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MODUL 5

LATIHAN

Database perbankan

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17763.195]
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C:\Users\Vian>cd\

C:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>maysql -u root -p
'maysql' is not recognized as an internal or external command,
operable program or batch file.

C:\xampp\mysql\bin>
C:\xampp\mysql\bin>use perbankanvirlianaar;
'use' is not recognized as an internal or external command,
operable program or batch file.

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 19
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 perbankanvirlianaar
ERROR 1049 (42000): Unknown database 'perbankanvirlianaar'
MariaDB [(none)]> use perbankanvirlianaar;
ERROR 1049 (42000): Unknown database 'perbankanvirlianaar'
MariaDB [(none)]> use perbankanvirlianaar;
Database changed
```

Tabel nasabah

```
MariaDB [perbankanvirlianaar]> INSERT INTO nasabah VALUES
-> (1, "sutopo", "Jl. jendral sudirman 12"),
-> (2, "maryati", "Jl. mt. haryono 31"),
-> (3, "suparman", "Jl. manggis 15"),
-> (4, "kartika padmasari", "Jl. kantil 30"),
-> (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. pangadaran 11"),
-> (9, "canka lokananta", "Jl. tidar 96"),
-> (10, "budi martono", "Jl. merak 22");
Query OK, 10 rows affected (0.132 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankanvirlianaar]> select *from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | sutopo | Jl. jendral sudirman 12 |
| 2 | maryati | Jl. mt. haryono 31 |
| 3 | suparman | Jl. manggis 15 |
| 4 | kartika padmasari | Jl. kantil 30 |
| 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. pangadaran 11 |
| 9 | canka lokananta | Jl. tidar 96 |
| 10 | budi martono | Jl. merak 22 |
+-----+-----+-----+
10 rows in set (0.001 sec)
```

Tabel cabang bank

```

MariaDB [perbankanvirlianaar]> 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 (0.174 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankanvirlianaar]> 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 (0.002 sec)

```

Tabel rekening

```

MariaDB [perbankanvirlianaar]> 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 (0.068 sec)
Records: 13 Duplicates: 0 Warnings: 0

MariaDB [perbankanvirlianaar]> 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 | 0123 | 300000 |
| 113 | bruy | 88888 | 255000 |
+-----+-----+-----+-----+
13 rows in set (0.001 sec)

```

Tabel nasabah has rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankanvirlianaar]> INSERT INTO nasabah_has_rekening VALUES
-> (1,104),
-> (2,103),
-> (3,105),
-> (4,106),
-> (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 (0.118 sec)
Records: 15 Duplicates: 0 Warnings: 0

MariaDB [perbankanvirlianaar]> select *from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 3 | 105 |
| 4 | 101 |
| 4 | 106 |
| 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 [perbankanvirilianaar]> 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",2009-11-15,20000),
-> (7,104,1,"kredit",2009-11-15,20000),
-> (8,104,8,"kredit",2009-11-15,20000),
-> (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",2009-11-19,20000),(13,107,4,"kredit",2009-11-20,20000),
-> (14,105,3,"debit",2009-11-21,40000),
-> (15,104,1,"kredit",2009-11-22,1000000),
-> (16,101,4,"kredit",2009-11-22,200000),
-> (17,103,2,"debit",2009-11-22,500000),
-> (18,102,5,"debit",2009-11-25,500000),
-> (19,108,10,"debit",2009-11-26,1000000),
-> (20,106,3,"kredit",2009-11-27,500000),
-> (21,106,3,"kredit",2009-11-27,500000),
-> (22,105,3,"kredit",2009-11-28,1000000),
-> (23,102,5,"debit",2009-11-30,200000),
-> (24,104,1,"debit",2009-12-1,500000),
-> (25,103,2,"debit",2009-12-2,40000),
-> (26,101,4,"debit",2009-12-4,50000),
-> (27,103,2,"kredit",2009-12-5,1000000),
-> (28,102,5,"kredit",2009-12-5,200000),
-> (29,109,7,"debit",2009-12-6,1000000),
-> (31,110,9,"debit",2009-12-6,20000);
Query OK, 30 rows affected, 30 warnings (0.052 sec)
Records: 30 Duplicates: 0 Warnings: 30

MariaDB [perbankanvirilianaar]> select *from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1 | 105 | 3 | debit | 2009-11-10 00:00:00 | 50000 |
| 2 | 103 | 2 | debit | 2009-11-10 00:00:00 | 40000 |
| 3 | 101 | 4 | kredit | 2009-11-12 00:00:00 | 20000 |
| 4 | 106 | 3 | debit | 2009-11-13 00:00:00 | 500000 |
| 5 | 107 | 5 | kredit | 2009-11-13 00:00:00 | 30000 |
| 6 | 104 | 1 | kredit | 2009-11-15 00:00:00 | 20000 |
| 7 | 104 | 1 | kredit | 2009-11-15 00:00:00 | 20000 |
| 8 | 104 | 8 | kredit | 2009-11-15 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 | 20000 |
| 13 | 107 | 4 | kredit | 2009-11-20 00:00:00 | 20000 |
| 14 | 105 | 3 | debit | 2009-11-21 00:00:00 | 40000 |
| 15 | 104 | 1 | kredit | 2009-11-22 00:00:00 | 1000000 |
| 16 | 101 | 4 | kredit | 2009-11-22 00:00:00 | 200000 |
| 17 | 103 | 2 | debit | 2009-11-22 00:00:00 | 500000 |
| 18 | 102 | 5 | debit | 2009-11-25 00:00:00 | 500000 |
| 19 | 108 | 10 | debit | 2009-11-26 00:00:00 | 1000000 |
| 20 | 106 | 3 | kredit | 2009-11-27 00:00:00 | 500000 |
| 21 | 106 | 3 | kredit | 2009-11-27 00:00:00 | 500000 |
| 22 | 105 | 3 | kredit | 2009-11-28 00:00:00 | 1000000 |
| 23 | 102 | 5 | debit | 2009-11-30 00:00:00 | 200000 |
| 24 | 104 | 1 | debit | 2009-12-01 00:00:00 | 500000 |
| 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 | 1000000 |
| 28 | 102 | 5 | kredit | 2009-12-05 00:00:00 | 200000 |
| 29 | 109 | 7 | debit | 2009-12-06 00:00:00 | 1000000 |
| 30 | 110 | 9 | debit | 2009-12-06 00:00:00 | 20000 |
| 31 | 110 | 9 | debit | 2009-12-06 00:00:00 | 20000 |
+-----+-----+-----+-----+-----+-----+
31 rows in set (0.001 sec)

