

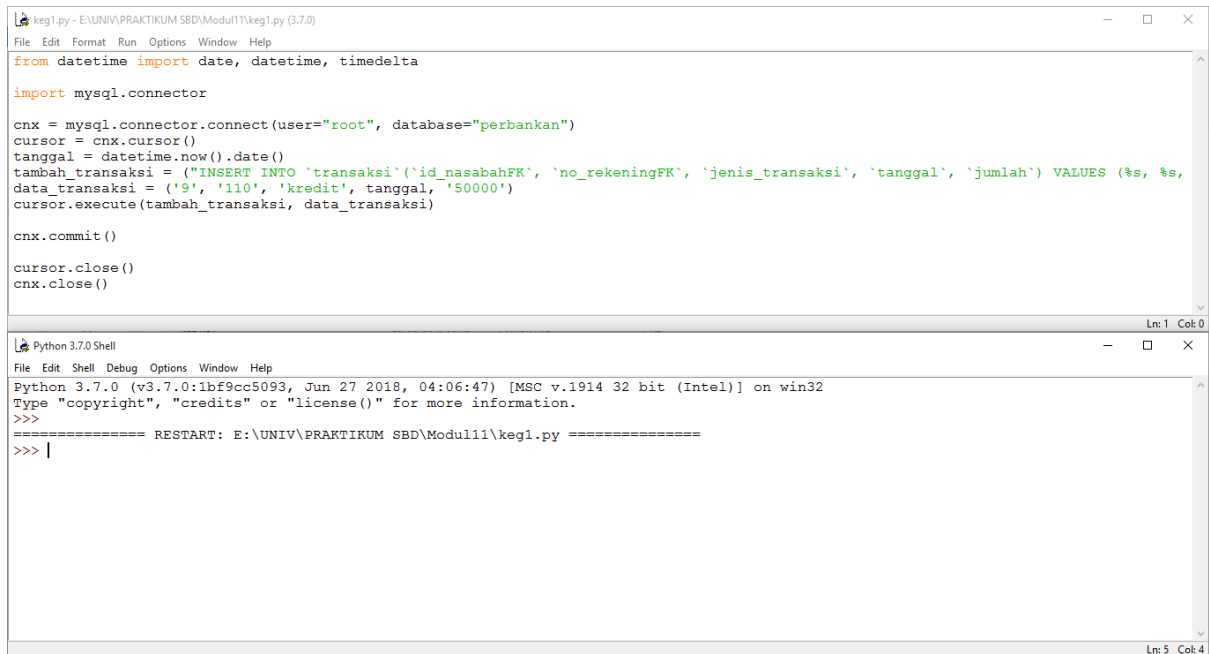
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## Kegiatan Praktikum

### 1. Kegiatan 1



The screenshot shows a Python script named `keg1.py` in a text editor and its execution in a Python 3.7.0 Shell. The script connects to a MySQL database named `perbankan` using the `root` user. It inserts a new transaction record into the `transaksi` table with the following details: `id_nasabahFK` is 9, `no_rekeningFK` is 110, `jenis_transaksi` is 'kredit', `tanggal` is the current date, and `jumlah` is 50000. The script then commits the transaction and closes the cursor and connection.

```
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`(`id_nasabahFK`, `no_rekeningFK`, `jenis_transaksi`, `tanggal`, `jumlah`) VALUES (%s, %s, %s, %s, %s)" % (9, 110, 'kredit', tanggal, 50000))
cursor.execute(tambah_transaksi, data_transaksi)

cnx.commit()

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

The execution output in the shell shows the script running successfully without any errors.

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\keg1.py =====
>>> |
```

