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Kelas : D

Langkah-langkah perancangan database

1. Menentukan entities yang perlu ada di database
MAHASISWA : Menyimpan semua data mahasiswa
DOSEN : Menyimpan semua data dosen
MATA_KULIAH : Menyimpan semua data mata kuliah
RUANG : Menyimpan semua data ruang
2. Menentukan attribute masing-masing entities sesuai kebutuhan database
MAHASISWA
 - id_mhs : id untuk mahasiswa (int) PK
 - nama_mhs : nama untuk mahasiswa (varchar(45))
 - Alamat_mhs : alamat untuk mahasiswa (varchar(225))DOSEN
 - Id_dosen : id untuk dosen(int) PK
 - Nama_dosen : nama untuk dosen(vvarchar(45))
 - Alamat_dosen : alamat untuk dosen (varchar(225))MATA_KULIAH
 - Kode_mk : untuk kode mata kuliah (varchar(10)) PK
 - Nama_mk : untuk nama mata kuliah (varchar(45))
 - Kode_ruang : untuk kode ruang (varchar(10))RUANG
 - Kode_ruang : untuk kode ruang(vvarchar(10)) PK
 - Lokasi : untuk tempat ruang (varchar(225))
 - Kapasitas : untuk jumlah kapasitas dari ruang(int)
3. Menentukan relationship antar entities

	MAHASISWA	DOSEN	MATA_KULIAH	RUANG
MAHASISWA	-	N:1	M:n	-
DOSEN		-	1:n	-
MATA_KULIAH			-	1:1
RUANG				-

Hubungan

MAHASISWA dibimbing DOSEN

- Tabel utama : MAHASISWA
- Tabel kedua : DOSEN
- Relationship : many-to-one n:1
- Attribute penghubung : id_mahasiswa, id_dosen (FK id_mahasiswa di MATA_KULIAH)

MAHASISWA mengambil MATA_KULIAH

- Tabel utama : MAHASISWA, MATA_KULIAH
- Tabel kedua : MAHASISWA_has_MATA_KULIAH
- Relationship : many_to_many m:n
- Attribute penghubung : id_mahasiswa, kode_mk (FK id_mahasiswa, kode_mk di MAHASISWA_has_MATA_KULIAH)

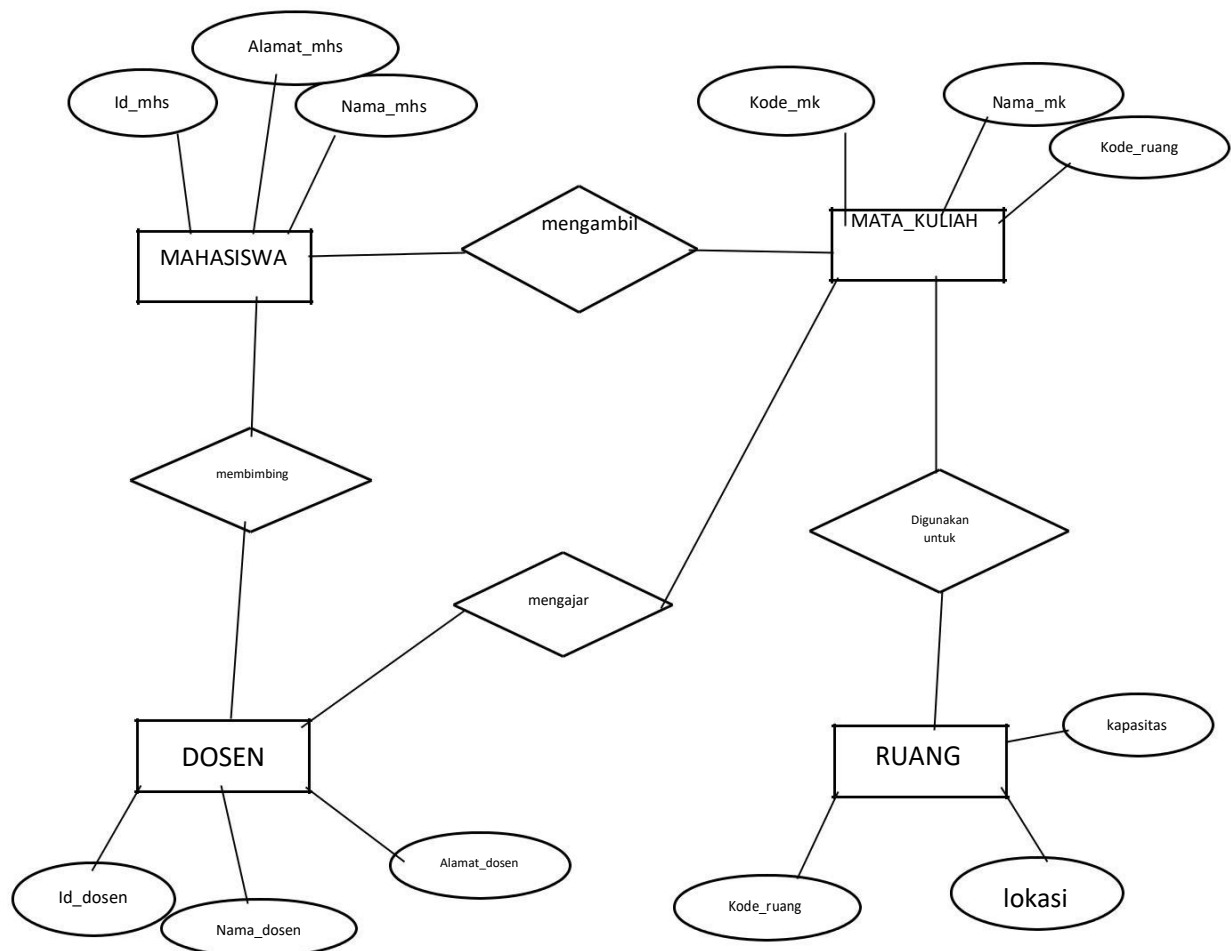
DOSEN mengajar MATA_KULIAH

- Tabel utama : DOSEN
- Tabel kedua : MATA_KULIAH
- Relationship : one-to-many 1:n
- Attribute penghubung : id_dosen, kode_mk (FK id_dosen di MATA_KULIAH)

RUANG digunakan untuk MATA_KULIAH

- Tabel utama : RUANG
- Tabel kedua : MATA_KULIAH
- Relationship : one-to-one 1:1
- Attribute penghubung : kode_ruang, kode_mk (FK kode_ruang di MATA_KULIAH)

4. Menggambar ERD diagram



Langkah-langkah perancangan database

1. Menentukan entities yang perlu ada di database
 - PASIEN : Menyimpan semua data pasien
 - OBAT: Menyimpan semua data obat
 - SUPLIER : Menyimpan semua data supplier
 - KARYAWAN : menyimpan semua data karyawan
 - RESEP : Menyimpan semua data resep
2. Menentukan attribute masing-masing entities sesuai kebutuhan database
 - PASIEN
 - Kd_psn : kode untuk pasien (varchar(10))
 - Nama_psn : nama untuk pasien (varchar(45))
 - No_telp : nomor untuk pasien (int)
 - OBAT
 - Kode_obat : untuk kode obat (varchar(10))
 - Kd_psn : kode untuk pasien (varchar(10))
 - Kd_resep : kode resep (varchar(10))
 - SUPLIER
 - Kode : untuk kode supplier (varchar(10)) PK
 - Alamat : alamat supplier (varchar(225))
 - KARYAWAN
 - id_kry : id untuk karyawan (int) PK
 - nama_kry : nama untuk karyawan (varchar(45))
 - Alamat_kry : alamat untuk karyawan (varchar(225))
 - Gaji : untuk gaji karyawan (varchar(20))
 - RESEP
 - Kd_resep : untuk kode resep (varchar(10)) PK
 - Id_psn : untuk id pasien (varchar(10))
 - Tgl_resep : tanggal resep di berikan ke pasien (int)
3. Menentukan relationship antar entities

	PASIEN	OBAT	SUPLIER	KARYAWAN	RESEP
PASIEN	-	1:n	-	-	1:1
OBAT	-	-	N:1	-	-
SUPLIER	-	-	-	-	-
KARYAWAN	-	-	-	-	1:1
RESEP	-	-	-	-	-

Hubungan

PASIEN menerima obat

- Tabel utama : PASIEN
- Tabel kedua : OBAT
- Relationship : one-to-many 1:n
- Attribute penghubung : kd_psn, id_resep (FK kd_psn di RESEP)

PASIEN menukar RESEP

- Tabel utama : PASIEN ○

Tabel kedua : RESEP

- Relationship : one-to-one 1:1
- Attribute penghubung : kd_psn, kd_resep (FK kd_psn di RESEP)

OBAT dipasok SUPLIER

- Tabel utama : OBAT ○

Tabel kedua : SUPLIER

- Relationship : one-to-many 1:n
- Attribute penghubung : kode_obat, kode (FK kode_obat di SUPLIER)

