import mysql.connector as my

from tkinter import \*

from tkinter import ttk

from tkinter import messagebox

root=Tk()

root.geometry("750x615")

root.title("Student management system")

db=my.connect(host="localhost",user="root", password="Doge2254")

cr=db.cursor()

cr.execute("create database if not exists school")

cr.execute("use school")

l=[]

for i in range(6,13):

    l.append("student"+str(i))

    d="create table if not exists student{0}(Regn\_no int, Name char(50), Class int, Roll\_no int, Mobile\_no bigint)".format(i,)

    cr.execute(d)

def stu\_rec():

    cr.reset()

    frame.after(10)

    t=Toplevel()

    t.geometry("640x400")

    frame1=Frame(t,width=640,height=640)

    frame1.pack()

    l=Label(frame1,text="Enter the registration number").pack(anchor="w")

    e=Entry(frame1,width=50)

    e.pack(anchor="e")

    l1=Label(frame1,text="Enter the name").pack(anchor="w")

    e1=Entry(frame1,width=50)

    e1.pack(anchor="e")

    l2=Label(frame1,text="Enter the class").pack(anchor="w")

    e2=Entry(frame1,width=50)

    e2.pack(anchor="e")

    l3=Label(frame1,text="Enter the roll number").pack(anchor="w")

    e3=Entry(frame1,width=50)

    e3.pack(anchor="e")

    l4=Label(frame1,text="Enter the mobile number").pack(anchor="w")

    e4=Entry(frame1,width=50)

    e4.pack(anchor="e")

    bt=Button(frame1,text="Submit",command=lambda: add\_db(e,e1,e2,e3,e4,t)).pack(anchor="center")

def add\_db(e,e1,e2,e3,e4,t):

    cr.reset()

    l=[]

    for i in range(6,13):

        tu=(i,e.get())

        z="Select \* from Student%s where Regn\_no=%s"

        cr.execute(z,tu)

        x=cr.fetchone()

        if x!=None:

            l=list(x)

    if not l:

        x="insert into student%s values(%s,%s,%s,%s,%s)"

        cr.execute(x,(int(e2.get()),int(e.get()),str(e1.get()),int(e2.get()),int(e3.get()),int(e4.get())))

        db.commit()

        t.after(10,t.destroy())

    else:

        res=messagebox.showerror("Student entry","Regn no. already taken!")

def stu\_edit(y):

    y.after(10,y.destroy())

    frame.after(10)

    t=Toplevel()

    t.geometry("640x400")

    frame1=Frame(t,width=640,height=640)

    frame1.pack()

    l=Label(frame1,text="Enter the registration number").pack(anchor="w")

    e=Entry(frame1,width=50)

    e.pack(anchor="e")

    l1=Label(frame1,text="Check the fields you want to edit:").pack(anchor=W)

    var1=IntVar()

    var2=IntVar()

    var3=IntVar()

    var4=IntVar()

    var5=IntVar()

    ch1=Checkbutton(frame1,text="Regn No.",variable=var1)

    ch1.pack(anchor=W)

    ch2=Checkbutton(frame1,text="Name",variable=var2)

    ch2.pack(anchor=W)

    ch3=Checkbutton(frame1,text="Class",variable=var3)

    ch3.pack(anchor=W)

    ch4=Checkbutton(frame1,text="Roll No.",variable=var4)

    ch4.pack(anchor=W)

    ch5=Checkbutton(frame1,text="Mobile No.",variable=var5)

    ch5.pack(anchor=W)

    bt=Button(frame1,text="Submit",command=lambda: edit\_db(e,t,var1,var2,var3,var4,var5)).pack(anchor="center")

def edit\_db(e,t,v1,v2,v3,v4,v5):

    cr.reset()

    for i in range(6,13):

        tu=(i,e.get())

        z="Select \* from Student%s where Regn\_no=%s"

        cr.execute(z,tu)

        x=cr.fetchone()

        if x!=None:

            l=list(x)

    m=e.get()

    t.after(10,t.destroy())

    t1=Toplevel()

    t1.geometry("640x400")

    frame1=Frame(t1,width=640,height=640)

    frame1.pack()

    if v1.get()==1:

        l1=Label(frame1,text="Enter the new registration number").pack(anchor="w")

        e1=Entry(frame1,width=50)

        e1.pack(anchor="e")

    else:

        e1=""

    if v2.get()==1:

        l2=Label(frame1,text="Enter the new name").pack(anchor="w")

        e2=Entry(frame1,width=50)

        e2.pack(anchor="e")

    else:

        e2=""

    if v3.get()==1:

        l3=Label(frame1,text="Enter the new class").pack(anchor="w")

        e3=Entry(frame1,width=50)

