

LAPORAN PRAKTIKUM SISTEM BASIS DATA

MODUL 5

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Kelas : B

Latihan :
nasabah

```
Command Prompt - mysql -u root -p
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd 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 3
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 perbank
Database changed
MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.077 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati', 'Jl. MT. Haryono 31');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Suparman', 'Jl. Hasanudin 81');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(4, 'Kartika Padmasari', 'Jl. Manggis 15');
Query OK, 1 row affected (0.003 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(5, 'Budi Eko Prayogo', 'Jl. Kantil 30');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangdaran 11');
Query OK, 1 row affected (0.003 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Canka Lokananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbank]>
ERROR: No query specified

MariaDB [perbank]> use cabang_bank
ERROR 1049 (42000): Unknown database 'cabang_bank'
MariaDB [perbank]> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
MariaDB [perbank]> ;
ERROR: No query specified

MariaDB [perbank]> use cabang_bank;
ERROR 1049 (42000): Unknown database 'cabang_bank'
MariaDB [perbank]> INSERT INTO cabang_bank(kode_cabang, nama_nasabah, alamat_nasabah) VALUES('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
ERROR 1054 (42S22): Unknown column 'nama_nasabah' in 'field list'
```

Cabang_bank

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

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 (0.002 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Canka Lokananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> ;
ERROR: No query specified

MariaDB [perbankan]> use cabang_bank
ERROR 1049 (42000): Unknown database 'cabang_bank'
MariaDB [perbankan]> ;
ERROR 1054 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
ERROR: No query specified

MariaDB [perbankan]> use cabang_bank;
ERROR 1049 (42000): Unknown database 'cabang_bank'
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_nasabah, alamat_nasabah) VALUES('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
ERROR 1054 (42522): Unknown column 'nama_nasabah' in 'field list'
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_nasabah) VALUES('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
ERROR 1054 (42522): Unknown column 'alamat_nasabah' in 'field list'
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 (0.003 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendea 63');
Query OK, 1 row affected (0.002 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 (0.002 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 (0.002 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 (0.002 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Monogiri', 'Jl. Untung Suropati 12');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
ERROR 1054 (42522): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUS', 2222, 350000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', 3333, 750000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', 4444, 900000);
Query OK, 1 row affected (0.002 sec)
```

Rekening

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

Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendea 63');
Query OK, 1 row affected (0.002 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 (0.002 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 (0.002 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 (0.002 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Monogiri', 'Jl. Untung Suropati 12');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabang, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
ERROR 1054 (42522): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUS', 2222, 350000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', 3333, 750000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', 4444, 900000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(105, 'BRUM', 5555, 2000000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(106, 'BRUS', 6666, 3000000);
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(107, 'BRUS', 7777, 1000000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(108, 'BRUB', 0000, 5000000);
Query OK, 1 row affected (0.009 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(109, 'BRUB', 9999, 0);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(110, 'BRUY', 1234, 550000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(111, 'BRUK', 4321, 150000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(112, 'BRUK', 0123, 300000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(113, 'BRUY', 8888, 255000);
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(1, 104);
Query OK, 1 row affected (0.013 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(2, 103);
Query OK, 1 row affected (0.002 sec)
```


Transaksi

```
Command Prompt - mysql -u root -p
-> (4, 100, 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', 2009-11-22, 100000),
-> (19, 108, 10, 'debit', 2009-11-25, 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', 2009-12-4, 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),
ERROR 1054 (42S22): Unknown column 'no_transaksi' in 'field list'
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', 2009-11-22, 100000),
-> (19, 108, 10, 'debit', 2009-11-25, 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', 2009-12-4, 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 (0.004 sec)
Records: 30 Duplicates: 0 Warnings: 30
MariaDB [perbankan]>
```

Update nasabah

```
Command Prompt - mysql -u root -p
-> (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', 2009-11-22, 100000),
-> (19, 108, 10, 'debit', 2009-11-25, 100000),
-> (20, 106, 3, 'kredit', 2009-11-27, 50000),
-> (21, 103, 2, 'kredit', 2009-11-28, 200000),
-> (22, 105, 3, 'kredit', 2009-11-28, 10000),
-> (23, 102, 5, 'debit', 2009-11-30, 20000),
-> (24, 104, 1, 'debit', 2009-12-1, 50000),
-> (25, 103, 2, 'debit', 2009-12-4, 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),
ERROR 1054 (42S22): Unknown column 'no_transaksi' in 'field list'
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', 2009-11-22, 100000),
-> (19, 108, 10, 'debit', 2009-11-25, 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', 2009-12-4, 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 (0.004 sec)
Records: 30 Duplicates: 0 Warnings: 30
MariaDB [perbankan]> UPDATE nasabah
-> i
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jl. Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]>
```

Update cabang_bank

```
Command Prompt - mysql -u root -p
-> (23, 102, 5, 'debit', 2009-11-30, 200000),
-> (24, 104, 1, 'debit', 2009-12-1, 500000),
-> (25, 103, 2, 'debit', 2009-12-4, 400000),
-> (26, 101, 4, 'debit', 2009-12-4, 500000),
-> (27, 103, 2, 'kredit', 2009-12-5, 1000000),
-> (28, 102, 5, 'kredit', 2009-12-5, 2000000),
-> (29, 109, 7, 'debit', 2009-12-5, 1000000),
-> (30, 110, 9, 'debit', 2009-12-6, 200000);
ERROR 1054 (42S22): Unknown column 'no_transaksi' in 'field list'
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
-> (1, 105, 3, 'debit', 2009-11-10, 500000),
-> (2, 103, 2, 'debit', 2009-11-10, 400000),
-> (3, 101, 4, 'kredit', 2009-11-12, 200000),
-> (4, 106, 3, 'debit', 2009-11-13, 500000),
-> (5, 107, 5, 'kredit', 2009-11-13, 100000),
-> (6, 104, 1, 'kredit', 2009-11-15, 2000000),
-> (7, 110, 9, 'kredit', 2009-11-15, 1500000),
-> (8, 102, 5, 'debit', 2009-11-16, 200000),
-> (10, 107, 4, 'debit', 2009-11-19, 1000000),
-> (9, 105, 3, 'kredit', 2009-11-18, 500000),
-> (11, 103, 2, 'debit', 2009-11-19, 1000000),
-> (12, 104, 1, 'debit', 2009-11-19, 500000),
-> (13, 107, 4, 'kredit', 2009-11-20, 2000000),
-> (14, 105, 3, 'debit', 2009-11-21, 400000),
-> (15, 104, 1, 'kredit', 2009-11-22, 1000000),
-> (16, 101, 4, 'kredit', 2009-11-22, 200000),
-> (17, 103, 2, 'debit', 2009-11-22, 500000),
-> (18, 102, 5, 'debit', 2009-11-22, 1000000),
-> (19, 108, 10, 'debit', 2009-11-25, 1000000),
-> (20, 106, 3, 'kredit', 2009-11-27, 500000),
-> (21, 103, 2, 'kredit', 2009-11-28, 2000000),
-> (22, 105, 3, 'kredit', 2009-11-28, 1000000),
-> (23, 102, 5, 'debit', 2009-11-30, 200000),
-> (24, 104, 1, 'debit', 2009-12-1, 500000),
-> (25, 103, 2, 'debit', 2009-12-4, 400000),
-> (26, 101, 4, 'debit', 2009-12-4, 500000),
-> (27, 103, 2, 'kredit', 2009-12-5, 1000000),
-> (28, 102, 5, 'kredit', 2009-12-5, 2000000),
-> (29, 109, 7, 'debit', 2009-12-5, 1000000),
-> (30, 110, 9, 'debit', 2009-12-6, 200000);
Query OK, 30 rows affected, 30 warnings (0.004 sec)
Records: 30 Duplicates: 0 Warnings: 30
MariaDB [perbankan]> UPDATE nasabah
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_nasabah = 'Jalan A. Yani No.23'
-> WHERE nama_nasabah = 'BRUM';
ERROR 1054 (42S22): Unknown column 'nama_nasabah' in 'where clause'
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jalan A. Yani No.23'
-> WHERE kode_cabang = 'BRUM';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]>
```

