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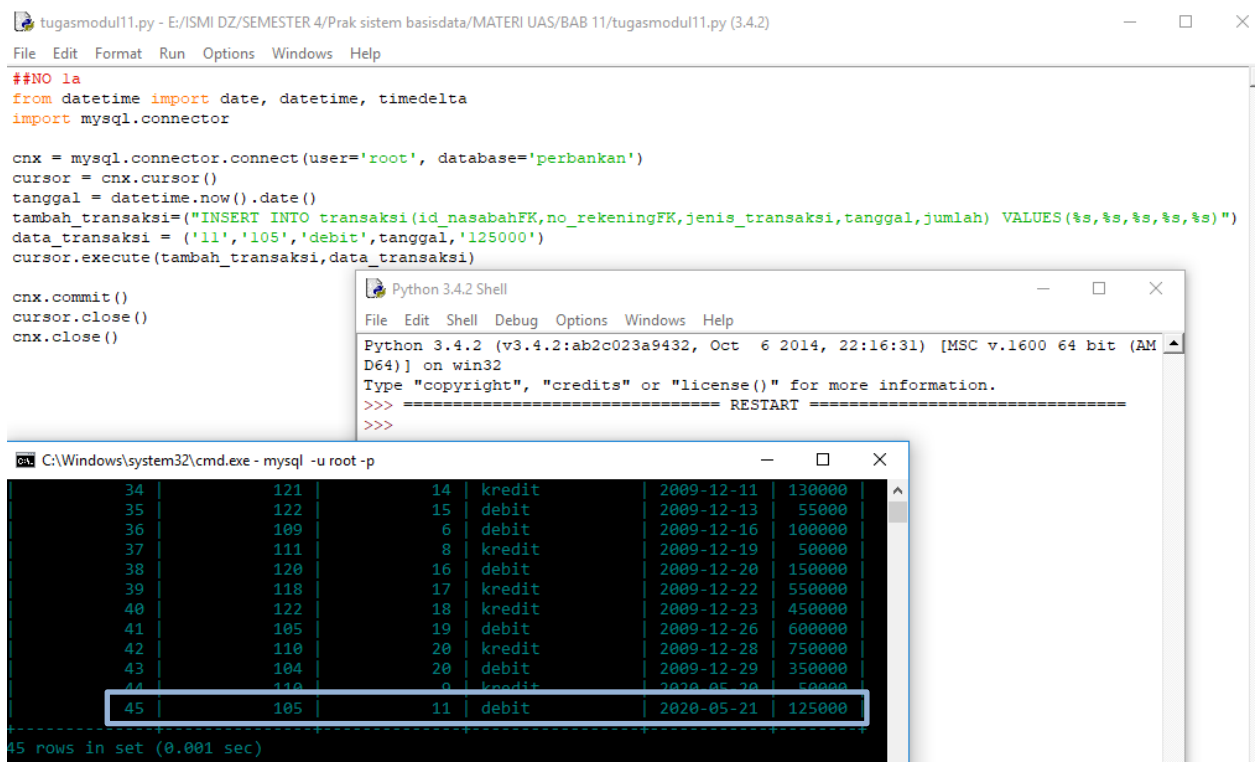
Matkul : Praktikum Sistem Basis Data

