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KELAS : D
MODUL : 11

KEGIATAN PRAKTIKUM

1. Install connectore mysql sesuai versi python

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

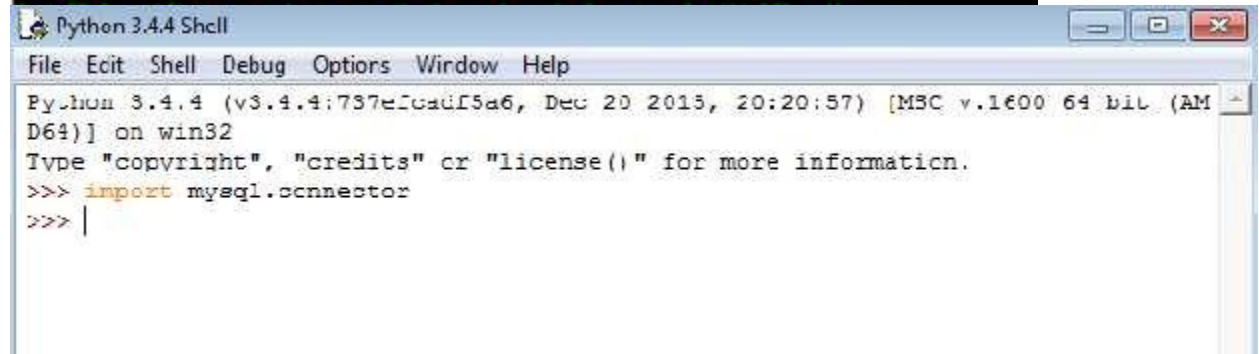
C:\Users\LABSI-08>cd C:
C:\Users\LABSI-08>