Delete nasabah

```
Command Prompt - mysql -u root -p
-> (27, 103, 2, 'kredit', 2009-12-5, 1000000),
-> (28, 102, 5, 'kredit', 2009-12-5, 2000000),
-> (29, 109, 7, 'debit', 2009-12-5, 1000000),
-> (30, 110, 9, 'debit', 2009-12-6, 200000);
ERROR 1054 (42S22): Unknown column 'no_transaksi' in 'field list'
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
-> (1, 105, 3, 'debit', 2009-11-10, 500000),
-> (2, 103, 2, 'debit', 2009-11-10, 400000),
-> (3, 101, 4, 'kredit', 2009-11-12, 200000),
-> (4, 106, 3, 'debit', 2009-11-13, 500000),
-> (5, 107, 5, 'kredit', 2009-11-13, 100000),
-> (6, 104, 1, 'kredit', 2009-11-15, 2000000),
-> (7, 110, 9, 'kredit', 2009-11-15, 1500000),
-> (8, 102, 5, 'debit', 2009-11-16, 200000),
-> (10, 107, 4, 'debit', 2009-11-19, 1000000),
-> (9, 105, 3, 'kredit', 2009-11-18, 500000),
-> (11, 103, 2, 'debit', 2009-11-19, 1000000),
-> (12, 104, 1, 'debit', 2009-11-19, 500000),
-> (13, 107, 4, 'kredit', 2009-11-20, 2000000),
-> (14, 105, 3, 'debit', 2009-11-21, 400000),
-> (15, 104, 1, 'kredit', 2009-11-22, 1000000),
-> (16, 101, 4, 'kredit', 2009-11-22, 200000),
-> (17, 103, 2, 'debit', 2009-11-22, 500000),
-> (18, 102, 5, 'debit', 2009-11-22, 1000000),
-> (19, 108, 10, 'debit', 2009-11-25, 1000000),
-> (20, 106, 3, 'kredit', 2009-11-27, 500000),
-> (21, 103, 2, 'kredit', 2009-11-28, 2000000),
-> (22, 105, 3, 'kredit', 2009-11-28, 1000000),
-> (23, 102, 5, 'debit', 2009-11-30, 200000),
-> (24, 104, 1, 'debit', 2009-12-1, 500000),
-> (25, 103, 2, 'debit', 2009-12-4, 400000),
-> (26, 101, 4, 'debit', 2009-12-4, 500000),
-> (27, 103, 2, 'kredit', 2009-12-5, 1000000),
-> (28, 102, 5, 'kredit', 2009-12-5, 2000000),
-> (29, 109, 7, 'debit', 2009-12-5, 1000000),
-> (30, 110, 9, 'debit', 2009-12-6, 200000);
Query OK, 30 rows affected, 30 warnings (0.004 sec)
Records: 30 Duplicates: 0 Warnings: 30
MariaDB [perbankan]> UPDATE nasabah
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_nasabah = 'Jalan A. Yani No.23'
-> WHERE nama_nasabah = 'BRUM';
ERROR 1054 (42S22): Unknown column 'nama_nasabah' in 'where clause'
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jalan A. Yani No.23'
-> WHERE kode_cabang = 'BRUM';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]> DELETE FROM nasabah
-> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.001 sec)
MariaDB [perbankan]>
```