### 2. Kegiatan 2



The screenshot shows a Python script named `keg2.py` in a text editor and its execution in a Python 3.7.0 Shell. The script connects to the same MySQL database and executes a query to retrieve all transactions from the year 2019. The results are printed in a formatted string, showing the customer ID, transaction type, date, and amount.

```
from datetime import date, datetime, timedelta

import mysql.connector

cnx = mysql.connector.connect(user="root", database="perbankan")
cursor = cnx.cursor()
query=("SELECT `id_nasabahFK`, `jenis_transaksi`, `tanggal`, `jumlah` FROM `transaksi` WHERE YEAR(tanggal)=2019")
cursor.execute(query)
for (id_nasabahFK, jenis_transaksi, tanggal, jumlah) in cursor:
    print('Nasabah dengan ID {} melakukan transaksi {} pada{:d%b%Y} sejumlah{}'.format(id_nasabahFK, jenis_transaksi, tanggal, jumlah))

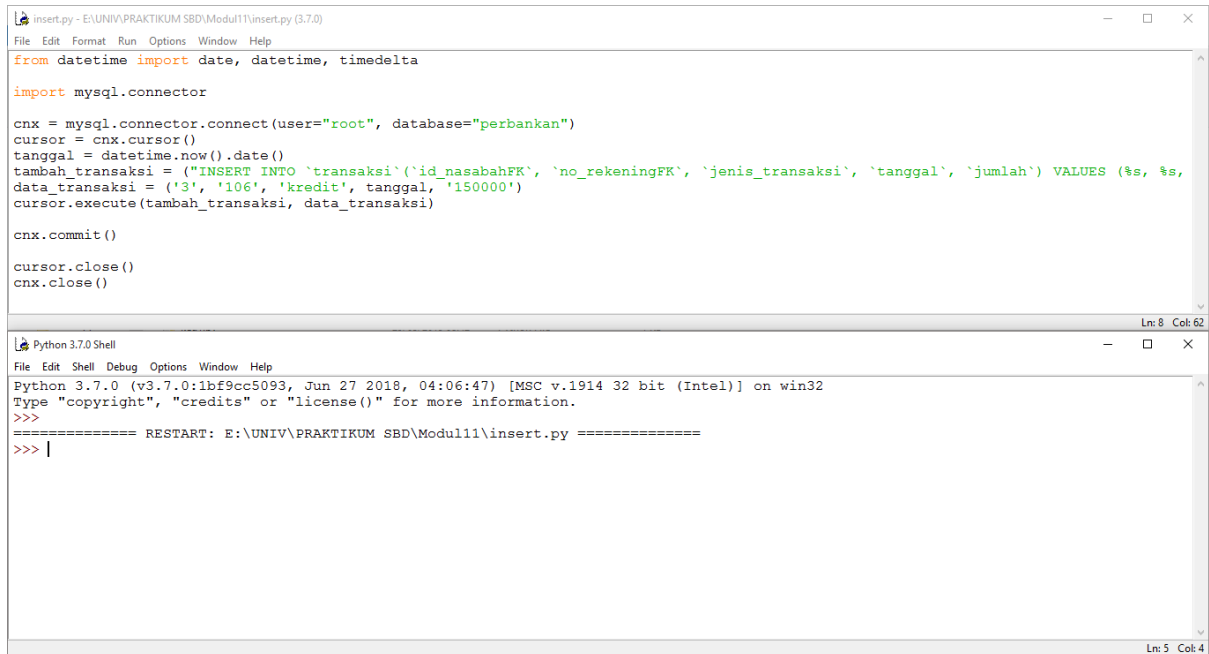
cursor.close()
cnx.close()
```

The execution output in the shell shows the script running successfully and displaying the following results:

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\keg2.py =====
Nasabah dengan ID 9 melakukan transaksi kredit pada29May2019 sejumlah50000
Nasabah dengan ID 3 melakukan transaksi kredit pada29May2019 sejumlah150000
Nasabah dengan ID 9 melakukan transaksi kredit pada29May2019 sejumlah50000
>>> |
```

# TUGAS

## 1. Insert



```
insert.py - E:\UNIV\PRAKTIKUM SBD\Modul11\insert.py (3.7.0)
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()
tambah_transaksi = ("INSERT INTO `transaksi`(`id_nasabahFK`, `no_rekeningFK`, `jenis_transaksi`, `tanggal`, `jumlah`) VALUES (%s, %s, %s, %s, %s)" % ('3', '106', 'kredit', tanggal, '150000'))
cursor.execute(tambah_transaksi, data_transaksi)

cnx.commit()

cursor.close()
cnx.close()