C:\Users\LABSI-08>cd C:/
C:\>cd C:\Python34\Scripts

C:\Python34\Scripts>pip install mysql-connector-python
Collecting mysql-connector-python
  Downloading https://files.pythonhosted.org/packages/c5/40/c7ec860ad658870296c1
a40afebce8e148997f6759d44307c7b6faa2b130/mysql_connector_python-8.0.16-py2.py3-n
one-any.whl (341kB)
    100% |#####| 344kB 525kB/s
Collecting protobuf>=3.0.0 (from mysql-connector-python)
  Downloading https://files.pythonhosted.org/packages/8f/5a/077f2811869284d8e15f
cc88818922e19cf205a3529f21210f3a1b47dc74/protobuf-3.8.0-py2.py3-none-any.whl (42
7kB)
    100% |#####| 430kB 553kB/s
Requirement already satisfied (use --upgrade to upgrade): setuptools in c:\pytho
n34\lib\site-packages (from protobuf>=3.0.0->mysql-connector-python)
Collecting six>=1.9 (from protobuf>=3.0.0->mysql-connector-python)
  Downloading https://files.pythonhosted.org/packages/73/fb/00a776f728d0d1fecfe8
98238ce23f502a721c0ac0ecfedb80e0d88c64e9/six-1.12.0-py2.py3-none-any.whl
Installing collected packages: six, protobuf, mysql-connector-python
Successfully installed mysql-connector-python-8.0.16 protobuf-3.8.0 six-1.12.0
You are using pip version 7.1.2, however version 19.1.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' comm
and.
```

2. Cek import mysql.connector

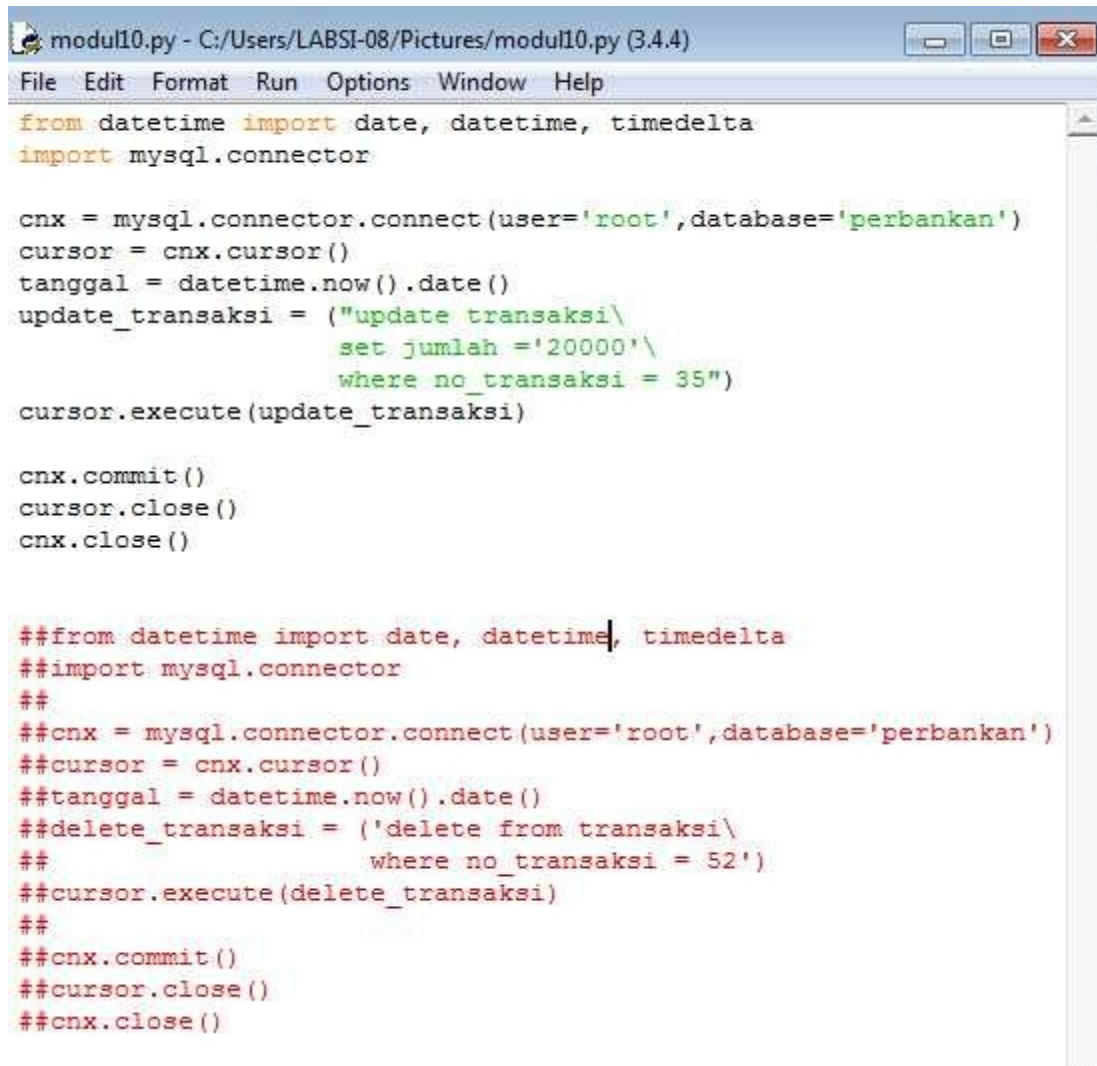
```
Query OK, 0 rows affected (0.00 sec)
```



The screenshot shows a Python 3.4.4 Shell window with the following content:

```
Python 3.4.4 (v3.4.4:737e1ca4f5a6, Dec 20 2013, 20:20:57) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> import mysql.connector
>>>
```

3. Tulis code pada shell python



```
modul10.py - C:/Users/LABSI-08/Pictures/modul10.py (3.4.4)
File Edit Format Run Options Window Help

from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
update_transaksi = ("update transaksi\
                    set jumlah = '20000'\
                    where no_transaksi = 35")
cursor.execute(update_transaksi)

cnx.commit()
cursor.close()
cnx.close()

##from datetime import date, datetime, timedelta
##import mysql.connector
##
##cnx = mysql.connector.connect(user='root', database='perbankan')
##cursor = cnx.cursor()
##tanggal = datetime.now().date()
##delete_transaksi = ('delete from transaksi\
##                    where no_transaksi = 52')
##cursor.execute(delete_transaksi)
##
##cnx.commit()
##cursor.close()
##cnx.close()
```

4. Masuk ke Command Prompt

