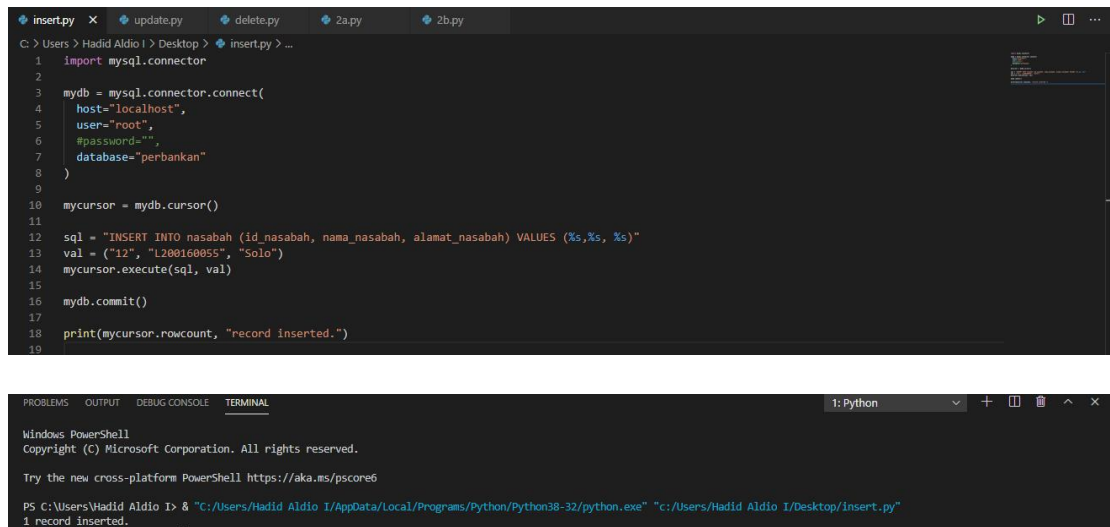# TUGAS PRAKTIKUM
SISTEM BASIS DATA
MODUL 11. MYSQL DAN PYTHON

Nama   : Hadid Aldio Indratama
NIM   : L200160055
Kelas   : A

D. Tugas

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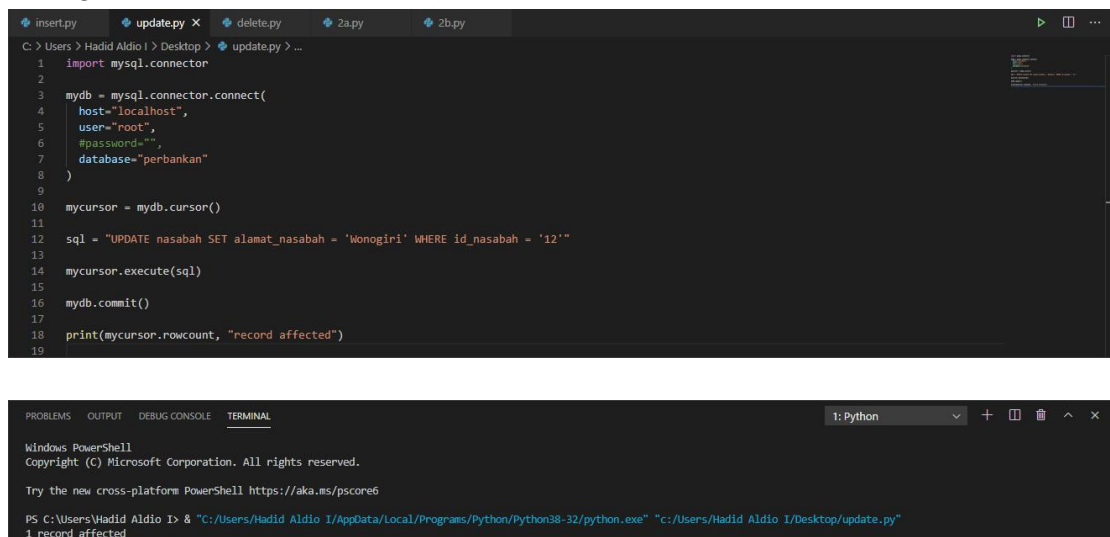
- INSERT


```python
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  #password="",
  database="perbankan"
)

mycursor = mydb.cursor()

sql = "INSERT INTO nasabah (id_nasabah, nama_nasabah, alamat_nasabah) VALUES (%s,%s, %s)"
val = ("12", "L200160055", "Solo")
mycursor.execute(sql, val)

mydb.commit()

print(mycursor.rowcount, "record inserted.")
```

```
Windows PowerShell
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PS C:\Users\Hadid Aldio I> & "C:/Users/Hadid Aldio I/AppData/Local/Programs/Python/Python38-32/python.exe" "c:/Users/Hadid Aldio I/Desktop/insert.py"
1 record inserted.
```

