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# 1. Install connectore mysql sesuai versi python

### 2. Cek import mysql.connector

```
- - X
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 cmd

```
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 |
50000 |
33 |
40000 |
                                  3 !
                                                    105 | debit
                                                                               : 2009-11-10 00:
00:00 ¦
                                   2 |
                                                    103 | debit
                                                                               1 2009-11-10 00:
00:00 :
                                   4 :
                                                    101 | kredit
                                                                               1 2009-11-12 00:
               34 l
            20000 1
00:00 ¦
              35 |
                                   3 1
                                                    106 | debit
                                                                               | 2009-11-13 00:
            50000 ¦
00:00 ¦
            36 ¦
30000 ¦
                                   5 1
                                                    107 | kredit
                                                                               : 2009-11-13 00:
00:00 ¦
               37 |
                                   1 !
                                                    104 | kredit
                                                                               | 2009-11-15 00:
00:00 |
           200000 :
               38 1
                                   9 1
                                                    110 | kredit
                                                                               : 2009-11-15 00:
           150000 |
ดด:ดด :
            39 ¦
20000 ¦
                                   5 1
                                                    102 | debit
                                                                               1 2009-11-16 00:
00:00 ¦
                                   3 !
                                                    105 | kredit
                                                                               1 2009-11-18 00:
               40 ¦
00:00 ¦
            50000 1
               41 |
                                   4 !
                                                    107 | debit
                                                                               | 2009-11-19 00:
           100000 :
00:00 |
           42 |
100000 |
                                                    103 | debit
                                   2 |
                                                                               | 2009-11-19 00:
00:00 l
                                   1 1
                                                    104 | debit
                                                                               1 2009-11-19 00:
               43 |
00:00 ¦
            50000 1
               44 :
                                   4 1
                                                    107 | kredit
                                                                               1 2009-11-20 00:
           200000 |
45 |
40000 |
00:00 :
                                   3 !
                                                    105 | debit
                                                                               | 2009-11-21 00
00:00 ¦
                                                                               1 2009-11-22 00:
               46 !
                                   1 |
                                                    104 | kredit
```

101 | kredit

1 2009-11-22 00:

00:00 |

00:00 :

100000 | 47 |

20000 1

4 !

## **TUGAS**

# 1.

## Insert transaksi

```
modul10.py - G:\titip ati ya pritttt\modul10.py (2.7.14)
                                                                                    × Python 2.7.14 Shell
                                                                                                                                  File Edit Format Run Options Window Help
                                                                                        File Edit Shell Debug Options Window Help
from datetime import date, datetime, timedelta
                                                                                        Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017
                                                                                       , 20:19:30) [MSC v.1500 32 bit (Intel)] on win 32
import mysql.connector
##cnx = mysql.connector.connect(user='root',database='perbankan')
                                                                                       Type "copyright", "credits" or "license()" for
##cursor = cnx.cursor()
##tanggal = datetime.now().date()
##update_transaksi = ("update transaksi\
## set jumlah ='20000'\
## where no_transaksi = 35")
                                                                                        more information.
                                                                                        ttt\modul10.py ======
                                                                                        >>>
##cursor.execute(update_transaksi)
##cnx.commit()
##cursor.close()
##cnx.close()
##from datetime import date, datetime, timedelta
##import mysql.connector
con = mysql.connector.connect(user='root',database='perbankan')
cursor = con.cursor()
tanggal = datetime.now().date()
tambah_transaksi = ('INSERT INTO transaksi VALUES (%s, %s, %s, %s, %s, %s)')
data_transaksi = ('','26','150','kredit',tanggal, '70000')
cursor.execute(tambah_transaksi, data_transaksi)
cursor.close()
con.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								
+	÷Τ	<b>→</b>		$\nabla$	id_nasabah	nama_nasabah	alamat_nasabah	
(			<b>≩</b> Copy	Delete	1	Sutopo	Jl. Jendral Sudirman 12	
(			<b>≩</b> • Сору	Delete	2	anggi	Jl. MT. Haryono 31	
(			<b>≩</b> Copy	Delete	3	Suparman	Jl. Hasanudin 81	
(		Ø Edit	<b>≩</b> Copy	Delete	4	Kartika Padmasari	Jl. Manggis 15	
(			<b>≩</b> Copy	Delete	5	Budi Eko Prayogo	Jl. Kantil 30	
(		Ø Edit	<b>≩</b> Copy	Delete	6	Satria Eka Jaya	Jl. Slamet Riyadi 45	
(		Ø Edit	<b>≩</b> Copy	Delete	7	Indri Hapsari	Jl. Sutoyo 5	
(		Ø Edit	<b>≩</b> Сору	Delete	8	Sari Murti	Jl. Pangandaran 11	
(		Ø Edit	<b>≩</b>	Delete	9	Canka Lokananta	Jl. Tidar 86	
(		Ø Edit	<b>≩</b> Copy	Delete	10	Budi Murtono	Jl. Merak 22	
(		Ø Edit	<b>≩</b> Copy	Delete	11	Joko Ndo Kondo	Jl. Bareng jadian kagak	
(		Ø Edit	<b>≩</b> сору	Delete	12	Jon Koplo	Jl. Angin Besar 12	
)=p	erba	nkan&tal	ble=nasaba	h_has_rek	13	Anggit	Solo	