```
C:\Python34\Scripts>cd C:/xampp/mysql/bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.1.37-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]> select * from transaksi;
+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal |
| jumlah      |              |               |                 |          |
+-----+-----+-----+-----+-----+
| 32          | 3            | 105           | debit           | 2009-11-10 00:00:00 |
| 50000       |              |               |                 |          |
| 33          | 2            | 103           | debit           | 2009-11-10 00:00:00 |
| 40000       |              |               |                 |          |
| 34          | 4            | 101           | kredit          | 2009-11-12 00:00:00 |
| 20000       |              |               |                 |          |
| 35          | 3            | 106           | debit           | 2009-11-13 00:00:00 |
| 50000       |              |               |                 |          |
| 36          | 5            | 107           | kredit          | 2009-11-13 00:00:00 |
| 30000       |              |               |                 |          |
| 37          | 1            | 104           | kredit          | 2009-11-15 00:00:00 |
| 200000      |              |               |                 |          |
| 38          | 9            | 110           | kredit          | 2009-11-15 00:00:00 |
| 150000      |              |               |                 |          |
| 39          | 5            | 102           | debit           | 2009-11-16 00:00:00 |
| 20000       |              |               |                 |          |
| 40          | 3            | 105           | kredit          | 2009-11-18 00:00:00 |
| 50000       |              |               |                 |          |
| 41          | 4            | 107           | debit           | 2009-11-19 00:00:00 |
| 100000      |              |               |                 |          |
| 42          | 2            | 103           | debit           | 2009-11-19 00:00:00 |
| 100000      |              |               |                 |          |
| 43          | 1            | 104           | debit           | 2009-11-19 00:00:00 |
| 50000       |              |               |                 |          |
| 44          | 4            | 107           | kredit          | 2009-11-20 00:00:00 |
| 200000      |              |               |                 |          |
| 45          | 3            | 105           | debit           | 2009-11-21 00:00:00 |
| 40000       |              |               |                 |          |
| 46          | 1            | 104           | kredit          | 2009-11-22 00:00:00 |
| 100000      |              |               |                 |          |
| 47          | 4            | 101           | kredit          | 2009-11-22 00:00:00 |
| 20000       |              |               |                 |          |
```

TUGAS

1. Insert transaksi

```
modul00.py - G:\hipzi\ys\pentestmodul00.py (2,7,14)
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471635ed, Sep 16 2017
, 20:16:30) (MSC v.1500 32 bit (Intel)) on win
32
Type "help()", "dir()", or "list()" for
more information.
>>>
===== RESTART: Shell >>>
C:\Users\bullo>

# from datetime import date, datetime, timedelta
# import mysql.connector

# conn = mysql.connector.connect(user='root', database='perlbank')
# cursor = conn.cursor()
# tanggal = datetime.now().date()
# update_transaksi = ("update transaksi
# set jumlah = '10000'
# where no_transaksi = 30")
# cursor.execute(update_transaksi)
# conn.commit()
# cursor.close()
# conn.close()

# from datetime import date, datetime, timedelta
# import mysql.connector

# conn = mysql.connector.connect(user='root', database='perlbank')
# cursor = conn.cursor()
# tanggal = datetime.now().date()
# transaksi_transaksi = ("INSERT INTO transaksi VALUES (id_transaksi,
# tanggal_transaksi, tanggal_transaksi, tanggal_transaksi, tanggal_transaksi)")

data_transaksi = ('', '30', '100', 'kredit', tanggal, '10000')
insert_transaksi(cursor, tanggal_transaksi, data_transaksi)

conn.commit()
cursor.close()
conn.close()
```

- Update nasabah

```

File Edit Format Run Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
update_transaksi = ("update nasabah
                    set nama_nasabah = 'anggi'
                    where id_nasabah = 2")
cursor.execute(update_transaksi)

cnx.commit()
cursor.close()
cnx.close()