-UPDATE


```python
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  #password="",
  database="perbankan"
)

mycursor = mydb.cursor()

sql = "UPDATE nasabah SET alamat_nasabah = 'Wonogiri' WHERE id_nasabah = '12'"

mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record affected")
```

```
Windows PowerShell
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PS C:\Users\Hadid Aldio I> & "C:/Users/Hadid Aldio I/AppData/Local/Programs/Python/Python38-32/python.exe" "c:/Users/Hadid Aldio I/Desktop/update.py"
1 record affected
```

- DELETE

```python
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  #password="",
  database="perbankan"
)

mycursor = mydb.cursor()

sql = "DELETE FROM nasabah WHERE id_nasabah = '12'"

mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record deleted")
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL                                        1: Python

Windows PowerShell
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PS C:\Users\Hadid Aldio I> & "C:/Users/Hadid Aldio I/AppData/Local/Programs/Python/Python38-32/python.exe" "c:/Users/Hadid Aldio I/Desktop/delete.py"
1 record deleted
```

Buatlah kode program untuk mendapatkan

a. Data nasabah

```python
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    #password="",
    database="perbankan"
)

mycursor = mydb.cursor()

mycursor.execute("SELECT * FROM nasabah")

myresult = mycursor.fetchall()

for x in myresult:
  print(x)
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL                                        1: Python

PS C:\Users\Hadid Aldio I> & "C:/Users/Hadid Aldio I/AppData/Local/Programs/Python/Python38-32/python.exe" "c:/Users/Hadid Aldio I/Desktop/Tugas-2.a.py"
(1, 'Sutopo', 'Jl.Jenderal Sudirman 12')
(2, 'Maryati', 'Jl.Mt.Haryono 31')
(3, 'Suparman', 'Jl.Hasanudin 81')
(4, 'Kartika Padmasari', 'Jl.Manggis 15')
(5, 'Budi Eko Prayogo', 'Jl.Kantil 31')
(6, 'Satria Eka Jaya', 'Jl.Slamet Riyadi 45')
(8, 'Sari Murti', 'Jl.Pangandaran 11')
(9, 'Canka Lokanata', 'Jl.Tidar 86')
(10, 'Budi Murtono', 'Jl.Merak 22')
(11, 'Hadid Aldio Indratama', 'Wonogiri')
PS C:\Users\Hadid Aldio I>
```

b. Data nasabah yang melakukan transaksi antara bulan Oktober sampai Desember

```python
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    #password="",
    database="perbankan"
)

mycursor = mydb.cursor()

mycursor.execute("""SELECT * FROM nasabah WHERE nasabah.id_nasabah
            IN (SELECT transaksi.id_nasabahFK FROM transaksi WHERE tanggal BETWEEN '2009-10-1' AND '2009-12-31' )""")

myresult = mycursor.fetchall()

for x in myresult:
  print(x)
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL                                                    1: Python      ∨   +  ⊡  🗑  ∧  ✕

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Hadid Aldio I> & "C:/Users/Hadid Aldio I/AppData/Local/Programs/Python/Python38-32/python.exe" "c:/Users/Hadid Aldio I/Desktop/Tugas-2.b.py"
(1, 'Sutopo', 'Jl.Jenderal Sudirman 12')
(2, 'Maryati', 'Jl.Mt.Haryono 31')
(3, 'Suparman', 'Jl.Hasanudin 81')
(4, 'Kartika Padmasari', 'Jl.Manggis 15')
(5, 'Budi Eko Prayogo', 'Jl.Kantil 31')
(9, 'Canka Lokanata', 'Jl.Tidar 86')
(10, 'Budi Murtono', 'Jl.Merak 22')
PS C:\Users\Hadid Aldio I>
```