

NAMA : NURUL ARIFIA SAFITRI

NIM : L200170088

KELAS : D

MODUL : 11

### KEGIATAN PRAKTIKUM

1. Install connectore mysql sesuai versi python

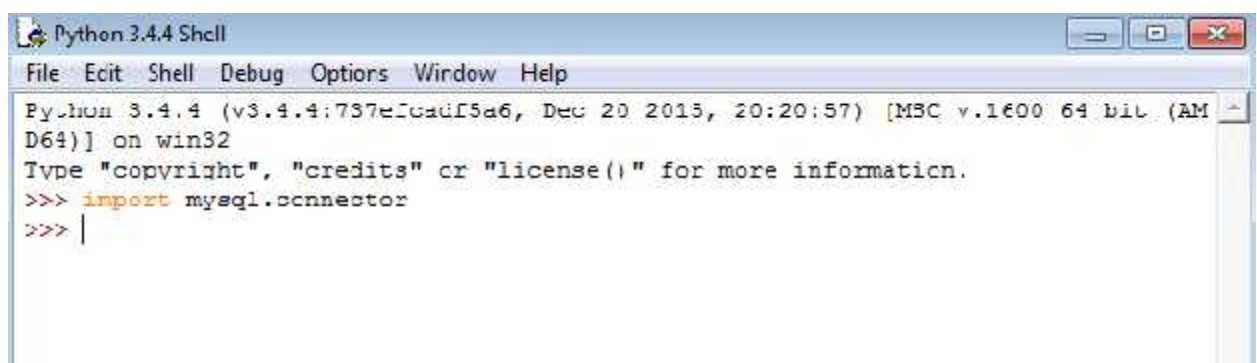
```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

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.
```

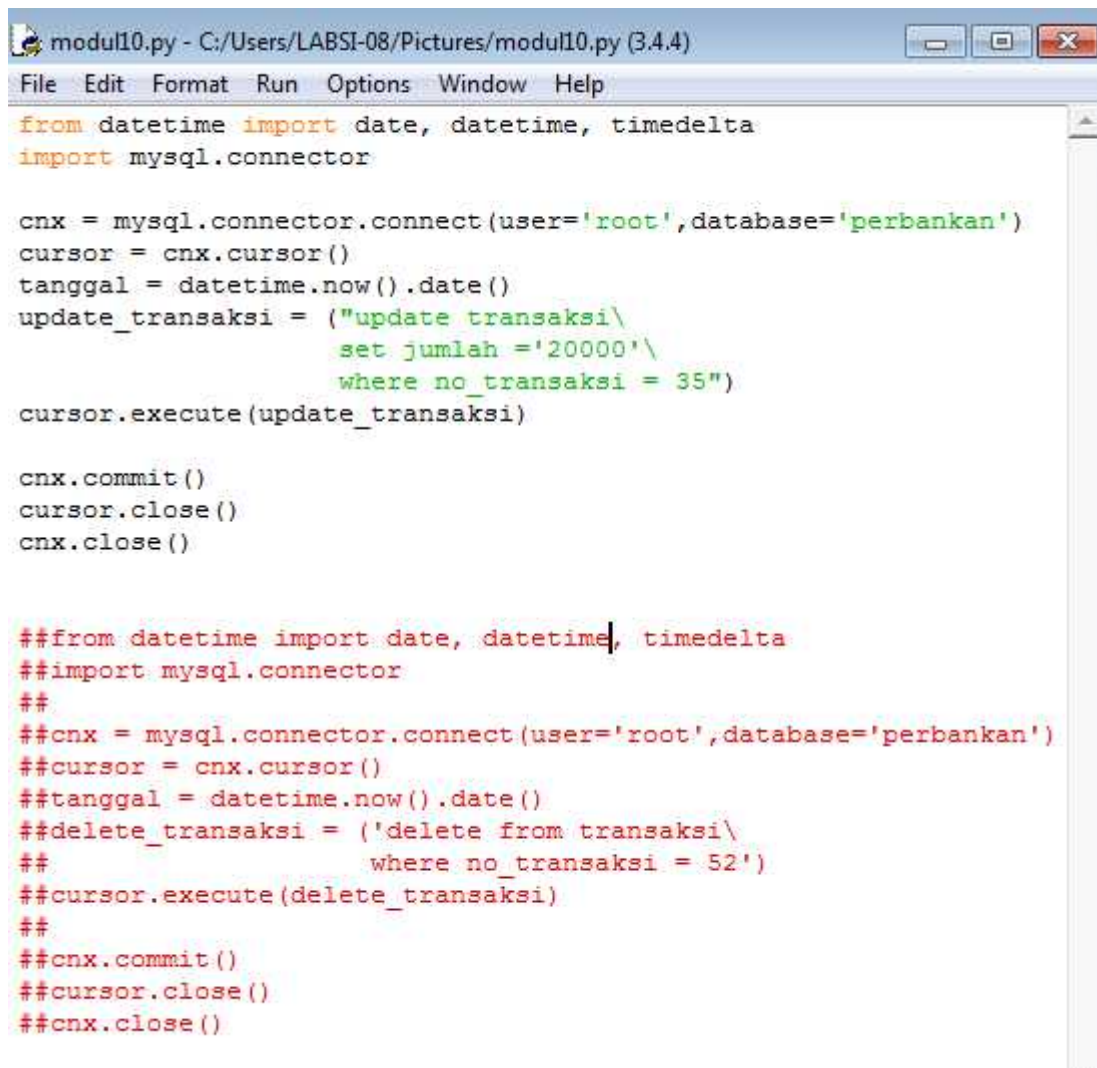
2. Cek import mysql.connector



```
Python 3.4.4 Shell
File Edit Shell Debug Options Window Help

Python 3.4.4 (v3.4.4:737e1cadf5a6, Dec 20 2013, 20:20:57) [MSC v.1600 64 bit (AM
D64)] 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:\hidup\ai ya pentium\modul00.py (2.7.14)
File Edit Shell Debug Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector

#conn = mysql.connector.connect(user='root', database='perbankan')
#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='perbankan')
#cursor = conn.cursor()
#tanggal = datetime.now().date()
#update_transaksi = ("INSERT INTO transaksi VALUES (30, 30, 30, 30, 30, 30)")

data_transaksi = ('', '30', '100', 'kredit', tanggal, '10000')
cursor.execute(update_transaksi, data_transaksi)

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