##from datetime import date, datetime, timedelta
##import mysql.connector
##
##cnx = mysql.connector.connect(user='root', database='perbankan')
##cursor = cnx.cursor()
##tanggal = datetime.now().date()
##delete_transaksi = ('delete from transaksi
##                  where no_transaksi = 52')
##cursor.execute(delete_transaksi)
##
##cnx.commit()
##cursor.close()
##cnx.close()

```

- Hasil

+ Options				id_nasabah	nama_nasabah	alamat_nasabah
<input type="checkbox"/>				1	Sutopo	Jl. Jendral Sudirman 12
<input type="checkbox"/>				2	anggi	Jl. MT Haryono 11
<input type="checkbox"/>				3	Suparman	Jl. Hasanudin 81
<input type="checkbox"/>				4	Kartika Padmasari	Jl. Manggis 15
<input type="checkbox"/>				5	Budi Eko Prayogo	Jl. Kanti 30
<input type="checkbox"/>				6	Ratna Eka Jaya	Jl. Slamet Riyadi 45
<input type="checkbox"/>				7	Indri Hapsari	Jl. Sutoyo 5
<input type="checkbox"/>				8	Sari Murti	Jl. Hangadaran 11
<input type="checkbox"/>				9	Carika Lukmanita	Jl. Tidar 86
<input type="checkbox"/>				10	Budi Murtono	Jl. Merek 22
<input type="checkbox"/>				11	Juku Nilo Kundo	Jl. Bawang jadian kagak
<input type="checkbox"/>				12	Jon Koplo	Jl. Angin Besar 12
>perbankan&table=nasabah has rsk...				13	Anggit	Soko

- Update transaksi

```
modul10.py - G:\diploja\modul10.py (2.7.14)*
File Edit Format Run Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
update_transaksi = ("update transaksi
                    set jumlah ='20000'
                    where no_transaksi = 35")
cursor.execute(update_transaksi)

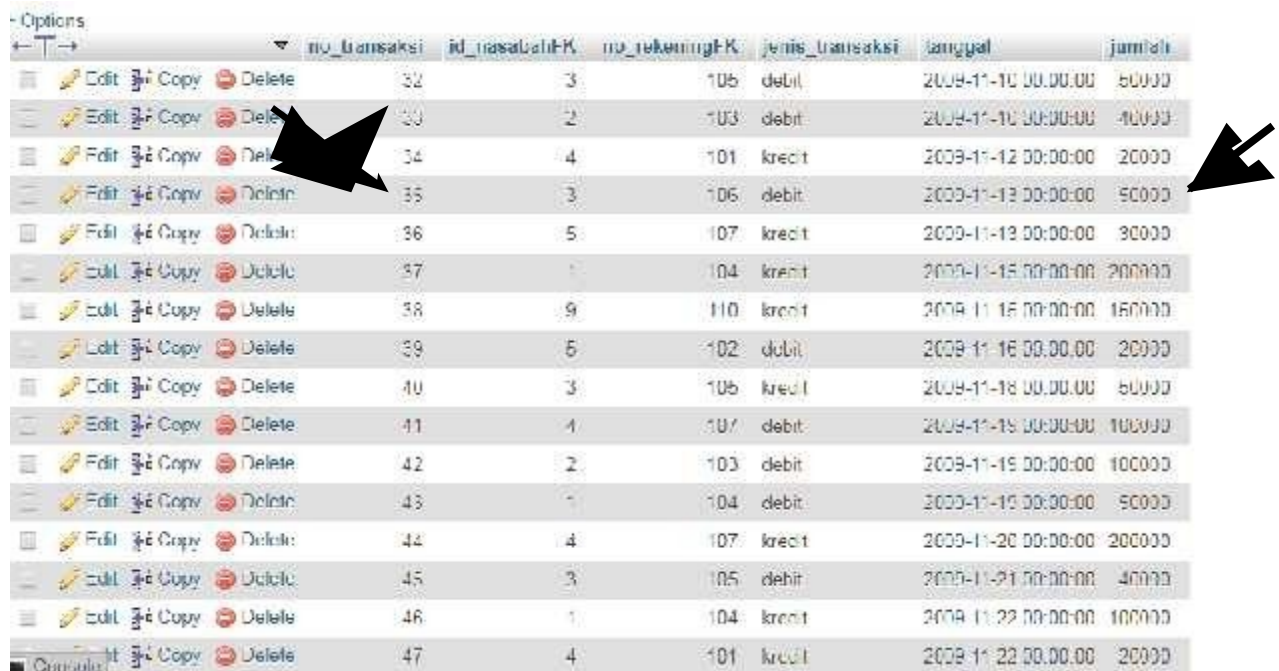
cnx.commit()
cursor.close()
cnx.close()

