Database System Practicum

Modul 5 – Data Manipulation Language (DML)

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INFORMATION TECHNOLOGY

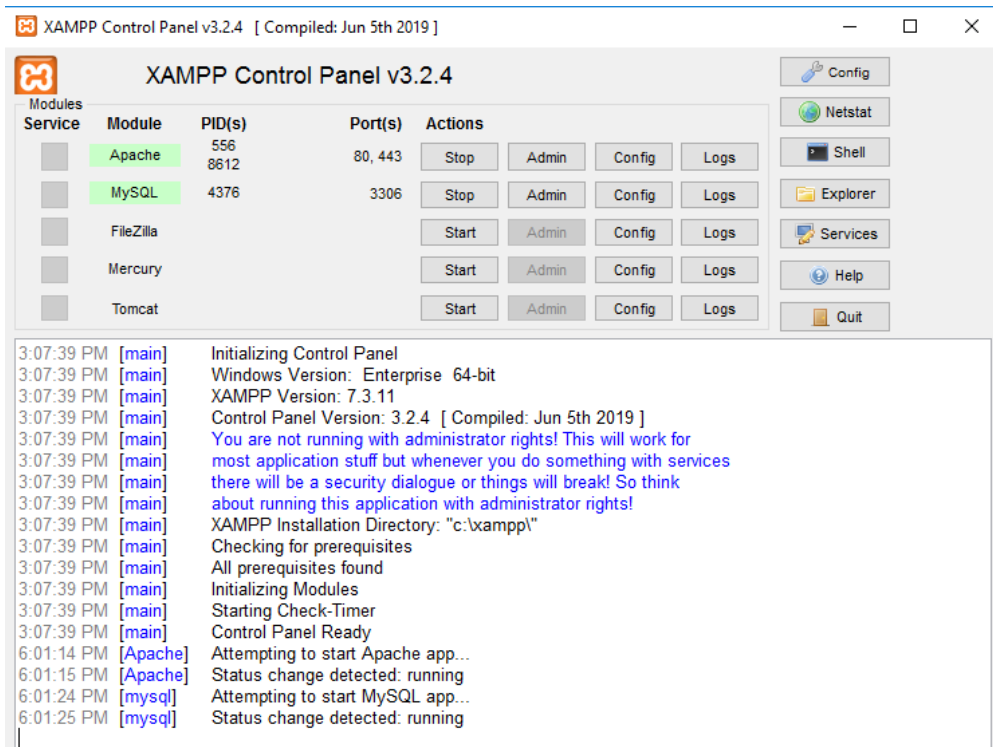# FACULTY OF COMMUNICATION AND INFORMATICS

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

2020

LATIHAN

1. **Run the XAMPP Control Panel**

2. **Running Apache and MySQL servers**

3. **Login as root to MySQL in the Command Prompt**

4. **Enter the banking database**

5. Entering data

> Data nasabah

```
MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah, nama_nasabah, alamat_nasabah) VALUES
    -> (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 Lokananta', 'Jl. Tidar 86' ),
    -> (10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.108 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

> 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'),
    -> ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendean 63'),
    -> ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),
    -> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Suparman 23'),
    -> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
    -> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 6 rows affected (0.169 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

> Data rekening

```
MariaDB [perbankan]> INSERT INTO rekening (no_rekening, kode_cabangFK, pin, saldo) VALUES
    -> (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', '8888', 5000000),
    -> (109, 'BRUB', '9999', 0),
    -> (110, 'BRUY', '1234', 550000),
    -> (111, 'BRUK', '4321', 150000),
    -> (112, 'BRUK', '0123', 300000),
    -> (113, 'BRUY', '8888', 255000);
Query OK, 13 rows affected (0.117 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

> Data nasabah_has_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
    -> (1, 104),
    -> (2, 103),
    -> (3, 105),
    -> (3, 106),
    -> (4, 101),
    -> (4, 107),
    -> (5, 102),
    -> (5, 107),
    -> (6, 109),
    -> (7, 109),
    -> (8, 111),
    -> (9, 110),
    -> (10, 113),
    -> (8, 112),
    -> (10, 108);
Query OK, 15 rows affected (0.054 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

