

# Laporan Praktikum Basis Data

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Kelas : E

Modul : 5 (Data Manipulation Language)

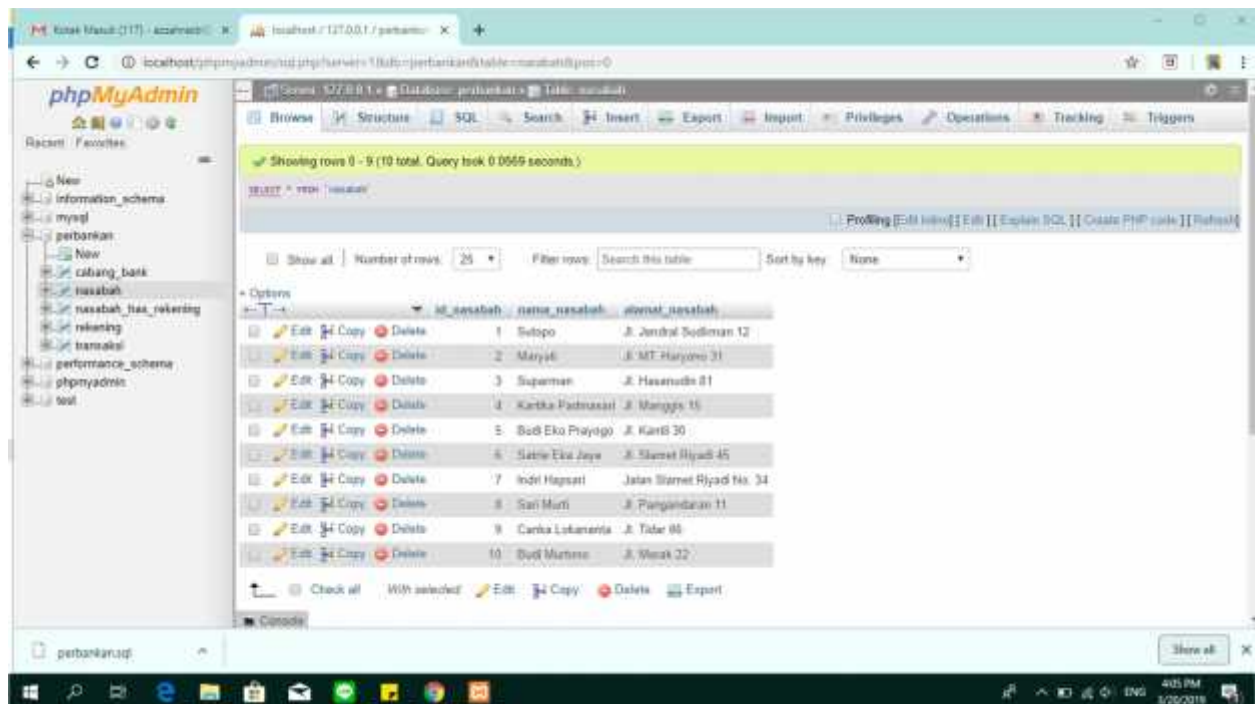
## KEGIATAN

### Nasabah.

```

C:\xampp>mysql> use perbank
Database changed
MariaDB [perbank]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (1, 'Sutopo', 'Jl. Jendral Sudirman 12'),
-> (2, 'Maryati', 'Jl. MT. Haryono 31'),
-> (3, 'Superman', 'Jl. Hasanudin 81'),