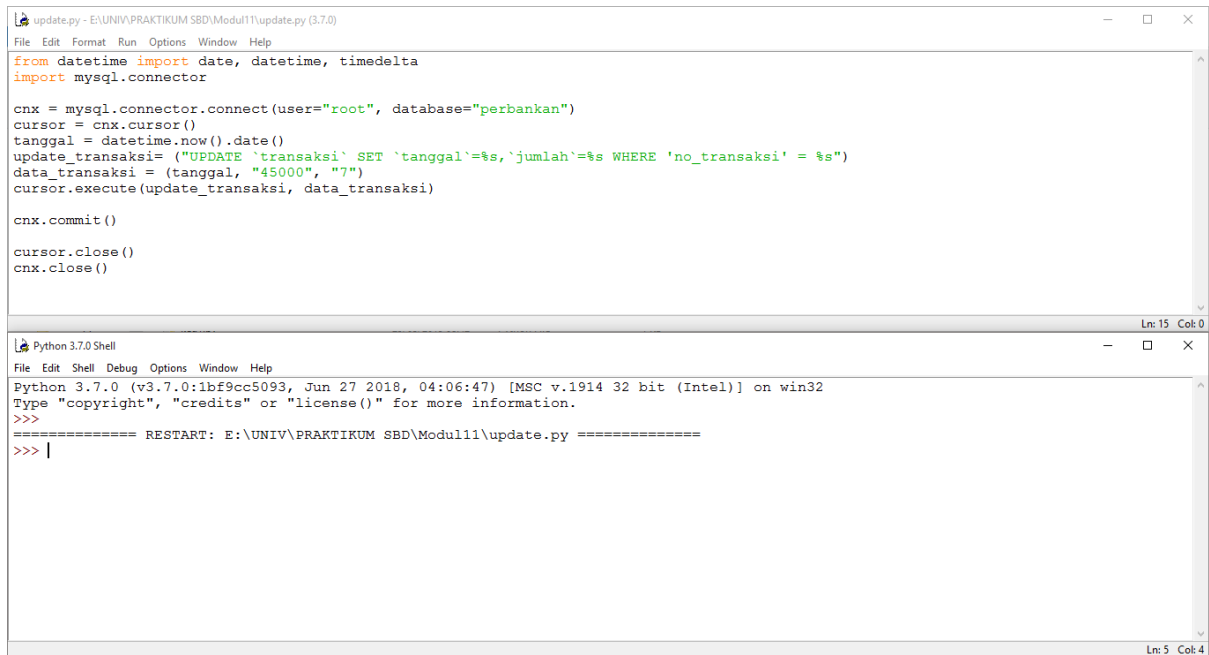
Ln: 8 Col: 62

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\insert.py =====
>>> |

Ln: 5 Col: 4
```

## Update



```
update.py - E:\UNIV\PRAKTIKUM SBD\Modul11\update.py (3.7.0)
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 `tanggal`=%s, `jumlah`=%s WHERE `no_transaksi` = %s")
data_transaksi = (tanggal, "45000", "7")
cursor.execute(update_transaksi, data_transaksi)

cnx.commit()

cursor.close()
cnx.close()