# Update transaksi

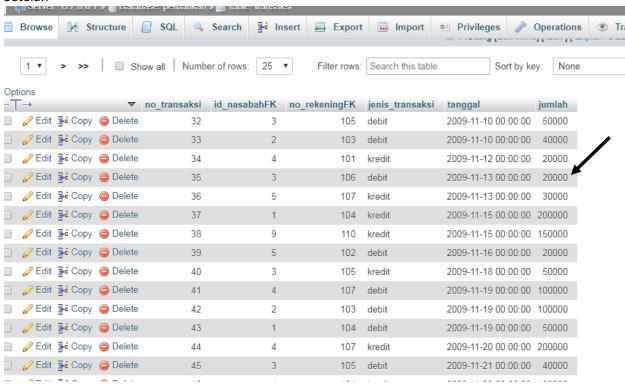
```
X
*modul10.py - G:\titip ati ya pritttt\modul10.py (2.7.14)*
File Edit Format Run Options Window Help
from datetime import date, datetime, timedelta
import mysql.connector
cnx = mysql.connector.connect(user='root',database='perbankan')
cursor = cnx.cursor()
tanggal = datetime.now().date()
update 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
##con = mysql.connector.connect(user='root',database='perbankan')
##cursor = con.cursor()
##tanggal = datetime.now().date()
##tambah transaksi = ('INSERT INTO transaksi VALUES (%s, %s, %s, %s, %s, %s)
##
##data transaksi = ('','26','150','kredit',tanggal, '70000')
##cursor.execute(tambah transaksi, data transaksi)
##
##con.commit()
##cursor.close()
##con.close()
```