-> (4, 'Kartika Padmasari', 'Jl. Manggis 15'),
-> (5, 'Budi Eko Prayogo', 'Jl. Kantil 30'),
-> (6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45'),
-> (7, 'Indri Hapsari', 'Jl. Sutopo 5'),
-> (8, 'Sari Murti', 'Jl. Pangandaran 11'),
-> (9, 'Ciska Lukmanita', 'Jl. Tidar 30'),
-> (10, 'Budi Murtono', 'Jl. Warak 22');
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0

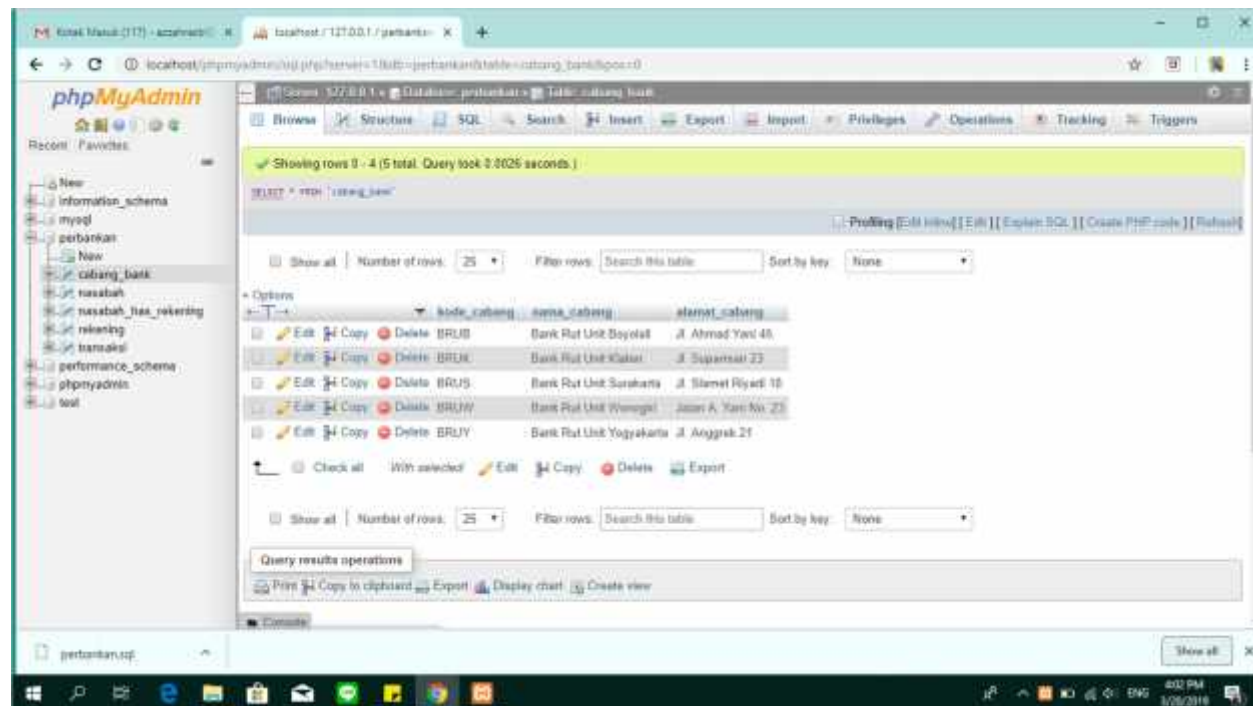
```



## Cabang\_bank

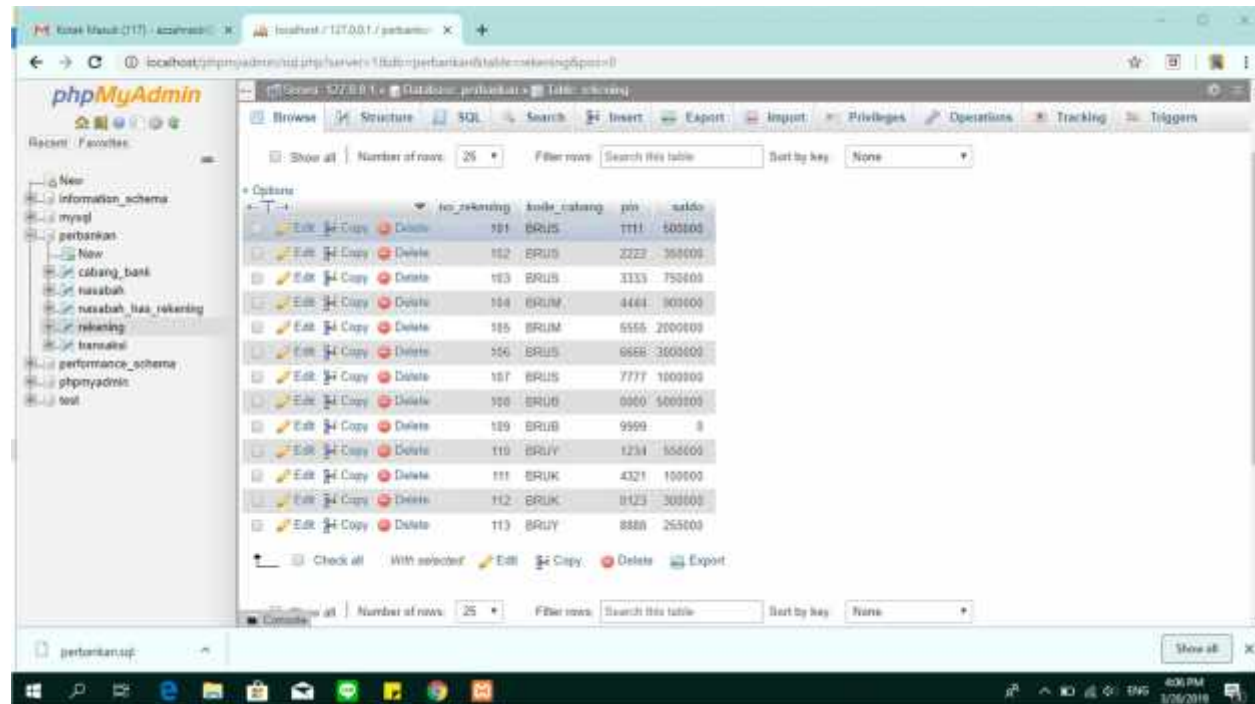
```
Command Prompt - mysql -u root -p

mysql> use perbank;
mysql> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
-> ('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18'),
-> ('BRUN', 'Bank Rut Unit Ngawi', 'Jl. A. Yani No. 23'),
-> ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),
-> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Suparmo 23'),
-> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
-> ('BRUH', 'Bank Rut Unit Wonorejo', 'Jl. Ujung Suripati 12');
Query OK, 6 rows affected (0.85 sec)
Records: 6  Duplicates: 0  Warnings: 0
```



