

**DATABASE SYSTEM
PRACTICUM REPORT
MODULE 5
DML**



**CREATED BY :
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**INFORMATICS STUDY
PROGRAM**

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5. Table Transaksi:

```
MariaDB [perbankan]> SELECT*FROM transaksi;
```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	3	105	debit	2009-11-10 00:00:00	50000
2	3	103	debit	2009-11-10 00:00:00	40000
3	4	101	kredit	2009-11-12 00:00:00	20000
4	3	106	debit	2009-11-13 00:00:00	50000
5	5	107	kredit	2009-11-13 00:00:00	30000
6	1	104	kredit	2009-11-15 00:00:00	200000
7	9	110	kredit	2009-11-15 00:00:00	150000
8	5	102	debit	2009-11-16 00:00:00	20000
9	105	3	kredit	2009-11-18 00:00:00	50000
10	107	4	debit	2009-11-19 00:00:00	100000
11	103	2	debit	2009-11-19 00:00:00	100000
12	104	1	debit	2009-11-19 00:00:00	50000
13	107	4	debit	2009-11-19 00:00:00	200000
14	105	3	debit	2009-11-19 00:00:00	40000
15	104	1	kredit	2009-11-22 00:00:00	100000
16	101	4	kredit	2009-11-22 00:00:00	20000
17	103	2	debit	2009-11-22 00:00:00	50000
18	102	5	debit	2009-11-25 00:00:00	50000
19	108	10	debit	2009-11-26 00:00:00	100000
20	106	3	kredit	2009-11-27 00:00:00	50000
21	103	2	kredit	2009-11-28 00:00:00	200000
22	105	3	kredit	2009-11-28 00:00:00	100000
23	102	5	debit	2009-11-30 00:00:00	20000
24	104	1	debit	2009-12-01 00:00:00	50000
25	103	2	debit	2009-12-02 00:00:00	40000
26	101	4	debit	2009-12-04 00:00:00	50000
27	103	2	kredit	2009-12-05 00:00:00	100000
28	102	5	kredit	2009-12-05 00:00:00	200000
29	109	7	debit	2009-12-05 00:00:00	100000
30	110	9	debit	2009-12-06 00:00:00	20000

```
30 rows in set (0.001 sec)

MariaDB [perbankan]> _
```

6. Update :

```
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi NO.34'
-> WHERE name_nasabah = 'Indri Hapsari'
-> ;
ERROR 1054 (42S22): Unknown column 'name_nasabah' in 'where clause'
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi NO.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.012 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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

id_nasabah	nama_nasabah	alamat_nasabah
2	Maryati	Jl. MT Haryono 31
3	Suparman	Jl. Hasanudin 31
4	Kartika Padmasari	Jl. MAnggis 15
5	Budi Eko prayogo	Jl. Kantil 31
6	Satria Eka jaya	Jl. Slamet Riyadi 45
7	Indri Hapsari	Jalan Slamet Riyadi NO.34
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

```
8 rows in set (0.001 sec)

MariaDB [perbankan]> _
```

A.

Query OK, 1 row affected (0.012 sec)
 Rows matched: 1 Changed: 1 Warnings: 0

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. Superman 23
BRUM	Bank Rut Unit Magelang	Jl. P. Tendean 63
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

6 rows in set (0.001 sec)

B.

7. Delete:

MariaDB [perbankan]> DELETE FROM nasabah
 -> WHERE id_nasabah = 7;
 Query OK, 1 row affected (0.016 sec)

MariaDB [perbankan]> select*from nasabah;

id_nasabah	nama_nasabah	alamat_nasabah
2	Maryati	Jl. MT Haryono 31
3	Suparman	Jl. Hasanudin 31
4	Kartika Padmasari	Jl. MAnggis 15
5	Budi Eko prayogo	Jl. Kantil 31
6	Satria Eka jaya	Jl. Slamet Riyadi 45
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

7 rows in set (0.001 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank
 -> WHERE nama_cabang = 'Bank Rut Unit Megelang'
 -> ;
 Query OK, 0 rows affected (0.017 sec)

A.

MariaDB [perbankan]> DELETE FROM cabang_bank
 -> WHERE nama_cabang = 'Bank Rut Unit Magelang'
 -> ;
 Query OK, 1 row affected (0.013 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. Superman 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 (0.001 sec)

B.

C.

TASK!

Enter several records into each table in the database that you created in module 4. Print out the results of implementing the design and analyze the results. (Each 10 records for the master table and 20 records for the transaction table).

Nasabah:

```

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (11, 'Wahyu Aji', 'Jl. Gajah Mada 1'),
-> (12, 'Tesar Hardi', 'Jl. Raya Cepu'),
-> (13, 'Gilang Adi', 'Jl. Glatik 12'),
-> (14, 'Fitriana', 'Jl. Kyai Mojo 16'),
-> (15, 'Presinta Dewi', 'Jl. Manyar 2'),
-> (16, 'Chalia Anggun', 'Jl. Sunan Kalijogo'),
-> (17, 'Chandra Dwiky', 'Jl.Hati 45'),
-> (18, 'Exsya Angelica', 'Jl. Trunojoyo 63'),
-> (19, 'Sekar Esthi', 'Jl. Siliwangi 56'),
-> (20, 'Al Fajar', 'Jl. Panjaitan 33');
Query OK, 10 rows affected (0.009 sec)
Records: 10 Duplicates: 0 Warnings: 0

```

```

MariaDB [perbankan]> select*from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 2 | Maryati | Jl. MT Haryono 31 |
| 3 | Suparman | Jl. Hasanudin 31 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko prayogo | Jl. Kantil 31 |
| 6 | Satria Eka jaya | Jl. Slamet Riyadi 45 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | Wahyu Aji | Jl. Gajah Mada 1 |
| 12 | Tesar Hardi | Jl. Raya Cepu |
| 13 | Gilang Adi | Jl. Glatik 12 |
| 14 | Fitriana | Jl. Kyai Mojo 16 |
| 15 | Presinta Dewi | Jl. Manyar 2 |
| 16 | Chalia Anggun | Jl. Sunan Kalijogo |
| 17 | Chandra Dwiky | Jl.Hati 45 |
| 18 | Exsya Angelica | Jl. Trunojoyo 63 |
| 19 | Sekar Esthi | Jl. Siliwangi 56 |
| 20 | Al Fajar | Jl. Panjaitan 33 |
+-----+-----+-----+
17 rows in set (0.001 sec)

```

Cabang Bank:

```

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> ('BRUL','Bank Rut Unit Lamongan', 'Jl Manggis'),
-> ('BRUJ','Bank Rut Unit Jambi', 'Jl Mangga'),
-> ('BRUA','Bank Rut Unit Aceh', 'Jl Belimbing'),
-> ('BRUP','Bank Rut Unit Palembang', 'Jl Jeruk'),
-> ('BRUC','Bank Rut Unit Cepu', 'Jl Apel'),
-> ('BRUN','Bank Rut Unit Nganjuk', 'Jl Semangka'),
-> ('BRUU','Bank Rut Unit Ungaran', 'Jl Kelapa'),
-> ('BRUT','Bank Rut Unit Tegal', 'Jl Ceri'),
-> ('BRUG','Bank Rut Unit Grobogan', 'Jl Strowberi'),
-> ('BRUKR','Bank Rut Unit Kepulauan Riau', 'Jl Salak');
Query OK, 10 rows affected (0.010 sec)
Records: 10 Duplicates: 0 Warnings: 0

```

