Aim: Distributed transaction verification and log system for credit card payments

Code:

from asyncio.windows\_events import NULL

import pymysql

import datetime

card\_no = input("Enter the card number: ")

pin = input("Enter the card pin: ")

withdrawal\_amt = float(input("Enter amount to withdraw: "))

today = datetime.datetime.today()

#paris database

# print("Connecting........ Paris instance")

conn1 = pymysql.connect(

    host='bcpcsxss1zmqtkfvg39q-mysql.services.clever-cloud.com',

    user='uybx7xvspaed5ycl',

    password = "Fg35TbunMQywjCacUWEb",

    database='bcpcsxss1zmqtkfvg39q',

    charset='utf8mb4',

    cursorclass=pymysql.cursors.DictCursor

    )

cur1 = conn1.cursor()

cur1.execute("select @@version")

#montreal database

# print("Connecting........ Montreal Instance")

conn2 = pymysql.connect(

    host='bqvq6lck6dm10vfsutvk-mysql.services.clever-cloud.com',

    user='ug7fbb0xexnrfoza',

    password = "qhXvGeJmuvKQLikmmkkJ",

    database='bqvq6lck6dm10vfsutvk',

    charset='utf8mb4',

    cursorclass=pymysql.cursors.DictCursor

    )

cur = conn2.cursor()

# cur.execute("select @@version")

# cur.execute("INSERT INTO employee\_personal(empno ,partitionkey, empnm, age, qualification, mobile, emailid) VALUES(%s, %s, %s, %s, %s, %s, %s)", (emp\_number, 2, name, age, qualification, mobile, email\_id))

# cur.execute("select \* from employee\_personal")

# for row in cur.fetchall():

#     print(row)

cur1.execute("Select \* from creditcards where cardno=%s and pin=%s",(card\_no, pin))

curr\_balance = 0

bank = ""

for row in cur1.fetchall():

    # print(row)

    accNumber = row['mappedaccno']

    if row['translimit']>=withdrawal\_amt:

        count = cur.execute("Select \* from citibank where accno=%s", (accNumber))

        values = cur.fetchone()

        if count>0:

            if values['balance']>0:

                curr\_balance = values['balance'] - withdrawal\_amt

                cur.execute("Update citibank SET balance= %s", (curr\_balance))

        else:

            count = cur.execute("Select \* from scbank where accno=%s", (accNumber))

            values = cur.fetchone()

            if count>0:

                if values['balance']>0:

                    curr\_balance = values['balance'] - withdrawal\_amt

                    cur.execute("Update scbank set balance= %s", (curr\_balance))

        cur.execute("Insert into cardtranslog(transdt, accno, amount) Values(%s, %s, %s)", (today, accNumber, withdrawal\_amt))

        cur1.execute("Insert into paymentlog(cardno, transdt, purpose, paymentamount) Values(%s, %s, %s, %s)", (card\_no, str(today), "Shopping", str(withdrawal\_amt)))

        print("Transaction Successfull from: "+ bank)

        print("Account Number: ", accNumber)

        print("Amount withdrawal: ", withdrawal\_amt)

        print("Current Balance: ", curr\_balance)

        cur.execute("Select \* from cardtranslog where accno=%s", accNumber)

        print("Card Log:")

        for row in cur.fetchall():

            print(row)

        cur1.execute("Select \* from paymentlog where cardno=%s", card\_no)

        print("Payment Log:")

        for row in cur1.fetchall():

            print(row)

    else: print("Transaction limit exceeded")

conn1.commit()

# To close the connection

conn1.close()

conn2.commit()

# To close the connection

conn2.close()

Output:

