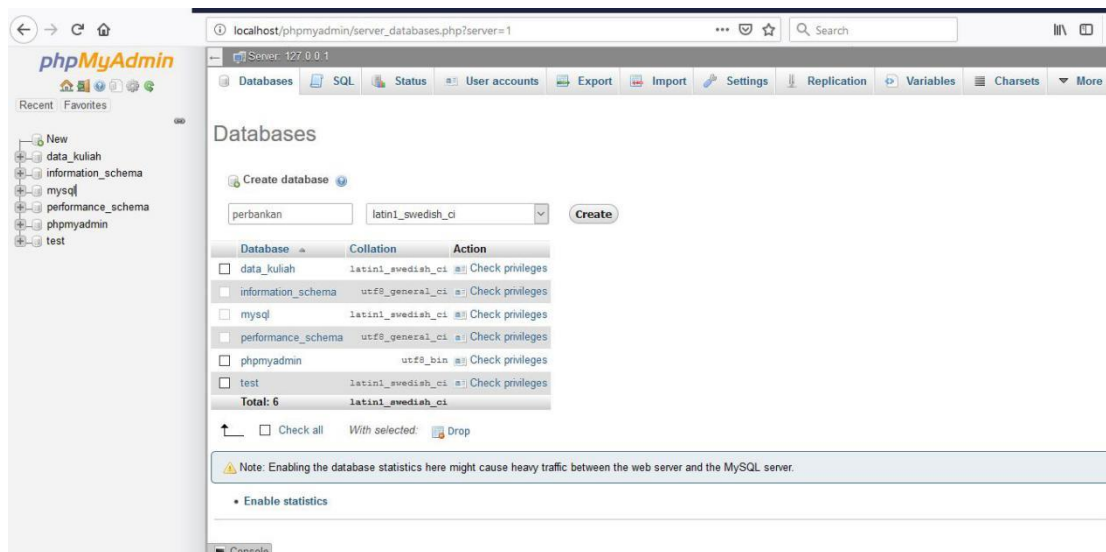Nama : Akbar Probo B.

Nim : L200180078

Kelas : C

Laporan Modul 5

Membuat database dengan nama perbankan

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

Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\ASUS 1>cd\

C:\>cd c:\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 51
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]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values
    -> (1, 'Sutopo', 'JL. Jendral Sudirman 12'),
    ->
    -> (2, 'Maryati', 'JL. MT. Haryono'),
    ->
    -> (3, 'Suparman', 'JL. Hasanudin 81'),
    ->
    -> (4, 'Kartika Padmasari', 'JL. Manggisa 15'),
    ->
    -> (5, 'Budi Eko Prayogo', 'JL. Kantil 30'),
    ->
    -> (6, 'Satria Eka Jaya', 'JL. Slamet Riyadi 45'),
    ->
    -> (7, 'Indri Hapsari', 'JL. Sutoyo 5'),
    ->
    -> (8, 'Sari Murti', 'JL. Pangandaran 11'),
    ->
    -> (9, 'Canka Lokananta', 'JL. Tidar 86'),
    ->
    -> (10, 'Budi Murtono', 'JL. Merak 22');
Query OK, 10 rows affected (0.05 sec)
Records: 10  Duplicates: 0  Warnings: 0

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 (0.08 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabang, pin, saldo) values
    -> (101, 'BRUS', 1111, 500000),
    -> (102, 'BRUS', 2222, 350000),
    -> (103, 'BRUS', 3333, 750000),
    -> (104, 'BRUM', 4444, 900000),
    -> (105, 'BRUM', 5555, 2000000),
    -> (106, 'BRUS', 6666, 3000000),
    -> (107, 'BRUS', 7777, 1000000),
    -> (108, 'BRUB', 8888, 5000000),
    -> (109, 'BRUB', 9999, 0),
    -> (110, 'BRUY', 1234, 550000),
    -> (111, 'BRUK', 4321, 150000),
    -> (112, 'BRUK', 0123, 300000),
    -> (113, 'BRUY', 8888, 255000);
Query OK, 13 rows affected (0.08 sec)
Records: 13  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabah, no_rekening) 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 (0.12 sec)
Records: 15  Duplicates: 0  Warnings: 0
```
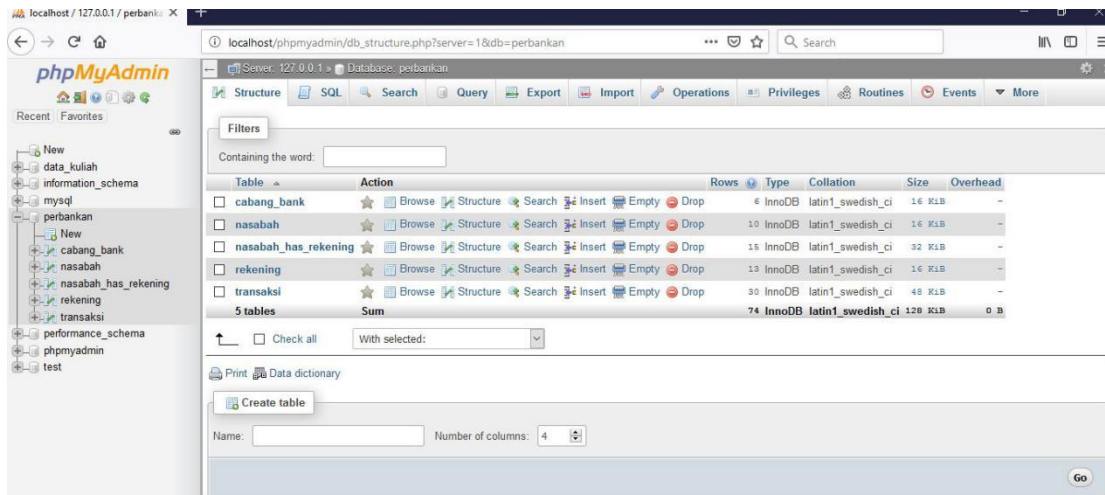
```
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekening, id_nasabah, jenis_transaksi, tanggal, jumlah) values
    -> (1, 105, 3, 'debit', 2009-11-10, 50000),
    -> (2, 103, 2, 'debit', 2009-11-10, 40000),
    -> (3, 101, 4, 'kredit', 2009-11-10, 20000),
    -> (4, 106, 3, 'debit', 2009-11-13, 50000),
    -> (5, 107, 5, 'kredit', 2009-11-13, 30000),
    -> (6, 104, 1, 'kredit', 2009-11-15, 200000),
    -> (7, 110, 9, 'kredit', 2009-11-19, 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, 20000),
    -> (15, 104, 1, 'kredit', 2009-11-22, 100000),
    -> (16, 101, 4, 'kreedit', 2009-11-22, 20000),
    -> (17, 103, 2, 'debit', 2009-11-22, 20000),
    -> (18, 102, 5, 'debit', 2009-11-25, 50000),
    -> (19, 108, 10, 'debit', 2009-11-26, 100000),
    -> (20, 106, 3, 'kredit', 2009-11-27, 50000),
    -> (21, 103, 2, 'kredit', 2009-11-28, 200000),
    -> (22, 105, 3, 'kredit', 2009-11-28, 100000),
    -> (23, 102, 5, 'debit', 2009-11-30, 20000),
    -> (24, 104, 1, 'debit', 2009-12-1, 50000),
    -> (25, 103, 2, 'debit', 2009-12-2, 40000),
    -> (26, 101, 4, 'debit', 2009-12-4, 50000),
    -> (27, 103, 2, 'kredit', 2009-12-5, 100000),
    -> (28, 102, 5, 'kredit', 2009-12-5, 200000),
    -> (29, 109, 7, 'debit', 2009-12-5, 100000),
    -> (30, 110, 9, 'debit', 2009-12-16, 20000);
Query OK, 30 rows affected, 30 warnings (0.85 sec)
Records: 30  Duplicates: 0  Warnings: 30
```

Memasukkan data perbankan bernama nasabah, cabang_bank, rekening, nasabah_has_rekekning, transaksi

Melakukan update pada nasabah dan cabang bank

```
MariaDB [perbankan]> delete from nasabah WHERE id_nasabah=7;

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`perbankan`.`transaksi`, CONSTRAINT `transaksi_ibfk_1` FOREIGN KEY (`id_nasabah`) REFERENCES `nasabah` (`id_nasabah`))
```

Melakukan penghapusan nasabah dan cabang bank

```
MariaDB [perbankan]> delete from cabang_bank WHERE nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.82 sec)

MariaDB [perbankan]> select * from cabang_bank;
+-------------+-------------------------+----------------------+
| kode_cabang | nama_cabang             | alamat_cabang        |
+-------------+-------------------------+----------------------+
| BRUB        | Bank Rut Unit Boyolali  | JL. Ahmad Yani 45    |
| BRUK        | Bank Rut Unit Klaten    | JL. Suparman 23      |
| BRUS        | Bank Rut Unit Surakarta | JL. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri  | Jalan A. Yani No. 23 |
| BRUY        | Bank Rut Unit Yogyakarta | JL. Anggrek 21      |
+-------------+-------------------------+----------------------+
5 rows in set (0.00 sec)
```