```
Python 2.7.14 Shell
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 "help()" for
more information.
>>>
===== RESTART: Shell >>>
C:\Users\110>py
>>> |
```

## - 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. Hlamet Riyadi 45		
<input type="checkbox"/>				7	Indri Hapsari	Jl. Sutoyo 5		
<input type="checkbox"/>				8	Sani Murti	Jl. Langandaran 11		
<input type="checkbox"/>				9	Canka Lukmanita	Jl. Tidar 86		
<input type="checkbox"/>				10	Budi Murtono	Jl. Merak 22		
<input type="checkbox"/>				11	Joko Nilo Kundo	Jl. Bawang jadian kagak		
<input type="checkbox"/>				12	Jon Koplo	Jl. Angin Besar 12		
perbankan&tabik=nasabah has rsk...				13	Anggit	Solo		



- Update transaksi

```
modul10.py - G:\dipratiya\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)

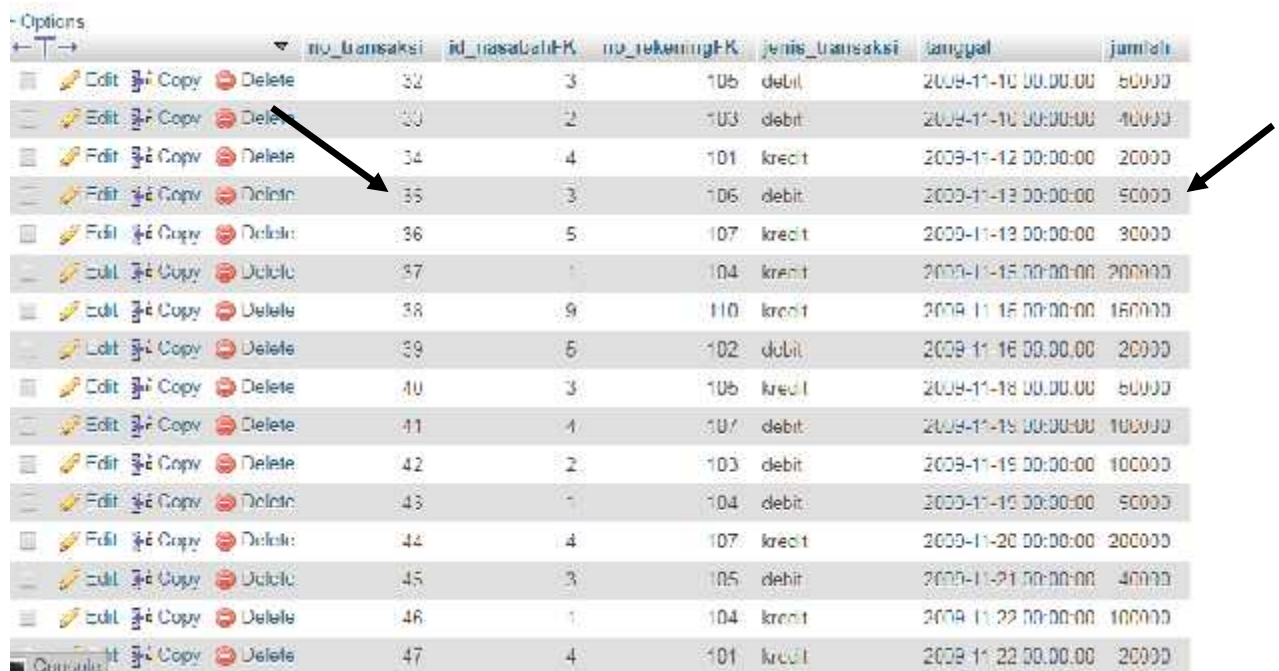
cnx.commit()
cursor.close()
cnx.close()