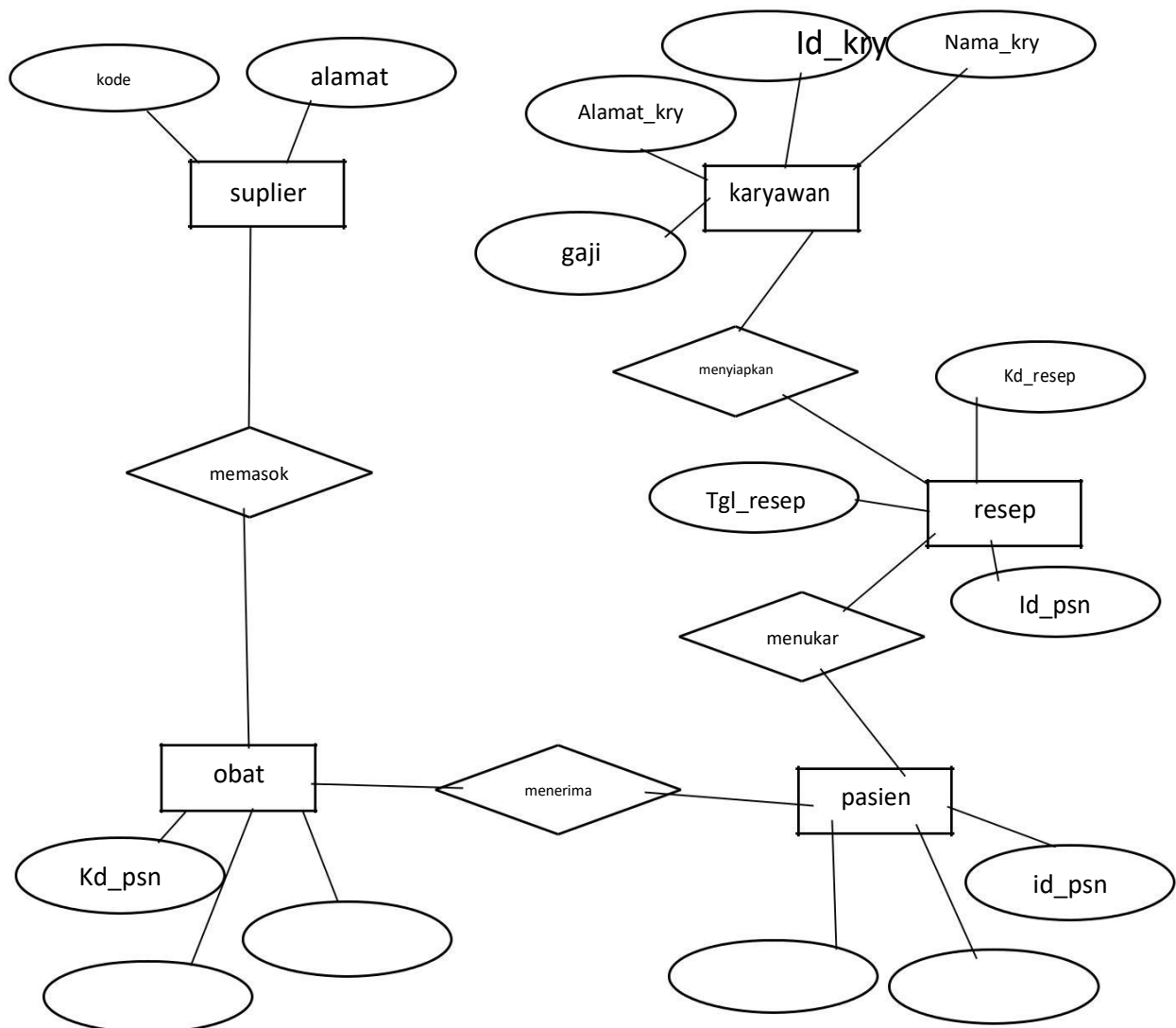
KARYAWAN menyiapkan RESEP

- Tabel utama : KARYAWAN

Tabel kedua : RESEP

- Relationship : one-to-one 1:1
- Attribute penghubung : id_kry, kd_resep (FK id_kry di RESEP)
-

4. Menggambar ERD diagram

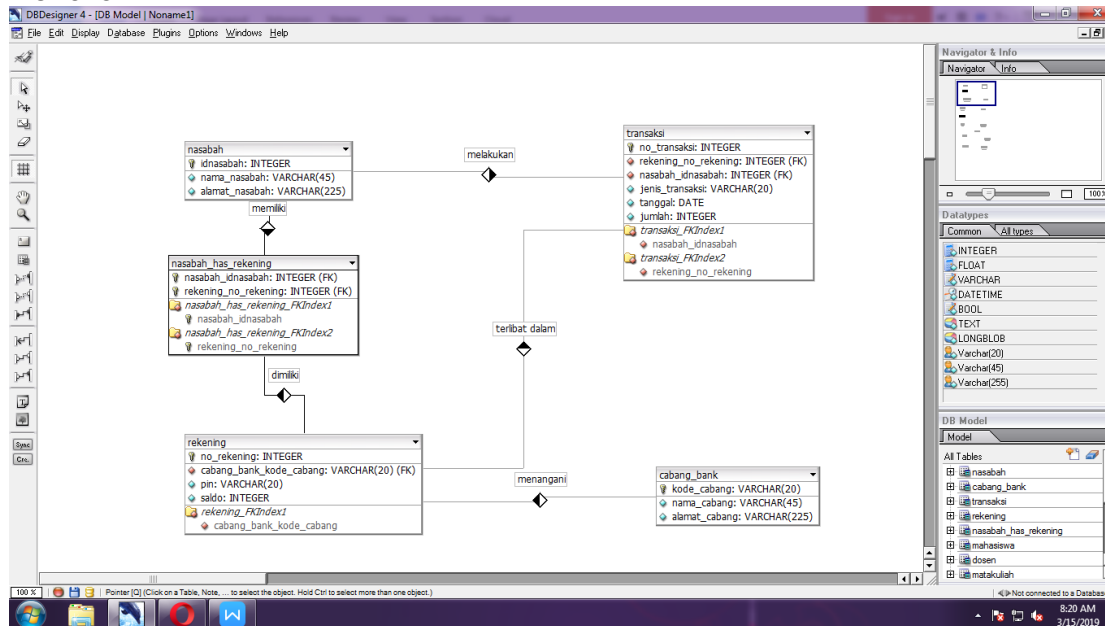


Kode_obat

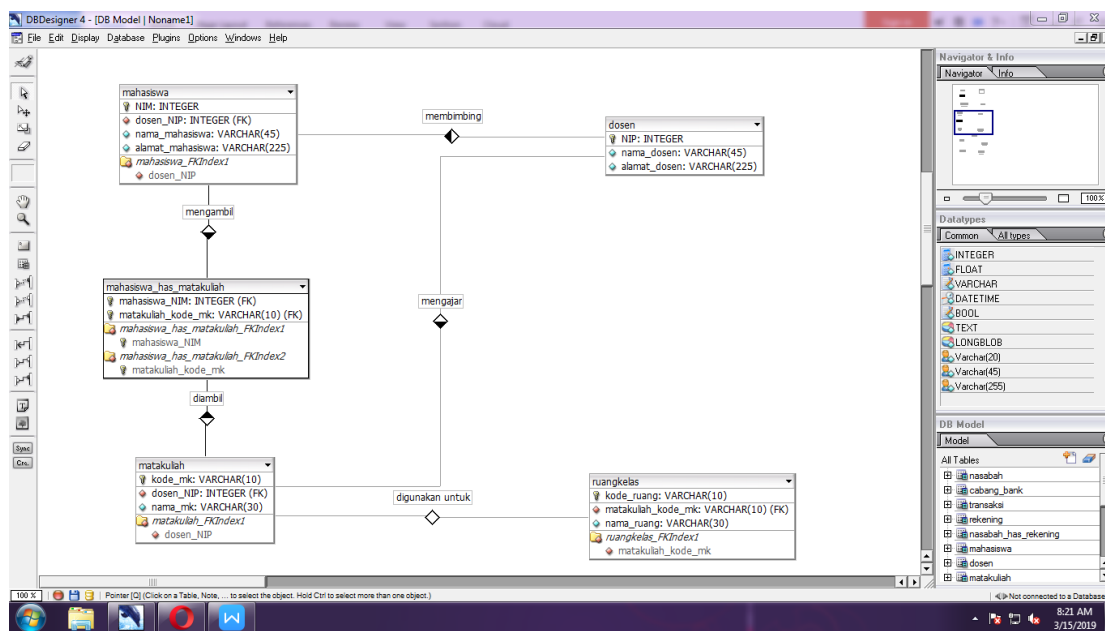
Nama_psn

No_telp

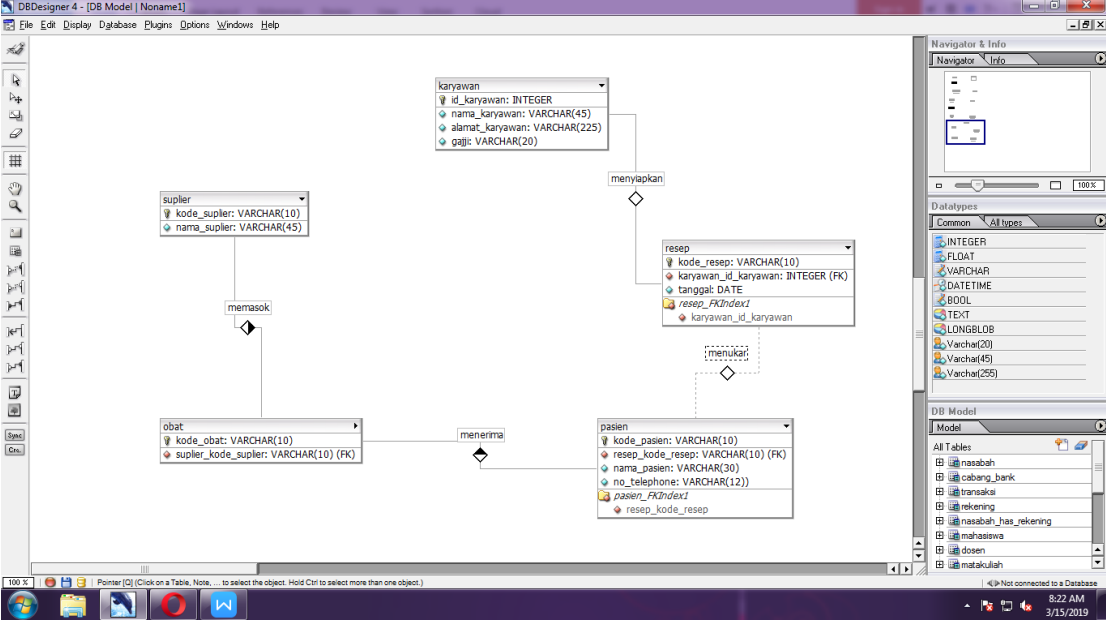
latihan MODUL 3



Tugas 1



Tugas 2



Modul 4

Data Definition Language

TUGAS DAN KEGIATAN PRAKTIKUM MODUL 4

Langkah – Langkah Praktikum

The screenshot shows a Windows desktop with two windows open. The left window is a Command Prompt titled "Command Prompt - mysql -u root -p". It shows the user navigating to the XAMPP MySQL bin directory and starting the MySQL service as root. The right window is the XAMPP Control Panel v3.2.2. It displays a table of modules and their status, along with a log of recent actions.

