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Kelas: C

## PRAKTIKUM SISTEM BASIS DATA

## **MODUL 5**

# **DATA MANIPULATION LANGUAGE (DML)**

## **Tugas**

Masukkan beberapa record ke setiap table dalam database yang telah anda buat padda modul 4. Print out hasil implementasi rancangan tersebut dan analisa hasilnya. (Masing-masing 10 record untuk table master dan 20 record untuk table transaksi)

1. Jalankan XAMPP Control Panel kemudian jalankan server Apache dan MySQL

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XAMPP
```

2. Membuka command prompt dan login sebagai root ke MySQL

3. Memilih database perbankan dengan perintah "use perbankan". Sehingga akan muncul pemberitahuan "database changed"

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]>
```

- 4. Memasukkan data-data ke dalam database perbankan
  - Table nasabah dengan script berikut:

INSERT INTO nasabah(id\_nasabah, nama\_nasabah, alamat\_nasabah) VALUES

- (58, 'Arindita Prihastama', 'Ngawi'),
- (63, 'Anang Prasetyo', 'Solo'),
- (65, 'Wahyu Setyaji Rama Dwijaya', 'Sragen'),
- (74, 'Abdillah Ahmad', 'Klaten'),
- (78, 'Akbar Probo Baskoro', 'Magetan'),
- (79, 'Rahmat Beny Susanto', 'Karanganyar'),
- (80, 'Afiq Tri Nugraha', 'Kudus'),
- (84, 'Sindhiana Aulia Friska', 'Klaten'),
- (88, 'Aprinta Sewelastami', 'Sragen')
- (101,'Rohmad Khoirudin,'Riau');

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

Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES

-> (58, 'Arindita Prihastama', 'Ngawi'),
-> (63, 'Anang Prasetyo', 'Solo'),
-> (64, 'Mahyu Setyaji Rama Dwijaya', 'Sragen'),
-> (74, 'Abdillah Ahmad', 'Klaten'),
-> (78, 'Akbar Probo Baskoro', 'Magetan'),
-> (79, 'Rahmat Beny Susanto', 'Karanganyar'),
-> (80, 'Afig Tri Nugraha', 'Kudus')
-> (84, 'Sindhiana Aulia Priska', 'Klaten'),
-> (84, 'Sindhiana Aulia Priska', 'Klaten'),
-> (84, 'Sindhiana Aulia Friska', 'Sragen');
Query OK, 9 rows affected (0.08 sec)

Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES (101, 'Rohmad Khoirudin', 'Riau');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]>
```

• Tabel cabang\_bank dengan script berikut:

INSERT INTO cabang\_bank(kode\_cabang, nama\_cabang, alamat\_cabang) VALUES ('BRUN', 'Bank Rut Unit Ngawi', 'Ngawi, Jawa Timur'), ('BRUMgt', 'Bank Rut Unit Magetan', 'Magetan, Jawa Timur'), ('BRUSgn', 'Bank Rut Unit Sragen', 'Sragen, Jawa Tengah'),

('BRUKra', 'Bank Rut Unit Karanganyar', 'Karanganyar, Jawa Tengah'),

('BRUKds', 'Bank Rut Unit Kudus', 'Kudus, Jawa Tengah'),

('BRUSmg', 'Bank Rut Unit Semarang', 'Semarang, Jawa Tengah'),

('BRUC', 'Bank Rut Unit Cilacap', 'Cilacap, Jawa Tengah'),

('BRUBdg', 'Bank Rut Unit Bandung', 'Bandung, Jawa Barat'),

('BRUJ', 'Bank Rut Unit Jakarta', 'DKI Jakarta')

('BRUR', 'Bank Rut Unit Riau', 'Riau');

```
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) UALUES

-> ('BRUM', 'Bank Rut Unit Ngawi', 'Ngawi, Jawa Timur'),
-> ('BRUMgt', 'Bank Rut Unit Magetan', 'Magetan, Jawa Timur'),
-> ('BRUNgt', 'Bank Rut Unit Sragen', 'Sragen, Jawa Timur'),
-> ('BRUNgt', 'Bank Rut Unit Karanganyar', 'Karanganyar, Jawa Tengah'),
-> ('BRUKa', 'Bank Rut Unit Kudus', 'Kudus, Jawa Tengah'),
-> ('BRUKa', 'Bank Rut Unit Semarang', 'Semarang, Jawa Tengah'),
-> ('BRUC', 'Bank Rut Unit Gilacap', 'Gilacap, Jawa Tengah'),
-> ('BRUBdy', 'Bank Rut Unit Jakarta', 'DKI Jakarta');
Query OK, 9 rows affected (0.11 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) UALUES ('BRUR', 'Bank Rut Unit Riau', 'Riau');
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]>
```

• Table rekening dengan script berikut:

INSERT INTO rekening(no\_rekening, kode\_cabangFK, pin, saldo) VALUES

- (114, 'BRUN', 5858, 5000000),
- (115, 'BRUS', 6363, 6000000),
- (116, 'BRUSgn', 6565, 7000000),
- (117, 'BRUK', 7474, 8000000),
- (118, 'BRUMgt', 7878, 9000000),
- (119, 'BRUKra', 7979, 10000000),
- (120, 'BRUKds', 8080, 11000000),
- (121, 'BRUK', 8484, 12000000),
- (122, 'BRUSgn', 1010, 13000000)
- (123, 'BRUR', 1011, 14000000);