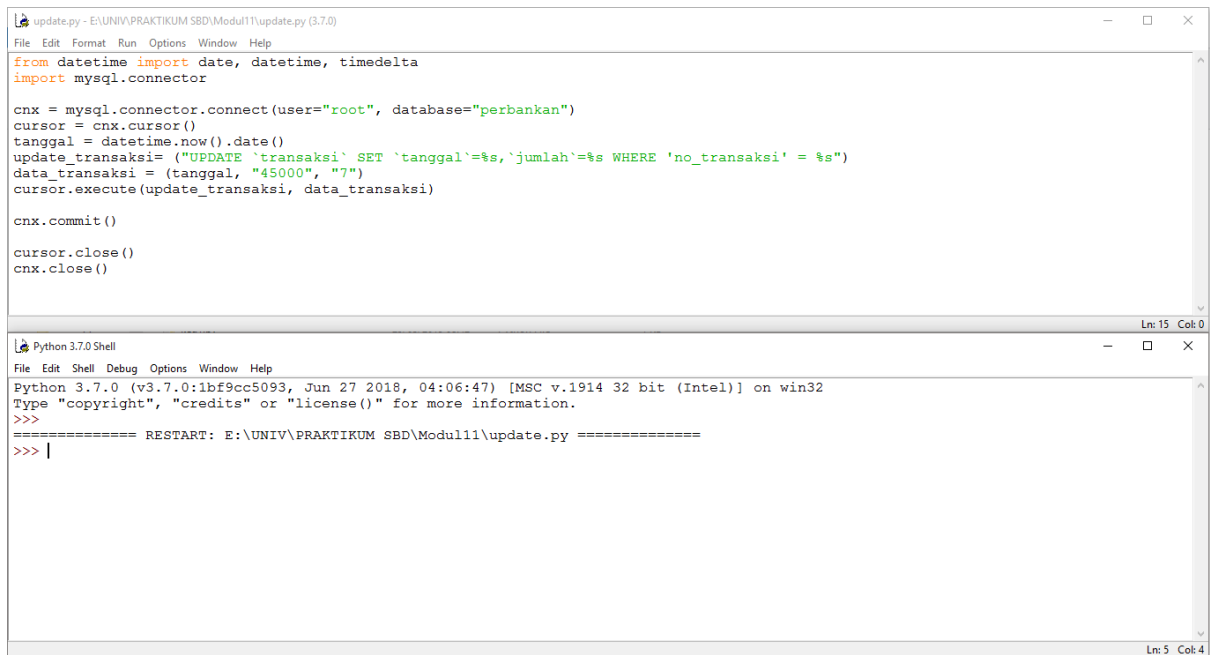
Ln: 15 Col: 0

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\update.py =====
>>> |

Ln: 5 Col: 4
```

## Delete



The screenshot shows a Python script named `update.py` and its execution in a Python 3.7.0 Shell. The script connects to a MySQL database named 'perbankan' using the 'root' user. It updates the 'tanggal' field of a transaction record with ID 7 to the current date. The output shows the script was restarted and executed successfully.

```
update.py - E:\UNIV\PRAKTIKUM SBD\Modul11\update.py (3.7.0)
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 `tanggal`=%s,`jumlah`=%s WHERE `no_transaksi` = %s")
data_transaksi = (tanggal, "45000", "7")
cursor.execute(update_transaksi, data_transaksi)

cnx.commit()

cursor.close()
cnx.close()