Service	Module	PID(s)	Port(s)	Actions
Apache	Apache	11196 10800	80, 443	Stop Admin Config Logs
MySQL	MySQL	8576	3306	Start Admin Config Logs
FileZilla	FileZilla			Start Admin Config Logs
Mercury	Mercury			Start Admin Config Logs
Tomcat	Tomcat			Start Admin Config Logs

Log entries from the XAMPP Control Panel:

- 21:47:38 [main] Initializing Control Panel
- 21:47:38 [main] Windows Version: Pro 64-bit
- 21:47:38 [main] XAMPP Version: 7.3.2
- 21:47:38 [main] Control Panel Version: 3.2.2 [Compiled: Nov 12th 2015]
- 21:47:38 [main] You are not running with administrator rights! This will work for most application stuff but whenever you do something with services there will be a security dialogue or things will break! So think about running this application with administrator rights!
- 21:47:38 [main] XAMPP Installation Directory: "d:\xampp"
- 21:47:38 [main] Checking for prerequisites
- 21:47:38 [main] All prerequisites found
- 21:47:45 [main] Initializing Modules
- 21:47:46 [main] Starting Check-Timer
- 21:47:46 [main] Control Panel Ready
- 21:47:49 [Apache] Attempting to start Apache app...
- 21:47:50 [Apache] Status change detected: running
- 21:47:50 [mysql] Attempting to start MySQL app...
- 21:47:51 [mysql] Status change detected: running

```
Command Prompt - mysql -u root -p
D:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.38-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)]> create database perbankan;
Query OK, 1 row affected (0.04 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> CREATE TABLE nasabah(
  -> id_nasabah INTEGER PRIMARY KEY,
  -> nama_nasabah VARCHAR(45) NOT NULL,
  -> alamat_nasabah VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.29 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank(
  -> kode_cabang VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.35 sec)

MariaDB [perbankan]> CREATE TABLE rekening(
  -> no_rekening INTEGER PRIMARY KEY,
  -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> pin VARCHAR(20) DEFAULT '1234' NOT NULL,
  -> saldo INTEGER DEFAULT 0 NOT NULL
  -> );
Query OK, 0 rows affected (0.24 sec)

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
  -> nama_nasabah VARCHAR(45) NOT NULL,
  -> alamat_nasabah VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.29 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank(
  -> kode_cabang VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.35 sec)

MariaDB [perbankan]> CREATE TABLE rekening(
  -> no_rekening INTEGER PRIMARY KEY,
  -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> pin VARCHAR(20) DEFAULT '1234' NOT NULL,
  -> saldo INTEGER DEFAULT 0 NOT NULL
  -> );
Query OK, 0 rows affected (0.24 sec)

MariaDB [perbankan]> CREATE TABLE transaksi(
  -> no_transaksi SERIAL PRIMARY KEY,
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASCADE,
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE SET NULL ON UPDATE CASCADE,
  -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
  -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
  -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
  -> );
Query OK, 0 rows affected (0.67 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(id_nasabahFK, no_rekening)
  -> );
ERROR 1072 (42000): Key column 'no_rekening' doesn't exist in table
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
  -> );
Query OK, 0 rows affected (0.22 sec)

MariaDB [perbankan]>
```



```
Command Prompt - mysql -u root -p
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_nasabahFK, no_rekening)
-> );
ERROR 1072 (42000): Key column 'no_rekening' doesn't exist in table
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
-> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
-> );
Query OK, 0 rows affected (0.22 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.03 sec)

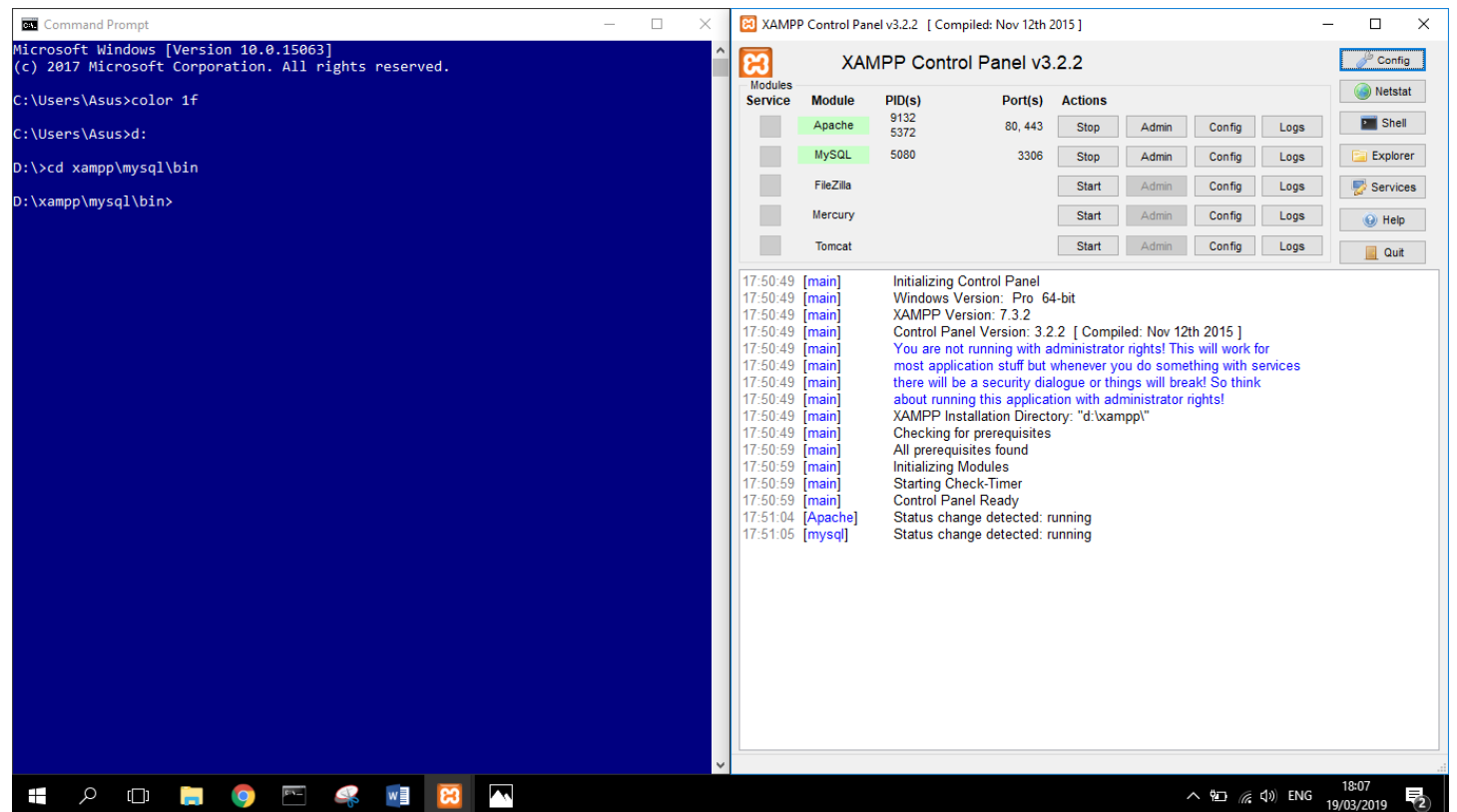
MariaDB [perbankan]> desc nasabah;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_nasabah | int(11)   | NO   | PRI | NULL    |       |
| nama_nasabah | varchar(45) | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.08 sec)

MariaDB [perbankan]> desc cabang_bank;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_cabang | varchar(20) | NO   | PRI | NULL    |       |
| nama_cabang | varchar(45) | NO   | UNI | NULL    |       |
| alamat_cabang | varchar(255) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.06 sec)

MariaDB [perbankan]>
```

Tugas

Membuat sebuah database yang bernama “perkuliahan”



```
Command Prompt - mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.1.38-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)]> create database perkuliahan;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use perkuliahan;
Database changed
MariaDB [perkuliahan]> CREATE TABLE dosen(
  -> id_dosen INTEGER PRIMARY KEY,
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> jk_dosen VARCHAR(20) NOT NULL
  -> );
Query OK, 0 rows affected (0.65 sec)

MariaDB [perkuliahan]> CREATE TABLE mahasiswa(
  -> id_mahasiswa INTEGER PRIMARY KEY,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> jurusan_mahasiswa VARCHAR(45) NOT NULL,
  -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
  -> );
Query OK, 0 rows affected (0.40 sec)

MariaDB [perkuliahan]> CREATE TABLE matakuliah(
  -> nama_mk VARCHAR(45) PRIMARY KEY,
  -> id_dosenFK INTEGER REFERENCES dosen(id_dosen) ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.36 sec)

MariaDB [perkuliahan]>
```

```
Command Prompt - mysql -u root -p
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> jk_dosen VARCHAR(20) NOT NULL
  -> );
Query OK, 0 rows affected (0.65 sec)

MariaDB [perkuliahan]> CREATE TABLE mahasiswa(
  -> id_mahasiswa INTEGER PRIMARY KEY,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> jurusan_mahasiswa VARCHAR(45) NOT NULL,
  -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
  -> );
Query OK, 0 rows affected (0.40 sec)

MariaDB [perkuliahan]> CREATE TABLE matakuliah(
  -> nama_mk VARCHAR(45) PRIMARY KEY,
  -> id_dosenFK INTEGER REFERENCES dosen(id_dosen) ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.36 sec)

MariaDB [perkuliahan]> CREATE TABLE kelas(
  -> kelasnya VARCHAR(45) PRIMARY KEY,
  -> nama_mkFK VARCHAR(45) REFERENCES matakuliah(nama_mk) ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.41 sec)

MariaDB [perkuliahan]>
```

```

Command Prompt - mysql -u root -p
-> id_dosenFK INTEGER REFERENCES dosen(id_dosen) ON DELETE CASCADE ON UPDATE CASCADE,
-> id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE
-> );
Query OK, 0 rows affected (0.36 sec)

MariaDB [perkuliahan]> CREATE TABLE kelas(
-> kelasnya VARCHAR(45) PRIMARY KEY,
-> nama_mkFK VARCHAR(45) REFERENCES matakuliah(nama_mk) ON DELETE CASCADE ON UPDATE CASCADE
-> );
Query OK, 0 rows affected (0.41 sec)

MariaDB [perkuliahan]> show tables;
+-----+
| Tables_in_perkuliahan |
+-----+
| dosen                  |
| kelas                  |
| mahasiswa              |
| matakuliah             |
+-----+
4 rows in set (0.15 sec)

MariaDB [perkuliahan]> desc dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen | int(11) | NO | PRI | NULL | |
| nama_dosen | varchar(45) | NO | | NULL | |
| jk_dosen | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.11 sec)

MariaDB [perkuliahan]>