> Data transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah) VALUES
    -> (1, 105, 3, 'debit', '2009-11-10', 50000),
    -> (2, 103, 2, 'debit', '2009-11-10', 40000),
    -> (3, 101, 4, 'kredit', '2009-11-12', 20000),
    -> (4, 106, 3, 'debit', '2009-11-13', 50000),
    -> (5, 107, 5, 'kredit', '2009-11-13', 30000),
    -> (6, 104, 1, 'kredit', '2009-11-15', 200000),
    -> (7, 110, 9, 'kredit', '2009-11-15', 150000),
    -> (8, 102, 5, 'debit', '2009-11-16', 20000),
    -> (9, 105, 3, 'kredit', '2009-11-18', 50000),
    -> (10, 107, 4, 'debit', '2009-11-19', 100000),
    -> (11, 103, 2, 'debit', '2009-11-19', 100000),
    -> (12, 104, 1, 'debit', '2009-11-19', 50000),
    -> (13, 107, 4, 'kredit', '2009-11-20', 200000),
    -> (14, 105, 3, 'debit', '2009-11-21', 40000),
    -> (15, 104, 1, 'kredit', '2009-11-22', 100000),
    -> (16, 101, 4, 'kredit', '2009-11-22', 20000),
    -> (17, 103, 2, 'debit', '2009-11-22', 50000),
    -> (18, 102, 5, 'debit', '2009-11-25', 50000),
    -> (19, 108, 10, 'debit', '2009-11-26', 100000),
    -> (20, 106, 3, 'kredit', '2009-11-27', 50000),
    -> (21, 103, 2, 'kredit', '2009-11-28', 200000),
    -> (22, 105, 3, 'kredit', '2009-11-28', 100000),
    -> (23, 102, 5, 'debit', '2009-11-30', 20000),
    -> (24, 104, 1, 'debit', '2009-12-1', 50000),
    -> (25, 103, 2, 'debit', '2009-12-2', 40000),
    -> (26, 101, 4, 'debit', '2009-12-4', 50000),
    -> (27, 103, 2, 'kredit', '2009-12-5', 100000),
    -> (28, 102, 5, 'kredeit', '2009-12-5', 200000),
    -> (29, 109, 7, 'debit', '2009-12-5', 100000),
    -> (30, 110, 9, 'debit', '2009-12-6', 20000);
Query OK, 30 rows affected (0.458 sec)
Records: 30  Duplicates: 0  Warnings: 0
```

6. Update data

a) The customer with the name "Indri Hapsari" moves address to "Jalan Slamet Riyadi No.34"

```
MariaDB [perbankan]> UPDATE nasabah
    -> SET alamat_nasabah = 'Jl. Slamet Riyadi 34'
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.089 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

- Check

```
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 Lokananta   | Jl. Tidar 86             |
|        10 | Budi Murtono      | Jl. Merak 22             |
+-----------+-------------------+--------------------------+
10 rows in set (0.001 sec)
```

b) Cabang with code "BRUW" move to address "Jalan A. Yani No.23"

```
MariaDB [perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jl. Ahmad Yani No.23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.056 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

- Check

```
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. Ahmad Yani No.23 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21     |
+-------------+------------------------+----------------------+
6 rows in set (0.000 sec)
```

7. Deleting data

a) Nasabah with id "7" close rekening

```
MariaDB [perbankan]> DELETE FROM nasabah
    -> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.103 sec)
```

- Check

```
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 Lokananta  | Jl. Tidar 86           |
|         10 | Budi Murtono     | Jl. Merak 22           |
+------------+------------------+------------------------+
9 rows in set (0.000 sec)
```

b) Cabang with nama_cabang "Bank Rut Unit Magelang" close his office

```
MariaDB [perbankan]> DELETE FROM cabang_bank
    -> WHERE kode_cabang = 'BRUM';
Query OK, 1 row affected (0.100 sec)
```

- Check

```
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 No.23 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21       |
+-------------+--------------------------+----------------------+
5 rows in set (0.000 sec)
```

ASSIGNMENT

A. TABLE MASTER

1) Nasabah

```
MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah, nama_nasabah, alamat_nasabah) VALUES
    -> (11, 'Annisa Nugraheni', 'Jl. Hasanudin 57'),
    -> (12, 'Pasha Bhima', 'Jl. Manggis 23'),
    -> (13, 'Nadya Ayu', 'Jl. Melati 48'),
    -> (14, 'Aldila', 'Jl. Merpati 82'),
    -> (15, 'Fatikha', 'Jl. Sutoyo 5'),
    -> (16, 'Azzahra Sintaa', 'Jl. Slamet Riyadi 24'),
    -> (17, 'Ayu Setia', 'Jl. MT Haryono 21'),
    -> (18, 'Butsaina Nur', 'Jl. Pattimura 3'),
    -> (19, 'Rias Wahyuni', 'Jl. Mawar 22'),
    -> (20, 'Fahrunnisa', 'Jl. Naga 18');
Query OK, 10 rows affected (0.101 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