##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()
```

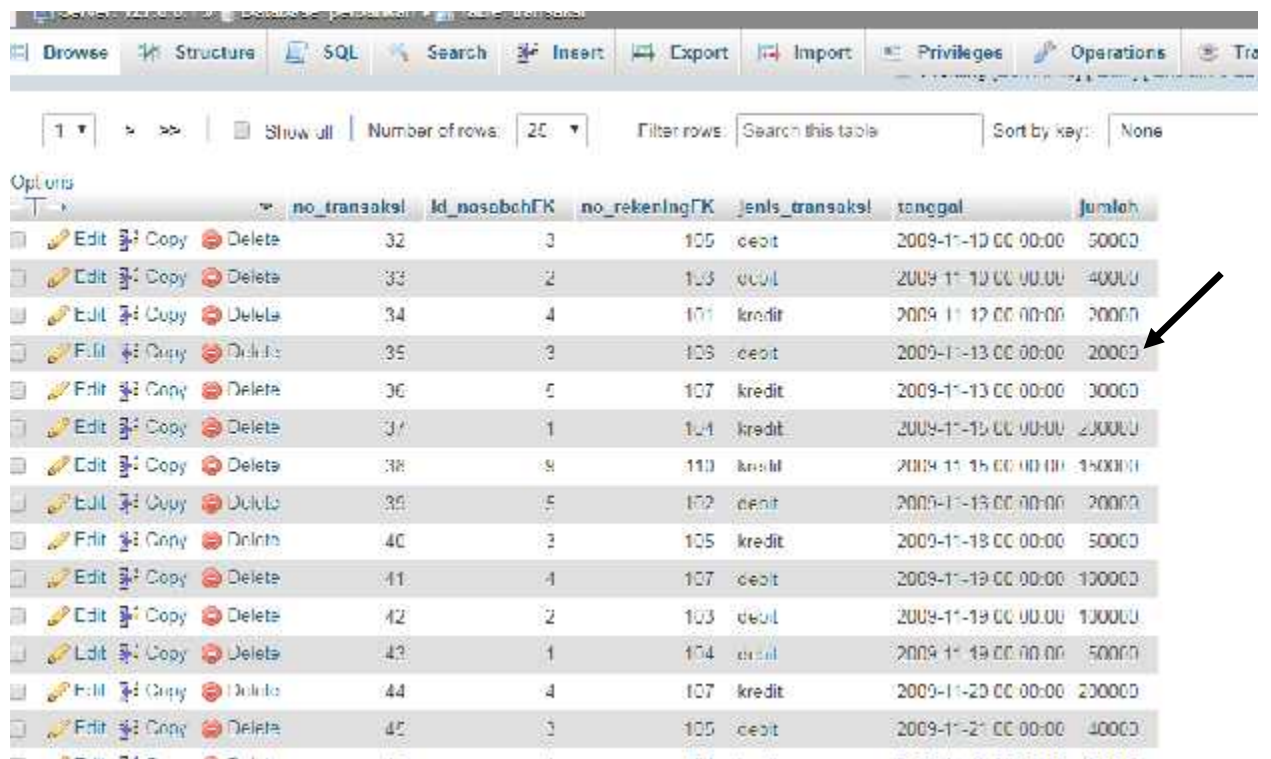
- Hasil :

a. Sebelum



	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	6	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



	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	6	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()
```

