berikut
   a. Lakukan penghapusan untuk kasus berikut
      Sebelum

```
30 rows in set (0.00 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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. Hasanudin 81       |
|          4 | Kartika Padmasari | Jl. Manggis 15         |
|          5 | Budi Eko Prayogo  | Jl. Kantil 30          |
|          6 | Satria Eka Jaya   | Jl. Slamet Riyadi 45   |
|          7 | Indri Hapsari     | Jl. Slamet Riyadi 34   |
|          8 | Sari Murti        | Jl. Pangandaran 11     |
|          9 | Canka Loknanta    | Jl. Tidar 86           |
|         10 | Budi Murtono      | Jl. Merak 22           |
+------------+-------------------+------------------------+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

Sesudah

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.08 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. Hasanudin 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 Loknanta    | Jl. Tidar 86           |
|         10 | Budi Murtono      | Jl. Merak 22           |
+------------+-------------------+------------------------+
9 rows in set (0.00 sec)

MariaDB [perbankan]>
```

   b. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup Kantornya

Sebelum

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 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. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
5 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

Sesudah

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 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. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
5 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

TUGAS

1. Record tabel nasabah


```
(14,'suherman',Jl.   at line 3
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values
    -> (11,'khoir','Jl. Mawar 10'),
    -> (12,'khoirudin','Jl. Mawar 20'),
    -> (13,'conv','Jl. Melati 20'),
    -> (14,'suherman','Jl. Melati 30'),
    -> (15,'rohmad','Jl. Sudirman 30'),
    -> (16,'idfi','Jl. Soeharto 12'),
    -> (17,'sari','Jl. Soeharto 15'),
    -> (18,'lia','Jl. Soekarno 13'),
    -> (19,'asri','Jl. broto 8'),
    -> (20,'ikhsani','Jl. gatot 9');
Query OK, 10 rows affected (0.20 sec)
Records: 10  Duplicates: 0  Warnings: 0

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. Hasanudin 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 Loknanta    | Jl. Tidar 86          |
|         10 | Budi Murtono      | Jl. Merak 22          |
|         11 | khoir             | Jl. Mawar 10          |
|         12 | khoirudin         | Jl. Mawar 20          |
|         13 | conv              | Jl. Melati 20         |
|         14 | suherman          | Jl. Melati 30         |
|         15 | rohmad            | Jl. Sudirman 30       |
|         16 | idfi              | Jl. Soeharto 12       |
|         17 | sari              | Jl. Soeharto 15       |
|         18 | lia               | Jl. Soekarno 13       |
|         19 | asri              | Jl. broto 8           |
|         20 | ikhsani           | Jl. gatot 9           |
+------------+-------------------+------------------------+
19 rows in set (0.04 sec)
```

2. Record tabel cabang_bank

3. Record tabel rekening

```
MariaDB [perbankan]> select * from rekening;
+------------+-------------+-------+----------+
| no_rekening | kode_cabang | pin   | saldo    |
+------------+-------------+-------+----------+
|        101 | BRUS        | 1111  |   500000 |
|        102 | BRUS        | 2222  |   350000 |
|        103 | BRUS        | 3333  |   750000 |
|        104 | BRUM        | 4444  |   900000 |
|        105 | BRUM        | 55555 |  2000000 |
|        106 | BRUS        | 6666  |  3000000 |
|        107 | BRUS        | 7777  |  1000000 |
|        108 | BRUB        | 0     |  5000000 |
|        109 | BRUB        | 9999  |        0 |
|        110 | BRUY        | 1234  |   550000 |
|        111 | BRUK        | 4321  |   150000 |
|        112 | BRUK        | 123   |   300000 |
|        113 | BRUY        | 8888  |   255000 |
|        114 | BRUA        | 2345  |  1000000 |
|        115 | BRUB        | 3456  |  2000000 |
|        116 | BRUB        | 4567  |  3000000 |
|        117 | BRUS        | 5678  |  4000000 |
|        118 | BRUG        | 6789  |  5000000 |
|        119 | BRUA        | 7890  |  6000000 |
|        120 | BRUY        | 1357  |  7000000 |
|        121 | BRUK        | 2468  |  8000000 |
|        122 | BRUF        | 1290  |  9000000 |
|        123 | BRUH        | 1290  | 10000000 |
+------------+-------------+-------+----------+
23 rows in set (0.00 sec)

MariaDB [perbankan]>
```