##from datetime import date, datetime, timedelta
##import mysql.connector

##cnx = mysql.connector.connect(user='root', database='perbankan')
##cursor = cnx.cursor()
##tanggal = datetime.now().date()
##tambah_transaksi = ('INSERT INTO transaksi VALUES (%s, %s, %s, %s, %s, %s)
##
##
##data_transaksi = ('', '36', '150', 'kredit', tanggal, '70000')
##cursor.execute(tambah_transaksi, data_transaksi)
##
##cnx.commit()
##cursor.close()
##cnx.close()
```

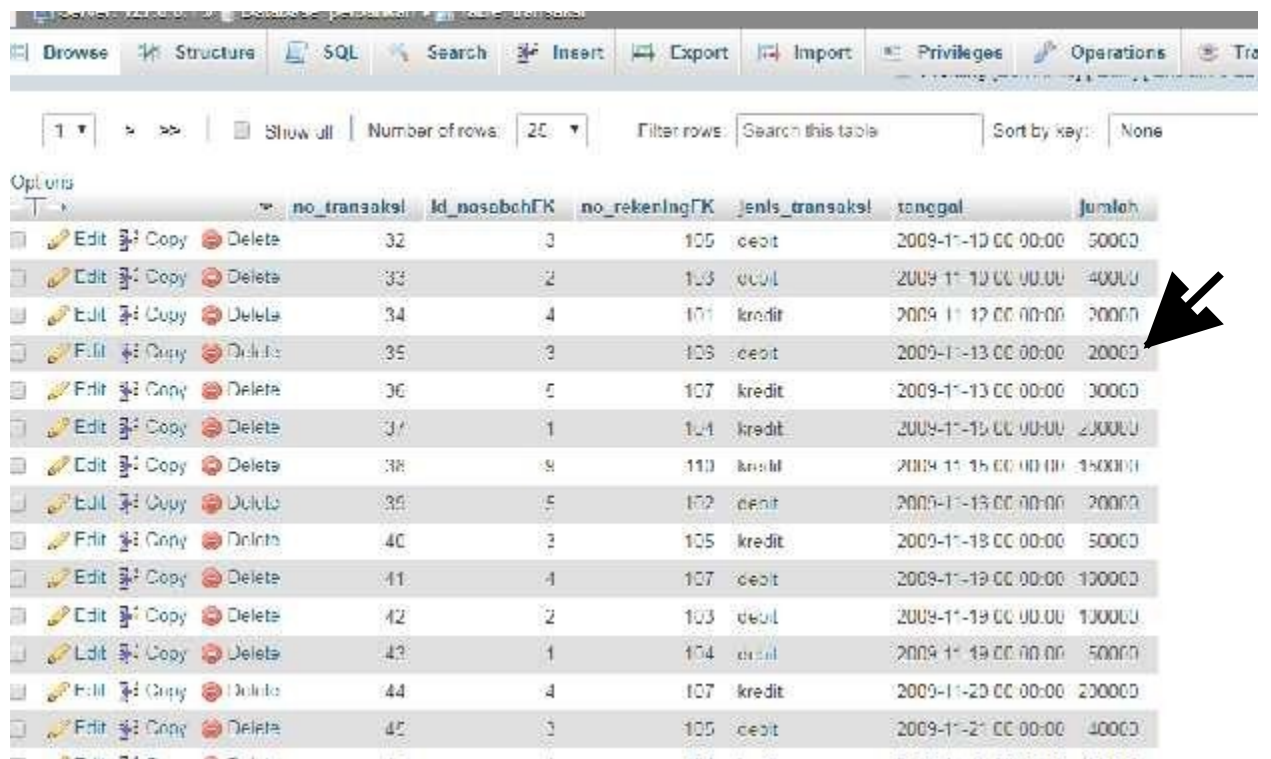
- Hasil :

a. Sebelum



Options	no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
Edit Copy Delete	32	3	105	debit	2009-11-10 00:00:00	50000
Edit Copy Delete	33	2	103	debit	2009-11-10 00:00:00	40000
Edit Copy Delete	34	4	101	kredit	2009-11-12 00:00:00	20000
Edit Copy Delete	35	3	106	debit	2009-11-13 00:00:00	50000
Edit Copy Delete	36	5	107	kredit	2009-11-13 00:00:00	30000
Edit Copy Delete	37	1	104	kredit	2009-11-15 00:00:00	200000
Edit Copy Delete	38	9	110	kredit	2009-11-15 00:00:00	150000
Edit Copy Delete	39	5	102	debit	2009-11-16 00:00:00	20000
Edit Copy Delete	40	3	105	kredit	2009-11-18 00:00:00	50000
Edit Copy Delete	41	4	107	debit	2009-11-19 00:00:00	100000
Edit Copy Delete	42	2	103	debit	2009-11-19 00:00:00	100000
Edit Copy Delete	43	1	104	debit	2009-11-19 00:00:00	50000
