In [16]:
```python
from mysql.connector import (connection)
import random
from datetime import date,timedelta
conn = connection.MySQLConnection(user='root', password='dhivakar',host='127.0.0.
conn1= connection.MySQLConnection(user='root', password='dhivakar',host='127.0.0.
conn2= connection.MySQLConnection(user='root', password='dhivakar',host='127.0.0.
if conn.is_connected():
    print('conn connected')
if conn1.is_connected():
    print('conn1 connected')
if conn2.is_connected():
    print('conn2 connected')
cursor = conn.cursor()
cursor1=conn1.cursor()
cursor2=conn2.cursor()
c=True
try:
    query="create table branch(br_id integer,br_name varchar(40),Account_number v
    cursor.execute(query)
    query1="create table details(date varchar(30),br_id integer,br_name varchar(4
    cursor.execute(query1)
    while c:
        print("1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE A
        m=int(input("Enter your choice"));
#CREATE
        if(m==1):

            query3="insert into branch (br_id,br_name,Account_number,customer_id,
            bid=int(input("Enter branch id : "))
            bname=input("Enter branch name : ")
            acc=random.randint(1111111111,9999999999)
            cname=input("Enter customer name: ")
            cid=random.randint(1111111,9999999)

            v1=(bid,bname,acc,cid,cname,0)
            #v2=(bid,bname,acc,cid,cname)
            cursor.execute(query3,v1)

            name=cname+str(cid)
            query4="create table "+name+"(Date varchar(20),Account_no varchar(15)
            query5="create table "+name+"(Date varchar(20),Account_no varchar(15)
            cursor1.execute(query4)
            cursor2.execute(query5)

            print(".....Account created.....")
            print("Account Number : ",acc)
            print("Customer ID : ",cid)
            print("\n")

            conn.commit()
            conn1.commit()
            conn2.commit()
#DEPOSIT
        if(m==2):
            acc=int(input("Enter the Account Number"))
            queryy1="select * from branch where Account_number=%s;"
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                    t2=(acc,)
                    cursor.execute(queryy1,t2)
                    for i in cursor:
                        bid=int(i[0])
                        bname=i[1]
                        acc=int(i[2])
                        cid=int(i[3])
                        cname=i[4]
                        accbalance=int(i[5])
                        print("AVAILABLE BALANCE : ",accbalance)
                        n=int(input("Enter the Amount to be Deposited : "))
                        n1=int(i[5])+n
                    name=cname+str(cid)
                    query5="insert into details(date,br_id,br_name,Account_number,custome
                    query6="update branch set account_balance=%s where Account_number=%s;
                    query7="insert into "+name+"(Date,Account_no,Description,Type,Account
                    desc="Your account has been credited with rs."+str(n)
                    today = date.today()
                    t3=(today,bid,bname,acc,cid,cname,desc,n1,"DEPOSIT")
                    t4=(n1,acc)
                    t5=(today,acc,desc,"DEPOSIT",n1)
                    print("Your Account is credited Rs."+str(n)+"   Available Balance : '
                    cursor.execute(query5,t3)
                    cursor.execute(query6,t4)
                    cursor1.execute(query7,t5)
                    print("\n")
                    conn.commit()
                    conn1.commit()
        #DEBIT
            if(m==3):
                acc=int(input("Enter the Account Number : "))
                queryy1="select * from branch where Account_number=%s;"
                t2=(acc,)
                cursor.execute(queryy1,t2)
                for i in cursor:
                    bid=int(i[0])
                    bname=i[1]
                    acc=int(i[2])
                    cid=int(i[3])
                    cname=i[4]
                    accbalance=int(i[5])
                    print("AVAILABLE BALANCE : ",accbalance)
                    n=int(input("Enter the Amount to be Debited : "))