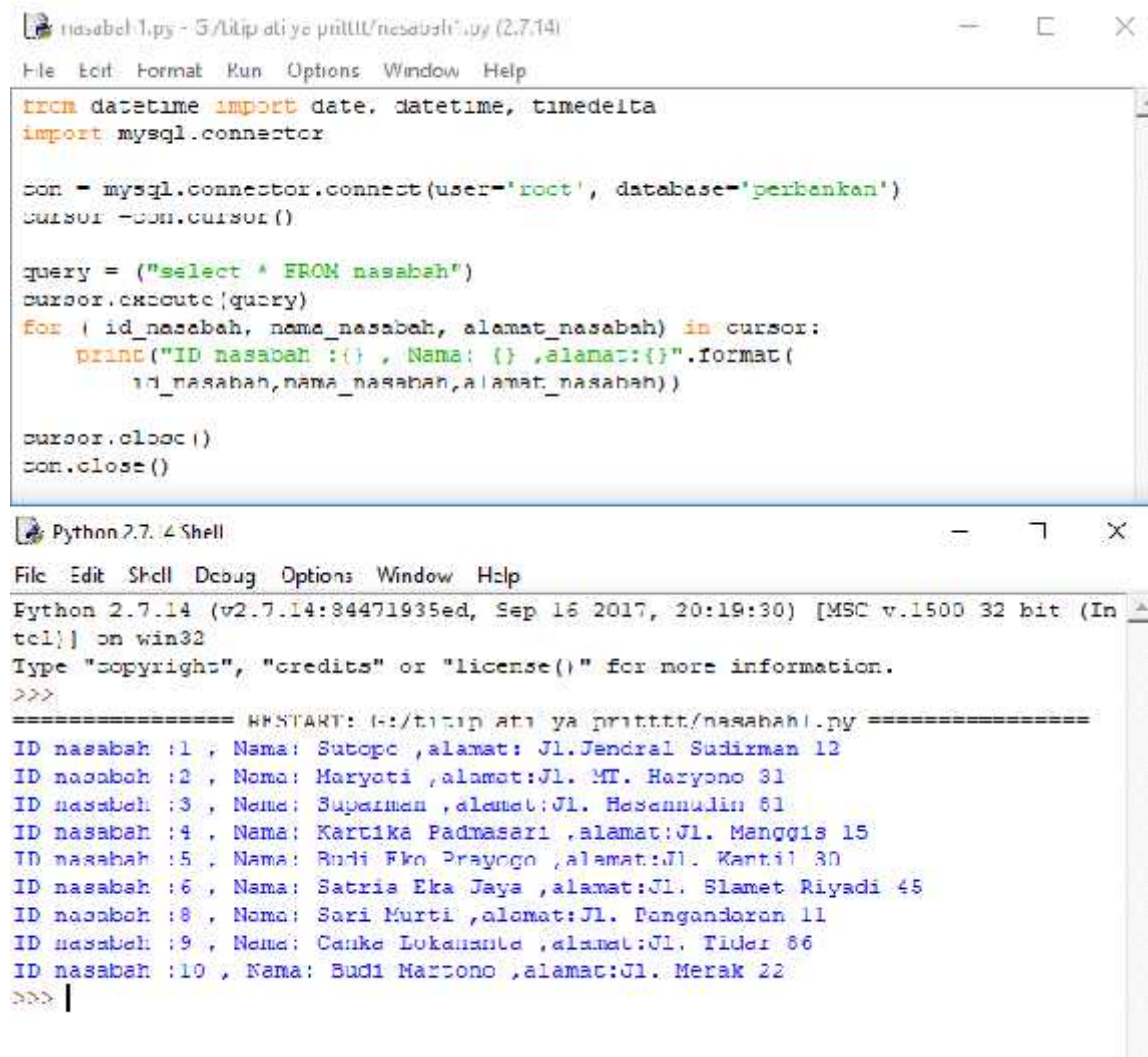


## Hasil

		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 two windows from a Windows operating system. The top window is a Python IDE titled 'nasabah1.py - 5/titip ati ya pritttt/nasabah1.py (2.7.14)'. It contains a Python script that connects to a MySQL database named 'perbankan' using the 'root' user. The script executes a SQL query 'select \* FROM nasabah' and prints the results in a formatted string. The bottom window is a 'Python 2.7.14 Shell' titled 'Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32'. It shows the output of the script, displaying 10 rows of data with columns 'ID nasabah', 'Nama', and 'alamat'.

```
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 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: In: /titip ati ya pritttt/nasabah1.py =====
ID nasabah :1 , Nama: Sutopo ,alamat: Jl.Jendral Sudirman 12
ID nasabah :2 , Nama: Maryoti ,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 Lokananta ,alamat:Jl. Tider 66
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\sbdd 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
```