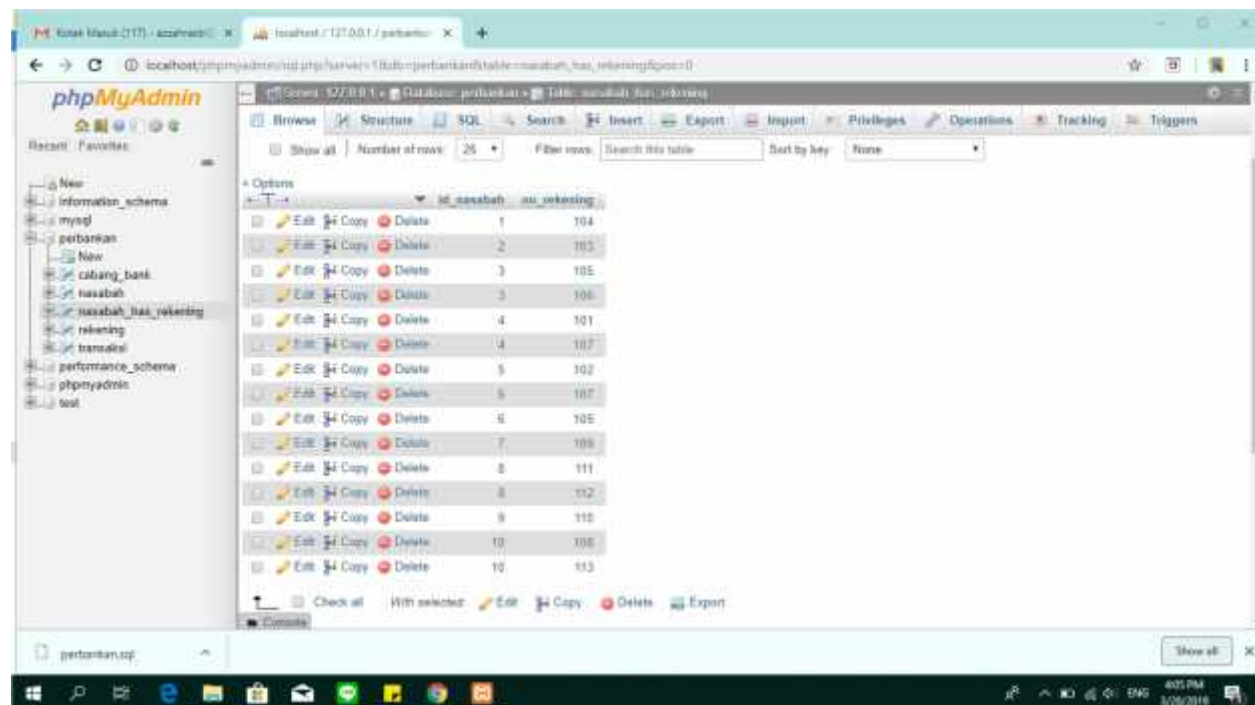
## Rekening

```
mysql> use perbankan;
mysql> insert into rekening (no_rekening, kode_rekening, pin, saldo) values
-> (101, 'BRUS', 1111, 500000),
-> (102, 'BRUS', 2222, 300000),
-> (103, 'BRUS', 3333, 750000),
-> (104, 'BRUM', 4444, 900000),
-> (105, 'BRUM', 5555, 2000000),
-> (106, 'BRUS', 6666, 3000000),
-> (107, 'BRUS', 7777, 1000000),
-> (108, 'BRUB', 9999, 5000000),
-> (109, 'BRUB', 9999, 0),
-> (110, 'BRUV', 1234, 500000),
-> (111, 'BRUK', 4321, 100000),
-> (112, 'BRUK', 0123, 300000),
-> (113, 'BRUY', 8888, 250000);
Query OK, 13 rows affected (0.00 sec)
Records: 13 Duplicates: 0 Warnings: 0
```