```

MariaDB [perbankan]> select*from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUA | Bank Rut Unit Aceh | Jl Belimbing |
| BRUC | Bank Rut Unit Cepu | Jl Apel |
| BRUG | Bank Rut Unit Grobogan | Jl Strowberi |
| BRUJ | Bank Rut Unit Jambi | Jl Mangga |
| BRUK | Bank Rut Unit Klaten | Jl Superman 23 |
| BRUKR | Bank Rut Unit Kepulauan Riau | Jl Salak |
| BRUL | Bank Rut Unit Lamongan | Jl Manggis |
| BRUM | Bank Rut Unit Magelang | Jl P.Tandean 63 |
| BRUN | Bank Rut Unit Nganjuk | Jl Semangka |
| BRUP | Bank Rut Unit Palembang | Jl Jeruk |
| BRUT | Bank Rut Unit Tegal | Jl Ceri |
| BRUU | Bank Rut Unit Ungaran | Jl Kelapa |
| BRUW | Bank Rut Unit Wonogiri | Jl Untung Suropati |
| BURB | Bank Rut Unit Boyolali | Jl. Ahmad Yani |
| BURS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi |
| BURY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
16 rows in set (0.001 sec)

```

```

MariaDB [perbankan]>

```


Rekening :

```
MariaDB [perbankan]> INSERT INTO rekening (no_rekening, kode_cabangFK, pin, saldo) VALUES
-> (114,'BRUK', 2389, 465899),
->
-> (115,'BRUA', 7283, 678899),
-> (116,'BRUC', 8923, 678634),
-> (117,'BRUN', 2718, 672354),
-> (118,'BRUJ', 1323, 637458),
-> (119,'BRUJ', 1920, 728483),
-> (120,'BRUT', 1977, 727388),
-> (121,'BRUK', 1127, 772839),
-> (122,'BRUU', 1237, 737283),
-> (123,'BRUU', 1893, 273893);
Query OK, 10 rows affected (0.012 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

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

no_rekening	kode_cabangFK	pin	saldo
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	5500000
111	BRUK	4321	150000
112	BRUK	0123	300000
113	BRUY	8888	255000
114	BRUK	2389	465899
115	BRUA	7283	678899
116	BRUC	8923	678634
117	BRUN	2718	672354
118	BRUJ	1323	637458
119	BRUJ	1920	728483
120	BRUT	1977	727388
121	BRUK	1127	772839
122	BRUU	1237	737283
123	BRUU	1893	273893

Nasabah_has_rekening:

```

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK, no_rekeningFK) VALUES
-> (11,123),
-> (11,124),
-> (12,125),
-> (12,126),
-> (13,127),
-> (13,128),
-> (14,129),
-> (14,130),
-> (15,131),
-> (15,132);
Query OK, 10 rows affected (0.011 sec)
Records: 10 Duplicates: 0 Warnings: 0

```

```

MariaDB [perbankan]> select*from nasabah_has_rekening;

```

id_nasabahFK	no_rekeningFK
1	104
2	103
3	106
4	101
4	102
4	107
5	102
5	107
6	105
6	109
7	109
8	111
8	112
9	110
10	108
10	113
11	123
11	124
12	125
12	126
13	127
13	128
14	129
14	130

Transaksi :

```

MariaDB [perbankan]> INSERT INTO transaksi VALUES
-> (31, 107, 5, 'DEBIT', '2009-12-5', 50000),
-> (32, 106, 3, 'KREDIT', '2009-12-7', 30000),
-> (33, 101, 4, 'KREDIT', '2009-12-13', 60000),
-> (34, 103, 2, 'DEBIT', '2009-12-14', 20000),
-> (35, 105, 3, 'KREDIT', '2009-12-16', 100000),
-> (36, 107, 4, 'DEBIT', '2009-12-17', 50000),
-> (37, 105, 3, 'DEBIT', '2009-12-18', 120000),
-> (38, 104, 1, 'DEBIT', '2009-12-19', 150000),
-> (39, 101, 4, 'KREDIT', '2009-12-20', 400000),
-> (40, 103, 2, 'DEBIT', '2009-12-20', 200000),
-> (41, 102, 5, 'KREDIT', '2009-12-20', 60000),
-> (42, 107, 5, 'DEBIT', '2009-12-20', 200000),
-> (43, 104, 1, 'DEBIT', '2009-12-20', 30000),
-> (44, 111, 3, 'DEBIT', '2009-12-21', 400000),
-> (45, 108, 2, 'DEBIT', '2009-12-22', 60000),
-> (46, 107, 9, 'KREDIT', '2009-12-22', 80000),
-> (47, 109, 7, 'KREDIT', '2009-12-23', 30000),
-> (48, 101, 10, 'KREDIT', '2009-12-23', 200000),
-> (49, 102, 4, 'KREDIT', '2009-12-24', 50000),
-> (50, 104, 6, 'DEBIT', '2009-12-26', 100000);
Query OK, 20 rows affected (0.010 sec)
Records: 20 Duplicates: 0 Warnings: 0