Edit Copy Delete	44	4	107	kredit	2009-11-20 00:00:00	200000
Edit Copy Delete	45	3	105	debit	2009-11-21 00:00:00	40000
Edit Copy Delete	46	1	104	kredit	2009-11-22 00:00:00	100000
Edit Copy Delete	47	4	101	kredit	2009-11-22 00:00:00	20000

b. Setelah



Options	no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
Edit Copy Delete	32	3	105	debit	2009-11-10 00:00:00	50000
Edit Copy Delete	33	2	103	debit	2009-11-10 00:00:00	40000
Edit Copy Delete	34	4	101	kredit	2009-11-12 00:00:00	20000
Edit Copy Delete	35	3	106	debit	2009-11-13 00:00:00	20000
Edit Copy Delete	36	5	107	kredit	2009-11-13 00:00:00	30000
Edit Copy Delete	37	1	104	kredit	2009-11-15 00:00:00	200000
Edit Copy Delete	38	9	110	kredit	2009-11-15 00:00:00	150000
Edit Copy Delete	39	5	102	debit	2009-11-16 00:00:00	20000
Edit Copy Delete	40	3	105	kredit	2009-11-18 00:00:00	50000
Edit Copy Delete	41	4	107	debit	2009-11-19 00:00:00	100000
Edit Copy Delete	42	2	103	debit	2009-11-19 00:00:00	100000
Edit Copy Delete	43	1	104	debit	2009-11-19 00:00:00	50000
Edit Copy Delete	44	4	107	kredit	2009-11-20 00:00:00	200000
Edit Copy Delete	45	3	105	debit	2009-11-21 00:00:00	40000
Edit Copy Delete	46	1	104	kredit	2009-11-22 00:00:00	100000
Edit Copy Delete	47	4	101	kredit	2009-11-22 00:00:00	20000

- Delete transaksi

```
modul10.py - G:/Users/LABSI-08/Pictures/modul10.py (3.4.4)
File Edit Format Run Options Window Help

from datetime import date, datetime, timedelta
import mysql.connector

#cnx = mysql.connector.connect(user='root', database='perbankan')
#cursor = cnx.cursor()
#tanggal = datetime.now().date()
#update_transaksi = ('update transaksi\
#                    set jumlah = '20000'\
#                    where no_transaksi = 35')
#cursor.execute(update_transaksi)
##
##cnx.commit()
#cursor.close()
#cnx.close()

from datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
delete_transaksi = ('delete from transaksi\
                    where no_transaksi = 32')
cursor.execute(delete_transaksi)

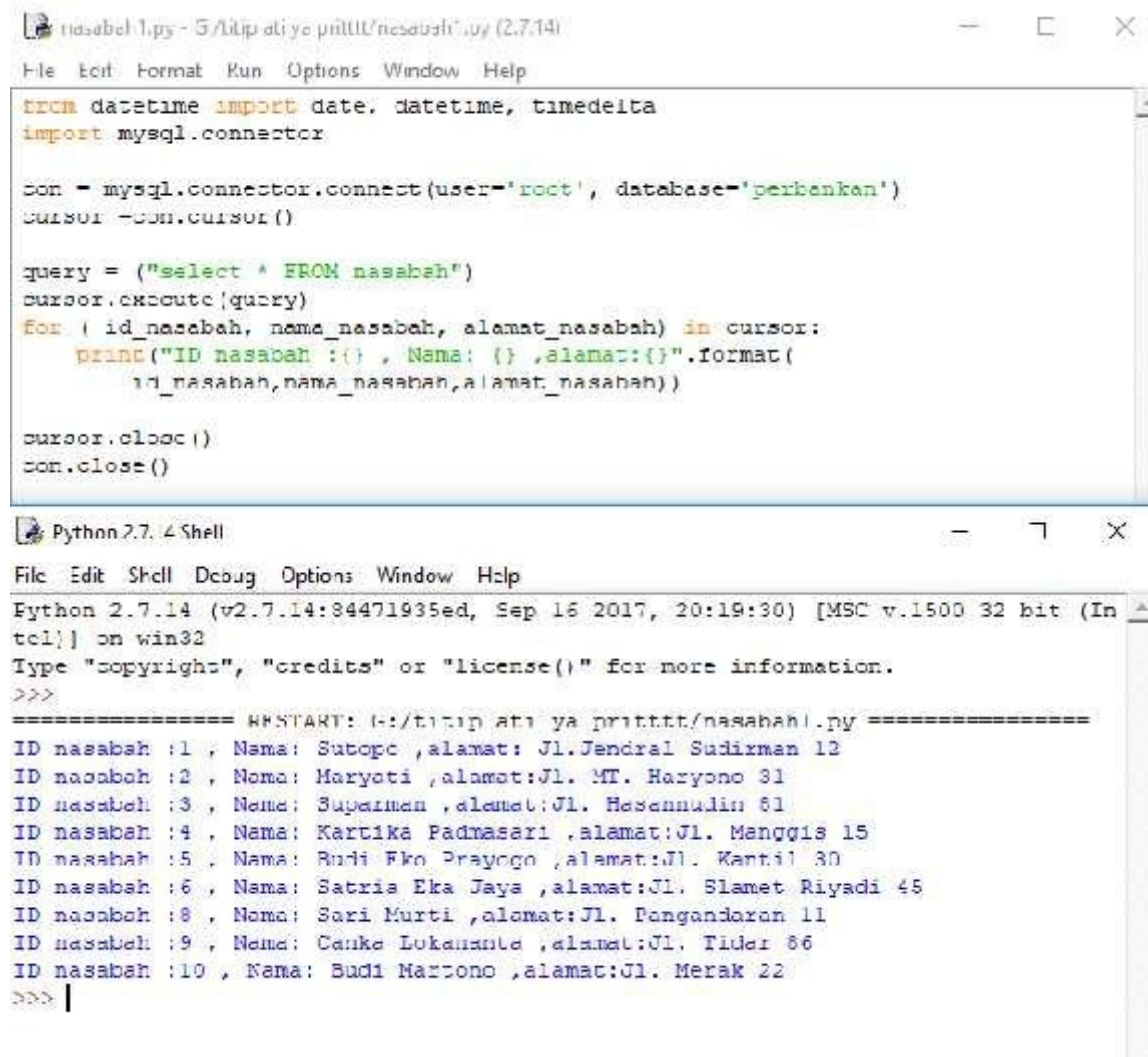
cnx.commit()
cursor.close()
cnx.close()
```


Hasil

		no_transaksi	id_nasabah-R	no_rekening-R	jenis_transaksi	ta
  		33	2	103	debit	20
  		34	4	101	kredit	20
  		35	3	106	debit	20
  		36	5	107	kredit	20
  		37	1	104	kredit	20
  		38	9	110	kredit	20
  		39	6	102	debit	20
  		40	3	105	kredit	20
  		41	4	107	debit	20
  		42	2	103	debit	20
  		43	1	104	debit	20
  		44	4	107	kredit	20
  		45	3	105	debit	20
  		46	1	104	kredit	20
  		47	4	101	kredit	20
  		48	2	103	debit	20

2. Buatlah kode program python untuk mendapat

a. Data Nasabah



The image shows a screenshot of a Python script and its execution output. The script is named `nasabah1.py` and is located at `C:/titip ati ya pritttt/nasabah1.py`. The script uses the `mysql.connector` library to connect to a MySQL database named `perbankan` and retrieve data from a table named `nasabah`. The output shows the data retrieved from the database, including the ID, Name, and Address of 10 customers.