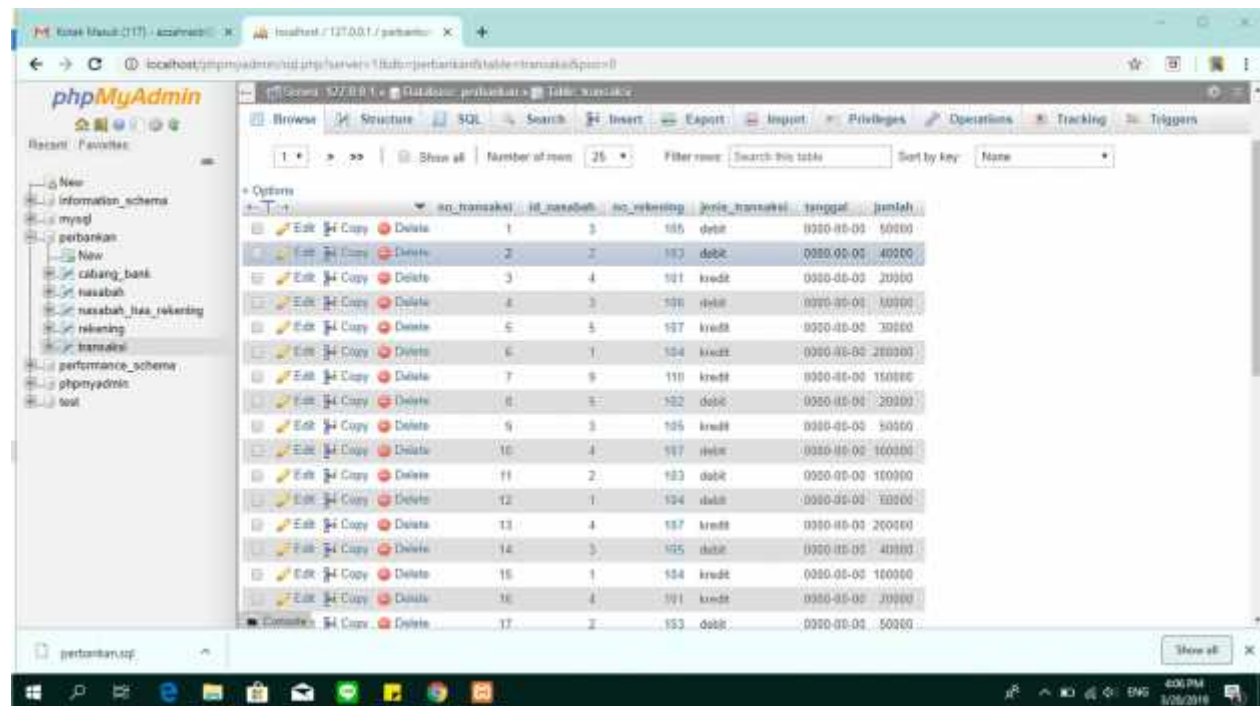
## Nasabah\_has\_rekening

```
mysql> INSERT INTO nasabah_has_rekening(id_nasabah, no_rekening) VALUES
-> (1, 104),
-> (2, 105),
-> (3, 106),
-> (3, 106),
-> (4, 101),
-> (4, 107),
-> (5, 102),
-> (5, 107),
-> (4, 100),
-> (7, 109),
-> (8, 111),
-> (9, 110),
-> (8, 113),
-> (9, 112),
-> (10, 103);
Query OK, 15 rows affected (0.04 sec)
Records: 15 Duplicates: 0 Warnings: 0
```



## Transaksi

```
mysql> INSERT INTO transaksi (no_transaksi, no_rekening, id_nasabah, jenis_transaksi, tanggal, jumlah) VALUES
-> (1, 105, 3, 'debit', 2000-11-10, 50000),
-> (2, 103, 2, 'debit', 2000-11-10, 40000),
-> (3, 101, 4, 'kredit', 2000-11-12, 20000),
-> (4, 100, 3, 'debit', 2000-11-12, 50000),
-> (5, 107, 5, 'kredit', 2000-11-13, 30000),
-> (6, 104, 1, 'kredit', 2000-11-15, 300000),
-> (7, 110, 0, 'kredit', 2000-11-15, 350000),
-> (8, 102, 5, 'debit', 2000-11-16, 20000),
-> (9, 105, 3, 'kredit', 2000-11-18, 50000),
-> (10, 107, 4, 'debit', 2000-11-19, 100000),
-> (11, 103, 2, 'debit', 2000-11-19, 100000),
-> (12, 104, 1, 'debit', 2000-11-19, 50000),
-> (13, 107, 4, 'kredit', 2000-11-20, 300000),
-> (14, 105, 3, 'debit', 2000-11-22, 40000),
-> (15, 104, 1, 'kredit', 2000-11-22, 100000),
-> (16, 101, 4, 'kredit', 2000-11-22, 20000),
-> (17, 103, 2, 'debit', 2000-11-22, 50000),
-> (18, 102, 5, 'debit', 2000-11-25, 50000),
-> (19, 100, 10, 'debit', 2000-11-26, 100000),
-> (20, 106, 3, 'kredit', 2000-11-27, 50000),
-> (21, 103, 2, 'kredit', 2000-11-28, 200000),
-> (22, 105, 3, 'kredit', 2000-11-28, 100000),
-> (23, 102, 5, 'debit', 2000-11-30, 20000),
-> (24, 104, 1, 'debit', 2000-12-1, 50000),
-> (25, 103, 2, 'debit', 2000-12-2, 40000),
-> (26, 101, 4, 'debit', 2000-12-4, 50000),
-> (27, 107, 5, 'kredit', 2000-12-5, 100000),
-> (28, 102, 5, 'kredit', 2000-12-5, 100000),
-> (29, 100, 7, 'debit', 2000-12-5, 100000),
-> (30, 110, 9, 'debit', 2000-12-6, 20000);
Query OK, 30 rows affected, 30 warnings (0.14 sec)
Records: 30 Duplicates: 0 Warnings: 30
```