➢ Check

```
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 Lokananta  | Jl. Tidar 86             |
|         10 | Budi Murtono     | Jl. Merak 22             |
|         11 | Annisa Nugraheni | Jl. Hasanudin 57         |
|         12 | Pasha Bhima      | Jl. Manggis 23           |
|         13 | Nadya Ayu        | Jl. Melati 48            |
|         14 | Aldila           | Jl. Merpati 82           |
|         15 | Fatikha          | Jl. Sutoyo 5             |
|         16 | Azzahra Sintaa   | Jl. Slamet Riyadi 24     |
|         17 | Ayu Setia        | Jl. MT Haryono 21        |
|         18 | Butsaina Nur     | Jl. Pattimura 3          |
|         19 | Rias Wahyuni     | Jl. Mawar 22             |
|         20 | Fahrunnisa       | Jl. Naga 18              |
+------------+------------------+--------------------------+
19 rows in set (0.001 sec)
```

2) Cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank (kode_cabang, nama_cabang, alamat_cabang) VALUES
    -> ('BRUA', 'Bank Rut Unit Ambon', 'Jl. Manggis 8'),
    -> ('BRUC', 'Bank Rut Unit Cilacap', 'Jl. Melati 76'),
    -> ('BRUD', 'Bank Rut Unit Demak', 'Jl. Sutoyo 43'),
    -> ('BRUE', 'Bank Rut Unit Enarotali', 'Jl. Mawar 32'),
    -> ('BRUG', 'Bank Rut Unit Gorontalo', 'Jl. Naga 17'),
    -> ('BRUP', 'Bank Rut Unit Palembang', 'Jl. Pattimura 6'),
    -> ('BRUI', 'Bank Rut Unit Indramayu', 'Jl. MT Haryono 20'),
    -> ('BRUJ', 'Bank Rut Unit Jakarta', 'Jl. Hasanudin 54'),
    -> ('BRUL', 'Bank Rut Unit Lamongan', 'Jl. Kantil 3'),
    -> ('BRUT', 'Bank Rut Unit Tangerang', 'Jl. Jendral Sudirman 11');
Query OK, 10 rows affected (0.102 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

➢ Check

```
MariaDB [perbankan]> SELECT * FROM cabang_bank;
+-------------+------------------------+------------------------+
| kode_cabang | nama_cabang            | alamat_cabang          |
+-------------+------------------------+------------------------+
| BRUA        | Bank Rut Unit Ambon    | Jl. Manggis 8          |
| BRUB        | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45      |
| BRUC        | Bank Rut Unit Cilacap  | Jl. Melati 76          |
| BRUD        | Bank Rut Unit Demak    | Jl. Sutoyo 43          |
| BRUE        | Bank Rut Unit Enarotali| Jl. Mawar 32           |
| BRUG        | Bank Rut Unit Gorontalo| Jl. Naga 17            |
| BRUI        | Bank Rut Unit Indramayu| Jl. MT Haryono 20      |
| BRUJ        | Bank Rut Unit Jakarta  | Jl. Hasanudin 54       |
| BRUK        | Bank Rut Unit Klaten   | Jl. Suparman 23        |
| BRUL        | Bank Rut Unit Lamongan | Jl. Kantil 3           |
| BRUP        | Bank Rut Unit Palembang| Jl. Pattimura 6        |
| BRUS        | Bank Rut Unit Surakarta| Jl. Slamet Riyadi 18   |
| BRUT        | Bank Rut Unit Tangerang| Jl. Jendral Sudirman 11|
| BRUW        | Bank Rut Unit Wonogiri | Jl. Ahmad Yani No.23   |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21        |
+-------------+------------------------+------------------------+
15 rows in set (0.000 sec)
```

3) Rekening

```
MariaDB [perbankan]> INSERT INTO rekening (no_rekening, kode_cabangFK, pin, saldo) VALUES
    -> (114, 'BRUA', '1023', 400000),
    -> (115, 'BRUB', '1203', 350000),
    -> (116, 'BRUC', '2345', 650000),
    -> (117, 'BRUD', '3456', 250000),
    -> (118, 'BRUE', '4567', 700000),
    -> (119, 'BRUG', '5678', 5000000),
    -> (120, 'BRUS', '6789', 300000),
    -> (121, 'BRUB', '7890', 7000000),
    -> (122, 'BRUB', '8901', 0),
    -> (123, 'BRUY', '9012', 550000);
Query OK, 10 rows affected (0.088 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

➢ **Check**