```

```

Command Prompt - mysql -u root -p
4 rows in set (0.15 sec)

MariaDB [perkuliahan]> desc dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen | int(11) | NO | PRI | NULL | |
| nama_dosen | varchar(45) | NO | | NULL | |
| jk_dosen | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.11 sec)

MariaDB [perkuliahan]> desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_mahasiswa | int(11) | NO | PRI | NULL | |
| nama_mahasiswa | varchar(45) | NO | | NULL | |
| jurusan_mahasiswa | varchar(45) | NO | | NULL | |
| id_dosenFK | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)

MariaDB [perkuliahan]> desc kelas;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kelasnya | varchar(45) | NO | PRI | NULL | |
| nama_mkFK | varchar(45) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.04 sec)

MariaDB [perkuliahan]> desc matakuliah;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nama_mk | varchar(45) | NO | PRI | NULL | |
| id_dosenFK | int(11) | YES | | NULL | |
| id_mahasiswaFK | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.14 sec)

MariaDB [perkuliahan]>

```

Membuat sebuah database

```
Command Prompt - mysql -u root -p
Your MariaDB connection id is 118
Server version: 10.1.38-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)]> create database apotek;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use apotek;
Database changed
MariaDB [apotek]> create table pasien(
  -> kode_pasien VARCHAR(10) PRIMARY KEY NOT NULL,
  -> nama_pasien VARCHAR(45),
  -> notlp_pasien INTEGER);
Query OK, 0 rows affected (0.30 sec)

MariaDB [apotek]> create table obat(
  -> kode_obat VARCHAR(10) PRIMARY KEY NOT NULL,
  -> kode_resep VARCHAR(10),
  -> kode_pasienFK VARCHAR(10) REFERENCES pasien(kode_pasien) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.30 sec)

MariaDB [apotek]> create table supplier(
  -> kode_supplier VARCHAR(10) PRIMARY KEY NOT NULL,
  -> alamat_supplier VARCHAR(45));
Query OK, 0 rows affected (0.27 sec)

MariaDB [apotek]> create table karyawan(
  -> id_karyawan INTEGER PRIMARY KEY NOT NULL,
  -> nama_karyawan VARCHAR(45),
  -> alamat_karyawan VARCHAR(255),
  -> gaji_karyawan VARCHAR(20));
Query OK, 0 rows affected (0.34 sec)

MariaDB [apotek]> create table resep(
  -> kode_rsp VARCHAR(10) PRIMARY KEY NOT NULL,
  -> tgl_resep DATE,
  -> kode_pasienFK VARCHAR(10) REFERENCES pasien(kode_pasien) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.28 sec)

MariaDB [apotek]>
```

localhost / 127.0.0.1 / apotek | X

localhost/phpmyadmin/db_structure.php?server=1&db=apotek

Server: 127.0.0.1 » Basis data: apotek

Struktur SQL Cari Kueri Ekspor Impor Operasi Hak Akses Routine Event Trigger Lainnya

Terbaru Favorit

Filters

Mengandung kata:

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
<input type="checkbox"/> karyawan		0	InnoDB	latin1_swedish_ci	16 KB	-
<input type="checkbox"/> obat		0	InnoDB	latin1_swedish_ci	16 KB	-
<input type="checkbox"/> pasien		0	InnoDB	latin1_swedish_ci	16 KB	-
<input type="checkbox"/> resep		0	InnoDB	latin1_swedish_ci	16 KB	-
<input type="checkbox"/> supplier		0	InnoDB	latin1_swedish_ci	16 KB	-
5 tabel	Jumlah	0	InnoDB	latin1_swedish_ci	80 KB	0 B

↑ ☐ Pilih Semua Dengan pilihan:

Cetak Kamus data

Buat tabel

Nama: Jumlah kolom:

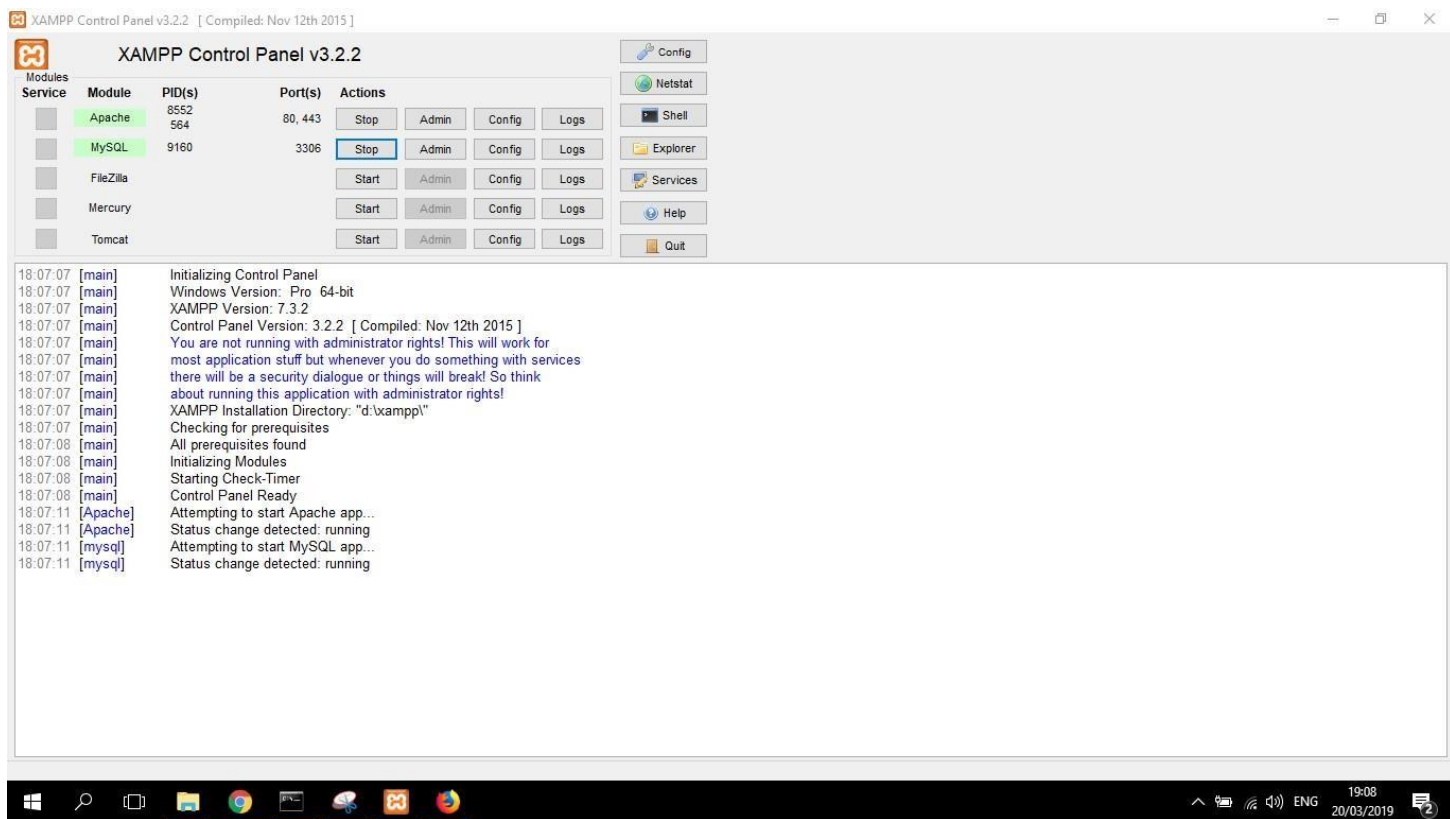
Kirim

localhost/phpmyadmin/sql.php

Konsol

Data Manipulation Language (DML)