	no_transaksi	id_nasabah	no_rekening	jenis_transaksi	tanggal	jumlah
	1	3	105	debit	2000-11-10	50000
	2	2	103	debit	2000-11-10	40000
	3	4	101	kredit	2000-11-12	20000
	4	3	100	debit	2000-11-12	50000
	5	5	107	kredit	2000-11-13	30000
	6	1	104	kredit	2000-11-15	300000
	7	0	110	kredit	2000-11-15	350000
	8	5	102	debit	2000-11-16	20000
	9	3	105	kredit	2000-11-18	50000
	10	4	107	debit	2000-11-19	100000
	11	2	103	debit	2000-11-19	100000
	12	1	104	debit	2000-11-19	50000
	13	4	107	kredit	2000-11-20	300000
	14	3	105	debit	2000-11-22	40000
	15	1	104	kredit	2000-11-22	100000
	16	4	101	kredit	2000-11-22	20000
	17	2	103	debit	2000-11-22	50000
	18	5	102	debit	2000-11-25	50000
	19	10	100	debit	2000-11-26	100000
	20	3	106	kredit	2000-11-27	50000
	21	2	103	kredit	2000-11-28	200000
	22	3	105	kredit	2000-11-28	100000
	23	5	102	debit	2000-11-30	20000
	24	1	104	debit	2000-12-1	50000
	25	2	103	debit	2000-12-2	40000
	26	4	101	debit	2000-12-4	50000
	27	5	107	kredit	2000-12-5	100000
	28	5	102	kredit	2000-12-5	100000
	29	7	100	debit	2000-12-5	100000
	30	9	110	debit	2000-12-6	20000

- Update Nasabah dengan nama 'Indri Hapsari' pindah alamat ke 'Jalan Slamet Riyadi No.34'.
- Update Cabang dengan kode 'BRUW' pindah ke alamat 'Jalan A.Yani No.23'.

```

MariaDB [Perbankan]>
MariaDB [Perbankan]> UPDATE nasabah
  -> SET alamat_nasabah = 'Jalan Slamet Riyadi No. 34'
  -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [Perbankan]> UPDATE cabang_bank
  -> SET alamat_cabang = 'Jalan A. Yani No. 23'
  -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

- Penghapusan Nasabah dengan id '7' karena menutup rekening.
- Penghapusan Cabang dengan nama\_cabang 'Bank Rut Unit Magelang' karena menutup kantornya.