```
nasabah1.py - C:/titip ati ya pritttt/nasabah1.py (2.7.14)
File Edit Format Run Options Window Help

from datetime import date, datetime, timedelta
import mysql.connector

con = mysql.connector.connect(user='root', database='perbankan')
cursor = con.cursor()

query = ("select * FROM nasabah")
cursor.execute(query)
for (id_nasabah, nama_nasabah, alamat_nasabah) in cursor:
    print("ID nasabah : {}, Nama: {}, alamat: {}".format(
        id_nasabah, nama_nasabah, alamat_nasabah))

cursor.close()
con.close()
```

```
Python 2.7.4 Shell
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/titip ati ya pritttt/nasabah1.py =====
ID nasabah :1 , Nama: Sutopo ,alamat: Jl.Jendral Sudirman 12
ID nasabah :2 , Nama: Maryati ,alamat:Jl. MT. Haryono 31
ID nasabah :3 , Nama: Suparman ,alamat:Jl. Hoesennudin 61
ID nasabah :4 , Nama: Kartika Padmasari ,alamat:Jl. Menggis 15
ID nasabah :5 , Nama: Rudi Eko Prayogo ,alamat:Jl. Kartil 30
ID nasabah :6 , Nama: Satria Eka Jaya ,alamat:Jl. Slamet Riyadi 45
ID nasabah :8 , Nama: Sari Murti ,alamat:Jl. Pangandaran 11
ID nasabah :9 , Nama: Canke Lukananta ,alamat:Jl. Tider 86
ID nasabah :10 , Nama: Budi Martono ,alamat:Jl. Merak 22
>>> |
```

- b. Data nasabah yang melakukan transaksi antara Bulan Oktober sampai Desember

```
File Edit Format Run Options Window Help
--> datetime import date, datetime, timedelta
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()

query = ("select nasabah.id_nasabah, nasabah.nama_nasabah, transaksi.tanggal FROM nasabah,transaksi ")
cursor.execute(query)
for (id nasabah, nama nasabah, tanggal) in cursor:
    print("ID nasabah:[] , nama: [], tanggal:[]".format(
        id_nasabah, nama_nasabah, tanggal))
cursor.close()
cnx.close()
```

===== RESTART: D:\semester4\praktikum basis data\abd modul11\nasabah2.py =====

```
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-10 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-11-10 00:00:00
ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-11-12 00:00:00
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-13 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-11-13 00:00:00
ID nasabah :1 ,Nama: Sutopo ,tanggal:2009-11-15 00:00:00
ID nasabah :9 ,Nama: Canka Lokananta ,tanggal:2009-11-15 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-11-16 00:00:00
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-18 00:00:00
ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-11-19 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-11-19 00:00:00
ID nasabah :1 ,Nama: Sutopo ,tanggal:2009-11-19 00:00:00
ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-11-20 00:00:00
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-21 00:00:00
ID nasabah :1 ,Nama: Sutopo ,tanggal:2009-11-22 00:00:00
ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-11-22 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-11-22 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-11-25 00:00:00
ID nasabah :10 ,Nama: Budi Murtono ,tanggal:2009-11-26 00:00:00
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-27 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-11-28 00:00:00
ID nasabah :3 ,Nama: Superman ,tanggal:2009-11-28 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-11-30 00:00:00
ID nasabah :1 ,Nama: Sutopo ,tanggal:2009-12-01 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-12-02 00:00:00
ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-12-04 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-12-05 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-12-05 00:00:00
ID nasabah :7 ,Nama: Indri Hapsari ,tanggal:2009-12-05 00:00:00
```