Delete cabang_bank

```
Command Prompt - mysql -e root@
> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 1
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_nasabah = 'Jalan A. Yani No.23'
-> WHERE nama_nasabah = 'BRUM';
ERROR 1054 (42S22): Unknown column 'nama_nasabah' in 'where clause'
MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jalan A. Yani No.23'
-> WHERE kode_cabang = 'BRUM';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> DELETE FROM nasabah
-> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> DELETE FROM nasabah
-> ;
Query OK, 9 rows affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati', 'Jl. MT. Maryono 31');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Suparman', 'Jl. Hasanudin B1');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(4, 'Kartika Padmasari', 'Jl. Manggis 15');
Query OK, 1 row affected (0.001 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 (0.001 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 (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.002 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Canka Likananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.002 sec)

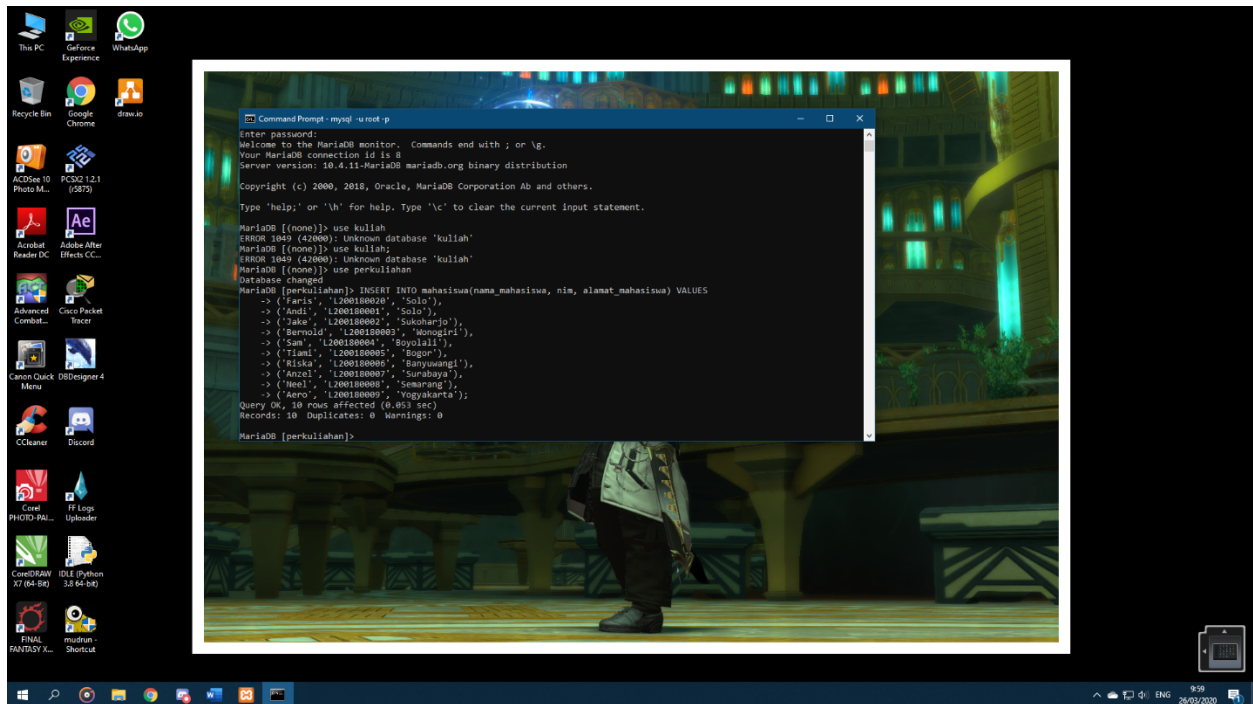
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Budi Murtono', 'Jl. Merak 22');
ERROR 1062 (23000): Duplicate entry '9' for key 'PRIMARY'
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank
-> WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.003 sec)

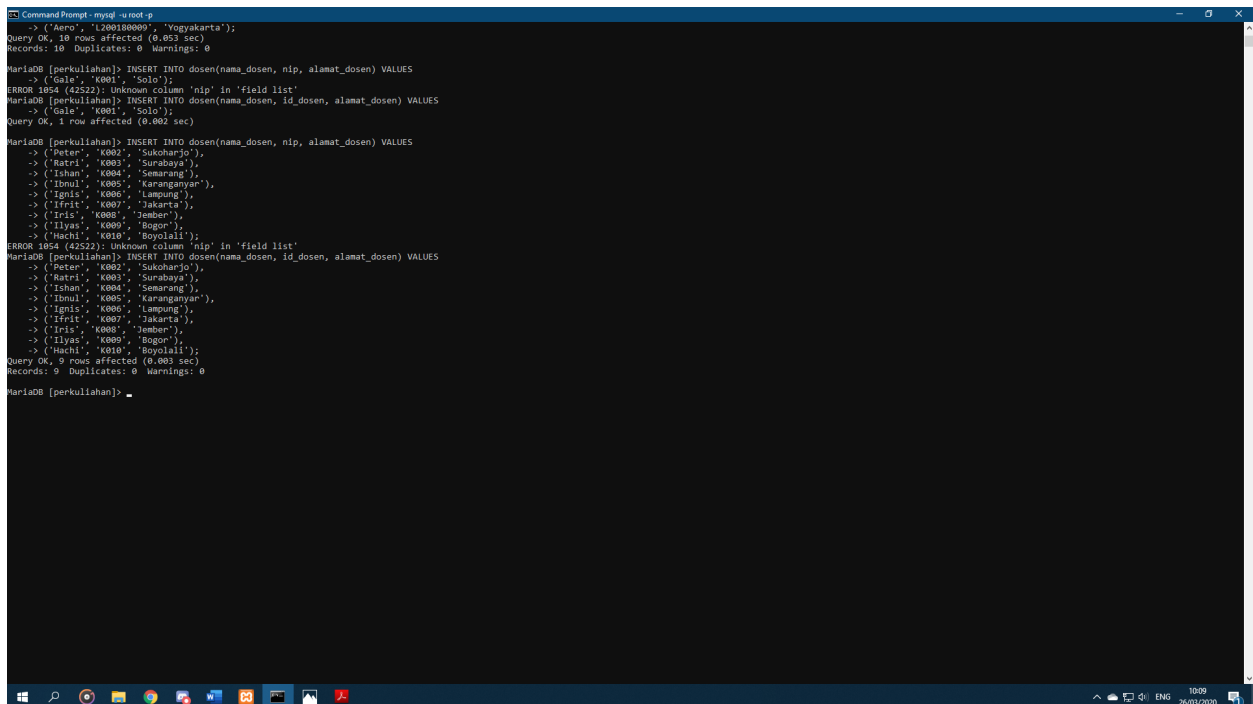
MariaDB [perbankan]>
```