```

MariaDB [Perbankan]> DELETE FROM nasabah
  -> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.06 sec)

MariaDB [Perbankan]> DELETE FROM nasabah
  -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 0 rows affected (0.00 sec)

MariaDB [Perbankan]> DELETE FROM nasabah
  -> WHERE alamat_nasabah = 'Jalan Slamet Riyadi No. 34';
Query OK, 0 rows affected (0.00 sec)

MariaDB [Perbankan]>

```



- Database Perbankan setelah di update dan delete isinya

+ Opsi

			id_nasabah	nama_nasabah	alamat_nasabah
<input type="checkbox"/>	Ubah Salin Hapus		1	Sutopo	Jl. Jendra Sudirman 12
<input type="checkbox"/>	Ubah Salin Hapus		2	Maryati	Jl. MT. Haryono 31
<input type="checkbox"/>	Ubah Salin Hapus		3	Suparman	Jl. Hasanudin 81
<input type="checkbox"/>	Ubah Salin Hapus		4	Kartika Padmasari	Jl. Manggis 15
<input type="checkbox"/>	Ubah Salin Hapus		5	Budi Eko Prayogo	Jl. Kantil 30
<input type="checkbox"/>	Ubah Salin Hapus		6	Satria Eka Jaya	Jl. Slamet Riyadi 45
<input type="checkbox"/>	Ubah Salin Hapus		8	Sari Murti	Jl. Pangancaran 11
<input type="checkbox"/>	Ubah Salin Hapus		9	Ganka Lokananta	Jl. Tidar 86
<input type="checkbox"/>	Ubah Salin Hapus		10	Budi Murtono	Jl. Merak 22

☐ Check all
 Dengan pilihan:
 Ubah
 Salin
 Hapus
 Ekspor

Tampilkan semua

Jumlah baris:

25

Saring baris:

Cari di label ini

+ Opsi

kode\_cabang

nama\_cabang

alamat\_cabang

Ubah

Salin

Hapus

BRUB

Bank Rut Unit Boyolali

Jl. Ahmad Yani 45

Ubah

Salin

Hapus

BRUK

Bank Rut Unit Klaten

Jl. Suparman 23

Ubah

Salin

Hapus

BRUM

Bank Rut Unit Magelang

Jl. P. Tendean 63

Ubah

Salin

Hapus

BRUS

Bank Rut Unit Surakarta

Jl. Slamet Riyadi 18

Ubah

Salin

Hapus

BRUW

Bank Rut Unit Wonogiri

Jalan A. Yani No. 23

Ubah

Salin

Hapus

BRUY

Bank Rut Unit Yogyakarta

Jl. Anggrek 21

Check all

Dengan pilihan:

Ubah

Salin

Hapus

Ekspor

## TUGAS

Menambahkan 10 record untuk table master dan 20 record untuk table transaksi.

### Tabel Master : Nasabah

```

MariaDB [Perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (11, 'Budi', 'Jl. merak 11'),
-> (12, 'Bambang', 'Jl. Haryono 1'),
-> (13, 'Hanafi', 'Jl. Pantura 91'),
-> (14, 'Sri', 'Jl. Kelapa 15'),
-> (15, 'Danang', 'Jl. Mawar 30'),
-> (16, 'Singgih', 'Jl. Slamet Raharjo 9'),
-> (17, 'Hapsari', 'Jl. Kedondong 5'),
-> (18, 'Murti', 'Jl. Pangandaran 11'),
-> (19, 'sulastri', 'Jl. Eco 86'),
-> (20, 'Budi Anduk', 'Jl. Merak 22');
Query OK, 10 rows affected (0.08 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [Perbankan]>

```

Jelajahi Struktur SQL Cari Tambahkan Ekspor			
+ Ops			
		<b>id_nasabah</b>	<b>nama_nasabah</b>
		<b>alamat_nasabah</b>	
<input type="checkbox"/>	Ubah Salin Hapus	1	Sutopo
<input type="checkbox"/>	Ubah Salin Hapus	2	Maryati
<input type="checkbox"/>	Ubah Salin Hapus	3	Suparman
<input type="checkbox"/>	Ubah Salin Hapus	4	Kartika Padmasari
<input type="checkbox"/>	Ubah Salin Hapus	5	Budi Eko Prayogo
<input type="checkbox"/>	Ubah Salin Hapus	6	Selria Eka Jaya
<input type="checkbox"/>	Ubah Salin Hapus	8	Sari Murti
<input type="checkbox"/>	Ubah Salin Hapus	9	Canka Lokananta
<input type="checkbox"/>	Ubah Salin Hapus	10	Budi Murtono
<input type="checkbox"/>	Ubah Salin Hapus	11	Budi
<input type="checkbox"/>	Ubah Salin Hapus	12	Bambang
<input type="checkbox"/>	Ubah Salin Hapus	13	Hanafi
<input type="checkbox"/>	Ubah Salin Hapus	14	Sri
<input type="checkbox"/>	Ubah Salin Hapus	15	Danang
<input type="checkbox"/>	Ubah Salin Hapus	16	Singgih
<input type="checkbox"/>	Ubah Salin Hapus	17	Hapsari
<input type="checkbox"/>	Ubah Salin Hapus	18	Murti
<input type="checkbox"/>	Ubah Salin Hapus	19	sulastri
<input type="checkbox"/>	Ubah Salin Hapus	20	Budi Anduk
<input type="checkbox"/> Check all         Dengan pilihan: <input type="checkbox"/> Ubah <input type="checkbox"/> Salin <input type="checkbox"/> Hapus <input type="checkbox"/> Ekspor			



## Tabel Transaksi

