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Kegiatan Praktikum

1. Kegiatan 1

```
Python 3.7.0 Shell [Python3 Shell] - kag2.py
File Edit Shell Debug 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_transaksi, no_rekening, jenis_transaksi, tanggal, jumlah) VALUES (%s, %s, %s, %s, %s)" % ('', '100', 'tarik', tanggal, '10000'))
cursor.execute(tambah_transaksi, id_transaksi)

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

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 [OS: Windows 10, Jan 27 2018, 04:06:47] [AMD64 32 bit (Intel)] on win32
Type "help()" or "help()" for more information.
>>>
>>> |
```

2. Kegiatan 2

```
Python 3.7.0 Shell [Python3 Shell] - kag2.py
File Edit Shell Debug 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_transaksi, jenis_transaksi, tanggal, jumlah FROM transaksi"
cursor.execute(query)
for (id_transaksi, jenis_transaksi, tanggal, jumlah) in cursor:
    print("Transaksi dengan ID {} dilakukan transaksi : {} pada {} dengan jumlah {}".format(id_transaksi, jenis_transaksi, tanggal, jumlah))

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

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 [OS: Windows 10, Jan 27 2018, 04:06:47] [AMD64 32 bit (Intel)] on win32
Type "help()" or "help()" for more information.
>>>
Transaksi dengan ID 1 dilakukan transaksi kredit pada 29May2018 se.jumlah50000
Transaksi dengan ID 2 dilakukan transaksi kredit pada 29May2018 se.jumlah10000
Transaksi dengan ID 3 dilakukan transaksi kredit pada 29May2018 se.jumlah50000
>>> |
```

