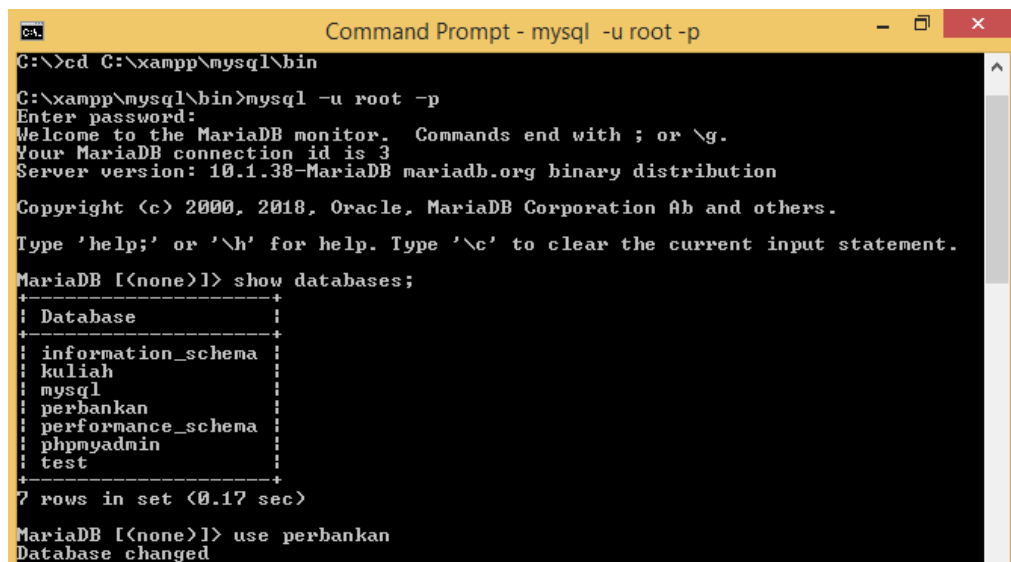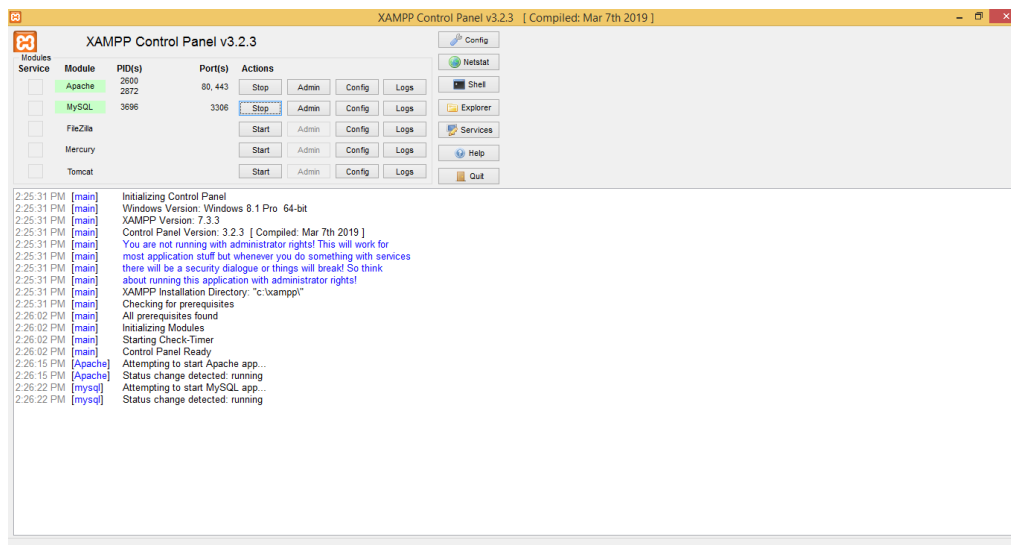Nama : Afiq Tri Nugraha

NIM : L200180080

Kelas : C

# PRAKTIKUM SISTEM BASIS DATA

# MODUL 5

**Langkah – Langkah Praktikum:**

Memasukkan data – data ke dalam database perbankan

Tabel nasabah

```
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(1,'Sutopo','Jl.Jendral Sudirman 12');
Query OK, 1 row affected (0.23 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(2,'Maryati','Jl. MT. Haryono 31');
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(3,'Suparman','Jl. Hasanudin 81');
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(4,'Kartika Padmasari','Jl. Manggis 15');
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(5,'Budi Eko Prayogo','Jl. Kantil 30');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(6,'Satria Eka Jaya','Jl. Slamet Riyadi 45');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(7,'Indri Hapsari','Jl. Sutoyo 5');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(8,'Sari Murti','Jl. Pangandaran 11');
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(9,'Canka Lokananta','Jl. Tidar 86');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) VALUES(10,'Budi Murtono','Jl. Merak 22');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> _
```

Tabel cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUS','Bank Rut Unit Surakarta','Jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUM','Bank Rut Unit Magelang','Jl. P. Tendean 63');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUB','Bank Rut Unit Boyolali','Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUK','Bank Rut Unit Klaten','Jl. Suparman 23');
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUY','Bank Rut Unit Yogyakarta','Jl. Anggrek 21');
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) VALUES('BRUW','Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 1 row affected (0.09 sec)
```

Tabel rekening