1. Menjalankan XAMPP Control Panel dan menjalankan server Apache serta MySQL.



2. Membuka CMD dan login sebagai root ke MySQL kemudian memilih database 'perbankan'.

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

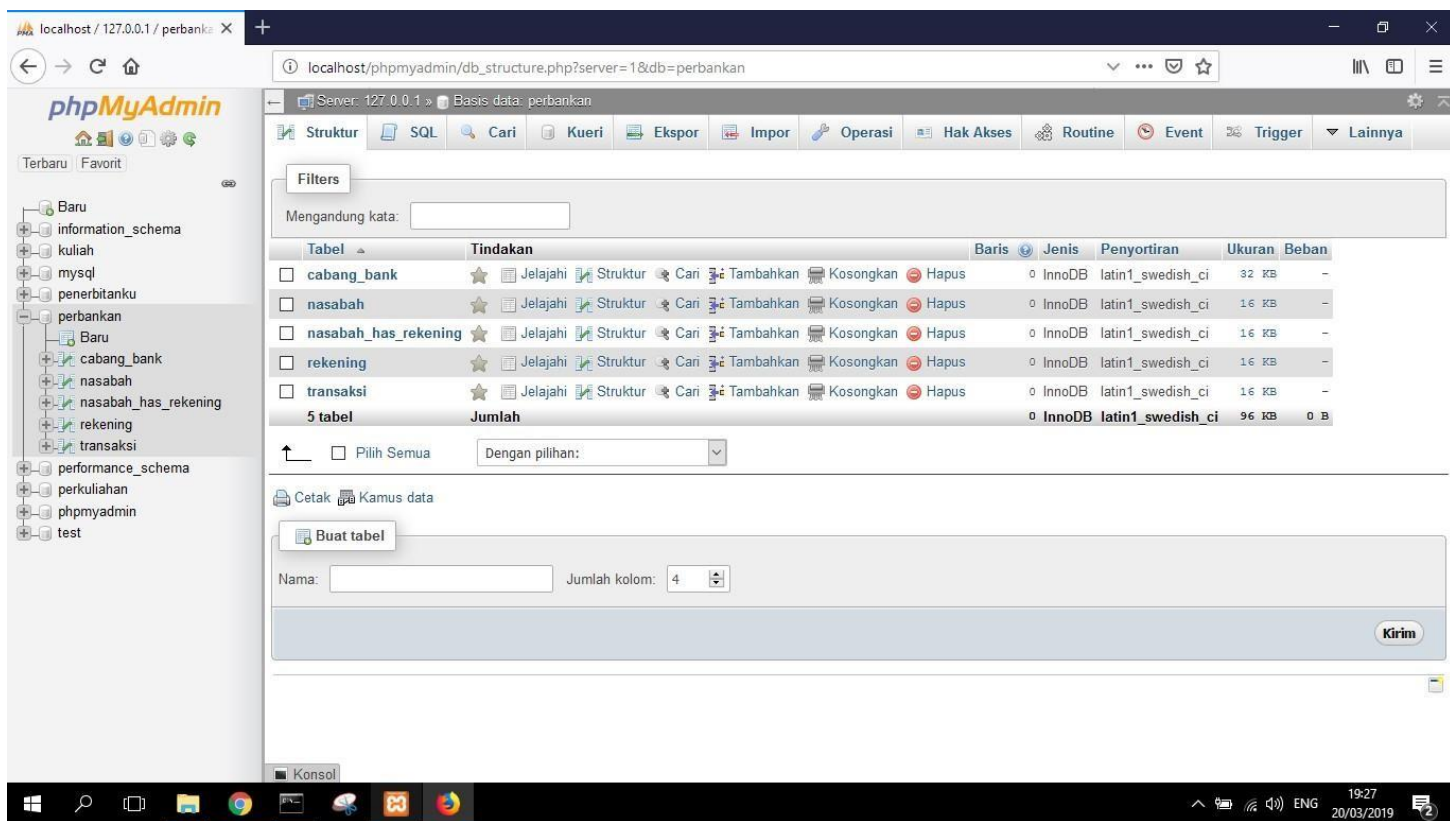
C:\Users\Asus>color 1f
C:\Users\Asus>d:
D:\>cd xampp\mysql\bin
D:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 29
Server version: 10.1.38-MariaDB mariadb.org binary distribution

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 perbankan;
Database changed
MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.00 sec)

MariaDB [perbankan]>
```



Gambar diatas menunjukkan table-table yang ada pada database ‘perbankan’.

3. Memasukkan data-data kedalam table ‘nasabah’.


```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> desc nasabah;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| id_nasabah | int(11) | NO | PRI | NULL | |
| nama_nasabah | varchar(45) | NO | | NULL | |
| alamat_nasabah | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

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. Pangdaran 11'),
-> (9, 'Canka Lokananta', 'Jl. Tidar 86'),
-> (10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.09 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>

```

phpMyAdmin interface showing the 'nasabah' table. The table has 10 rows of data. The columns are id_nasabah, nama_nasabah, and alamat_nasabah. The data is displayed in a table format with options to edit, delete, or insert rows.

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. Pangdaran 11
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

4. Memasukkan data-data kedalam table 'cabang_bank'.

```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> desc cabang_bank;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| kode_cabang | varchar(20) | NO | PRI | NULL | |
| nama_cabang | varchar(45) | NO | UNI | NULL | |
| alamat_cabang | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

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 (0.07 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>

```

phpMyAdmin interface showing the 'cabang_bank' table. The table has 6 rows of data. The columns are kode_cabang, nama_cabang, and alamat_cabang. The data is displayed in a table format with options to edit, delete, or insert rows.

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

5. Memasukkan data-data kedalam table 'rekening'.

The screenshot displays two windows side-by-side. The left window is a MySQL command prompt running on a root user. It shows the creation of a database named 'perbankan' and the insertion of data into two tables: 'cabang_bank' and 'rekening'. The 'cabang_bank' table has 6 rows, and the 'rekening' table has 13 rows. The right window is the phpMyAdmin interface, showing the 'rekening' table structure and a list of 13 rows of data. The table structure shows columns: no_rekening (int(11)), kode_cabangFK (varchar(20)), pin (varchar(20)), and saldo (int(11)). The data list shows 13 rows with columns: no_rekening, kode_cabangFK, pin, and saldo.

Command Prompt - mysql -u root -p

```
3 rows in set (0.01 sec)

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. Superman 23'),
-> ('BRUY','Bank Rut Unit Yogyakarta','Jl. Anggrek 21'),
-> ('BRUW','Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 6 rows affected (0.07 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> desc rekening;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_rekening | int(11) | NO | PRI | NULL | |
| kode_cabangFK | varchar(20) | YES | | NULL | |
| pin | varchar(20) | NO | | 1234 | |
| saldo | int(11) | NO | | 0 | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.05 sec)

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 (0.08 sec)
Records: 13 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>
```

phpMyAdmin

Server: 127.0.0.1 / perbankan » Tabel: rekening

Jelajahi Struktur SQL Cari Te

Profil [Edit dikotak] [Ubah] [Jelaskan SQL] [Buat kode PHP] [Segarkan]

Tampilkan semua Jumlah baris: 25

+ Opsi

	no_rekening	kode_cabangFK	pin	saldo
ah Salin Hapus	101	BRUS	1111	500000
ah Salin Hapus	102	BRUS	2222	350000
ah Salin Hapus	103	BRUS	3333	750000
ah Salin Hapus	104	BRUM	4444	900000
ah Salin Hapus	105	BRUM	5555	2000000
ah Salin Hapus	106	BRUS	6666	3000000
ah Salin Hapus	107	BRUS	7777	1000000
ah Salin Hapus	108	BRUB	0000	5000000
ah Salin Hapus	109	BRUB	9999	0
ah Salin Hapus	110	BRUY	1234	550000
ah Salin Hapus	111	BRUK	4321	150000
ah Salin Hapus	112	BRUK	0123	300000
ah Salin Hapus	113	BRUY	8888	255000

Pilih Semua Dengan pilihan: Ubah Salin Hapus Ekspor

Konsol

6. Memasukkan data-data kedalam table 'nasabah_has_rekening'.

```

Command Prompt - mysql -u root -p

D:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 176
Server version: 10.1.38-MariaDB mariadb.org binary distribution

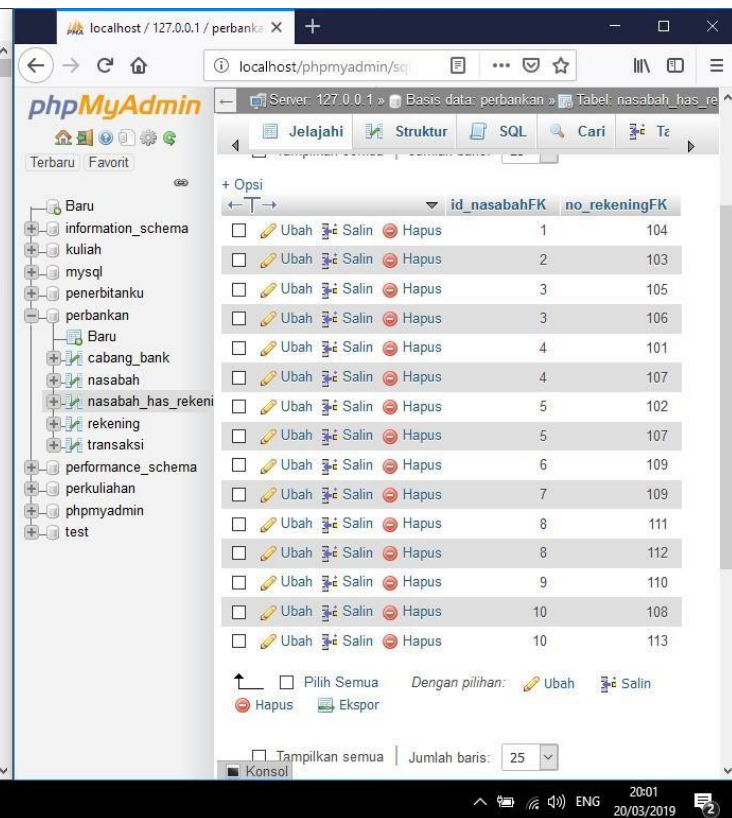
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]>
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 (0.08 sec)
Records: 15  Duplicates: 0  Warnings: 0

MariaDB [perbankan]>

```



7. Memasukkan data-data kedalam table 'transaksi'.

```

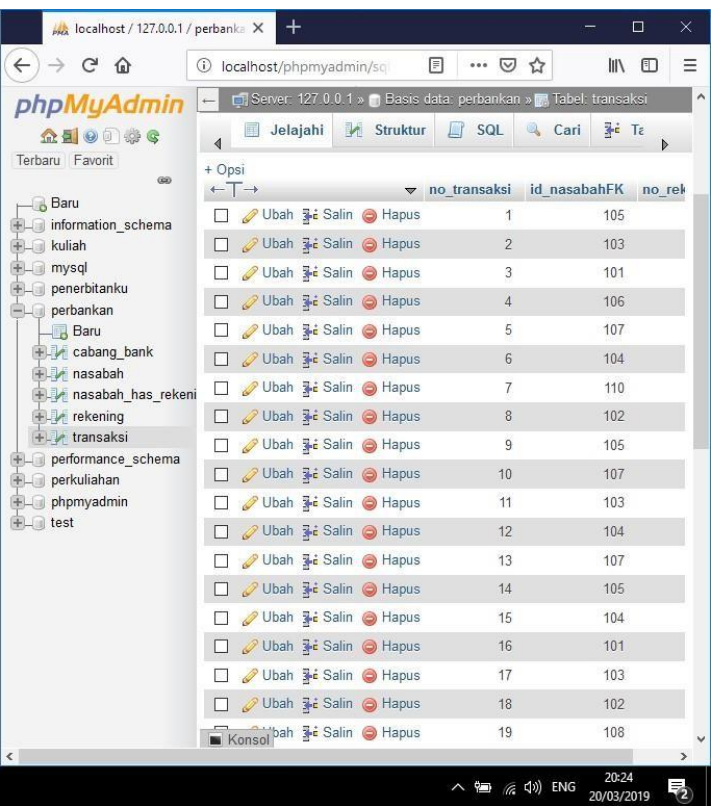
Command Prompt - mysql -u root -p

+-----+-----+-----+-----+
| jumlah | int(11) | NO | | NULL |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)

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',2009-11-30,100000),
-> (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 (0.08 sec)
Records: 30  Duplicates: 0  Warnings: 30

MariaDB [perbankan]>

```



8. Melakukan UPDATE terhadap alamat seorang nasabah.

The screenshot shows a MySQL command prompt window on the left and the phpMyAdmin web interface on the right. The command prompt displays a list of 30 rows of data, followed by an UPDATE query that sets the address of the customer with ID 7 to 'Jl. Slamet Riyadi No. 34'. The phpMyAdmin interface shows the 'nasabah' table with 10 rows. The row for ID 7 is highlighted, showing the updated address.