```

Update A dan B

```

C:\Command Prompt - mysql -u root -p
MariaDB [perbankanvirilianaar]> update nasabah set alamat_nasabah = "jalan slamet riyadi" where nama_nasabah="Indri hapsari";
Query OK, 1 row affected (0.149 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankanvirilianaar]> select *from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | sutopo | Jl. jendral sudirman 12 |
| 2 | maryati | Jl. mt. haryono 31 |
| 3 | suparman | Jl. manggis 15 |
| 4 | kartika padnasari | Jl. kantil 30 |
| 5 | budi eko prajogo | Jl. kantil 30 |
| 6 | satria eka jaya | Jl. slamet riyadi 45 |
| 7 | indri hapsari | jalan slamet riyadi |
| 8 | sari murti | Jl. pangadaran 11 |
| 9 | canka lokananta | Jl. tidar 96 |
| 10 | budi martono | Jl. merak 22 |
+-----+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perbankanvirilianaar]> update nasabah set alamat_cabang = "jalan a. ahmad yani no. 23" where kode_cabang ="bruw";
ERROR 1054 (42S22): Unknown column 'kode_cabang' in 'where clause'
MariaDB [perbankanvirilianaar]> update nasabah set alamat_cabang = "jalan a. ahmad yani no. 23" where kode_cabangFK ="bruw";
ERROR 1054 (42S22): Unknown column 'kode_cabangFK' in 'where clause'
MariaDB [perbankanvirilianaar]> update cabang_bank set alamat_cabang = "jalan a. ahmad yani no. 23" where kode_cabang ="bruw";
Query OK, 1 row affected (0.052 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankanvirilianaar]> select *from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| brub | bank rut unit boyolali | jl. ahmad yani 45 |
| bruk | bank rut unit kliten | 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. ahmad yani no. 23 |
| bruy | bank rut unit yogyakarta | jl. anggrek 21 |
+-----+-----+-----+
6 rows in set (0.001 sec)

```

Delete A dan B

```

C:\Command Prompt - mysql -u root -p
MariaDB [perbankanvirlianaar]> delete from nasabah where id_nasabah = 7;
Query OK, 1 row affected (0.073 sec)

MariaDB [perbankanvirlianaar]> select *from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | sutopo | Jl. jendral sudirman 12 |
| 2 | maryati | Jl. mt. haryono 31 |
| 3 | suparman | Jl. manggis 15 |
| 4 | kartika padmasari | Jl. kantil 98 |
| 5 | budi eko prayogo | Jl.kantil 98 |
| 6 | satria eka jaya | Jl. slamet riyadi 45 |
| 8 | sari murti | Jl. pangaderan 11 |
| 9 | canka lokananta | Jl. tidar 96 |
| 10 | budi martono | Jl. merak 22 |
+-----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [perbankanvirlianaar]> delete from cabang_bank where nama_cabang ="bank rut unit magelang";
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankanvirlianaar]> 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. ahmad yani no. 23 |
| bruy | bank rut unit yogyakarta | jl. anggrek 21 |
+-----+-----+-----+
5 rows in set (0.000 sec)

```