```

MariaDB [Perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
> (31, 105, 4, 'debit', 2020-01-10, 50000),
> (32, 104, 2, 'debit', 2020-01-10, 40000),
> (33, 101, 4, 'kredit', 2020-01-12, 20000),
> (34, 100, 4, 'debit', 2020-01-15, 50000),
> (35, 102, 5, 'kredit', 2020-01-15, 30000),
> (36, 104, 1, 'kredit', 2020-01-15, 20000),
> (37, 110, 9, 'kredit', 2020-01-15, 150000),
> (38, 102, 5, 'debit', 2020-01-16, 20000),
> (39, 105, 4, 'kredit', 2020-01-18, 50000),
> (40, 102, 4, 'debit', 2020-01-19, 100000),
> (41, 104, 2, 'debit', 2020-01-19, 100000),
> (42, 104, 1, 'debit', 2020-01-19, 50000),
> (43, 102, 4, 'kredit', 2020-01-20, 20000),
> (44, 104, 4, 'debit', 2020-01-21, 40000),
> (45, 100, 1, 'kredit', 2020-01-22, 100000),
> (46, 101, 4, 'kredit', 2020-01-22, 20000),
> (47, 104, 2, 'debit', 2020-01-22, 50000),
> (48, 102, 5, 'debit', 2020-01-23, 50000),
> (49, 108, 10, 'debit', 2020-01-26, 100000),
> (50, 100, 4, 'kredit', 2020-01-27, 50000);
Query OK, 20 rows affected, 20 warnings (0.27 sec)
Records: 20  Duplicates: 0  Warnings: 20

```

MariaDB [Perbankan]>

Server: 127.0.0.1 • Basis data: perbankan • Tabel: transaksi						
<div> Jelajahi Struktur SQL Cari Tambahkan Ekspor Impor Hak Akses Ops </div>						
		no_transaksi	no_rekeningFK	id_nasabahFK	jenis_transaksi	tanggal
<input type="checkbox"/>	Ubah Salin Hapus	20	104	3	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	29	109	7	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	30	110	9	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	31	105	3	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	32	103	2	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	33	101	4	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	34	106	3	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	35	107	5	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	36	104	1	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	37	110	9	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	38	102	5	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	39	105	3	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	40	107	4	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	41	103	2	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	42	104	1	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	43	107	4	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	44	105	3	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	45	104	1	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	46	101	4	kredit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	47	103	2	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	48	102	5	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	49	108	10	debit	0000-00-00
<input type="checkbox"/>	Ubah Salin Hapus	50	106	3	kredit	0000-00-00