```
Command Prompt - mysql -u root -p
-> (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',2009-11-30,100000),
-> (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 (0.08 sec)
Records: 30 Duplicates: 0 Warnings: 30

MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jl. Slamet Riyadi No. 34'
WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]>
```

phpMyAdmin interface showing the 'nasabah' table with 10 rows. The row for ID 7 is highlighted, showing the updated address 'Jl. Slamet Riyadi No. 34'.

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 No. 34
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

9. Melakukan UPDATE alamat pada salah satu cabang bank.

The screenshot shows a MySQL command prompt window on the left and the phpMyAdmin web interface on the right. The command prompt displays a list of 30 rows of data, followed by two UPDATE queries. The first query sets the address of the branch with code 'BRUW' to 'Jl. A. Yani No. 23'. The second query sets the address of the branch with code 'BRUY' to 'Jl. A. Yani No. 23'. The phpMyAdmin interface shows the 'cabang_bank' table with 6 rows. The row for code 'BRUW' is highlighted, showing the updated address 'Jl. A. Yani No. 23'.

```
Command Prompt - mysql -u root -p
-> (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',2009-11-30,100000),
-> (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 (0.08 sec)
Records: 30 Duplicates: 0 Warnings: 30

MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jl. Slamet Riyadi No. 34'
WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jl. A. Yani No. 23'
WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]>
```

phpMyAdmin interface showing the 'cabang_bank' table with 6 rows. The row for code 'BRUW' is highlighted, showing the updated address 'Jl. A. Yani No. 23'.

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 No. 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Angrek 21

10. Menghapus salah satu data pada salah satu table.

The screenshot displays two windows side-by-side. The left window is a Command Prompt running MySQL, showing a series of INSERT, UPDATE, and DELETE queries. The right window is a web browser showing the phpMyAdmin interface for a database named 'perbankan'.

Command Prompt Output:

```
Command Prompt - mysql -u root -p
-> (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',2009-11-30,100000),
-> (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 (0.08 sec)
Records: 30 Duplicates: 0 Warnings: 30

MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jl. Slamet Riyadi No. 34'
WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jl. A. Yani No. 23' WH
ERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.07 sec)

MariaDB [perbankan]>
```

phpMyAdmin Interface:

The browser shows the phpMyAdmin interface for the 'perbankan' database. The 'nasabah' table is selected. A message indicates that 9 rows are displayed (0-8 of 9 total). The table structure is shown with columns: id_nasabah, nama_nasabah, and alamat_nasabah. Below the structure, a table view shows 10 rows of data. Each row has checkboxes for 'Ubah' (Edit), 'Salin' (Copy), and 'Hapus' (Delete) actions.

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. Menghapus salah satu data pada table cabang bank.

```
Command Prompt - mysql -u root -p
-> (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',2009-11-30,100000),
-> (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 (0.08 sec)
Records: 30 Duplicates: 0 Warnings: 30

MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jl. Slamet Riyadi No. 34'
WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jl. A. Yani No. 23' WH
ERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.07 sec)

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

MariaDB [perbankan]>
```

localhost / 127.0.0.1 / perbankan

localhost/phpmyadmin/sq

Sewer: 127.0.0.1 » Basis data: perbankan » Tabel: cabang_bank

Jelajahi Struktur SQL Cari Tambahkan Ekspor

Menampilkan baris 0 - 4 (total 5, Pencarian dilakukan dalam 0,0000 detik.)

SELECT * FROM `cabang_bank`

Profil [Edit kotak] [Ubah] [Jelaskan SQL] [Buat kode PHP] [Segarkan]

☐ Tampilkan semua | Jumlah baris: 25

+ Opsi

	kode_cabang	nama_cabang	alamat_cabang
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	BRUK	Bank Rut Unit Klaten	Jl. Superman 23
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	BRUW	Bank Rut Unit Wonogiri	Jl. A. Yani No. 23
<input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus	BRUY	Bank Rut Unit Yogyakarta	Jl. Angrek 21

☐ Pilih Semua Dengan pilihan: ☐ Ubah ☐ Salin ☐ Hapus ☐ Ekspor

☐ Tampilkan semua | Jumlah baris: 25

Operasi hasil kueri

Cetak ☐ Salin ke clipboard ☐ Ekspor ☐ Tampilkan bagan ☐ Buat tampilan

Markahi kueri SQL ini

☐ Izinkan semua pengguna untuk mengakses markah ini

Konsol

20:40 20/03/2019

MODUL 6

```

C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\LABSI-18>cd ..

C:\Users>cd ..

C:\>cd xampp/mysql/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 45
Server version: 10.1.37-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 perbankan;
Database changed
MariaDB [perbankan]> select nama_nasabah,alamat_nasabah from nasabah order by na
ma_nasabah;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Andara       | Jl. Pertama 26 |
| Bening       | Jl. Agatis 10  |
| Budi Eko Prayogo | Jl. Kantil 30  |
| Budi Martono | Jl. Merak 22   |
| Canka Lokananta | Jl. Tidar 86   |
| Cinta       | Jl. Ketiga 24  |
| Danindya    | Jl. Aki Balak 22 |
| Kartika Padmasari | Jl. Manggis 15 |
| Khatulistyawara | Jl. Ir. Soekarno 12 |
| Maryati     | Jl. MT Haryono 31 |
| Muliana     | Jl. Jend. Sudirman 97 |
| Pandan Wangi | Jl. Imam Bonjol 20 |
| Puput       | Jl. AMD 10     |
| Putri       | Jl. Diponegoro 19 |
| Rangga      | Jl. Kedua 80   |
| Sari Murti   | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman    | Jl. Hasanudin 81 |
| Sutopo      | Jl. Jendral Sudirman 12 |
| Triandya    | Jl. Sutoyo 5   |
+-----+-----+
20 rows in set (0.00 sec)

```

C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where jenis_transaksi = 'kredit';

jenis_transaksi	jumlah
kredit	20000
kredit	30000
kredit	200000
kredit	150000
kredit	50000
kredit	200000
kredit	100000
kredit	20000
kredit	50000
kredit	200000
kredit	100000
kredit	100000
kredit	200000
kredit	20000
kredit	25000
kredit	50000
kredit	50000
kredit	50000
kredit	125000
kredit	125000
kredit	175000
kredit	80000
kredit	130000
kredit	150000

24 rows in set (0.00 sec)

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = '21-11-2009' order by jumlah;
Empty set, 1 warning (0.00 sec)

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = '21-11-2009';
Empty set, 1 warning (0.00 sec)

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = '2009-11-21' order by jumlah;

jenis_transaksi	jumlah
debit	40000

1 row in set (0.00 sec)

C:\Windows\system32\cmd.exe - mysql -u root -p

1 row in set (0.00 sec)

MariaDB [perbankan]> select nama_nasabah, jenis_transaksi, jumlah from nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabahfk and jumlah=20000;

nama_nasabah	jenis_transaksi	jumlah
Kartika Padmasari	kredit	20000
Budi Eko Prayogo	debit	20000
Kartika Padmasari	kredit	20000
Budi Eko Prayogo	debit	20000
Canka Lokananta	debit	20000
Puput	kredit	20000

6 rows in set (0.00 sec)

MariaDB [perbankan]> select nama_nasabah, alamat_nasabah from nasabah where nama_nasabah like 'su%';

nama_nasabah	alamat_nasabah
Sutopo	Jl. Jendral Sudirman 12
Suparman	Jl. Hasanudin 81

2 rows in set (0.00 sec)

MariaDB [perbankan]> use perbankan;

Modul : 7
Tugas
No 1 dan 2

```
MariaDB [perbankan]> select nama_nasabah, alamat_nasabah, jenis_transaksi, jumlah
-> from nasabah, transaksi
-> where nasabah.id_nasabah = transaksi.id_nasabahfk and jenis_transaksi='kredit'
order by nama_nasabah;
```

nama_nasabah	alamat_nasabah	jenis_transaksi	jumlah
Budi Eko Prayogo	Jl. Kantil 30	kredit	30000
Budi Eko Prayogo	Jl. Kantil 30	kredit	200000
Budi Martono	Jl. Merak 22	kredit	130000
Canka Lokananta	Jl. Tidar 86	kredit	150000
Danindya	Jl. Aki Balak 22	kredit	25000
Danindya	Jl. Aki Balak 22	kredit	50000
Kartika Padmasari	Jl. Manggis 15	kredit	20000
Kartika Padmasari	Jl. Manggis 15	kredit	20000
Kartika Padmasari	Jl. Manggis 15	kredit	200000
Maryati	Jl. MT Haryono 31	kredit	100000
Maryati	Jl. MT Haryono 31	kredit	200000
Pandan Wangi	Jl. Imam Bonjol 20	kredit	50000
Pandan Wangi	Jl. Imam Bonjol 20	kredit	80000
Puput	Jl. AMD 10	kredit	150000
Puput	Jl. AMD 10	kredit	20000
Puput	Jl. AMD 10	kredit	125000
Puput	Jl. AMD 10	kredit	125000
Putri	Jl. Diponegoro 19	kredit	175000
Putri	Jl. Diponegoro 19	kredit	50000
Suparman	Jl. Hasanudin 81	kredit	100000
Suparman	Jl. Hasanudin 81	kredit	50000
Suparman	Jl. Hasanudin 81	kredit	50000
Sutopo	Jl. Jendral Sudirman 12	kredit	100000
Sutopo	Jl. Jendral Sudirman 12	kredit	200000

24 rows in set (0.00 sec)