                    n1=int(i[5])-n
                name=cname+str(cid)
                query5="insert into details(date,br_id,br_name,Account_number,custome
                query6="update branch set account_balance=%s where Account_number=%s;
                query7="insert into "+name+"(Date,Account_no,Description,Type,Account
                desc="Your account has been Debited with rs."+str(n)
                today = date.today()
                t3=(today,bid,bname,acc,cid,cname,desc,n1,"DEBIT")
                t4=(n1,acc)
                t5=(today,acc,desc,"DEBIT",n1)
                print("Your account is Debited Rs."+str(n)+"  Available Balance : ",r
                cursor.execute(query5,t3)
                cursor.execute(query6,t4)
                cursor1.execute(query7,t5)
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                print("\n")
                conn.commit()
                conn1.commit()
#LOAN
        if(m==4):
            acc=int(input("Enter your Account Number : "))
            aquery="select * from branch where Account_number = %s;"
            t=(acc,)
            cursor.execute(aquery,t)
            for i in cursor:
                bid=int(i[0])
                bname=i[1]
                acc=int(i[2])
                cid=int(i[3])
                cname=i[4]
                accbalance=int(i[5])
            name=cname+str(cid)
            bquery="insert into "+name+"(Date,Account_no,Loan_type,Loan_amount,Du
            cquery="Update branch set account_balance=%s where Account_number=%s'
            query7="insert into "+name+"(Date,Account_no,Description,Type,Account
            print("1.HOME LOAN  2.EDUCATION LOAN  3.GOLD LOAN  4.VEHICLE LOAN ")
            val=int(input("Enter your choice : "))
            today=date.today()
            year=timedelta(days=365)
            if(val==1):
                print("Maximum Loan Amount is Rs.5,00,000 With 1 rupee interest")
                amount=int(input("Enter the loan amount you need : "))
                if(amount<250000):
                    duration=today+(4*year)
                    print("Duration - 4yrs")
                else:
                    duration=today+(6*year)
                    print("Duration - 6yrs ")
                v=(today,acc,"HOME LOAN",amount,duration)
            if(val==2):
                print("Maximum Loan Amount is Rs.4,00,000 With 0.8 paise interest
                amount=int(input("Enter the loan amount you need : "))
                if(amount<20000):
                    durartion=today+(5*year)
                    print("Duration - 5yrs")
                else:
                    duration=today+(10*year)
                    print("Duration - 10yrs ")
                v=(today,acc,"EDUCATION LOAN",amount,duration)
            if(val==3):
                print("Maximum Loan Amount is Rs.3,00,000 With 0.8 paise interest
                amount=int(input("Enter the loan amount you need : "))
                if(amount<150000):
                    durartion=today+(4*year)
                    print("Duration - 4yrs")
                else:
                    duration=today+(8*year)
                    print("Duration - 8yrs ")
                v=(today,acc,"GOLD LOAN",amount,duration)
            if(val==4):
                print("Maximum Loan Amount is Rs.2,00,000 With 1 rupee interest")
                amount=int(input("Enter the loan amount you need : "))
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                    if(amount<100000):
                        durartion=today+(4*year)
                        print("Duration - 4yrs")
                    else:
                        duration=today+(8*year)
                        print("Duration - 8yrs ")
                    v=(today,acc,"VEHICLE LOAN",amount,duration)
                n=accbalance+amount
                desc="Your account has been credited with loan amount rs "+str(amount
                t=(n,acc)
                t1=(today,acc,desc,"LOAN",n)
                cursor.execute(cquery,t)
                cursor2.execute(bquery,v)
                cursor1.execute(query7,t1)
                print("...LOAN AMOUNT CREDITED SUCCESSFULLY...")