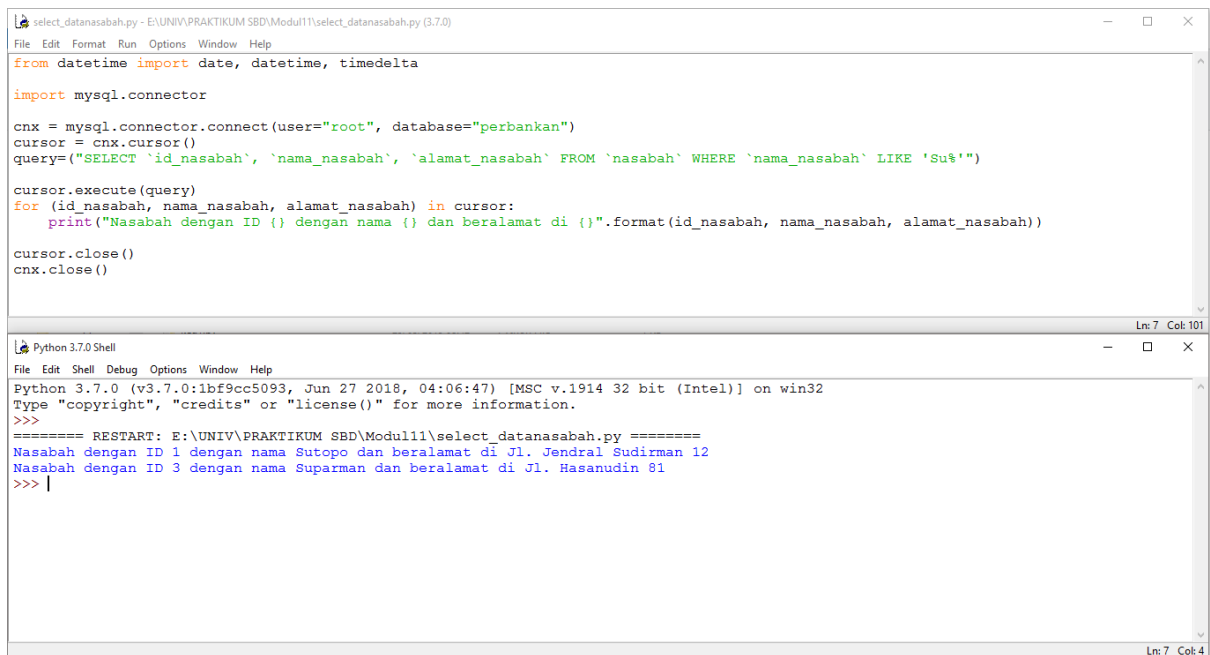
Ln: 15 Col: 0

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\update.py =====
>>> |

Ln: 5 Col: 4
```

## 2. Data Nasabah



The screenshot shows a Python script named `select_datanasabah.py` and its execution in a Python 3.7.0 Shell. The script connects to a MySQL database named 'perbankan' using the 'root' user. It queries the 'nasabah' table for records where the name starts with 'Su'. The output shows the script was restarted and executed successfully, displaying the results of the query.

```
select_datanasabah.py - E:\UNIV\PRAKTIKUM SBD\Modul11\select_datanasabah.py (3.7.0)
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()
query=("SELECT `id_nasabah`, `nama_nasabah`, `alamat_nasabah` FROM `nasabah` WHERE `nama_nasabah` LIKE 'Su%')

cursor.execute(query)
for (id_nasabah, nama_nasabah, alamat_nasabah) in cursor:
    print("Nasabah dengan ID {} dengan nama {} dan beralamat di {}".format(id_nasabah, nama_nasabah, alamat_nasabah))

cursor.close()
cnx.close()

Ln: 7 Col: 101

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\select_datanasabah.py =====
Nasabah dengan ID 1 dengan nama Sutopo dan beralamat di Jl. Jendral Sudirman 12
Nasabah dengan ID 3 dengan nama Suparman dan beralamat di Jl. Hasanudin 81
>>> |

Ln: 7 Col: 4
```

## Data Transaksi dari bulan oktober – desember

```
select_datanasabah_bulan.py - E:\UNIV\PRAKTIKUM SBD\Modul11\select_datanasabah_bulan.py (3.7.0)
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()
tambah_transaksi = ("SELECT nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.tanggal, transaksi.jumlah FROM nasabah, transa
cursor.execute(tambah_transaksi)

for (nama_nasabah, jenis_transaksi, tanggal, jumlah) in cursor:
    print("Nasabah dengan nama {} jenis transaksi {} tanggal {:d%b%Y} jumlah {}".format(nama_nasabah, jenis_transaksi, tanggal, jumlah))

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

Ln: 15 Col: 0

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
アプレ
===== RESTART: E:\UNIV\PRAKTIKUM SBD\Modul11\select_datanasabah_bulan.py =====
Nasabah dengan nama Suparman jenis transaksi debit tanggal 10Nov2009 jumlah 50000
Nasabah dengan nama Maryati jenis transaksi debit tanggal 10Nov2009 jumlah 40000
Nasabah dengan nama Kartika Padmasari jenis transaksi kredit tanggal 12Nov2009 jumlah 20000
Nasabah dengan nama Suparman jenis transaksi debit tanggal 13Nov2009 jumlah 50000
Nasabah dengan nama Budi Eko Prayogo jenis transaksi kredit tanggal 13Nov2009 jumlah 30000
Nasabah dengan nama Sutopo jenis transaksi kredit tanggal 15Nov2009 jumlah 200000
Nasabah dengan nama Canka Lokananta jenis transaksi kredit tanggal 15Nov2009 jumlah 150000
Nasabah dengan nama Kartika Padmasari jenis transaksi debit tanggal 16Nov2009 jumlah 20000
Nasabah dengan nama Kartika Padmasari jenis transaksi debit tanggal 19Nov2009 jumlah 100000
Nasabah dengan nama Maryati jenis transaksi debit tanggal 19Nov2009 jumlah 100000
Nasabah dengan nama Sutopo jenis transaksi debit tanggal 19Nov2009 jumlah 50000
Nasabah dengan nama Kartika Padmasari jenis transaksi kredit tanggal 20Nov2009 jumlah 200000
Nasabah dengan nama Suparman jenis transaksi debit tanggal 21Nov2009 jumlah 40000
Nasabah dengan nama Sutopo jenis transaksi kredit tanggal 22Nov2009 jumlah 100000
Nasabah dengan nama Kartika Padmasari jenis transaksi kredit tanggal 22Nov2009 jumlah 20000
```

Ln: 21 Col: 72