```
MariaDB [perbankan]>
MariaDB [perbankan]> select no_rekening, nama_nasabah, jenis_transaksi, jumlah
-> from rekening, nasabah, transaksi
-> where rekening.no_rekening = transaksi.no_rekeningfk and nasabah.id_nasabah = transaksi.id_nasabahfk and tanggal='2009-11-21' order by nama_nasabah;
```

no_rekening	nama_nasabah	jenis_transaksi	jumlah
105	Suparman	debit	40000

1 row in set (0.00 sec)

No 3 dan 4

```
MariaDB [perbankan]>
MariaDB [perbankan]>
MariaDB [perbankan]> select no_rekening, nama_nasabah, jenis_transaksi, jumlah
-> from rekening, nasabah, transaksi
-> where rekening.no_rekening = transaksi.no_rekeningfk and nasabah.id_nasabah = transaksi.id_nasabahfk and jumlah='20000';
```

no_rekening	nama_nasabah	jenis_transaksi	jumlah
101	Kartika Padmasari	kredit	20000
102	Budi Eko Prayogo	debit	20000
101	Kartika Padmasari	kredit	20000
102	Budi Eko Prayogo	debit	20000
110	Canka Lokananta	debit	20000
114	Puput	kredit	20000

6 rows in set (0.00 sec)

```
MariaDB [perbankan]>
MariaDB [perbankan]> select no_rekening, nama_nasabah, alamat_nasabah
-> from rekening, nasabah, nasabah_has_rekening
-> where nasabah.id_nasabah = nasabah_has_rekening.id_nasabahfk and rekening.no_rekening = nasabah_has_rekening.no_rekeningfk and nama_nasabah like 'su%';
```

no_rekening	nama_nasabah	alamat_nasabah
104	Sutopo	Jl. Jendral Sudirman 12
105	Suparman	Jl. Hasanudin 81
106	Suparman	Jl. Hasanudin 81

3 rows in set (0.00 sec)

No 5

```
MariaDB [perbankan]> select no_rekening as 'Nomor rekening', nama_nasabah as 'nama nasabah', jumlah as 'jumlah transaksi'
-> from rekening,nasabah,transaksi where
-> rekening.no_rekening = transaksi.no_rekeningfk and nasabah.id_nasabah = transaksi.id_nasabahfk and jenis_transaksi='debit' order by nama_nasabah;
```

Nomor rekening	nama nasabah	jumlah transaksi
116	Bening	100000
102	Budi Eko Prayogo	50000
102	Budi Eko Prayogo	20000
102	Budi Eko Prayogo	20000
119	Budi Martono	100000
108	Budi Martono	100000
110	Canka Lokananta	20000
123	Danindya	200000
122	Danindya	200000
107	Kartika Padmasari	100000
101	Kartika Padmasari	50000
118	Khatulistyawara	200000
118	Khatulistyawara	100000
118	Khatulistyawara	150000
103	Maryati	40000
103	Maryati	100000
103	Maryati	40000
103	Maryati	50000
117	Muliana	50000
117	Muliana	50000
105	Suparman	50000
106	Suparman	50000
105	Suparman	40000
104	Sutopo	50000
104	Sutopo	50000
109	Triandya	100000

26 rows in set (0.00 sec)

MariaDB [perbankan]>

Modul 8

DATABASE PERBANKAN

1.

```
mysql> use Perbankan;
Database changed
mysql> select transaksi.jenis_transaksi, transaksi.jumlah AS 'Jumlah(Rp)', count(jumlah) AS 'Total Transaksi'
-> from transaksi, nasabah
-> where nasabah.id_nasabah = transaksi.id_nasabahFK and
-> nasabah.nama_nasabah = 'Kartika Padmasari' group by transaksi.jenis_transaksi;
+-----+-----+-----+
| jenis_transaksi | Jumlah(Rp) | Total Transaksi |
+-----+-----+-----+
| debit           | 100000     | 2               |
| kredit          | 20000      | 3               |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select sum(saldo) AS 'Total Saldo Maryati' from rekening, nasabah, nasabah_has_rekening
-> where nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK and
-> rekening.no_rekening = nasabah_has_rekening.no_rekeningFK and
-> nasabah.nama_nasabah = 'Maryati';
+-----+
| Total Saldo Maryati |
+-----+
| 750000              |
+-----+
1 row in set (0.03 sec)

mysql> select count(jumlah), cabang_bank.nama_cabang from transaksi, rekening, cabang_bank
-> where rekening.no_rekening = transaksi.no_rekeningFK and
-> rekening.kode_cabangFK = cabang_bank.kode_cabang group by cabang_bank.nama_cabang;
+-----+-----+
| count(jumlah) | cabang_bank.nama_cabang |
+-----+-----+
| 2              | Cabang Bank A           |
| 3              | Cabang Bank B           |
+-----+-----+
```

2.

```
mysql> use Perbankan;
Database changed
mysql> select transaksi.jenis_transaksi, transaksi.jumlah AS 'Jumlah(Rp)', count(jumlah) AS 'Total Transaksi'
-> from transaksi, nasabah
-> where nasabah.id_nasabah = transaksi.id_nasabahFK and
-> nasabah.nama_nasabah = 'Kartika Padmasari' group by transaksi.jenis_transaksi;
+-----+-----+-----+
| jenis_transaksi | Jumlah(Rp) | Total Transaksi |
+-----+-----+-----+
| debit           | 100000     | 2               |
| kredit          | 20000      | 3               |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select sum(saldo) AS 'Total Saldo Maryati' from rekening, nasabah, nasabah_has_rekening
-> where nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK and
-> rekening.no_rekening = nasabah_has_rekening.no_rekeningFK and
-> nasabah.nama_nasabah = 'Maryati';
+-----+
| Total Saldo Maryati |
+-----+
| 750000              |
+-----+
1 row in set (0.03 sec)

mysql> select count(jumlah), cabang_bank.nama_cabang from transaksi, rekening, cabang_bank
-> where rekening.no_rekening = transaksi.no_rekeningFK and
-> rekening.kode_cabangFK = cabang_bank.kode_cabang group by cabang_bank.nama_cabang;
+-----+-----+
| count(jumlah) | cabang_bank.nama_cabang |
+-----+-----+
| 2              | Cabang Bank A           |
| 3              | Cabang Bank B           |
+-----+-----+
```

3.

```

+-----+-----+-----+
| kredit | 20000 | 3 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select sum(saldo) AS 'Total Saldo Maryati' from rekening, nasabah, nasabah_has_rekening
    -> where nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK and
    -> rekening.no_rekening = nasabah_has_rekening.no_rekeningFK and
    -> nasabah.nama_nasabah = 'Maryati';
+-----+
| Total Saldo Maryati |
+-----+
| 750000 |
+-----+
1 row in set (0.03 sec)

mysql> select count(jumlah), cabang_bank.nama_cabang from transaksi, rekening, cabang_bank
    -> where rekening.no_rekening = transaksi.no_rekeningFK and
    -> rekening.kode_cabangFK = cabang_bank.kode_cabang group by cabang_bank.nama_cabang;
+-----+-----+
| count(jumlah) | nama_cabang |
+-----+-----+
| 1 | Bank Rut Unit Boyolali |
| 2 | Bank Rut Unit Klaten |
| 4 | Bank Rut Unit Magelang |
| 29 | Bank Rut Unit Surakarta |
| 4 | Bank Rut Unit Wonogiri |
| 10 | Bank Rut Unit Yogyakarta |
+-----+-----+
6 rows in set (0.00 sec)

```

4.

```

+-----+-----+
| 2 | Bank Rut Unit Klaten |
| 4 | Bank Rut Unit Magelang |
| 29 | Bank Rut Unit Surakarta |
| 4 | Bank Rut Unit Wonogiri |
| 10 | Bank Rut Unit Yogyakarta |
+-----+-----+
6 rows in set (0.00 sec)

mysql> select nasabah.nama_nasabah, count(saldo) AS 'Jumlah Saldo' from rekening, nasabah, nasabah_has_rekening where saldo
between 500000 and 2000000
    -> and nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK and
    -> rekening.no_rekening = nasabah_has_rekening.no_rekeningFK;
+-----+-----+
| nama_nasabah | Jumlah Saldo |
+-----+-----+
| Sutopo | 5 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select nasabah.nama_nasabah, sum(saldo) AS 'Jumlah Saldo' from rekening, nasabah, nasabah_has_rekening where saldo
between 500000 and 2000000
    -> and nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK and
    -> rekening.no_rekening = nasabah_has_rekening.no_rekeningFK;
+-----+-----+
| nama_nasabah | Jumlah Saldo |
+-----+-----+
| Sutopo | 3200000 |
+-----+-----+
1 row in set (0.00 sec)

```

5.

7 rows in set (0.00 sec)

```
mysql> select nasabah.nama_nasabah, transaksi.tanggal, transaksi.jumlah from nasabah, transaksi
       -> where nasabah.id_nasabah = transaksi.id_nasabahFK and
       -> transaksi.jumlah > 100000 order by transaksi.jumlah desc;
```

nama_nasabah	tanggal	jumlah
Jon Koplo	2017-05-26 00:00:00	9700000
Jon Koplo	2017-05-26 00:00:00	8500000
Anggit	2017-06-08 00:00:00	700000
Anggit	2017-06-08 00:00:00	700000
Anggit	2017-06-08 00:00:00	700000
Anggit	2017-05-26 00:00:00	700000
Maryati	2017-05-24 00:00:00	547000
Sutopo	2017-05-26 00:00:00	520000
Sari Murti	2017-05-24 00:00:00	357000
Budi Eko Prayogo	2017-06-14 00:00:00	263000
Budi Murtono	2017-05-24 00:00:00	250000
Budi Eko Prayogo	2009-12-05 00:00:00	200000
Maryati	2009-11-28 00:00:00	200000
Kartika Padmasari	2009-11-20 00:00:00	200000
Sutopo	2009-11-15 00:00:00	200000
Canka Lokananta	2009-11-15 00:00:00	150000
Indri Hapsari	2017-05-24 00:00:00	130000
Satria Eka Jaya	2017-05-24 00:00:00	125000

18 rows in set (0.00 sec)

mysql> .

Modul 9

1. Buat user