Tugas :

Mahasiswa



Dosen



Mata_kuliah

```
Command Prompt - mysql -u root -p
-> ('Aero', '1234567890', 'Yogyakarta');
Query OK, 10 rows affected (0.053 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, nip, alamat_dosen) VALUES
-> ('Gale', 'K001', 'Solo');
ERROR 1054 (42S22): Unknown column 'nip' in 'field list'
MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, id_dosen, alamat_dosen) VALUES
-> ('Gale', 'K001', 'Solo');
Query OK, 1 row affected (0.002 sec)

MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, nip, alamat_dosen) VALUES
-> ('Peter', 'K002', 'Sukoharjo'),
-> ('Ratri', 'K003', 'Surabaya'),
-> ('Ishan', 'K004', 'Semarang'),
-> ('Ibnu', 'K005', 'Karanganyar'),
-> ('Ignis', 'K006', 'Lampung'),
-> ('Ifriz', 'K007', 'Jakarta'),
-> ('Iris', 'K008', 'Jember'),
-> ('Ilyas', 'K009', 'Bogor'),
-> ('Hachi', 'K010', 'Bojoleali');
ERROR 1054 (42S22): Unknown column 'nip' in 'field list'
MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, id_dosen, alamat_dosen) VALUES
-> ('Peter', 'K002', 'Sukoharjo'),
-> ('Ratri', 'K003', 'Surabaya'),
-> ('Ishan', 'K004', 'Semarang'),
-> ('Ibnu', 'K005', 'Karanganyar'),
-> ('Ignis', 'K006', 'Lampung'),
-> ('Ifriz', 'K007', 'Jakarta'),
-> ('Iris', 'K008', 'Jember'),
-> ('Ilyas', 'K009', 'Bogor'),
-> ('Hachi', 'K010', 'Bojoleali');
Query OK, 9 rows affected (0.003 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (1, 'Bahasa Indonesia', 'Teori', 3);
Query OK, 1 row affected (0.015 sec)

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (2, 'Zaringen Komputer', 'Teori', 4);
Query OK, 1 row affected (0.002 sec)

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (3, 'Sistem Informasi', 'Teori', 2),
-> (4, 'Sistem Digital', 'Teori', 3),
-> (5, 'Praktikum Sistem Digital', 'Praktek', 2),
-> (6, 'Algoritma dan Pemrograman', 'Teori', 4),
-> (7, 'Praktikum Algoritma dan Pemrograman', 'Praktek', 2),
-> (8, 'Sistem Basis Data', 'Teori', 3),
-> (9, 'Logika dan Himpunan', 'Teori', 3),
-> (10, 'Bahasa Inggris', 'Teori', 4);
Query OK, 8 rows affected (0.004 sec)
Records: 8 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]> INSERT INTO ruang_kelas(kode_kelas, lokasi_kelas, jumlah_daya_tampung_kelas) VALUES
-> ('A', 'Lantai 1', 30);
Query OK, 1 row affected (0.015 sec)

MariaDB [perkuliahan]> INSERT INTO ruang_kelas(kode_kelas, lokasi_kelas, jumlah_daya_tampung_kelas) VALUES
-> ('B', 'Lantai 1', 40),
-> ('C', 'Lantai 1', 40);
```