```
MariaDB [perbankan]> SELECT * FROM rekening;
+-------------+---------------+------+---------+
| no_rekening | kode_cabangFK | 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          | 8888 | 5000000 |
|         109 | BRUB          | 9999 |       0 |
|         110 | BRUY          | 1234 |  550000 |
|         111 | BRUK          | 4321 |  150000 |
|         112 | BRUK          | 0123 |  300000 |
|         113 | BRUY          | 8888 |  255000 |
|         114 | BRUA          | 1023 |  400000 |
|         115 | BRUB          | 1203 |  350000 |
|         116 | BRUC          | 2345 |  650000 |
|         117 | BRUD          | 3456 |  250000 |
|         118 | BRUE          | 4567 |  700000 |
|         119 | BRUG          | 5678 | 5000000 |
|         120 | BRUS          | 6789 |  300000 |
|         121 | BRUB          | 7890 | 7000000 |
|         122 | BRUB          | 8901 |       0 |
|         123 | BRUY          | 9012 |  550000 |
+-------------+---------------+------+---------+
23 rows in set (0.000 sec)
```

4) Nasabah_has_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
    -> (11, 120),
    -> (12, 104),
    -> (13, 121),
    -> (14, 114),
    -> (15, 123),
    -> (16, 122),
    -> (17, 115),
    -> (17, 124),
    -> (18, 125),
    -> (19, 126);
Query OK, 10 rows affected (0.095 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

➢ **Check**

```
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 |           120 |
|           12 |           104 |
|           13 |           121 |
|           14 |           114 |
|           15 |           123 |
|           16 |           122 |
|           17 |           115 |
|           17 |           124 |
|           18 |           125 |
|           19 |           126 |
+--------------+---------------+
25 rows in set (0.000 sec)
```

B. TABLE TRANSAKSI

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah) VALUES
    -> (31, 103, 3, 'debit', '2009-12-6', 70000),
    -> (32, 126, 2, 'kredit', '2009-12-7', 400000),
    -> (33, 114, 4, 'kredit', '2009-12-7', 30000),
    -> (34, 102, 3, 'debit', '2009-12-7', 200000),
    -> (35, 125, 5, 'debit', '2009-12-8', 1000000),
    -> (36, 124, 1, 'kredit', '2009-12-8', 900000),
    -> (37, 113, 9, 'debit', '2009-12-9', 150000),
    -> (38, 115, 5, 'debit', '2009-12-10', 40000),
    -> (39, 122, 3, 'kredit', '2009-12-10', 650000),
    -> (40, 108, 4, 'kredit', '2009-12-10', 800000),
    -> (41, 123, 2, 'kredit', '2009-12-10', 500000),
    -> (42, 112, 1, 'debit', '2009-12-11', 3000000),
    -> (43, 121, 4, 'kredit', '2009-12-12', 800000),
    -> (44, 101, 3, 'debit', '2009-12-12', 100000),
    -> (45, 121, 1, 'kredit', '2009-12-13', 100000),
    -> (46, 112, 4, 'kredit', '2009-12-13', 250000),
    -> (47, 106, 2, 'debit', '2009-12-13', 50000),
    -> (48, 109, 5, 'kredit', '2009-12-14', 2000000),
    -> (49, 101, 10, 'debit', '2009-12-14', 2500000),
    -> (50, 125, 3, 'debit', '2009-12-15', 700000);
Query OK, 20 rows affected (0.047 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

➢ **Check**

