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## MODUL 5

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\acer>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 118
Server version: 10.4.6-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 perbankan
Database changed
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> values(1, 'sutopo', 'Jl. Jendral Sudirman12')
-> (2, 'Maryati', 'Jl. MT. Haryono 31')
-> (3, 'Suparman', 'Jl. Hasanudin 41')
-> (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. Pangaandaran 11')
-> (9, 'Canka Lokananta', 'Jl. Tidal 86')
-> (10, 'Budi Murtono', 'Jl. Merak 22');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''sutopo', '
Jl. Jendral Sudirman12')
(2, 'Maryati', 'Jl. MT. Haryono 31')
(3, 'Su' at line 2
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> values(1, 'sutopo', 'Jl. Jendral Sudirman12')
-> (2, 'Maryati', 'Jl. MT. Haryono 31')
-> (3, 'Suparman', 'Jl. Hasanudin 41')
-> (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. Pangaandaran 11')
-> (9, 'Canka Lokananta', 'Jl. Tidal 86')
-> (10, 'Budi Murtono', 'Jl. Merak 22');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(2, 'Maryat
i', 'Jl. MT. Haryono 31')
(3, 'Suparman', 'Jl. Hasanudin 41')
```

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Command Prompt - mysql -u root -p
(3, 'Suparman', 'Jl. Hasanudin 41')
(4, 'Ka' at line 3
MariaDB [perbankan]>
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(1, 'sutopo', 'Jl. Jendral Sudirman 12')
-> ;
Query OK, 1 row affected (0.090 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(2, 'Maryati', 'Jl. MT. Haryono 31'),
-> (3, 'Suparman', 'Jl. Hasanudin 41'),
-> (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. Pangaandaran 11'),
-> (9, 'Canka Lokananta', 'Jl. Tidal 86'),
-> (10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 9 rows affected (0.084 sec)
Records: 9 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) 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'),
-> ('BRUN', 'Bank Rut Unit Wonogiri', 'Jl. Untung Senopati 12');
-> ('BRUM', 'Bank Rut Unit Wonogiri', 'Jl. Untung Senopati 12');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '({'BRUW', 'B
ank Rut Unit Wonogiri', 'Jl. Untung Senopati 12'})' at line 7
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) 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'),
-> ('BRUN', 'Bank Rut Unit Wonogiri', 'Jl. Untung Senopati 12');
Query OK, 6 rows affected (0.158 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahfk, no_rekeningfk) values(1,104),
-> (2,103),
-> (3,102),(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 (0.057 sec)
Records: 15 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> insert into rekening(no_rekening, Kode_cabangFK, pin, saldo) values(101,'BRUS','1111',50000)
-> (102,'BRUS','2222',350000),
```

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Command Prompt - mysql -u root -p
-> (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 (0.057 sec)
Records: 15 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> insert into rekening(no_rekening, Kode_cabangFK, pin, saldo) values(101,'BRUS','1111',50000)
-> (102,'BRUS','2222',350000),
-> (103,'BRUS','3333',750000),
-> (104,'BRUM','4444',900000),
-> (105,'BRUM','5555',2000000),
-> (106,'BRUS','6666',2000000),
-> (107,'BRUS','7777',1000000),
-> (108,'BRUB','0000',0),
-> (110,'BRUY','1234',550000),
-> (111,'BRUK','4321',150000),
-> (112,'BRUK','0123',300000),
-> (113,'BRUY','8888',255000);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(102,'BRUS',
'2222',350000),
(103,'BRUS','3333',750000),
(104,'BRUM','4444',900000) at line 2
MariaDB [perbankan]> insert into rekening(no_rekening, Kode_cabangFK, pin, saldo) values(101,'BRUS','1111',50000);
Query OK, 1 row affected (0.135 sec)

MariaDB [perbankan]> insert into rekening(no_rekening, Kode_cabangFK, pin, saldo) values(102,'BRUS','2222',350000),
-> (103,'BRUS','3333',750000),
-> (104,'BRUM','4444',900000),
-> (105,'BRUM','5555',2000000);
-> (105,'BRUM','5555',2000000);
-> insert into rekening(no_rekening, Kode_cabangFK, pin, saldo) values(101,'BRUS','1111',50000);
-> (104,'BRUM','4444',900000),
->
->
-> _
```