Ruang_kelas

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

MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, nip, alamat_dosen) VALUES
-> ('Peter', 'K002', 'Sukoharjo'),
-> ('Ratri', 'K003', 'Surabaya'),
-> ('Ishan', 'K004', 'Semarang'),
-> ('Ibnu', 'K005', 'Karanganyar'),
-> ('Ignis', 'K006', 'Lampung'),
-> ('Ifriz', 'K007', 'Jakarta'),
-> ('Iris', 'K008', 'Jember'),
-> ('Ilyas', 'K009', 'Bogor'),
-> ('Hachi', 'K010', 'Bojoleali');
ERROR 1054 (42S22): Unknown column 'nip' in 'field list'
MariaDB [perkuliahan]> INSERT INTO dosen(nama_dosen, id_dosen, alamat_dosen) VALUES
-> ('Peter', 'K002', 'Sukoharjo'),
-> ('Ratri', 'K003', 'Surabaya'),
-> ('Ishan', 'K004', 'Semarang'),
-> ('Ibnu', 'K005', 'Karanganyar'),
-> ('Ignis', 'K006', 'Lampung'),
-> ('Ifriz', 'K007', 'Jakarta'),
-> ('Iris', 'K008', 'Jember'),
-> ('Ilyas', 'K009', 'Bogor'),
-> ('Hachi', 'K010', 'Bojoleali');
Query OK, 9 rows affected (0.003 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (1, 'Bahasa Indonesia', 'Teori', 3);
Query OK, 1 row affected (0.015 sec)

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (2, 'Zaringen Komputer', 'Teori', 4);
Query OK, 1 row affected (0.002 sec)

MariaDB [perkuliahan]> INSERT INTO mata_kuliah(kode_matkul, nama_matkul, tipe_matkul, jumlah_sks) VALUES
-> (3, 'Sistem Informasi', 'Teori', 2),
-> (4, 'Sistem Digital', 'Teori', 3),
-> (5, 'Praktikum Sistem Digital', 'Praktek', 2),
-> (6, 'Algoritma dan Pemrograman', 'Teori', 4),
-> (7, 'Praktikum Algoritma dan Pemrograman', 'Praktek', 2),
-> (8, 'Sistem Basis Data', 'Teori', 3),
-> (9, 'Logika dan Himpunan', 'Teori', 3),
-> (10, 'Bahasa Inggris', 'Teori', 4);
Query OK, 8 rows affected (0.004 sec)
Records: 8 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]> INSERT INTO ruang_kelas(kode_kelas, lokasi_kelas, jumlah_daya_tampung_kelas) VALUES
-> ('A', 'Lantai 1', 30);
Query OK, 1 row affected (0.015 sec)

MariaDB [perkuliahan]> INSERT INTO ruang_kelas(kode_kelas, lokasi_kelas, jumlah_daya_tampung_kelas) VALUES
-> ('B', 'Lantai 1', 40),
-> ('C', 'Lantai 2', 25),
-> ('D', 'Lantai 2', 35),
-> ('E', 'Lantai 3', 30),
-> ('F', 'Lantai 3', 45),
-> ('G', 'Lantai 4', 50),
-> ('H', 'Lantai 4', 55),
-> ('I', 'Lantai 4', 60),
-> ('J', 'Lantai 4', 70);
Query OK, 9 rows affected (0.003 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perkuliahan]>
```



```

C:\Command Prompt: mysql -u root -p
Query OK, 4 rows affected, 4 warnings (0.002 sec)
Records: 4 Duplicates: 0 Warnings: 4

MariaDB [perkuliahan]> CREATE TABLE dosen_mengajar_mahasiswa
-> (id_dosenFK INTEGER REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> nimFK INTEGER REFERENCES mahasiswa(nim)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_dosenFK, nimFK));
Query OK, 0 rows affected (0.020 sec)

MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K001', 'L200100002');
Query OK, 1 row affected, 2 warnings (0.003 sec)

MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K002', 'L200100002');
ERROR 1062 (23000): Duplicate entry '0-0' for key 'PRIMARY'
MariaDB [perkuliahan]> ('K002', 'L200100002');
ERROR 1062 (23000): Duplicate entry '0-0' for key 'PRIMARY'
MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K002', 'L200100002');
ERROR 1062 (23000): Duplicate entry '0-0' for key 'id_dosenFK'
MariaDB [perkuliahan]> CREATE TABLE dosen_mengajar_mahasiswa(
-> id_dosenFK VARCHAR(20) REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> nimFK VARCHAR(20) REFERENCES mahasiswa(nim)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_dosenFK, nimFK)
-> );
Query OK, 0 rows affected (0.033 sec)

