

Nama : Aprinta Sewelastami

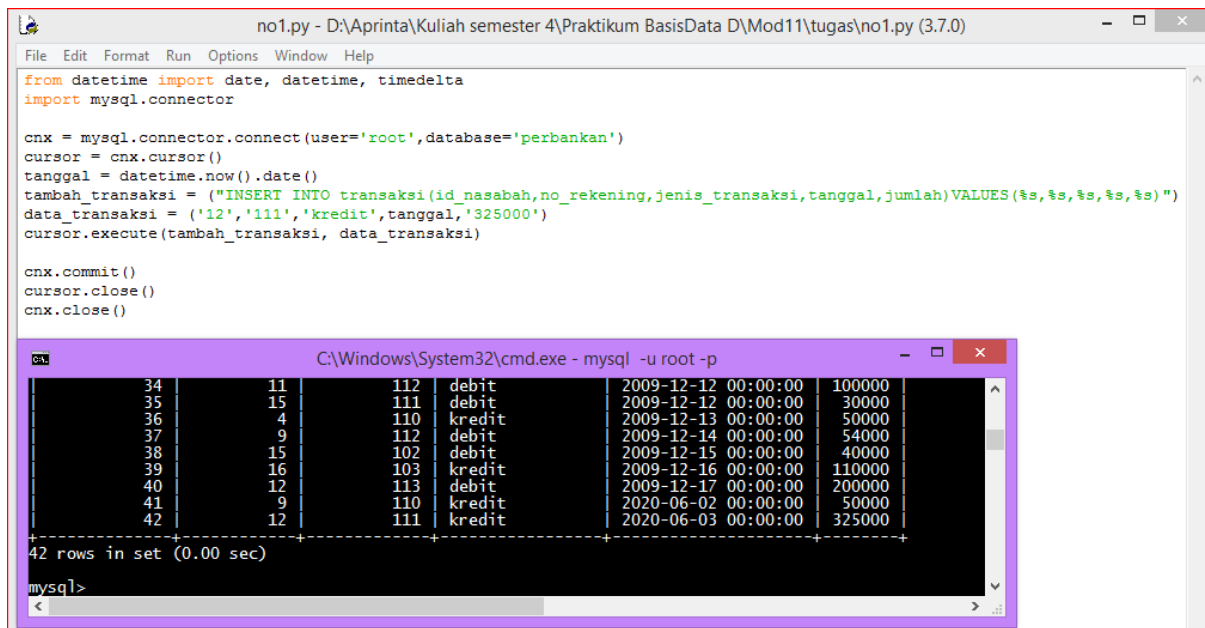
NIM : L200180088

Kelas : D

MODUL 11

MySQL dan Python

1. Buat kode program python untuk melakukan perintah INSERT, UPDATE, dan DELETE pada data transaksi
 - INSERT



The image shows a Python script in a text editor and its execution output in a terminal window. The script connects to a MySQL database, inserts a new transaction, and then displays the current state of the 'transaksi' table.

```
no1.py - D:\Aprinta\Kuliah semester 4\Praktikum BasisData D\Mod11\tugas\n01.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_nasabah, no_rekening, jenis_transaksi, tanggal, jumlah) VALUES (%s, %s, %s, %s, %s)")
data_transaksi = ('12', '111', 'kredit', tanggal, '325000')
cursor.execute(tambah_transaksi, data_transaksi)

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

Output from MySQL command line:

```
C:\Windows\System32\cmd.exe - mysql -u root -p
+-----+-----+-----+-----+-----+-----+
34 |      11 |      112 | debit | 2009-12-12 00:00:00 | 100000 |
35 |      15 |      111 | debit | 2009-12-12 00:00:00 | 30000  |
36 |       4 |      110 | kredit | 2009-12-13 00:00:00 | 50000  |
37 |       9 |      112 | debit | 2009-12-14 00:00:00 | 54000  |
38 |      15 |      102 | debit | 2009-12-15 00:00:00 | 40000  |
39 |      16 |      103 | kredit | 2009-12-16 00:00:00 | 110000 |
40 |      12 |      113 | debit | 2009-12-17 00:00:00 | 200000 |
41 |       9 |      110 | kredit | 2020-06-02 00:00:00 | 50000  |
42 |      12 |      111 | kredit | 2020-06-03 00:00:00 | 325000 |
+-----+-----+-----+-----+-----+
42 rows in set (0.00 sec)

mysql>
```

- UPDATE

no2.py - D:/Aprinta/Kuliah semester 4/Praktikum BasisData D/Mod11/tugas/no2.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 jumlah = 233000 WHERE no_transaksi = 42")
cursor.execute(update_transaksi)

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

C:\Windows\System32\cmd.exe - mysql -u root -p

34	11	112	debit	2009-12-12 00:00:00	100000
35	15	111	debit	2009-12-12 00:00:00	30000
36	4	110	kredit	2009-12-13 00:00:00	50000
37	9	112	debit	2009-12-14 00:00:00	54000
38	15	102	debit	2009-12-15 00:00:00	40000
39	16	103	kredit	2009-12-16 00:00:00	110000
40	12	113	debit	2009-12-17 00:00:00	200000
41	9	110	kredit	2020-06-02 00:00:00	50000
42	12	111	kredit	2020-06-03 00:00:00	233000

42 rows in set (0.00 sec)

mysql>

- DELETE

no3.py - D:/Aprinta/Kuliah semester 4/Praktikum BasisData D/Mod11/tugas/no3.py (3.7.0)

