

DATABASE SYSTEM PRACTICE

ASSIGNMENT

DATA MANIPULATION LANGUAGE (DML)



By :

NUR ANNIDA I'FFAH SUPARDI

L200183147

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

UNIVERSITY OF MUHAMMADIYAH SURAKARTA

2020

Latihan

1. Login as root to MYSQL via Command Prompt

```
Command Prompt - mysql -u root -p
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 8
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.
```

2. Create the database and use perbankan's database

```
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.163 sec)

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

3. Enter data into the nasabah table

```
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, 'Superman', '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 Martono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.095 sec)
```

4. Enter data into the cabang_bank table

```
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. Tandean 63'),
-> ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),
-> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Superman 23'),
-> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
-> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati');
Query OK, 6 rows affected (0.091 sec)
```

5. Enter data into the rekening table

```
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', 0000, 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 (0.116 sec)
```

6. Enter data into the nasabah_has_rekening table

```
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 (0.157 sec)
```

7. Enter data into the transaction table

```
MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi, no_rekeningFK, id_nasabahFK, 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, 'kredit', 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, 30 warnings (0.118 sec)
```

8. Update data

➤ Nasabah table

```
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.145 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

➤ Cabang_bank table

```
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jalan A. Yani No.23'
-> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.140 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

9. Delete data

➤ Nasabah

```
MariaDB [perbankan]> DELETE FROM nasabah  
-> WHERE id_nasabah = 7;  
Query OK, 1 row affected (0.148 sec)
```

➤ Cabang_bank

```
MariaDB [perbankan]> DELETE FROM cabang_bank  
-> WHERE nama_cabang = 'Bank Rut Unit magelang';  
Query OK, 1 row affected (0.084 sec)
```

Tugas

1) Insert ten new data inside nasabah table

```
MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah, nama_nasabah, alamat_nasabah) VALUES  
-> (11, 'Nor Aisya Maulida', 'Jl. Samudra 14'),  
-> (12, 'Endah Sufiyati', 'Jl. Datu Daim 2'),  
-> (13, 'Nida Luthfina', 'Jl. Nor Sehat 33'),  
-> (14, 'Charisma Ratu Islamiah', 'Jl. PT Sun 10'),  
-> (15, 'Nur Annida Iffah Supardi', 'Jl. Bekatung 5'),  
-> (16, 'Ristiana Widianing Tyas', 'Jl. Sungai Riam 88'),  
-> (17, 'Pratiwi Ardi Lestari', 'Jl. Raya Takisung 47'),  
-> (18, 'Hayuningtyas Mustika Wening', 'Komplek CIP D11'),  
-> (19, 'Linda Nor Syifa', 'Komplek Kijang Kencana A11'),  
-> (20, 'Nur Hanisya Mayasari', 'Komplek CIP E17');  
Query OK, 10 rows affected (0.089 sec)  
Records: 10 Duplicates: 0 Warnings: 0
```

2) Insert ten new data inside cabang_bank table

```
MariaDB [perbankan]> INSERT INTO cabang_bank (kode_cabang, nama_cabang, alamat_cabang) VALUES  
-> ('BRUP', 'Bank Rut Unit Pelabuhan', 'Jl. Ahmad Yani 55'),  
-> ('BRUT', 'Bank Rut Unit Takisung', 'Jl. Raya Takisung 12'),  
-> ('BRUA', 'Bank Rut Unit Amuntai', 'Jl. Anggrek 28'),  
-> ('BRUR', 'Bank Rut Unit Rantau', 'Jl. Kandungan Lawas 88'),  
-> ('BRUJ', 'Bank Rut Unit Jambi', 'Jl. Sutoyo 82'),  
-> ('BRUN', 'Bank Rut Unit Nunukan', 'Jl. Samarinda 32'),  
-> ('BRUC', 'Bank Rut Unit Ciamis', 'Jl. Bekasi 99'),  
-> ('BRUD', 'Bank Rut Unit Demak', 'Jl. Pati 98'),  
-> ('BRUG', 'Bank Rut Unit Grogol', 'Jl. Pangandaran 35'),  
-> ('BRUL', 'Bank Rut Unit Lamongan', 'Jl. Lumajang Timur 33');  
Query OK, 10 rows affected (0.119 sec)  
Records: 10 Duplicates: 0 Warnings: 0
```

3) Insert ten new data inside rekening table

```
MariaDB [perbankan]> INSERT INTO rekening (no_rekening, kode_cabangFK, pin, saldo) VALUES  
-> (114, 'BRUP', 1222, 20000),  
-> (115, 'BRUT', 1333, 50000),  
-> (116, 'BRUA', 1444, 100000),  
-> (117, 'BRUR', 1555, 200000),  
-> (118, 'BRUJ', 2111, 150000),  
-> (119, 'BRUN', 2332, 175000),  
-> (120, 'BRUC', 2444, 90000),  
-> (121, 'BRUD', 2555, 55000),  
-> (122, 'BRUG', 3113, 85000),  
-> (123, 'BRUL', 3222, 125000);  
Query OK, 10 rows affected (0.092 sec)  
Records: 10 Duplicates: 0 Warnings: 0
```

4) Insert ten new data inside nasabah_has_rekening table

```
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 (0.112 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

5) Insert twenty new data inside transaksi table

```
MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi, no_rekeningFK, id_nasabahFK,
jenis_transaksi, tanggal, jumlah) VALUES
-> (32, 103, 4, 'kredit', 2010-1-1, 30000),
-> (33, 105, 6, 'debit', 2010-1-3, 50000),
-> (34, 107, 8, 'kredit', 2010-1-4, 100000),
-> (35, 109, 10, 'debit', 2010-1-5, 75000),
-> (36, 102, 1, 'debit', 2010-1-5, 50000),
-> (37, 104, 3, 'debit', 2010-1-6, 30000),
-> (38, 106, 5, 'debit', 2010-1-7, 25000),
-> (39, 108, 7, 'kredit', 2010-1-9, 100000),
-> (40, 110, 9, 'kredit', 2010-1-10, 150000),
-> (41, 105, 8, 'debit', 2010-1-13, 35000);
Query OK, 10 rows affected, 10 warnings (0.149 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi, no_rekeningFK, id_nasabahFK,
jenis_transaksi, tanggal, jumlah) VALUES
-> (42, 103, 4, 'debit', 2010-2-1, 25000),
-> (43, 106, 9, 'kredit', 2010-2-4, 50000),
-> (44, 109, 1, 'kredit', 2010-2-5, 30000),
-> (45, 102, 4, 'debit', 2010-2-9, 100000),
-> (46, 105, 2, 'debit', 2010-2-10, 75000),
-> (47, 108, 8, 'kredit', 2010-2-14, 200000),
-> (48, 101, 3, 'debit', 2010-2-15, 80000),
-> (49, 104, 5, 'kredit', 2010-2-18, 150000),
-> (50, 107, 6, 'kredit', 2010-2-20, 90000),
-> (51, 110, 7, 'debit', 2010-2-22, 85000);
Query OK, 10 rows affected, 10 warnings (0.044 sec)
```