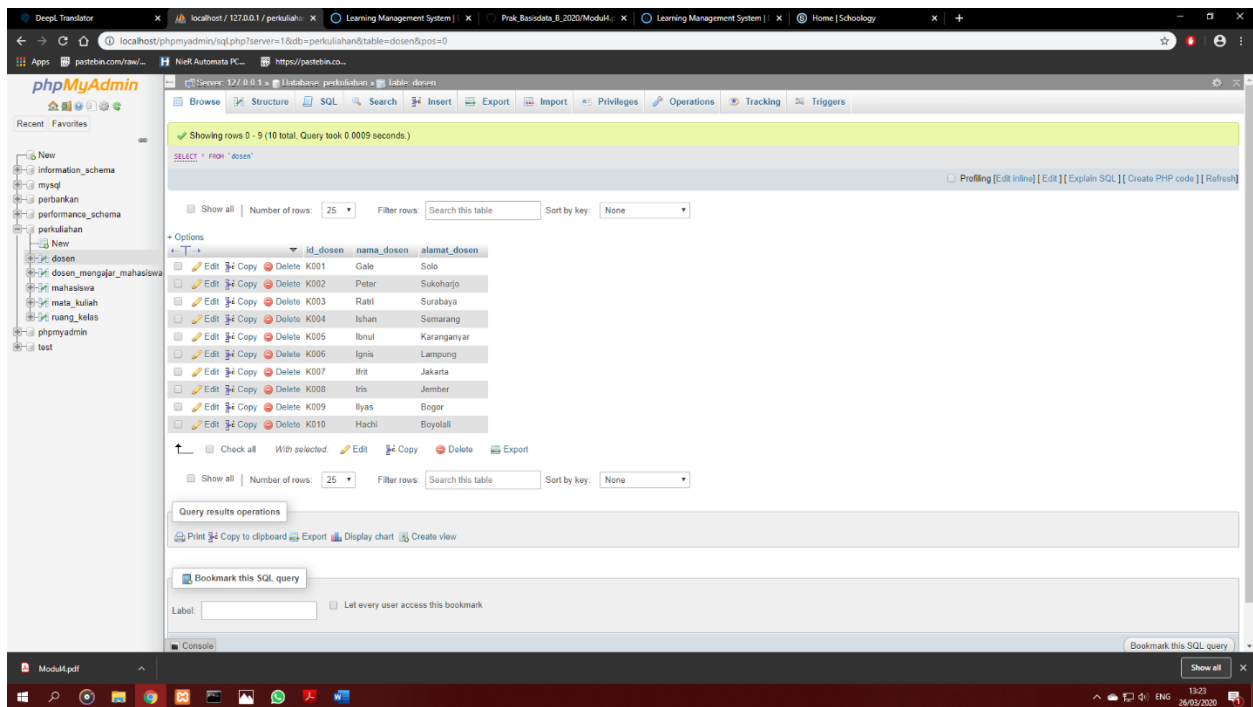
MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K001', 'L200100002');
Query OK, 1 row affected (0.004 sec)

MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K001', 'L200100003');
Query OK, 1 row affected (0.002 sec)