4. Record tabel nasabah_has_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values
    -> (11,114),
    -> (12,115),
    -> (13,116),
    -> (14,117),
    -> (15,118),
    -> (16,119),
    -> (17,120),
    -> (18,121),
    -> (19,122),
    -> (20,123);
Query OK, 10 rows affected (0.09 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> select * from nasabah_has_rekening;
+--------------+---------------+
| id_nasabahFK | no_rekeningFK |
+--------------+---------------+
|            1 |           104 |
|            2 |           103 |
|            3 |           105 |
|            3 |           106 |
|            4 |           101 |
|            4 |           106 |
|            4 |           107 |
|            5 |           102 |
|            5 |           107 |
|            6 |           109 |
|            7 |           109 |
|            8 |           111 |
|            8 |           112 |
|            9 |           110 |
|           10 |           108 |
|           10 |           113 |
|           11 |           114 |
|           12 |           115 |
|           13 |           116 |
|           14 |           117 |
|           15 |           118 |
|           16 |           119 |
|           17 |           120 |
|           18 |           121 |
|           19 |           122 |
|           20 |           123 |
+--------------+---------------+
26 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

5. Record transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values
    -> (31,114,11,'debit','2020-01-11',100000),
    -> (32,114,11,'kredit','2020-01-11',50000),
    -> (33,115,12,'debit','2020-01-22',200000),
    -> (34,115,12,'kredit','2020-01-24',50000),
    -> (35,116,13,'debit','2020-01-26',300000),
    -> (36,116,13,'kredit','2020-01-28',50000),
    -> (37,117,14,'debit','2020-02-01',400000),
    -> (38,117,14,'kredit','2020-02-03',50000),
    -> (39,118,15,'debit','2020-02-05',500000),
    -> (40,118,15,'kredit','2020-02-07',50000),
    -> (41,119,16,'debit','2020-02-09',600000),
    -> (42,119,16,'kredit','2020-02-11',50000),
    -> (43,120,17,'debit','2020-02-13',700000),
    -> (44,120,17,'kredit','2020-02-15',50000),
    -> (45,121,18,'debit','2020-02-17',800000),
    -> (46,121,18,'kredit','2020-02-19',50000),
    -> (47,122,19,'debit','2020-03-05',900000),
    -> (48,122,19,'kredit','2020-03-25',50000),
    -> (49,123,20,'debit','2020-03-09',1000000),
    -> (50,123,20,'kredit','2020-03-29',500000);
Query OK, 20 rows affected (0.11 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> select * from transaksi;
+--------------+--------------+---------------+-----------------+---------------------+---------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah  |
+--------------+--------------+---------------+-----------------+---------------------+---------+
|            1 |            3 |           105 | debit           | 2019-11-10 00:00:00 |   50000 |
|            2 |            2 |           103 | debit           | 2019-11-10 00:00:00 |   40000 |
|            3 |            4 |           101 | kredit          | 2019-11-12 00:00:00 |   20000 |
|            4 |            3 |           106 | debit           | 2019-11-13 00:00:00 |   30000 |
|            5 |            5 |           107 | kredit          | 2019-11-13 00:00:00 |   30000 |
|            6 |            1 |           104 | kredit          | 2019-11-15 00:00:00 |  200000 |
|            7 |            9 |           110 | kredit          | 2019-11-15 00:00:00 |  150000 |
|            8 |            5 |           102 | debit           | 2019-11-16 00:00:00 |   20000 |
|            9 |            3 |           105 | kredit          | 2019-11-18 00:00:00 |   50000 |
|           10 |            4 |           107 | debit           | 2019-11-19 00:00:00 |  100000 |
|           11 |            2 |           103 | debit           | 2019-11-19 00:00:00 |  100000 |