### Hasil

## sebelum

Opti	ons								
←Τ	<b>→</b>		$\nabla$	no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
	🥒 Edit	<b>≩-</b> Сору	Delete	32	3	105	debit	2009-11-10 00:00:00	50000
		<b>≩</b> е́ Сору	Delen	33	2	103	debit	2009-11-10 00:00:00	40000
	🥒 Edit	<b>≩-</b> Сору	Delete	34	4	101	kredit	2009-11-12 00:00:00	20000
	Ø Edit	<b>≩-</b> Сору	Delete	35	3	106	debit	2009-11-13 00:00:00	50000
	🥒 Edit	<b>≩-</b> Сору	Delete	36	5	107	kredit	2009-11-13 00:00:00	30000
	Ø Edit	<b>≩</b> сору	Delete	37	1	104	kredit	2009-11-15 00:00:00	200000
	🥒 Edit	<b>≩-</b> Сору	Delete	38	9	110	kredit	2009-11-15 00:00:00	150000
	Ø Edit	<b>≩</b> сору	Delete	39	5	102	debit	2009-11-16 00:00:00	20000
	Ø Edit	<b>≩-</b> Сору	Delete	40	3	105	kredit	2009-11-18 00:00:00	50000
	Ø Edit	<b>≩-</b> Сору	Delete	41	4	107	debit	2009-11-19 00:00:00	100000
	🥒 Edit	<b>≩-</b> Сору	Delete	42	2	103	debit	2009-11-19 00:00:00	100000
	Ø Edit	<b>≩</b> сору	Delete	43	1	104	debit	2009-11-19 00:00:00	50000
	<i> </i>	<b>≩-</b> Сору	Delete	44	4	107	kredit	2009-11-20 00:00:00	200000
	Ø Edit	<b>≩-</b> Сору	Delete	45	3	105	debit	2009-11-21 00:00:00	40000
	Ø Edit	<b>≩-</b> Сору	Delete	46	1	104	kredit	2009-11-22 00:00:00	100000
Co	nsole	<b>≩</b> сору	Delete	47	4	101	kredit	2009-11-22 00:00:00	20000

#### Setelah



## delete transaksi

```
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 = 32')
cursor.execute(delete_transaksi)
cnx.commit()
cursor.close()
cnx.close()
```

#### Hasil

-1	$\rightarrow$		$\nabla$	no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	ta
	🥜 Edit	<b>≩-</b> Сору	Delete	33	2	103	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	34	4	101	kredit	20
		<b>≩</b> Copy	Delete	35	3	106	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	36	5	107	kredit	20
		<b>≩-</b> Сору	Delete	37	1	104	kredit	20
	Ø Edit	<b>≩</b> • Сору	Delete	38	9	110	kredit	20
	Ø Edit	<b>≩-</b> Сору	Delete	39	5	102	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	40	3	105	kredit	20
	Ø Edit	<b>≩</b> Copy	Delete	41	4	107	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	42	2	103	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	43	1	104	debit	20
	Ø Edit	<b>≩</b> Copy	Delete	44	4	107	kredit	20
	Ø Edit	<b>≩-i</b> Copy	Delete	45	3	105	debit	20
	Ø Edit	<b>≩-</b> Сору	Delete	46	1	104	kredit	20
		_	Delete	47	4	101	kredit	20
C	onsole	<b>≩</b>	Delete	48	2	103	debit	20

## 2. Buatlah kode program python untuk mendapat

a. Data Nasabah

```
nasabah1.py - G:/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 2.7.14 Shell
                                                                           Х
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: G:/titip ati ya pritttt/nasabahl.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. Hasannudin 81
ID nasabah :4 , Nama: Kartika Padmasari ,alamat:Jl. Manggis 15
ID nasabah :5 , Nama: Budi Eko Prayogo ,alamat:Jl. Kantil 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: Canka Lokananta ,alamat:Jl. Tidar 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
from 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()
---- RESTART: D:\semesterf\praktikum basis data\sbd modull1\nasabah2.py
ID nasabah :3 ,Nama: Suparman ,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: Suparman ,tanggal:2009-11-13 00:00:00
ID masabah :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: Suparman ,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 masabah :3 ,Nama: Suparman ,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: Suparman ,tanggal:2009-11-27 00:00:00
ID nasabah :2 ,Nama: Maryati ,tanggal:2009-11-28 00:00:00
```

ID nasabah :3 ,Nama: Suparman ,tanggal:2009-11-28 00:00:00
ID nasabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-11-30 00:00:00

ID nasabah :4 ,Nama: Kartika Padmasari ,tanggal:2009-12-04 00:00:00

ID masabah :5 ,Nama: Budi Eko Prayogo ,tanggal:2009-12-05 00:00:00 ID masabah :7 ,Nama: Indri Hapsari ,tanggal:2009-12-05 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 :2 , Nama: Maryati , tanggal:2009-12-05 00:00:00