```
4 rows in set (0.13 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(101,'BRUS',1111,500000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(102,'BRUS',2222,350000);
Query OK, 1 row affected (0.07 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(103,'BRUS',3333,750000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(104,'BRUM',4444,900000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(105,'BRUM',5555,2000000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(106,'BRUS',6666,3000000);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(107,'BRUS',7777,1000000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(108,'BRUB',0000,5000000);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(109,'BRUB',9999,0);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(110,'BRUY',1234,550000);
Query OK, 1 row affected (0.03 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(112,'BRUK',0123,300000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo
) VALUES(113,'BRUY',8888,255000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> _
```

Tabel nasabah_has_rekening



```
K) VALUES(2,103);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(3,105);
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]>
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(3,106);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(4,101);
Query OK, 1 row affected (0.03 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(4,107);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(5,102);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(5,107);
Query OK, 1 row affected (2.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(6,109);
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(7,109);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(8,111);
Query OK, 1 row affected (0.22 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(9,110);
Query OK, 1 row affected (0.03 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(10,113);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(8,112);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K) VALUES(10,108);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]>
```

Tabel transaksi



```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_trans
aksiFK, jenis_transaksi, tanggal, jumlah) VALUES(1,105,3,'debit',2009-11-10,5000
0);
ERROR 1054 (42S22): Unknown column 'id_transaksiFK' in 'field list'
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(1,105,3,'debit',2009-11-10,50000)
;
Query OK, 1 row affected, 1 warning (0.13 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(2,103,2,'debit',2009-11-10,40000)
;
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(3,101,4,'kredit',2009-11-12,20000
);
Query OK, 1 row affected, 1 warning (0.04 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(4,106,3,'debit',2009-11-13,50000)
;
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(5,107,5,'kredit',2009-11-13,30000
);
Query OK, 1 row affected, 1 warning (0.08 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(6,104,1,'kredit',2009-11-15,20000
0);
Query OK, 1 row affected, 1 warning (0.11 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(7,110,9,'kredit',2009-11-15,15000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(8,102,5,'debit',2009-11-16,20000)
;
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(9,105,3,'kredit',2009-11-18,50000
);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(10,107,4,'debit',2009-11-19,10000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(11,103,2,'debit',2009-11-19,10000
```

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(11,103,2,'debit',2009-11-19,10000
0);
Query OK, 1 row affected, 1 warning (0.13 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(12,104,1,'debit',2009-11-19,50000
);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(13,107,4,'kredit',2009-11-20,2000
00);
Query OK, 1 row affected, 1 warning (0.07 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(14,105,3,'debit',2009-11-21,40000
);
Query OK, 1 row affected, 1 warning (0.18 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(15,104,1,'kredit',2009-11-22,1000
00);
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(16,101,4,'kredit',2009-11-22,2000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(17,103,2,'debit',2009-11-22,50000
);
Query OK, 1 row affected, 1 warning (0.15 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(18,102,5,'debit',2009-11-25,50000
);
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(19,108,10,'debit',2009-11-26,1000
00);
Query OK, 1 row affected, 1 warning (0.12 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(20,106,3,'kredit',2009-11-27,5000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(21,103,2,'kredit',2009-11-28,2000
00);
Query OK, 1 row affected, 1 warning (0.15 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
```

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(20,106,3,'kredit',2009-11-27,5000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(21,103,2,'kredit',2009-11-28,2000
00);
Query OK, 1 row affected, 1 warning (0.15 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(22,105,3,'kredit',2009-11-28,1000
00);
Query OK, 1 row affected, 1 warning (0.12 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(23,102,5,'debit',2009-11-30,20000
);
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(24,104,1,'debit',2009-12-1,20000)
;
Query OK, 1 row affected, 1 warning (0.10 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(25,103,2,'debit',2009-12-2,40000)
;
Query OK, 1 row affected, 1 warning (0.11 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(26,101,4,'debit',2009-12-4,50000)
;
Query OK, 1 row affected, 1 warning (0.80 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(27,103,2,'kredit',2009-12-5,10000
0);
Query OK, 1 row affected, 1 warning (0.17 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(28,102,5,'kredit',2009-12-5,20000
0);
Query OK, 1 row affected, 1 warning (0.06 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(29,109,7,'debit',2009-12-5,100000
);
Query OK, 1 row affected, 1 warning (0.08 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(30,110,9,'debit',2009-12-6,20000)
;
Query OK, 1 row affected, 1 warning (0.04 sec)

MariaDB [perbankan]>
```

Melakukan update untuk kasus – kasus berikut ini

Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi no. 34"

```
MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jalan Slamet Riyadi No
. 34' WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.32 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

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

```
MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jalan A. Yani No. 2
3' WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.20 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]>
```

Melakukan penghapusan untuk kasus - kasus berikut

Nasabah dengan id "7" menutup rekening

```
MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]>
```

Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya

```
MariaDB [perbankan]> DELETE FROM cabang_bank WHERE nama_cabang = 'Bank Rut Unit
Magelang';
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]>
```