TUGAS

1. Insert

```

import mysql.connector
import sys
import os

# Connect to the database
cnx = mysql.connector.connect(user='root', database='posbankas')
cursor = cnx.cursor()

# Create a table
sql = """
CREATE TABLE `tbl_transaksi` (
  `id_transaksi` INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,
  `nama_transaksi` VARCHAR(100) NOT NULL,
  `tanggal` DATE NOT NULL,
  `jumlah` DECIMAL(10, 2) NOT NULL,
  PRIMARY KEY (`id_transaksi`),
  INDEX (`nama_transaksi`, `tanggal`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
"""
cursor.execute(sql)

# Insert data
data_transaksi = [
  ('Beli Kebutuhan', '2024-01-01', 1000000),
  ('Beli Kebutuhan', '2024-01-02', 1500000),
  ('Beli Kebutuhan', '2024-01-03', 2000000),
  ('Beli Kebutuhan', '2024-01-04', 2500000),
  ('Beli Kebutuhan', '2024-01-05', 3000000),
  ('Beli Kebutuhan', '2024-01-06', 3500000),
  ('Beli Kebutuhan', '2024-01-07', 4000000),
  ('Beli Kebutuhan', '2024-01-08', 4500000),
  ('Beli Kebutuhan', '2024-01-09', 5000000),
  ('Beli Kebutuhan', '2024-01-10', 5500000),
  ('Beli Kebutuhan', '2024-01-11', 6000000),
  ('Beli Kebutuhan', '2024-01-12', 6500000),
  ('Beli Kebutuhan', '2024-01-13', 7000000),
  ('Beli Kebutuhan', '2024-01-14', 7500000),
  ('Beli Kebutuhan', '2024-01-15', 8000000),
  ('Beli Kebutuhan', '2024-01-16', 8500000),
  ('Beli Kebutuhan', '2024-01-17', 9000000),
  ('Beli Kebutuhan', '2024-01-18', 9500000),
  ('Beli Kebutuhan', '2024-01-19', 10000000),
  ('Beli Kebutuhan', '2024-01-20', 10500000),
  ('Beli Kebutuhan', '2024-01-21', 11000000),
  ('Beli Kebutuhan', '2024-01-22', 11500000),
  ('Beli Kebutuhan', '2024-01-23', 12000000),
  ('Beli Kebutuhan', '2024-01-24', 12500000),
  ('Beli Kebutuhan', '2024-01-25', 13000000),
  ('Beli Kebutuhan', '2024-01-26', 13500000),
  ('Beli Kebutuhan', '2024-01-27', 14000000),
  ('Beli Kebutuhan', '2024-01-28', 14500000),
  ('Beli Kebutuhan', '2024-01-29', 15000000),
  ('Beli Kebutuhan', '2024-01-30', 15500000),
  ('Beli Kebutuhan', '2024-01-31', 16000000),
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  ('Beli Kebutuhan', '2024-02-02', 17000000),
  ('Beli Kebutuhan', '2024-02-03', 17500000),
  ('Beli Kebutuhan', '2024-02-04', 18000000),
  ('Beli Kebutuhan', '2024-02-05', 18500000),
  ('Beli Kebutuhan', '2024-02-06', 19000000),
  ('Beli Kebutuhan', '2024-02-07', 19500000),
  ('Beli Kebutuhan', '2024-02-08', 20000000),
  ('Beli Kebutuhan', '2024-02-09', 20500000),
  ('Beli Kebutuhan', '2024-02-10', 21000000),
  ('Beli Kebutuhan', '2024-02-11', 21500000),
  ('Beli Kebutuhan', '2024-02-12', 22000000),
  ('Beli Kebutuhan', '2024-02-13', 22500000),
  ('Beli Kebutuhan', '2024-02-14', 23000000),
  ('Beli Kebutuhan', '2024-02-15', 23500000),
  ('Beli Kebutuhan', '2024-02-16', 24000000),
  ('Beli Kebutuhan', '2024-02-17', 24500000),
  ('Beli Kebutuhan', '2024-02-18', 25000000),
  ('Beli Kebutuhan', '2024-02-19', 25500000),
  ('Beli Kebutuhan', '2024-02-20', 26000000),
  ('Beli Kebutuhan', '2024-02-21', 26500000),
  ('Beli Kebutuhan', '2024-02-22', 27000000),
  ('Beli Kebutuhan', '2024-02-23', 27500000),
  ('Beli Kebutuhan', '2024-02-24', 28000000),
  ('Beli Kebutuhan', '2024-02-25', 28500000),
  ('Beli Kebutuhan', '2024-02-26', 29000000),
  ('Beli Kebutuhan', '2024-02-27', 29500000),
  ('Beli Kebutuhan', '2024-02-28', 30000000),
  ('Beli Kebutuhan', '2024-02-29', 30500000),
  ('Beli Kebutuhan', '2024-03-01', 31000000),
  ('Beli Kebutuhan', '2024-03-02', 31500000),
  ('Beli Kebutuhan', '2024-03-03', 32000000),
  ('Beli Kebutuhan', '2024-03-04', 32500000),
  ('Beli Kebutuhan', '2024-03-05', 33000000),
  ('Beli Kebutuhan', '2024-03-06', 33500000),
  ('Beli Kebutuhan', '2024-03-07', 34000000),
  ('Beli Kebutuhan', '2024-03-08', 34500000),
  ('Beli Kebutuhan', '2024-03-09', 35000000),
  ('Beli Kebutuhan', '2024-03-10', 35500000),
  ('Beli Kebutuhan', '2024-03-11', 36000000),
  ('Beli Kebutuhan', '2024-03-12', 36500000),
  ('Beli Kebutuhan', '2024-03-13', 37000000),
  ('Beli Kebutuhan', '2024-03-14', 37500000),
  ('Beli Kebutuhan', '2024-03-15', 38000000),
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  ('Beli Kebutuhan', '2024-03-17', 39000000),
  ('Beli Kebutuhan', '2024-03-18', 39500000),
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  ('Beli Kebutuhan', '2024-03-21', 41000000),
  ('Beli Kebutuhan', '2024-03-22', 41500000),
  ('Beli Kebutuhan', '2024-03-23', 42000000),
  ('Beli Kebutuhan', '2024-03-24', 42500000),
  ('Beli Kebutuhan', '2024-03-25', 43000000),
  ('Beli Kebutuhan', '2024-03-26', 43500000),
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  ('Beli Kebutuhan', '2024-03-29', 45000000),
  ('Beli Kebutuhan', '2024-03-30', 45500000),
  ('Beli Kebutuhan', '2024-03-31', 46000000),
  ('Beli Kebutuhan', '2024-04-01', 46500000),
  ('Beli Kebutuhan', '2024-04-02', 47000000),
  ('Beli Kebutuhan', '2024-04-03', 47500000),
  ('Beli Kebutuhan', '2024-04-04', 48000000),
  ('Beli Kebutuhan', '2024-04-05', 48500000),
  ('Beli Kebutuhan', '2024-04-06', 49000000),
  ('Beli Kebutuhan', '2024-04-07', 49500000),
  ('Beli Kebutuhan', '2024-04-08', 50000000),
  ('Beli Kebutuhan', '2024-04-09', 50500000),
  ('Beli Kebutuhan', '2024-04-10', 51000000),
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  ('Beli Kebutuhan', '2024-04-12', 52000000),
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  ('Beli Kebutuhan', '2024-04-14', 53000000),
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  ('Beli Kebutuhan', '2024-04-16', 54000000),
  ('Beli Kebutuhan', '2024-04-17', 54500000),
  ('Beli Kebutuhan', '2024-04-18', 55000000),
  ('Beli Kebutuhan', '2024-04-19', 55500000),
  ('Beli Kebutuhan', '2024-04-20', 56000000),
  ('Beli Kebutuhan', '2024-04-21', 56500000),
  ('Beli Kebutuhan', '2024-04-22', 57000000),
  ('Beli Kebutuhan', '2024-04-23', 57500000),
  ('Beli Kebutuhan', '2024-04-24', 58000000),
  ('Beli Kebutuhan', '2024-04-25', 58500000),
  ('Beli Kebutuhan', '2024-04-26', 59000000),
  ('Beli Kebutuhan', '2024-04-27', 59500000),
  ('Beli Kebutuhan', '2024-04-28', 60000000),
  ('Beli Kebutuhan', '2024-04-29', 60500000),
  ('Beli Kebutuhan', '2024-04-30', 61000000),
  ('Beli Kebutuhan', '2024-05-01', 61500000),
  ('Beli Kebutuhan', '2024-05-02', 62000000),
  ('Beli Kebutuhan', '2024-05-03', 62500000),
  ('Beli Kebutuhan', '2024-05-04', 63000000),
  ('Beli Kebutuhan', '2024-05-05', 63500000),
  ('Beli Kebutuhan', '2024-05-06', 64000000),
  ('Beli Kebutuhan', '2024-05-07', 64500000),
  ('Beli Kebutuhan', '2024-05-08', 65000000),
  ('Beli Kebutuhan', '2024-05-09', 65500000),
  ('Beli Kebutuhan', '2024-05-10', 66000000),
  ('Beli Kebutuhan', '2024-05-11
```