                print("\n")
                print("\n")
                conn.commit()
                conn1.commit()
                conn2.commit()
#TRANSACTION
        if(m==5):
            acc=int(input("Enter the Account Number : "))
            queryy1="select * from branch where Account_number=%s;"
            t2=(acc,)
            cursor.execute(queryy1,t2)
            for i in cursor:
                bid=int(i[0])
                bname=i[1]
                acc=int(i[2])
                cid=int(i[3])
                cname=i[4]
                accbalance=int(i[5])
                print("AVAILABLE BALANCE : ",accbalance)
                n=int(input("Enter the Amount to be Transferred : "))
                n1=int(i[5])-n
            name=cname+str(cid)
            query5="insert into details(date,br_id,br_name,Account_number,custome
            query6="update branch set account_balance=%s where Account_number=%s;
            query7="insert into "+name+"(Date,Account_no,Description,Type,Account
            desc="Your account is debited with rs."+str(n)
            today = date.today()
            t3=(today,bid,bname,acc,cid,cname,desc,n1,"TRANSACTION")
            t4=(n1,acc)
            t5=(today,acc,desc,"DEBIT-TRANSACTION",n1)
            cursor.execute(query5,t3)
            cursor.execute(query6,t4)
            cursor1.execute(query7,t5)
            print("Available Balance is",n1)
            print("\n")

            account=int(input("Enter the account number to be transferred : "))
            queryy1="select * from branch where Account_number=%s;"
            t2=(account,)
            cursor.execute(queryy1,t2)
            for i in cursor:
                bid=int(i[0])
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                    bname=i[1]
                    acc=int(i[2])
                    cid=int(i[3])
                    cname=i[4]
                    accbalance=int(i[5])
                    n1=int(i[5])+n
                name=cname+str(cid)
                query5="insert into details(date,br_id,br_name,Account_number,custome
                query6="update branch set account_balance=%s where Account_number=%s;
                query7="insert into "+name+"(Date,Account_no,Description,Type,Account
                desc="Your account has been credited with rs."+str(n)
                today = date.today()
                t3=(today,bid,bname,account,cid,cname,desc,n1,"CREDIT-TRANSACTION")
                t4=(n1,acc)
                t5=(today,account,desc,"CREDIT-TRANSACTION",n1)
                cursor.execute(query5,t3)
                cursor.execute(query6,t4)
                cursor1.execute(query7,t5)
                print("....TRANSACTION SUCCESSFULL....")
                conn.commit()
                conn1.commit()
#DELETE
            if(m==6):
                acc=input("Enter your Account Number : ")
                t=(acc,)
                queryy="select * from branch where Account_number=%s;"
                cursor.execute(queryy,t)
                for i in cursor:
                    bid=int(i[0])
                    bname=i[1]
                    acc=int(i[2])
                    cid=int(i[3])
                    cname=i[4]
                    accbalance=int(i[5])
                    n1=int(i[5])+n
                name=cname+str(cid)
                queryy="drop table "+name+";"
                cursor1.execute(queryy)
                queryy="drop table "+name+";"
                cursor2.execute(queryy)
                d1query="delete from details where Account_number=%s;"
                cursor.execute(d1query,t)
                dquery="delete from branch where Account_number=%s;"
                cursor.execute(dquery,t)
                print("....ACCOUNT SUCCESSFULLY DELETED....")

                conn.commit()
                conn1.commit()
                conn2.commit()

#EXIT
            if(m==7):
                c=False
except Exception as e:
    print(e);
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conn connected
conn1 connected
conn2 connected
1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice1
Enter branch id : 101
Enter branch name : Erode
Enter customer name: GOWRI
.....Account created.....
Account Number :  8927915488
Customer ID :  5562559


1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice1
Enter branch id : 102
Enter branch name : CBE
Enter customer name: SHIVANI
.....Account created.....
Account Number :  1743701758
Customer ID :  6451829


1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice2
Enter the Account Number8927915488
AVAILABLE BALANCE :  0
Enter the Amount to be Deposited : 5000
Your Account is credited Rs.5000   Available Balance :  5000


1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice3
Enter the Account Number : 8927915488
AVAILABLE BALANCE :  5000
Enter the Amount to be Debited : 1000
Your account is Debited Rs.1000  Available Balance :  4000


1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice4
Enter your Account Number : 8927915488
1.HOME LOAN  2.EDUCATION LOAN  3.GOLD LOAN  4.VEHICLE LOAN
Enter your choice : 1
Maximum Loan Amount is Rs.5,00,000 With 1 rupee interest
Enter the loan amount you need : 100000
Duration - 4yrs
...LOAN AMOUNT CREDITED SUCCESSFULLY...


1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
Enter your choice5
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        Enter the Account Number : 8927915488
        AVAILABLE BALANCE :  104000
        Enter the Amount to be Transferred : 10000
        Available Balance is 94000


        Enter the account number to be transferred : 1743701758
        ....TRANSACTION SUCCESSFULL....
        1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
        Enter your choice6
        Enter your Account Number : 1743701758
        ....ACCOUNT SUCCESSFULLY DELETED....
        1.CREATE ACCOUNT 2.DEPOSIT 3.DEBIT 4.LOAN 5.TRANSACTION 6.DELETE ACCOUNT 7.EXIT
        Enter your choice7
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