```
File Edit Format Run Options Window Help
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
delete_transaksi = ("DELETE FROM transaksi WHERE no_transaksi = 42")
cursor.execute(delete_transaksi)

cnx.commit()
print(cursor.rowcount, "Record(s) deleted")
cursor.close()
cnx.close()
```

Python 3.7.0 Shell

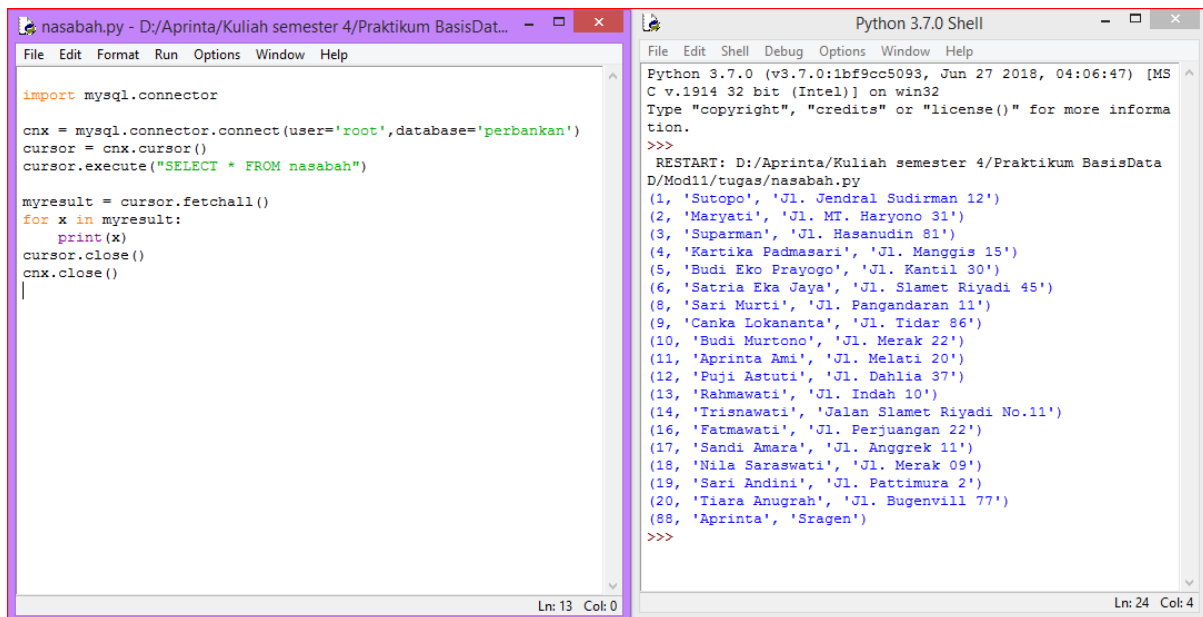
```
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:/Aprinta/Kuliah semester 4/Praktikum BasisData D/Mod11/tugas/no3.py
1 Record(s) deleted
```

C:\Windows\System32\cmd.exe - mysql -u root -p

22	3	105	kredit	2009-11-28 00:00:00	100000
23	5	102	debit	2009-11-30 00:00:00	20000
24	1	104	debit	2009-12-01 00:00:00	250000
25	2	103	debit	2009-12-02 00:00:00	40000
26	4	101	debit	2009-12-04 00:00:00	50000
27	2	103	kredit	2009-12-05 00:00:00	100000
28	5	102	kredit	2009-12-05 00:00:00	200000
29	6	109	debit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 00:00:00	20000
31	8	110	debit	2009-12-10 00:00:00	50000
32	12	105	kredit	2009-12-10 00:00:00	45000
33	15	113	debit	2009-12-11 00:00:00	70000

2. Buatlah kode program python untuk mendapatkan :

a. Data nasabah



The screenshot shows two windows. The left window is a text editor named 'nasabah.py' containing the following Python code:

```
import mysql.connector

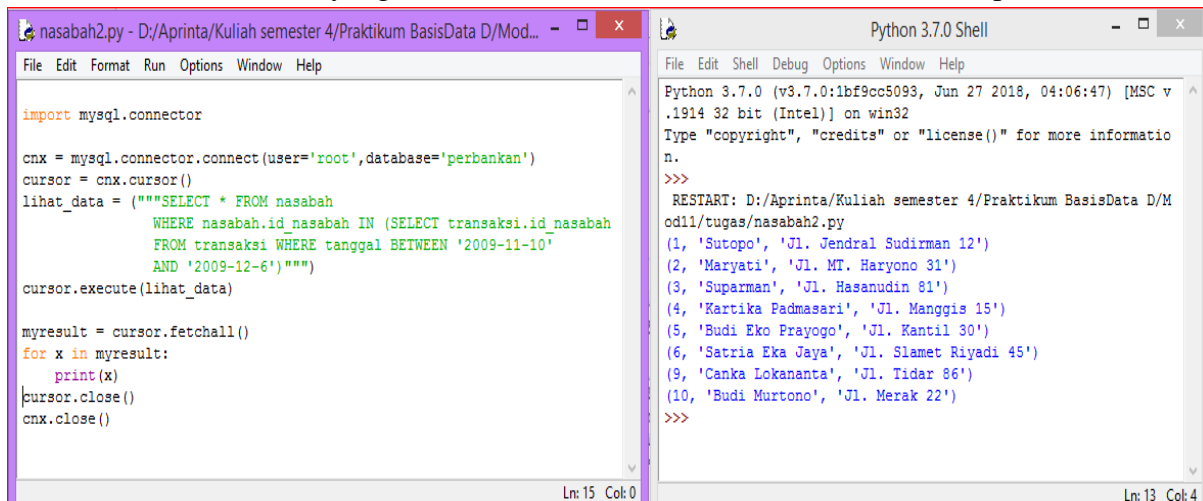
cnx = mysql.connector.connect(user='root',database='perbankan')
cursor = cnx.cursor()
cursor.execute("SELECT * FROM nasabah")

myresult = cursor.fetchall()
for x in myresult:
    print(x)
cursor.close()
cnx.close()
```

The right window is the 'Python 3.7.0 Shell' showing the output of the script. It displays a list of 20 customer records, each as a tuple of (ID, Name, Address).

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MS
C v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more informa
tion.
>>>
RESTART: D:/Aprinta/Kuliah semester 4/Praktikum BasisData
D/Mod11/tugas/nasabah.py
(1, 'Sutopo', 'Jl. Jendral Sudirman 12')
(2, 'Maryati', 'Jl. MT. Haryono 31')
(3, 'Superman', 'Jl. Hasanudin 81')
(4, 'Kartika Padmasari', 'Jl. Manggis 15')
(5, 'Budi Eko Prayogo', 'Jl. Kantil 30')
(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45')
(8, 'Sari Murti', 'Jl. Pangandaran 11')
(9, 'Canka Lokananta', 'Jl. Tidar 86')
(10, 'Budi Murtono', 'Jl. Merak 22')
(11, 'Aprinta Ami', 'Jl. Melati 20')
(12, 'Puji Astuti', 'Jl. Dahlia 37')
(13, 'Rahmawati', 'Jl. Indah 10')
(14, 'Trisnawati', 'Jalan Slamet Riyadi No.11')
(16, 'Fatmawati', 'Jl. Perjuangan 22')
(17, 'Sandi Amara', 'Jl. Anggrek 11')
(18, 'Nila Saraswati', 'Jl. Merak 09')
(19, 'Sari Andini', 'Jl. Pattimura 2')
(20, 'Tiara Anugrah', 'Jl. Bugenvill 77')
(88, 'Aprinta', 'Sragen')
>>>
```

b. Data nasabah yang melakukan transaksi antara bulan oktober sampai desember



The screenshot shows two windows. The left window is a text editor named 'nasabah2.py' containing the following Python code:

```
import mysql.connector

cnx = mysql.connector.connect(user='root',database='perbankan')
cursor = cnx.cursor()
lihat_data = """SELECT * FROM nasabah
                WHERE nasabah.id_nasabah IN (SELECT transaksi.id_nasabah
                FROM transaksi WHERE tanggal BETWEEN '2009-11-10'
                AND '2009-12-6')"""
cursor.execute(lihat_data)

myresult = cursor.fetchall()
for x in myresult:
    print(x)
cursor.close()
cnx.close()
```

The right window is the 'Python 3.7.0 Shell' showing the output of the script. It displays a list of 10 customer records, each as a tuple of (ID, Name, Address).

```
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 informatio
n.
>>>
RESTART: D:/Aprinta/Kuliah semester 4/Praktikum BasisData D/M
od11/tugas/nasabah2.py
(1, 'Sutopo', 'Jl. Jendral Sudirman 12')
(2, 'Maryati', 'Jl. MT. Haryono 31')
(3, 'Superman', 'Jl. Hasanudin 81')
(4, 'Kartika Padmasari', 'Jl. Manggis 15')
(5, 'Budi Eko Prayogo', 'Jl. Kantil 30')
(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45')
(9, 'Canka Lokananta', 'Jl. Tidar 86')
(10, 'Budi Murtono', 'Jl. Merak 22')
>>>
```