```
MariaDB [perbankan]> SELECT * FROM transaksi;
+--------------+--------------+--------------+-----------------+---------------------+---------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah  |
+--------------+--------------+--------------+-----------------+---------------------+---------+
|            1 |          105 |            3 | debit           | 2009-11-10 00:00:00 |   50000 |
|            2 |          103 |            2 | debit           | 2009-11-10 00:00:00 |   40000 |
|            3 |          101 |            4 | kredit          | 2009-11-12 00:00:00 |   20000 |
|            4 |          106 |            3 | debit           | 2009-11-13 00:00:00 |   50000 |
|            5 |          107 |            5 | kredit          | 2009-11-13 00:00:00 |   30000 |
|            6 |          104 |            1 | kredit          | 2009-11-15 00:00:00 |  200000 |
|            7 |          110 |            9 | kredit          | 2009-11-15 00:00:00 |  150000 |
|            8 |          102 |            5 | debit           | 2009-11-16 00:00:00 |   20000 |
|            9 |          105 |            3 | kredit          | 2009-11-18 00:00:00 |   50000 |
|           10 |          107 |            4 | debit           | 2009-11-19 00:00:00 |  100000 |
|           11 |          103 |            2 | debit           | 2009-11-19 00:00:00 |  100000 |
|           12 |          104 |            1 | debit           | 2009-11-19 00:00:00 |   50000 |
|           13 |          107 |            4 | kredit          | 2009-11-20 00:00:00 |  200000 |
|           14 |          105 |            3 | debit           | 2009-11-21 00:00:00 |   40000 |
|           15 |          104 |            1 | kredit          | 2009-11-22 00:00:00 |  100000 |
|           16 |          101 |            4 | kredit          | 2009-11-22 00:00:00 |   20000 |
|           17 |          103 |            2 | debit           | 2009-11-22 00:00:00 |   50000 |
|           18 |          102 |            5 | debit           | 2009-11-25 00:00:00 |   50000 |
|           19 |          108 |           10 | debit           | 2009-11-26 00:00:00 |  100000 |
|           20 |          106 |            3 | kredit          | 2009-11-27 00:00:00 |   50000 |
|           21 |          103 |            2 | kredit          | 2009-11-28 00:00:00 |  200000 |
|           22 |          105 |            3 | kredit          | 2009-11-28 00:00:00 |  100000 |
|           23 |          102 |            5 | debit           | 2009-11-30 00:00:00 |   20000 |
|           24 |          104 |            1 | debit           | 2009-12-01 00:00:00 |   50000 |
|           25 |          103 |            2 | debit           | 2009-12-02 00:00:00 |   40000 |
```

```
|           26 |          101 |            4 | debit           | 2009-12-04 00:00:00 |   50000 |
|           27 |          103 |            2 | kredit          | 2009-12-05 00:00:00 |  100000 |
|           28 |          102 |            5 | kredeit         | 2009-12-05 00:00:00 |  200000 |
|           29 |          109 |            7 | debit           | 2009-12-05 00:00:00 |  100000 |
|           30 |          110 |            9 | debit           | 2009-12-06 00:00:00 |   20000 |
|           31 |          103 |            3 | debit           | 2009-12-06 00:00:00 |   70000 |
|           32 |          126 |            2 | kredit          | 2009-12-07 00:00:00 |  400000 |
|           33 |          114 |            4 | kredit          | 2009-12-07 00:00:00 |   30000 |
|           34 |          102 |            3 | debit           | 2009-12-07 00:00:00 |  200000 |
|           35 |          125 |            5 | debit           | 2009-12-08 00:00:00 | 1000000 |
|           36 |          124 |            1 | kredit          | 2009-12-08 00:00:00 |  900000 |
|           37 |          113 |            9 | debit           | 2009-12-09 00:00:00 |  150000 |
|           38 |          115 |            5 | debit           | 2009-12-10 00:00:00 |   40000 |
|           39 |          122 |            3 | kredit          | 2009-12-10 00:00:00 |  650000 |
|           40 |          108 |            4 | kredit          | 2009-12-10 00:00:00 |  800000 |
|           41 |          123 |            2 | kredit          | 2009-12-10 00:00:00 |  500000 |
|           42 |          112 |            1 | debit           | 2009-12-11 00:00:00 | 3000000 |
|           43 |          121 |            4 | kredit          | 2009-12-12 00:00:00 |  800000 |
|           44 |          101 |            3 | debit           | 2009-12-12 00:00:00 |  100000 |
|           45 |          121 |            1 | kredit          | 2009-12-13 00:00:00 |  100000 |
|           46 |          112 |            4 | kredit          | 2009-12-13 00:00:00 |  250000 |
|           47 |          106 |            2 | debit           | 2009-12-13 00:00:00 |   50000 |
|           48 |          109 |            5 | kredit          | 2009-12-14 00:00:00 | 2000000 |
|           49 |          101 |           10 | debit           | 2009-12-14 00:00:00 | 2500000 |
|           50 |          125 |            3 | debit           | 2009-12-15 00:00:00 |  700000 |
+--------------+--------------+--------------+-----------------+---------------------+---------+
50 rows in set (0.000 sec)
```