```
MariaDB [(none)]> create user 'reza108'@'localhost' identified by '123';  
Query OK, 0 rows affected (0.00 sec)
```

2. Insert, Update, Delete pada table nasabah

```
Database changed  
MariaDB [mysql]> Grant insert, update, delete on perbankan.nasabah to reza108@localhost;  
Query OK, 0 rows affected (0.00 sec)
```

3. Select pada table cabang_bank

```
MariaDB [mysql]> grant select on perbankan.cabang_bank to reza108@localhost;  
Query OK, 0 rows affected (0.00 sec)
```

4. Perintah

```
C:\xampp\mysql\bin>mysql -u reza108 -p  
Enter password: ***  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 41  
Server version: 10.1.37-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 perbankan  
Database changed  
MariaDB [perbankan]> SELECT * from nasabah;  
ERROR 1142 (42000): SELECT command denied to user 'reza108'@'localhost' for table 'nasabah'
```

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah) values (105, 'reza', 'solobaru');  
Query OK, 1 row affected (0.09 sec)
```


SUBQUERY

1. Ambil salah satu mata kuliah. Tampilkan daftar mahasiswa yang tidak mengambil mata kuliah tersebut

```
MariaDB [perkuliahan]> select mhs.nim, mhs.nama from mahasiswa mhs, link_mahasiswa_matkul lmm, matkul mk where mhs.nim = lmm.nim and mk.kode_matkul = lmm.kode_matkul and mhs.nim not in (select mhs.nim from mahasiswa mhs, link_mahasiswa_matkul lmm, matkul mk where mhs.nim = lmm.nim and mk.kode_matkul = lmm.kode_matkul and mk.kode_matkul = 'TIF003') group by mhs.nim;
```

nim	nama
L200150118	Rina Kurniasari
L200150125	Indra Bayu Candra Gupta

2 rows in set (0.21 sec)

2. Satu dosen dapat mengampu lebih dari satu mata kuliah dan satu mahasiswa dapat mengambil lebih dari satu mata kuliah. Tampilkan daftar mahasiswa yang mengambil semua mata kuliah yang diampu oleh salah satu dosen

```
MariaDB [perkuliahan]> select mhs.nim, mhs.nama from mahasiswa mhs, matkul mk, link_mahasiswa_matkul lmm where mhs.nim = lmm.nim and mk.kode_matkul = lmm.kode_matkul and mk.kode_matkul in (select kode_matkul from matkul where kode_dosen = 'D004') group by mhs.nim having count(mk.kode_matkul) = (select count(kode_matkul) from matkul where kode_dosen='D004');
```

nim	nama
L200150088	Khofa Prayoga
L200150099	Purwantinah
L200150117	Widiyarti Endang Saputri
L200150123	Danindya Puput Muliana Putri
L200150128	Sulthana Dzakira Drajat
L200150129	Fendy
L200150144	Sam'an Alghozy
L200150146	Fakhrur Razi
L200154001	Khilyatin Ulin Fitri

9 rows in set (0.06 sec)

3. Karena salah satu mata kuliah (A) dihilangkan, seluruh mahasiswa yang mengambil matakuliah tersebut dipindahkan untuk mengambil mata kuliah lain (B). Lakukan UPDATE data menggunakan sub query

```
MariaDB [perkuliahan]> update link_mahasiswa_matkul  
-> set kode_matkul = (select kode_matkul from matkul where nama_matkul like 'Metode Penelitian & Publikasi Ilmiah')  
-> where kode_matkul = (select kode_matkul from matkul where nama_matkul like 'Sistem Digital');  
Query OK, 12 rows affected (0.10 sec)  
Rows matched: 12 Changed: 12 Warnings: 0
```

No 1.

```
1.py - C:\Users\LABSI-19\Desktop\New folder\1.py (3.7.3)
File Edit Format Run Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
update_transaksi = ("update transaksi set jumlah = '200000' where no_transaksi=1")
delete_transaksi = ("delete from transaksi where no_transaksi=52")

cursor.execute(delete_transaksi)
cursor.execute(update_transaksi)

cnx.commit()
cursor.close()
cnx.close()
```

Hasilnya no 52 hilang

<input type="checkbox"/>		Ubah		Salin		Hapus	41	4	107	debit	2009-11-19 00:00:00	100000
<input type="checkbox"/>		Ubah		Salin		Hapus	42	2	103	debit	2009-11-19 00:00:00	100000
<input type="checkbox"/>		Ubah		Salin		Hapus	43	1	104	debit	2009-11-19 00:00:00	50000
<input type="checkbox"/>		Ubah		Salin		Hapus	44	4	107	kredit	2009-11-20 00:00:00	200000
<input type="checkbox"/>		Ubah		Salin		Hapus	45	3	105	debit	2009-11-21 00:00:00	40000
<input type="checkbox"/>		Ubah		Salin		Hapus	46	1	104	kredit	2009-11-22 00:00:00	100000
<input type="checkbox"/>		Ubah		Salin		Hapus	47	4	101	kredit	2009-11-22 00:00:00	20000
<input type="checkbox"/>		Ubah		Salin		Hapus	48	2	103	debit	2009-11-22 00:00:00	50000
<input type="checkbox"/>		Ubah		Salin		Hapus	49	5	102	debit	2009-11-25 00:00:00	50000
<input type="checkbox"/>		Ubah		Salin		Hapus	50	10	108	debit	2009-11-26 00:00:00	100000
<input type="checkbox"/>		Ubah		Salin		Hapus	51	3	106	kredit	2009-11-27 00:00:00	50000
<input type="checkbox"/>		Ubah		Salin		Hapus	53	3	105	kredit	2009-11-28 00:00:00	100000
<input type="checkbox"/>		Ubah		Salin		Hapus	54	5	102	debit	2009-11-30 00:00:00	20000
<input type="checkbox"/>		Ubah		Salin		Hapus	55	1	104	debit	2009-12-01 00:00:00	50000
<input type="checkbox"/>		Ubah		Salin		Hapus	56	2	103	debit	2009-12-02 00:00:00	40000
<input type="checkbox"/>		Ubah		Salin		Hapus	57	4	101	debit	2009-12-04 00:00:00	50000

No 2

```
2.py - C:/Users/LABSI-19/Desktop/New folder/2.py (3.7.3)
File Edit Format Run Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
query = ('select * FROM nasabah')
query2 = ('SELECT distinct nasabah.id_nasabah, nasabah.nama_nasabah, nasabah.alamat_nasabah FROM transaksi, nasabah \
WHERE nasabah.id_nasabah=transaksi.id_nasabahFK and month(transaksi.tanggal)')

cursor.execute(query)
for (id_nasabah, nama_nasabah, alamat_nasabah) in cursor:
    print('nasabah dengan ID{} bernama {} beralamat di {}'.format(id_nasabah, nama_nasabah, alamat_nasabah))
cursor.execute(query2)
for (id_nasabah, nama_nasabah, alamat_nasabah) in cursor:
    print(id_nasabah, nama_nasabah, alamat_nasabah)
cursor.close()
cnx.close()
```


Hasil

```
Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
===== RESTART: C:/Users/LABSI-19/Desktop/New folder/2.py =====
nasabah dengan ID1 bernama Sutopo beralamat di Jl. Jendral Sudirman 12
nasabah dengan ID2 bernama Maryati beralamat di Jl. MT. Haryono 31
nasabah dengan ID3 bernama Suparman beralamat di Jl. Hasanudin 81
nasabah dengan ID4 bernama Kartika Padmasari beralamat di Jl. Manggis 15
nasabah dengan ID5 bernama Budi Eko Prayogo beralamat di Jl. Kantil 30
nasabah dengan ID6 bernama Satria Eka Jaya beralamat di Jl. Slamet Riyadi 45
nasabah dengan ID7 bernama Indri Hapsari beralamat di Jl. Sutoyo 5
nasabah dengan ID8 bernama Sari Murti beralamat di Jl. Pangandaran 11
nasabah dengan ID9 bernama Canka Lokananta beralamat di Jl. Tidar 86
nasabah dengan ID10 bernama Budi Murtono beralamat di Jl. Merak 22
nasabah dengan ID11 bernama Joko Ndo Kondo beralamat di Jl. Bareng jadian kagak
nasabah dengan ID12 bernama Jon Koplo beralamat di Jl. Angin Besar 12
nasabah dengan ID13 bernama Anggit beralamat di Solo
nasabah dengan ID31 bernama Alvicky beralamat di Sragen
nasabah dengan ID32 bernama Ihsan beralamat di Colomadu
nasabah dengan ID102 bernama kurnia beralamat di semarang
nasabah dengan ID123 bernama Alvix beralamat di Solo Raya
nasabah dengan ID999 bernama Susilo beralamat di Sukoharjo
nasabah dengan ID1000 bernama Sutopo beralamat di Jl. Jendral Sudirman
nasabah dengan ID1998 bernama Luceng beralamat di Nugini
nasabah dengan ID2000 bernama Maryati beralamat di Jl. MT Haryono 31
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
11 Joko Ndo Kondo Jl. Bareng jadian kagak
12 Jon Koplo Jl. Angin Besar 12
13 Anggit Solo
31 Alvicky Sragen
32 Ihsan Colomadu
102 kurnia semarang
123 Alvix Solo Raya
999 Susilo Sukoharjo
1000 Sutopo Jl. Jendral Sudirman
1998 Luceng Nugini
2000 Maryati Jl. MT Haryono 31
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