|           12 |            1 |           104 | debit           | 2019-11-19 00:00:00 |   50000 |
|           13 |            4 |           107 | kredit          | 2019-11-20 00:00:00 |  200000 |
|           14 |            3 |           105 | debit           | 2019-11-21 00:00:00 |   40000 |
|           15 |            1 |           104 | kredit          | 2019-11-22 00:00:00 |  100000 |
|           16 |            4 |           101 | kredit          | 2019-11-22 00:00:00 |   20000 |
|           17 |            2 |           103 | debit           | 2019-11-22 00:00:00 |   50000 |
|           18 |            5 |           102 | debit           | 2019-11-25 00:00:00 |   50000 |
|           19 |           10 |           108 | debit           | 2019-11-26 00:00:00 |  100000 |
|           20 |            3 |           106 | kredit          | 2019-11-27 00:00:00 |   50000 |
|           21 |            2 |           103 | kredit          | 2019-11-28 00:00:00 |  200000 |
|           22 |            3 |           105 | kredit          | 2019-11-28 00:00:00 |  100000 |
|           23 |            5 |           102 | debit           | 2019-11-30 00:00:00 |   20000 |
|           24 |            1 |           104 | debit           | 2019-12-01 00:00:00 |   50000 |
|           25 |            2 |           103 | debit           | 2019-12-02 00:00:00 |   40000 |
|           26 |            4 |           101 | debit           | 2019-12-04 00:00:00 |   50000 |
|           27 |            2 |           103 | kredit          | 2019-12-05 00:00:00 |  100000 |
|           28 |            5 |           102 | kredit          | 2019-12-05 00:00:00 |  200000 |
|           29 |            7 |           109 | debit           | 2019-12-05 00:00:00 |  100000 |
|           30 |            9 |           110 | debit           | 2019-12-06 00:00:00 |   20000 |
|           31 |           11 |           114 | debit           | 2020-01-11 00:00:00 |  100000 |
|           32 |           11 |           114 | kredit          | 2020-01-11 00:00:00 |   50000 |
|           33 |           12 |           115 | debit           | 2020-01-22 00:00:00 |  200000 |
|           34 |           12 |           115 | kredit          | 2020-01-24 00:00:00 |   50000 |
|           35 |           13 |           116 | debit           | 2020-01-26 00:00:00 |  300000 |
|           36 |           13 |           116 | kredit          | 2020-01-28 00:00:00 |   50000 |
|           37 |           14 |           117 | debit           | 2020-02-01 00:00:00 |  400000 |
|           38 |           14 |           117 | kredit          | 2020-02-03 00:00:00 |   50000 |
|           39 |           15 |           118 | debit           | 2020-02-05 00:00:00 |  500000 |
|           40 |           15 |           118 | kredit          | 2020-02-07 00:00:00 |   50000 |
|           41 |           16 |           119 | debit           | 2020-02-09 00:00:00 |  600000 |
|           42 |           16 |           119 | kredit          | 2020-02-11 00:00:00 |   50000 |
|           43 |           17 |           120 | debit           | 2020-02-13 00:00:00 |  700000 |
|           44 |           17 |           120 | kredit          | 2020-02-15 00:00:00 |   50000 |
|           45 |           18 |           121 | debit           | 2020-02-17 00:00:00 |  800000 |
|           46 |           18 |           121 | kredit          | 2020-02-19 00:00:00 |   50000 |
|           47 |           19 |           122 | debit           | 2020-03-05 00:00:00 |  900000 |
|           48 |           19 |           122 | kredit          | 2020-03-25 00:00:00 |   50000 |
|           49 |           20 |           123 | debit           | 2020-03-09 00:00:00 | 1000000 |
|           50 |           20 |           123 | kredit          | 2020-03-29 00:00:00 |  500000 |
+--------------+--------------+---------------+-----------------+---------------------+---------+
50 rows in set (0.00 sec)
```