```
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabang, pin, saldo) values(107,'BRUS','7777',1000000),
-> (108,'BRUB','0000',5000000);
ERROR 1054 (42S22): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(107,'BRUS','7777',1000000)
-> (108,'BRUB','0000',5000000),
-> (109,'BRUB','9999',0);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(108,'BRUB',
'0000',5000000),
(109,'BRUB','9999',0)' at line 2
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(107,'BRUS','7777',1000000)
-> (108,'BRUB','0000',5000000),
-> (109,'BRUB','9999',0);
Query OK, 3 rows affected (0.140 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(110,'BRUY','1234',550000);
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(111,'BRUK','4321',150000);
Query OK, 1 row affected (0.131 sec)

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(112,'BRUK','0123',300000);
Query OK, 1 row affected (0.125 sec)

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values(113,'BRUY','8888',255000);
Query OK, 1 row affected (0.137 sec)

MariaDB [perbankan]> _
```

```
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekeningtk, id_nasabahfk, jenis_transaksi, tanggal, jumlah)
-> values( NULL, 105, 3, 'debit', DEFAULT, 50000),
-> ( NULL, 103, 2, 'debit', DEFAULT, 40000),
-> ( NULL, 101, 4, 'kredit', DEFAULT, 20000),
-> ( NULL, 106, 3, 'debit', DEFAULT, 50000),
-> ( NULL, 107, 5, 'kredit', DEFAULT, 30000),
-> ( NULL, 104, 1, 'kredit', DEFAULT, 200000),
-> ( NULL, 110, 9, 'kredit', DEFAULT, 150000),
-> ( NULL, 102, 5, 'debit', DEFAULT, 20000),
-> ( NULL, 105, 3, 'kredit', DEFAULT, 50000),
-> ( NULL, 107, 4, 'debit', DEFAULT, 100000),
-> ( NULL, 103, 3, 'debit', DEFAULT, 100000),
-> ( NULL, 104, 1, 'debit', DEFAULT, 50000),
-> ( NULL, 107, 4, 'kredit', DEFAULT, 200000),
-> ( NULL, 105, 3, 'debit', DEFAULT, 40000),
-> ( NULL, 104, 1, 'kredit', DEFAULT, 100000),
-> ( NULL, 101, 4, 'kredit', DEFAULT, 20000),
-> ( NULL, 103, 2, 'debit', DEFAULT, 50000),
-> ( NULL, 102, 5, 'debit', DEFAULT, 50000),
-> ( NULL, 108, 10, 'debit', DEFAULT, 100000),
-> ( NULL, 106, 3, 'kredit', DEFAULT, 50000),
-> ( NULL, 103, 2, 'kredit', DEFAULT, 200000),
-> ( NULL, 105, 3, 'kredit', DEFAULT, 100000),
-> ( NULL, 102, 5, 'debit', DEFAULT, 20000),
-> ( NULL, 104, 1, 'debit', DEFAULT, 50000),
-> ( NULL, 103, 2, 'debit', DEFAULT, 40000),
-> ( NULL, 101, 4, 'debit', DEFAULT, 50000),
-> ( NULL, 103, 2, 'kredit', DEFAULT, 100000),
-> ( NULL, 102, 5, 'kredit', DEFAULT, 200000),
-> ( NULL, 109, 7, 'debit', DEFAULT, 100000),
-> ( NULL, 110, 9, 'debit', DEFAULT, 20000);
Query OK, 30 rows affected (0.273 sec)
Records: 30 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankan]> 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)
```

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

| no_rekening | kode_cabangFK | pin  | saldo   |
|-------------|---------------|------|---------|
| 101         | BRUS          | 1111 | 50000   |
| 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 | 550000  |
| 111         | BRUK          | 4321 | 150000  |
| 112         | BRUK          | 0123 | 300000  |
| 113         | BRUY          | 8888 | 255000  |

```
13 rows in set (0.000 sec)
```

```
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 41        |
| 4          | Kartika Padmasari | Jl. Manggis 15          |
| 5          | Budi Eko Prayogo  | Jl. kanti 30            |
| 6          | Satria Eka Jaya   | Jl. Slamet Riyadi 45    |
| 7          | indri Hapsari     | Jl. Sutoyo 5            |
| 8          | Sari Murti        | Jl. Pangaandaran 11     |
| 9          | Canka Lokananta   | Jl. Tidal 86            |
| 10         | Budi Murtono      | Jl. Merak 22            |

```
10 rows in set (0.002 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. 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 Senopati 12 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21         |