Update

```

C:\Python34\Python34\Scripts>python34.exe
File Edit Shell View Help
from datetime import date, datetime, timedelta
import serial, time

conn = mysql.connector.connect(user='root', password='password')
cursor = conn.cursor()
tanggal = datetime.now().date()
update_transaksi = ("UPDATE `transaksi` SET `tanggal`='%s' WHERE `no_transaksi` = %s")
data_transaksi = (tanggal, "10000", 100)
cursor.execute(update_transaksi, data_transaksi)

print("Selesai")

cursor.close()
conn.close()

```

```

C:\Python34>python34.exe
File Edit Shell View Help
Syntax Error: python34.exe: can't open file 'python34.exe': [Errno 2] No such file or directory
Types: Compilation, Error List or HelpViewCtrl in work information.
0:0
----- PYTHON: 2.7.10.1\Python34\Scripts\python34.exe -----
0:0

```

Delete

```
Python 3.7.0 Shell Script Editor
File Edit View Options Window Help
From: <del@del> (del, del@del, del@del)
Import: mysql.connector

def mysql.connector.connect(host="root", database="perbankean"):
    cursor = cursor.cursor()
    tanggal = datetime.now().date()
    update_perbankan ("UPDATE 'perbankan' SET tanggal=tanggal WHERE id_perbankan=1")
    delete_perbankan = tanggal, "10000", "10000"
    cursor.execute(update_perbankan, delete_perbankan)

if __name__ == '__main__':
    cursor.execute()
    cursor.close()

Python 3.7.0 Shell Script Editor
File Edit View Options Window Help
Python 3.7.0 (tags/v3.7.0:1bf3cc508, Jun 27 2019, 04:06:47) [AMD64 (x64)] on win32
Type "help()" for more information.
>>>
----- RESTART: C:\Users\PERBANKEAN\AppData\Local\Temp\Python370\Python370.exe
>>> |
```

2. Data Nasabah

```
Python 3.7.0 Shell Script Editor
File Edit View Options Window Help
From: <del@del> (del, del@del, del@del)
Import: mysql.connector

def mysql.connector.connect(host="root", database="perbankean"):
    cursor = cursor.cursor()
    query="SELECT 'id_nasabah', 'nama_nasabah', 'alamat_nasabah' FROM 'nasabah' WHERE 'nama_nasabah' LIKE '%'"
    cursor.execute(query)
    for id_nasabah, nama_nasabah, alamat_nasabah in cursor:
        print("Nasabah dengan ID {} dengan nama {} dan alamatnya di {}".format(id_nasabah, nama_nasabah, alamat_nasabah))

if __name__ == '__main__':
    cursor.execute()
    cursor.close()

Python 3.7.0 Shell Script Editor
File Edit View Options Window Help
Python 3.7.0 (tags/v3.7.0:1bf3cc508, Jun 27 2019, 04:06:47) [AMD64 (x64)] on win32
Type "help()" for more information.
>>>
----- RESTART: C:\Users\PERBANKEAN\AppData\Local\Temp\Python370\Python370.exe
Nasabah dengan ID 1 dengan nama Sahaja dan alamatnya di C:\Users\PERBANKEAN\AppData\Local\Temp\Python370\Python370.exe
Nasabah dengan ID 2 dengan nama Sahaja dan alamatnya di C:\Users\PERBANKEAN\AppData\Local\Temp\Python370\Python370.exe
>>> |
```

Data Transaksi dari bulan oktober – desember

[illegible]