

Nama : Ismi Dzikrina

NIM : L200180010

Kelas : A

Matkul :Praktikum Basis Data

LATIHAN MODUL 5

DATA MANIPULATION LANGUAGE(DML)

Data base perbankan

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.15063]
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C:\Users\lenovo>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 8
Server version: 10.4.11-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 perbankanIsmi;
Database changed
```

Tabel nasabah

```
MariaDB [perbankanIsmi]> INSERT INTO nasabah VALUES(1,"sutopo","Jl.Jenderal sudirman 12"),
-> (2,"maryati","Jl.MT.haryono 31"),
-> (3,"suparman","Jl. hasanuddin 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 96"),
-> (10,"budi murtono","Jl.Merak 22");
Query OK, 10 rows affected (1.585 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

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

id_nasabah	nama_nasabah	alamat_nasabah
1	sutopo	Jl.Jenderal sudirman 12
2	maryati	Jl.MT.haryono 31
3	suparman	Jl. hasanuddin 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 96
10	budi murtono	Jl.Merak 22

```
10 rows in set (0.046 sec)
```

Tabel cabang_bank

```
MariaDB [perbankanIsmi]> INSERT INTO cabang_bank 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 (0.222 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankanIsmi]> 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
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

```
6 rows in set (0.001 sec)
```

Table rekening

```
MariaDB [perbankanIsmi]> INSERT INTO rekening 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",88888,255000);
Query OK, 13 rows affected (0.131 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankanIsmi]> 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 | 8888 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 88888 | 255000 |
+-----+-----+-----+-----+
13 rows in set (0.001 sec)
```

Tabel nasabah_has_rekening

```
MariaDB [perbankanIsmi]> INSERT INTO nasabah_has_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 (0.187 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankanIsmi]> select *from nasabah_has_rekening;
```

id_nasabahFK	no_rekeningFK
1	104
2	103
3	105
3	106
4	101
4	107
5	102
5	107
6	109
7	109
8	111
8	112
9	110
10	108
10	113

```
15 rows in set (0.001 sec)
```

Tabel transaksi

```
MariaDB [perbankanIsmi]> INSERT INTO transaksi 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",2009-11-13,500000),
-> (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",2009-11-30,20000),
-> (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",2009-12-6,20000);
```

```
Query OK, 30 rows affected, 30 warnings (0.221 sec)
```

```
Records: 30 Duplicates: 0 Warnings: 30
```

```
MariaDB [perbankanIsmi]> select *from transaksi;
```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	105	3	debit	0000-00-00 00:00:00	50000
2	103	2	debit	0000-00-00 00:00:00	40000
3	101	4	kredit	0000-00-00 00:00:00	20000
4	106	3	debit	0000-00-00 00:00:00	500000
5	107	5	kredit	0000-00-00 00:00:00	30000
6	104	1	kredit	0000-00-00 00:00:00	200000
7	110	9	kredit	0000-00-00 00:00:00	150000
8	102	5	debit	0000-00-00 00:00:00	20000
9	105	3	kredit	0000-00-00 00:00:00	50000
10	107	4	debit	0000-00-00 00:00:00	100000
11	103	2	debit	0000-00-00 00:00:00	100000
12	104	1	debit	0000-00-00 00:00:00	50000
13	107	4	kredit	0000-00-00 00:00:00	200000
14	105	3	debit	0000-00-00 00:00:00	40000
15	104	1	kredit	0000-00-00 00:00:00	100000
16	101	4	kredit	0000-00-00 00:00:00	20000
17	103	2	debit	0000-00-00 00:00:00	50000
18	102	5	debit	0000-00-00 00:00:00	50000
19	108	10	debit	0000-00-00 00:00:00	100000
20	106	3	kredit	0000-00-00 00:00:00	50000
21	103	2	kredit	0000-00-00 00:00:00	200000
22	105	3	kredit	0000-00-00 00:00:00	100000
23	102	5	debit	0000-00-00 00:00:00	20000
24	104	1	debit	0000-00-00 00:00:00	50000
25	103	2	debit	0000-00-00 00:00:00	40000
26	101	4	debit	0000-00-00 00:00:00	50000
27	103	2	kredit	0000-00-00 00:00:00	100000
28	102	5	kredit	0000-00-00 00:00:00	200000
29	109	7	debit	0000-00-00 00:00:00	100000
30	110	9	debit	0000-00-00 00:00:00	20000

```
30 rows in set (0.001 sec)
```

Update

a.

```
MariaDB [perbankanIsmi]> update nasabah set alamat_nasabah = "jalan slamet riyadi" where nama_nasabah="indri hapsari";
Query OK, 1 row affected (0.131 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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

id_nasabah	nama_nasabah	alamat_nasabah
1	sutopo	Jl.Jenderal sudirman 12
2	maryati	Jl.MT.haryono 31
3	suparman	Jl. hasanuddin 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	jalan slamet riyadi
8	sari murti	Jl.pangandaran 11
9	canka lokananta	Jl.Tidar 96
10	budi murtono	Jl.Merak 22

```
10 rows in set (0.001 sec)
```

b.

```
MariaDB [perbankanIsmi]> update cabang_bank set alamat_cabang="jalan A. yani no.23" where kode_cabang="BRUW";
Query OK, 1 row affected (0.090 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankanIsmi]> 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        |
| 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)
```

Delete

a.

```
MariaDB [perbankanIsmi]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.084 sec)

MariaDB [perbankanIsmi]> select *from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah          | alamat_nasabah          |
+-----+-----+-----+
| 1          | sutopo                | Jl.Jenderal sudirman 12 |
| 2          | maryati               | Jl.MT.haryono 31        |
| 3          | suparman              | Jl. hasanuddin 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 96             |
| 10         | budi murtono          | Jl.Merak 22            |
+-----+-----+-----+
9 rows in set (0.001 sec)
```

b.

```
MariaDB [perbankanIsmi]> delete from cabang_bank where nama_cabang="Bank Rut Unit Magelang;
"> ;
"> "
-> ;
Query OK, 0 rows affected (0.001 sec)

MariaDB [perbankanIsmi]> 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        |
| 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 (0.000 sec)
```