```

cmd XAMPP for Windows - mysql -u root -p

1	3	105	debit	2009-11-10 00:00:00	50000
2	3	103	debit	2009-11-10 00:00:00	40000
3	4	101	kredit	2009-11-12 00:00:00	20000
4	3	106	debit	2009-11-13 00:00:00	50000
5	5	107	kredit	2009-11-13 00:00:00	30000
6	1	104	kredit	2009-11-15 00:00:00	200000
7	9	110	kredit	2009-11-15 00:00:00	150000
8	5	102	debit	2009-11-16 00:00:00	20000
9	105	3	kredit	2009-11-18 00:00:00	50000
10	107	4	debit	2009-11-19 00:00:00	100000
11	103	2	debit	2009-11-19 00:00:00	100000
12	104	1	debit	2009-11-19 00:00:00	50000
13	107	4	debit	2009-11-19 00:00:00	200000
14	105	3	debit	2009-11-19 00:00:00	40000
15	104	1	kredit	2009-11-22 00:00:00	100000
16	101	4	kredit	2009-11-22 00:00:00	20000
17	103	2	debit	2009-11-22 00:00:00	50000
18	102	5	debit	2009-11-25 00:00:00	50000
19	108	10	debit	2009-11-26 00:00:00	100000
20	106	3	kredit	2009-11-27 00:00:00	50000
21	103	2	kredit	2009-11-28 00:00:00	200000
22	105	3	kredit	2009-11-28 00:00:00	100000
23	102	5	debit	2009-11-30 00:00:00	20000
24	104	1	debit	2009-12-01 00:00:00	50000
25	103	2	debit	2009-12-02 00:00:00	40000
26	101	4	debit	2009-12-04 00:00:00	50000
27	103	2	kredit	2009-12-05 00:00:00	100000
28	102	5	kredit	2009-12-05 00:00:00	200000
29	109	7	debit	2009-12-05 00:00:00	100000
30	110	9	debit	2009-12-06 00:00:00	20000
31	107	5	DEBIT	2009-12-05 00:00:00	50000
32	106	3	KREDIT	2009-12-07 00:00:00	30000
33	101	4	KREDIT	2009-12-13 00:00:00	60000
34	103	2	DEBIT	2009-12-14 00:00:00	20000
35	105	3	KREDIT	2009-12-16 00:00:00	100000
36	107	4	DEBIT	2009-12-17 00:00:00	50000
37	105	3	DEBIT	2009-12-18 00:00:00	120000
38	104	1	DEBIT	2009-12-19 00:00:00	150000
39	101	4	KREDIT	2009-12-20 00:00:00	400000
40	103	2	DEBIT	2009-12-20 00:00:00	200000
41	102	5	KREDIT	2009-12-20 00:00:00	60000
42	107	5	DEBIT	2009-12-20 00:00:00	200000
43	104	1	DEBIT	2009-12-20 00:00:00	30000
44	111	3	DEBIT	2009-12-21 00:00:00	400000
45	108	2	DEBIT	2009-12-22 00:00:00	60000
46	107	9	KREDIT	2009-12-22 00:00:00	80000
47	109	7	KREDIT	2009-12-23 00:00:00	30000
48	101	10	KREDIT	2009-12-23 00:00:00	200000
49	102	4	KREDIT	2009-12-24 00:00:00	50000
50	104	6	DEBIT	2009-12-26 00:00:00	100000