```
ERROR 1054 (42S22): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo

> VALUES
-> (114, 'BRUN', 5858, 5000000),
-> (115, 'BRUS', 6363, 6000000),
-> (116, 'BRUSgn', 6565, 7000000),
-> (117, 'BRUK', 7474, 8000000),
-> (119, 'BRUK'a', 7979, 10000000),
-> (120, 'BRUKds', 8080, 11000000),
-> (121, 'BRUK', 8484, 12000000),
-> (122, 'BRUK's, 8484, 12000000),
-> (122, 'BRUSgn', 1019, 13000000);
Query OK, 9 rows affected (0.13 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo)
> VALUES (123, 'BRUR', 1011, 14000000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]>
```

• Tabel nasabah\_has\_rekening dengan script sebagai berikut:

INSERT INTO nasabah\_has\_rekening(id\_nasabahFK, no\_rekeningFK) VALUES

- (58, 114),
- (63, 115),
- (65, 116),
- (74, 117),
- (78, 118),
- (79, 119),
- (80, 120),
- (84, 121),
- (88, 122)
- (101, 123);

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> UALUES (101, 123);
Query OK, 1 row affected (0.07 sec)
MariaDB [perbankan]>
```

# • Tabel transaksi dengan script berikut:

INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasabahFK, jenis\_transaksi, tanggal, jumlah) VALUES

- (31, 114, 58, 'kredit', '2019-10-2', 50000),
- (32, 115, 63, 'debit', '2019-10-3', 100000),
- (33, 116, 65, 'kredit', '2019-10-4', 30000),
- (34, 117, 74, 'kredit', '2019-10-5', 200000),
- (35, 118, 78, 'debit', '2019-10-5', 60000),
- (36, 119, 79, 'debit', '2019-10-5', 450000),
- (37, 120, 80, 'debit', '2019-10-6', 100000),
- (38, 121, 84, 'kredit', '2019-10-7', 50000),
- (39, 122, 88, 'kredit', '2019-10-8', 70000),
- (40, 116, 65, 'kredit', '2019-10-8', 30000),
- (41, 119, 79, 'debit', '2019-10-10', 500000),
- (42, 115, 63, 'debit', '2019-10-11', 45000),
- (43, 120, 80, 'debit', '2019-10-12', 200000),
- (44, 117, 74, 'kredit', '2019-10-12', 150000),
- (45, 123, 101, 'debit', '2019-10-13', 500000),
- (46, 118, 78, 'kredit', '2019-10-13', 245000),
- (47, 122, 88, 'kredit', '2019-10-14', 350000),
- (48, 123, 101, 'debit', '2019-10-17', 100000),
- (49, 121, 84, 'kredit', '2019-10-17', 80000),
- (50, 119, 79, 'kredit', '2019-10-20', 400000);

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab ahFK, jenis_transaksi, tanggal, jumlah) UALUES
-> (31, 114, 58, 'kredit', '2019-10-2', 50000),
-> (32, 115, 63, 'debit', '2019-10-3', 10000),
-> (33, 116, 65, 'kredit', '2019-10-4', 30000),
-> (34, 117, 74, 'kredit', '2019-10-5', 200000),
-> (35, 118, 78, 'debit', '2019-10-5', 60000),
-> (36, 119, 79, 'debit', '2019-10-5', 450000),
-> (37, 120, 80, 'debit', '2019-10-6', 100000),
-> (38, 121, 84, 'kredit', '2019-10-6', 100000),
-> (39, 122, 88, 'kredit', '2019-10-8', 70000),
-> (40, 116, 65, 'kredit', '2019-10-8', 30000),
-> (41, 119, 79, 'debit', '2019-10-10', 500000),
-> (42, 115, 63, 'debit', '2019-10-10', 500000),
-> (43, 120, 80, 'debit', '2019-10-11', 45000),
-> (44, 117, 74, 'kredit', '2019-10-12', 150000),
-> (45, 123, 101, 'debit', '2019-10-13', 245000),
-> (47, 122, 88, 'kredit', '2019-10-13', 245000),
-> (48, 123, 101, 'debit', '2019-10-13', 245000),
-> (49, 121, 84, 'kredit', '2019-10-17', 80000),
-> (49, 121, 84, 'kredit', '2019-10-17', 80000),
-> (50, 119, 79, 'kredit', '2019-10-20', 400000);
Records: 20 Duplicates: 0 Warnings: 0
```

- 5. Mengecek data-data yang telah dimasukkan dalam database
  - Tabel nasabah dengan perintah select \* from nasabah

```
MariaDB [perbankan]> select * from nasabah;

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 |
58 | Arindita Prihastama | Karagani |
63 | Anang Prasetyo | Solo |
65 | Wahyu Setyaji Rama Dwijaya | Sragen |
74 | Abdillah Ahmad | Klaten |
78 | Akbar Probo Baskoro | Magetan |
79 | Rahmat Beny Susanto | Karanganyar |
80 | Afig Tri Nugraha | Kudus |
84 | Sindhiana Aulia Friska | Klaten |
88 | Aprinta Sewelastami | Sragen |
101 | Rohmad Khoirudin | Riau |

19 rows in set (0.06 sec)

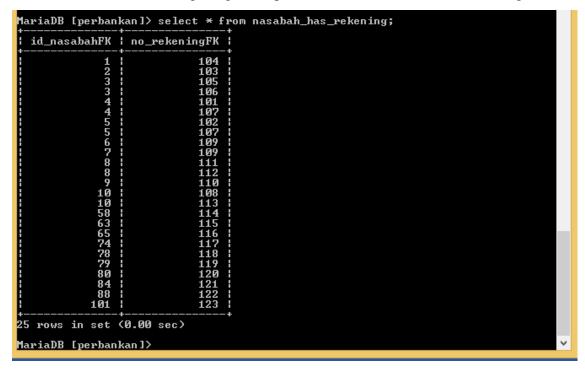
MariaDB [perbankan]>
```

Tabel cabang\_bank dengan perintah select \* from cabang\_bank

• Tabel rekening dengan script select \* from rekening

no_rekening	kode_cabangFK	pin	saldo	į
101	BRUS	1111	500000	П
102 ;	BRUS	2222	1 350000	н
103 1		3333	750000	н
104	BRUM	4444	900000	п
105	BRUM	5555	2000000	н
106	BRUS	6666	3000000	н
107	BRUS	7777	1000000	н
108	BRUB	. 0	5000000	п
109	BRUB	9999	9	п
110	BRUY	1234	550000	н
111	BRUK	4321	150000	н
$\overline{112}$	BRUK	123	300000	н
113	BRUY	8888	255000	н
114	BRUN	5858	5000000	н
115		6363	6000000	H
116	BRUSgn	6565	7000000	ı
117	BRUK	7474	8000000	H
118	BRUMgt	7878	9000000	H
119	BRUKra	7979	10000000	п
120 1	BRUKds	8080	11000000	П
121	BRUK	8484	12000000	H
122		1010	13000000	н
	BRUR	1011	14000000	п

• Tabel nasabah\_has\_rekening dengan script select \* from nasabah\_has\_rekening



• Tabel transaksi dengan script select \* from transaksi

 	31	58	114 ¦ kredit	2019-10-02				
50000 ¦	32	63	115 ¦ debit	2019-10-03   1				
00000 :	33	65	116 ¦ kredit	2019-10-04				
30000	34 ¦	74	117 ¦ kredit	2019-10-05   2				
00000    -	35	78	118 ¦ debit	: 2019-10-05 :				
60000 :	36	79	119 ¦ debit	2019-10-05   4				
50000	37	80 :	120 ¦ debit	1 2019-10-06 1 1				
00000 :	38 1		121 ¦ kredit					
50000 :		84						
70000 l	39	88 !	122   kredit					
: 30000 :	40 ¦	65	116 ¦ kredit					
: 00000 :	41	79	119 ¦ debit	2019-10-10   5				
   45000	42	63	115 ¦ debit	2019-10-11				
10000 :	43	80 ¦	120 ¦ debit	2019-10-12   2				
50000   50000	44	74	117 ¦ kredit	2019-10-12   1				
ł	45 ¦	101	123 ¦ debit	2019-10-13   5				
00000 ¦ ¦	46	78	118 ¦ kredit	2019-10-13   2				
45000    -	47	88 ;	122 ¦ kredit	2019-10-14   3				
50000 ¦	48	101 ¦	123 ¦ debit	2019-10-17   1				
00000    -	49	84 ¦	121 ¦ kredit	2019-10-17				
80000 :		79		2019-10-20   4				
90000 :								
+ F0								
50 rows in set (0.00 sec)								
MariaDB [perbankan]>								