import mysql.connector as mysql

mydb=mysql.connect(host="localhost",user='root',passwd="amoghk")

cursor=mydb.cursor()

cursor.execute("CREATE DATABASE IF NOT EXISTS contact")

cursor.execute("USE contact")

cursor.execute('''CREATE Table IF NOT EXISTS Contact\_Book(Mobile\_Number char(10) primary key,

                    Name varchar(30) NOT NULL,Address varchar(40))''')

def add\_contact():

    l=[]

    mobile\_no=int (input("Enter your 10 Digit Mobile number : "))

    l.append(mobile\_no)

    name=input("Enter your name:")

    l.append(name)

    address=input("Enter your address:")

    l.append(address)

    sql="insert into contact\_book (Mobile\_Number,Name,Address) values(%s,%s,%s)"

    cursor.execute(sql,l)

    mydb.commit()

    print("Record Inserted Successfully.")

    print("\n")

def search\_contact():

    import mysql.connector as mysql

    db=mysql.connect(host="localhost",user='root',passwd='amoghk',database='contact')

    cursor=db.cursor()

    name=str(input("Enter the Name:"))

    cursor.execute("Select Mobile\_Number,Name,Address From Contact\_book where Name='"+name+"'")

    for m in cursor:

         l=['No use']

    try:

        p,q,r=m

        print(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

        print("                                                                       ")

        print(" ------------------------------CONTACT BOOK-----------------------------")

        print(" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

        print("                                                                       ")

        print("   NAME          :",q.upper(),                                     )

        print("   MOBILE NUMBER :",p,                                            )

        print("   ADDRESS       :",r.upper()                                    )

        print(" "                                                                )

        print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")

    except UnboundLocalError:

        print('This Number Does Not Exist In Directory')

    print("\n")

def viewAll\_contact():

    import mysql.connector as mysql

    db=mysql.connect(host="localhost",user='root',passwd='amoghk',database='contact')

    cursor=db.cursor()

    cursor.execute("SELECT \* FROM Contact\_book")

    contacts = cursor.fetchall()

    if contacts:

        print("All Contacts:")

        for contact in contacts:

            print(f"Name: {contact[0]}, Mobile\_Number: {contact[1]}, Address: {contact[2]}")

    else:

        print("No contacts found.")

    print("\n")

def update\_contact():

    import mysql.connector as mysql

    db=mysql.connect(host="localhost",user='root',passwd='amoghk',database='contact')

    cursor=db.cursor()

    name=input("ENTER NAME: ")

    new\_phone=input("ENTER MOBILE NUMBER TO UPDATE: ")

    new\_Address=input("ENTER NEW ADDRESS: ")

    cursor.execute("""

        UPDATE Contact\_book

        SET Mobile\_Number = %s, Address = %s

        WHERE name = %s

    """, (name,new\_phone, new\_Address))

    print("Contact updated successfully.")

def del\_contact () :

    print("--SELECT OPTIONS FROM BELOW---")

    print("1. Delete Mobile Number")

    print("2.Delete Name")

    print("3.Delete Address")

    opt=int(input("Enter anyone option from above:"))

    if opt==1:

        mobno=int(input("Enter the Mobile Number:"))

        rl=(mobno,)

        sql="delete from contact\_book where Mobile\_Number=%s;"

        cursor.execute(sql,rl)

        mydb.commit()

        print('Contact Deleted')

    elif opt==2:

        name=input("Enter the name:")

        rl=(name,)

        sql=("Delete from contact\_book where Name=%s")

        cursor.execute(sql,rl)

        mydb.commit()

        print('Contact Deleted')

    elif opt==3:

        add=input("Enter the address :")

        rl=(add,)

        sql="delete from contact\_book where Address=%s"

        cursor.execute(sql,rl)

        mydb.commit()

        print('Contact Deleted')

def Main\_Menu ():

    while True:

        print("Enter 1: TO ADD NEW CONTACT")

        print("Enter 2: TO SEARCH A CONTACT")

        print("Enter 3: TO VIEW ALL CONTACTS")

        print("Enter 4: TO UPDATE CONTACT")

        print("Enter 5: TO DELETE CONTACT")

        print("ENTER 6: EXIT")

        cho=int(input("Enter your choice from above menu :"))

        if cho==1:

            add\_contact ()

        elif cho==2:

            search\_contact()

        elif cho==3:

            viewAll\_contact()

        elif cho==4:

           update\_contact()

        elif cho==5:

           del\_contact()

        else:

            print("Would you like to enter more data (Y/N): ")

            ch1=input("Enter your choice Y/N: ")

            if ch1=='N':

                break

            else:

                continue

Main\_Menu()