MariaDB [perkuliahan]> INSERT INTO dosen_mengajar_mahasiswa(id_dosenFK, nimFK) VALUES
-> ('K001', 'L200100004'),
-> ('K002', 'L200100005'),
-> ('K002', 'L200100006'),
-> ('K002', 'L200100007'),
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-> ('K005
```

Hasil Print out :
mahasiswa

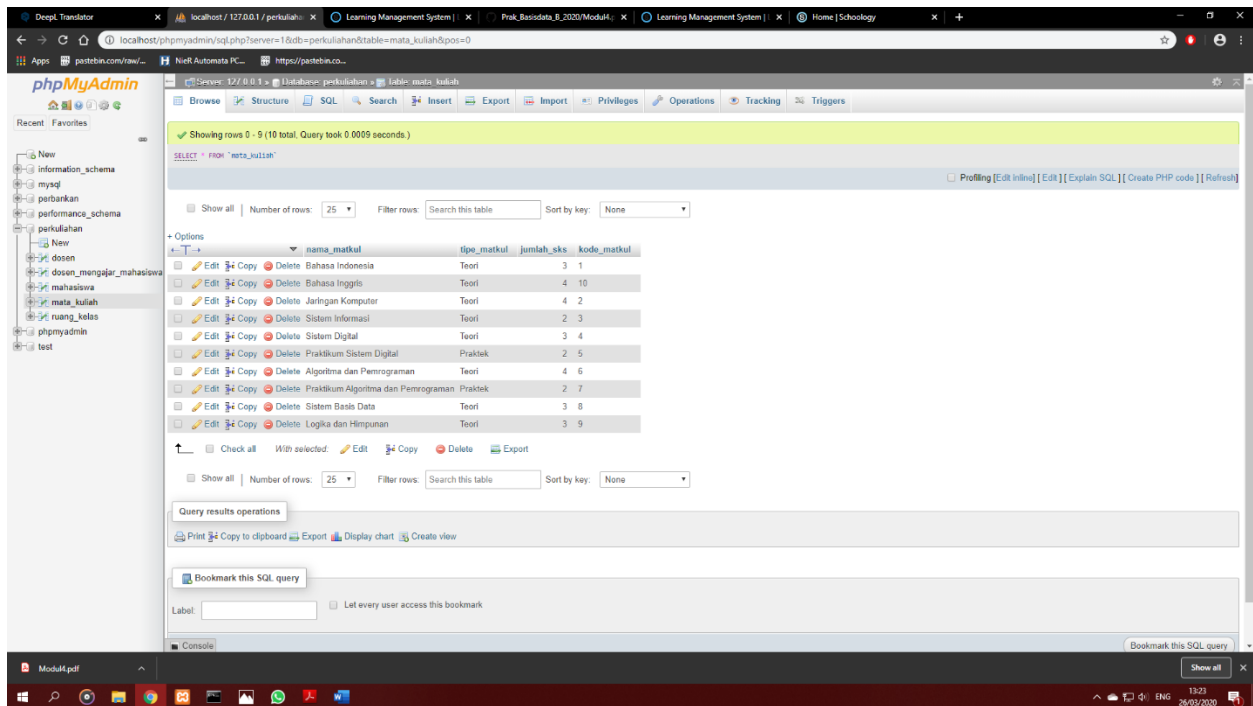
Dosen



The screenshot shows the phpMyAdmin interface with the 'dosen' table selected. The table has 10 rows of data. The columns are 'id_dosen', 'nama_dosen', and 'alamat_dosen'. The data is as follows:

id_dosen	nama_dosen	alamat_dosen
K001	Gale	Solo
K002	Peter	Sukoharjo
K003	Rabi	Surabaya
K004	Ishan	Semarang
K005	Ibnu	Karanganyar
K006	Ignis	Lampung
K007	Irit	Jakarta
K008	Iris	Jember
K009	Iyas	Bogor
K010	Hadri	Bojale

Mata_kuliah



The screenshot shows the phpMyAdmin interface with the 'mata_kuliah' table selected. The table has 10 rows of data. The columns are 'nama_makul', 'tipe_makul', 'jumlah_sks', and 'kodo_makul'. The data is as follows:

nama_makul	tipe_makul	jumlah_sks	kodo_makul
Bahasa Indonesia	Teori	3	1
Bahasa Inggris	Teori	4	10
Jaringan Komputer	Teori	4	2
Sistem Informasi	Teori	2	3
Sistem Digital	Teori	3	4
Praktikum Sistem Digital	Praktek	2	5
Algoritma dan Pemrograman	Teori	4	6
Praktikum Algoritma dan Pemrograman	Praktek	2	7
Sistem Basis Data	Teori	3	8
Logika dan Himpunan	Teori	3	9

Ruang_kelas

The screenshot shows the phpMyAdmin interface with the 'ruang_kelas' table selected. The table contains 10 rows of data, each representing a classroom (Lantai 1 to Lantai 4). The columns are 'kode_kelas', 'lokasi_kelas', and 'jumlah_daya_tampung_kelas'.

kode_kelas	lokasi_kelas	jumlah_daya_tampung_kelas
A	Lantai 1	30
B	Lantai 1	40
C	Lantai 2	25
D	Lantai 2	35
E	Lantai 3	28
F	Lantai 3	45
G	Lantai 4	50
H	Lantai 4	55
I	Lantai 4	60
J	Lantai 4	70

Dosen_mengajar_mahasiswa

The screenshot shows the phpMyAdmin interface with the 'dosen_mengajar_mahasiswa' table selected. The table contains 20 rows of data, each representing a teacher-student relationship. The columns are 'id_dosen/K' and 'nim/K'.

id_dosen/K	nim/K
K001	L200100002
K001	L200100003
K001	L200100004
K002	L200100005
K002	L200100006
K002	L200100007
K003	L200100008
K003	L200100009
K004	L2001000010
K004	L2001000020
K005	L2001000001
K005	L2001000002
K005	L2001000020
K006	L2001000003
K006	L2001000004
K007	L2001000004
K008	L2001000005
K009	L2001000005
K010	L20010000020