```
6 rows in set (0.000 sec)
```

```
MariaDB [perbankan]> _
```

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

| no_transaksi | id_nasabahfk | no_rekeningfk | jenis_transaksi | tanggal             | jumlah |
|--------------|--------------|---------------|-----------------|---------------------|--------|
| 1            | 3            | 105           | debit           | 2020-03-27 22:14:12 | 50000  |
| 2            | 2            | 103           | debit           | 2020-03-27 22:14:12 | 40000  |
| 3            | 4            | 101           | kredit          | 2020-03-27 22:14:12 | 20000  |
| 4            | 3            | 106           | debit           | 2020-03-27 22:14:12 | 50000  |
| 5            | 5            | 107           | kredit          | 2020-03-27 22:14:12 | 30000  |
| 6            | 1            | 104           | kredit          | 2020-03-27 22:14:12 | 200000 |
| 7            | 9            | 110           | kredit          | 2020-03-27 22:14:12 | 150000 |
| 8            | 5            | 102           | debit           | 2020-03-27 22:14:12 | 20000  |
| 9            | 3            | 105           | kredit          | 2020-03-27 22:14:12 | 50000  |
| 10           | 4            | 107           | debit           | 2020-03-27 22:14:12 | 100000 |
| 11           | 3            | 103           | debit           | 2020-03-27 22:14:12 | 100000 |
| 12           | 1            | 104           | debit           | 2020-03-27 22:14:12 | 50000  |
| 13           | 4            | 107           | kredit          | 2020-03-27 22:14:12 | 200000 |
| 14           | 3            | 105           | debit           | 2020-03-27 22:14:12 | 40000  |
| 15           | 1            | 104           | kredit          | 2020-03-27 22:14:12 | 100000 |
| 16           | 4            | 101           | kredit          | 2020-03-27 22:14:12 | 20000  |
| 17           | 2            | 103           | debit           | 2020-03-27 22:14:12 | 50000  |
| 18           | 5            | 102           | debit           | 2020-03-27 22:14:12 | 50000  |
| 19           | 10           | 108           | debit           | 2020-03-27 22:14:12 | 100000 |
| 20           | 3            | 106           | kredit          | 2020-03-27 22:14:12 | 50000  |
| 21           | 2            | 103           | kredit          | 2020-03-27 22:14:12 | 200000 |
| 22           | 3            | 105           | kredit          | 2020-03-27 22:14:12 | 100000 |
| 23           | 5            | 102           | debit           | 2020-03-27 22:14:12 | 20000  |
| 24           | 1            | 104           | debit           | 2020-03-27 22:14:12 | 50000  |
| 25           | 2            | 103           | debit           | 2020-03-27 22:14:12 | 40000  |
| 26           | 4            | 101           | debit           | 2020-03-27 22:14:12 | 50000  |
| 27           | 2            | 103           | kredit          | 2020-03-27 22:14:12 | 100000 |
| 28           | 5            | 102           | kredit          | 2020-03-27 22:14:12 | 200000 |
| 29           | 7            | 109           | debit           | 2020-03-27 22:14:12 | 100000 |
| 30           | 9            | 110           | debit           | 2020-03-27 22:14:12 | 20000  |

```
30 rows in set (0.001 sec)

MariaDB [perbankan]>
```

No 6

```
MariaDB [perbankan]> update nasabah set alamat_nasabah= 'Jl. Slamet riyadi 34' where
nama_nasabah= 'indri Hapsari';
Query OK, 1 row affected (0.060 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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 41        |
| 4          | Kartika Padmasari | Jl. Manggis 15          |
| 5          | Budi Eko Prayogo  | Jl. kanti 30            |
| 6          | Satria Eka Jaya   | Jl. Slamet Riyadi 45    |
| 7          | indri Hapsari     | Jl. Slamet riyadi 34    |
| 8          | Sari Murti        | Jl. Pangaandaran 11     |
| 9          | Canka Lokananta   | Jl. Tidal 86            |
| 10         | Budi Murtono      | Jl. Merak 22            |

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

a.

```

MariaDB [perbankan]> update cabang_bank set alamat_cabang= 'Jl. A. Yani 23' where ko
de_cabang= 'BRUW';
Query OK, 1 row affected (0.132 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. 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. A. Yani 23         |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21         |
+-----+-----+-----+
6 rows in set (0.001 sec)

```

b.

No 7

```

MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.136 sec)

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 41        |
| 4          | Kartika Padmasari     | Jl. Manggis 15          |
| 5          | Budi Eko Prayogo      | Jl. kanti 30            |
| 6          | Satria Eka Jaya       | Jl. Slamet Riyadi 45     |
| 8          | Sari Murti            | Jl. Pangaandaran 11     |
| 9          | Canka Lokananta       | Jl. Tidal 86            |
| 10         | Budi Murtono          | Jl. Merak 22            |
+-----+-----+-----+
9 rows in set (0.000 sec)

```

a.

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';  
Query OK, 1 row affected (0.142 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. Suparman 23      |
| BRUS        | Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri   | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21       |

5 rows in set (0.000 sec)

b.