TUGAS MODUL 11

MYSQL DAN PYTHON

1. Melakukan perintah INSERT, UPDATE, dan DELETE pada data transaksi

a. INSERT



```
tugasmodul11.py - E:/ISMI DZ/SEMESTER 4/Prak sistem basisdata/MATERI UAS/BAB 11/tugasmodul11.py (3.4.2)
File Edit Format Run Options Windows Help

##NO 1a
from datetime import date, datetime, timedelta
import mysql.connector

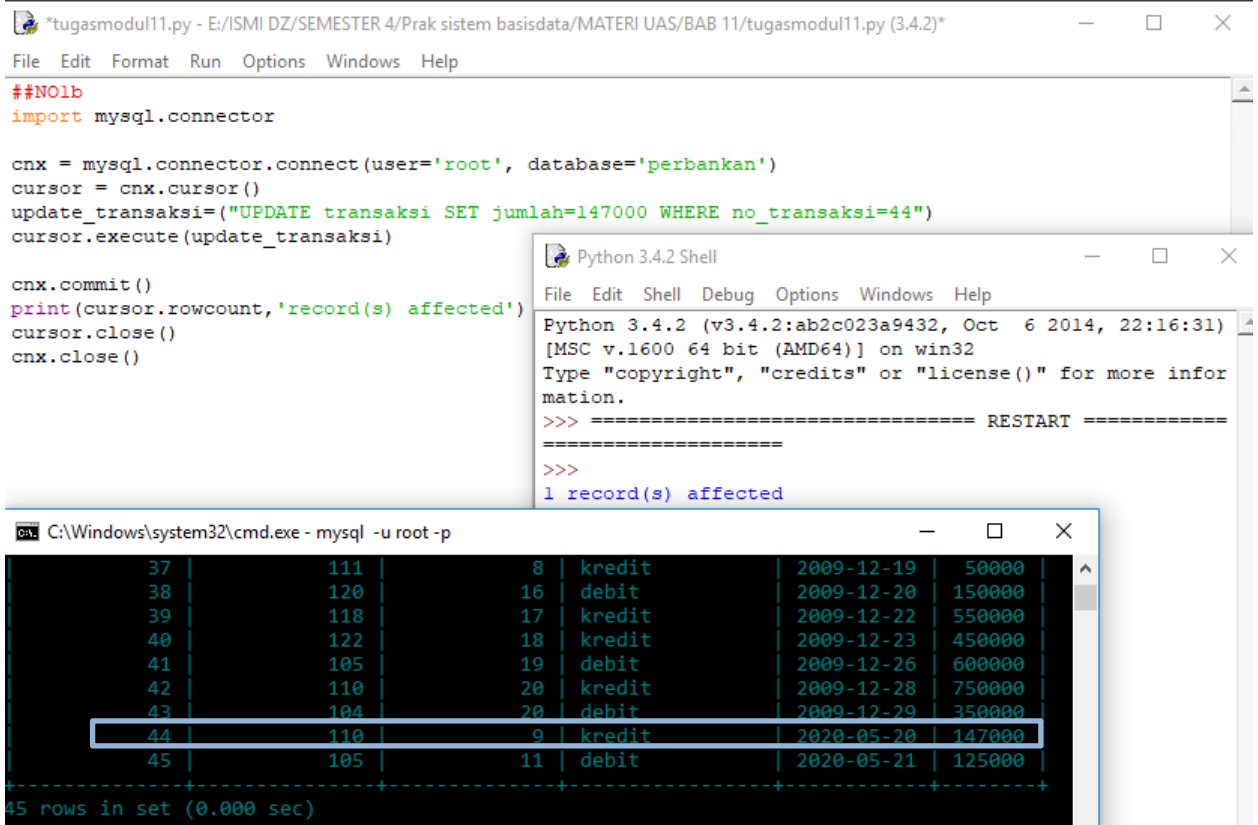
cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
tambah_transaksi = ("INSERT INTO transaksi(id_nasabahFK,no_rekeningFK,jenis_transaksi,tanggal,jumlah) VALUES(%s,%s,%s,%s,%s)")
data_transaksi = ('11','105','debit',tanggal,'125000')
cursor.execute(tambah_transaksi,data_transaksi)

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

```
Python 3.4.2 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
+----+-----+-----+-----+-----+-----+
34 |      | 121 |      | 14 | kredit | 2009-12-11 | 130000 |
35 |      | 122 |      | 15 | debit  | 2009-12-13 | 55000  |
36 |      | 109 |      | 6  | debit  | 2009-12-16 | 100000 |
37 |      | 111 |      | 8  | kredit | 2009-12-19 | 50000  |
38 |      | 120 |      | 16 | debit  | 2009-12-20 | 150000 |
39 |      | 118 |      | 17 | kredit | 2009-12-22 | 550000 |
40 |      | 122 |      | 18 | kredit | 2009-12-23 | 450000 |
41 |      | 105 |      | 19 | debit  | 2009-12-26 | 600000 |
42 |      | 110 |      | 20 | kredit | 2009-12-28 | 750000 |
43 |      | 104 |      | 20 | debit  | 2009-12-29 | 350000 |
44 |      | 110 |      | 0  | kredit | 2020-05-20 | 50000  |
45 |      | 105 |      | 11 | debit  | 2020-05-21 | 125000 |
+----+-----+-----+-----+-----+
45 rows in set (0.001 sec)
```

b. UPDATE



The screenshot displays three windows related to a database update operation:

- Python Script (*tugasmodul11.py):** Contains the following code:

```
##NO1b
import mysql.connector

cnx = mysql.connector.connect(user='root', database='perbankan')
cursor = cnx.cursor()
update_transaksi = ("UPDATE transaksi SET jumlah=147000 WHERE no_transaksi=44")
cursor.execute(update_transaksi)

cnx.commit()
print(cursor.rowcount, 'record(s) affected')
cursor.close()
cnx.close()
```
- Python 3.4.2 Shell:** Shows the execution output:

```
Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31)
[MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
1 record(s) affected
```
- MySQL Command Prompt (cmd.exe - mysql -u root -p):** Displays a table of transactions with 45 rows. Row 44 is highlighted, showing the update result.

37	111	8	kredit	2009-12-19	50000
38	120	16	debit	2009-12-20	150000
39	118	17	kredit	2009-12-22	550000
40	122	18	kredit	2009-12-23	450000
41	105	19	debit	2009-12-26	600000
42	110	20	kredit	2009-12-28	750000
43	104	20	debit	2009-12-29	350000
44	110	9	kredit	2020-05-20	147000
45	105	11	debit	2020-05-21	125000

45 rows in set (0.000 sec)

c. DELETE

```
tugasmodul11.py - E:/ISMI DZ/SEMESTER 4/Prak sistem basisdata/MATERI UAS/BAB 11/tugasmodul11.p...
File Edit Format Run Options Windows Help

##NO 1c
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 3.4.2 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31) [MSC v.1600
D64] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
1 record(s) deleted
>>>
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p

+-----+-----+-----+-----+
36 |      109 |      6 | debit | 2009-12-16 | 100000 |
37 |      111 |      8 | kredit | 2009-12-19 | 50000 |
38 |      120 |     16 | debit | 2009-12-20 | 150000 |
39 |      118 |     17 | kredit | 2009-12-22 | 550000 |
40 |      122 |     18 | kredit | 2009-12-23 | 450000 |
41 |      105 |     19 | debit | 2009-12-26 | 600000 |
43 |      104 |     20 | debit | 2009-12-29 | 350000 |
44 |      110 |      9 | kredit | 2020-05-20 | 147000 |
45 |      105 |     11 | debit | 2020-05-21 | 125000 |
+-----+-----+-----+-----+
44 rows in set (0.000 sec)
```

2. Membuat kode python untuk mendapatkan :

a. Data nasabah

```
*tugasmodul11.py - E:/ISMI DZ/SEMESTER 4/Prak sistem basisdata/MATERI UAS/BAB 11/tugasmodul11.py
File Edit Format Run Options Windows Help

##NO2a
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()
```

```
Python 3.4.2 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 12:06:44) on win32
Type "copyright", "credits" or "license()" for more
>>> ===== RESTART =====
>>>
(1, 'sutopo', 'Jl. jendral sudirman 12')
(2, 'maryati', 'Jl. MT. Haryono 31')
(3, 'suparman', 'Jl. hasanudin 81')
(4, 'kartika padmasari', 'Jl. manggis 1')
(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. pangandaran 11')
(9, 'canka lokananta', 'Jl. tidar 86')
(10, 'budi murtono', 'Jl. merak 22')
(11, 'santi indah', 'Jl. Permai 15')
(12, 'Safiqah ', 'Jl. Kemasan jaya')
(13, 'Abdurrozaq', 'Jl. Candan 71')
(14, 'Khoirus Fauzi', 'Jl. Kenanga 14A')
(15, 'Andra', 'Jl. Mawar 41B')
(16, 'Mukhlis', 'Jl. Sananwetan 12B')
(17, 'Zahira', 'Jl. Sakti 12D')
(18, 'Alifah', 'Jl. Joho 45')
(19, 'Nalita', 'Jl. Cakra tengah 8')
(20, 'Desta', 'Jl. Sidan 46')
(30, 'susi', 'solo')
```

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

```
tugasmodul11.py - E:/ISMI DZ/SEMESTER 4/Prak sistem basisdata/MATERI UAS/BAB 11/tugasmodul11.py
File Edit Format Run Options Windows Help

##NO2b
import mysql.connector

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

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

```
Python 3.4.2 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31)
D64) on win32
Type "copyright", "credits" or "license()" for more
>>> ===== RESTART =====
>>>
(1, 'sutopo', 'Jl. jendral sudirman 12')
(2, 'maryati', 'Jl. MT. Haryono 31')
(3, 'suparman', 'Jl. hasanudin 81')
(4, 'kartika padmasari', 'Jl. manggis 1')
(5, 'budi eko prayogo', 'Jl. kanti 30')
(7, 'Indri Hapsari', 'Jl. Sutoyo 5')
(9, 'canka lokananta', 'Jl. tidar 86')
(10, 'budi murtono', 'Jl. merak 22')
>>> |
```

Catatan:

Pada bulan oktober tidak melakukan transaksi sehingga mulai dari bulan November.