        e3.pack(anchor="e")

    else:

        e3=""

    if v4.get()==1:

        l4=Label(frame1,text="Enter the new roll no.").pack(anchor="w")

        e4=Entry(frame1,width=50)

        e4.pack(anchor="e")

    else:

        e4=""

    if v5.get()==1:

        l5=Label(frame1,text="Enter the new phone no.").pack(anchor="w")

        e5=Entry(frame1,width=50)

        e5.pack(anchor="e")

    else:

        e5=""

    bt=Button(frame1,text="Submit",command=lambda: editt(m,t1,e1,e2,e3,e4,e5,v1,v2,v3,v4,v5,l)).pack(anchor="center")

def editt(m,t1,e1,e2,e3,e4,e5,v1,v2,v3,v4,v5,l):

    if v1.get()==1:

        l[0]=e1.get()

    if v2.get()==1:

        l[1]=e2.get()

    if v3.get()==1:

        x="Delete from Student%s where Regn\_no=%s"

        cr.execute(x,(l[2],m))

        l[2]=e3.get()

    if v4.get()==1:

        l[3]=e4.get()

    if v5.get()==1:

        l[4]=e5.get()

    t1.after(10,t1.destroy())

    if v3.get()==0:

        x1="Update Student%s set Regn\_no=%s where Regn\_no=%s"

        x2="Update Student%s set Name=%s where Regn\_no=%s"

        x3="Update Student%s set Class=%s where Regn\_no=%s"

        x4="Update Student%s set Roll\_no=%s where Regn\_no=%s"

        x5="Update Student%s set Mobile\_no=%s where Regn\_no=%s"

        cr.execute(x1,(l[2],l[0],m))

        cr.execute(x2,(l[2],l[1],m))

        cr.execute(x3,(l[2],l[2],m))

        cr.execute(x4,(l[2],l[3],m))

        cr.execute(x5,(l[2],l[4],m))

        db.commit()

    if v3.get()==1:

        x="insert into Student%s values(%s,%s,%s,%s,%s)"

        cr.execute(x,(int(l[2]),int(l[0]),l[1],int(l[2]),int(l[3]),int(l[4])))

        db.commit()

def stu\_see():

    cr.reset()

    frame.after(10)

    t=Toplevel()

    t.geometry("640x480")

    frame1=Frame(t,width=1200,height=1200)

    frame1.pack()

    tr=ttk.Treeview(frame1)

    tr["columns"]=("Regn No.","Name","Class","Roll No.","Mobile no.")

    tr.column("#0",width=0)

    tr.column("Regn No.",width=120,anchor=W)

    tr.column("Name",anchor=W,width=120)

    tr.column("Class",anchor=CENTER,width=120)

    tr.column("Roll No.",anchor=CENTER,width=120)

    tr.column("Mobile no.",anchor=E,width=120)

    tr.heading("#0",text="",anchor=W)

    tr.heading("Regn No.",text="Regn No.",anchor=W)

    tr.heading("Name",text="Name",anchor=W)

    tr.heading("Class",text="Class",anchor=CENTER)

    tr.heading("Roll No.",text="Roll No.",anchor=CENTER)

    tr.heading("Mobile no.",text="Mobile No.",anchor=E)

    x=0

    ln=[0,0,0,0,0,0,0]

    for i in range(6,13):

        tu=(i,)

        z="Select \* from Student%s"

        cr.execute(z,tu)

        ln[i-6]=cr.fetchall()

    for i in ln:

        for j in i:

            tr.insert(parent='',index='end',iid=x,text="",values=j)

            x+=1

    tr.pack()

def stu\_del():

    frame.after(10)

    t=Toplevel()

    t.geometry("640x400")

    frame1=Frame(t,width=640,height=640)

    frame1.pack()

    l=Label(frame1,text="Enter the registration number").pack(anchor="w")

    e=Entry(frame1,width=50)

    e.pack(anchor="e")

    bt=Button(frame1,text="Submit",command=lambda: del\_db(t,e)).pack(anchor="center")

def del\_db(t,e):

    cr.reset()

    for i in range(6,13):

        tu=(i,e.get())

        z="Select \* from Student%s where Regn\_no=%s"

        cr.execute(z,tu)

        x=cr.fetchone()

        if x!=None:

            l=list(x)

    x="Delete from Student%s where Regn\_no=%s"

    cr.execute(x,(l[2],e.get()))

    db.commit()

    t.after(10,t.destroy())

def stu\_sear():

    frame.after(10)

    t=Toplevel()

    t.geometry("640x400")

    frame1=Frame(t,width=640,height=640)

    frame1.pack()

    l=Label(frame1,text="Enter the registration number").pack(anchor="w")

    e=Entry(frame1,width=50)

    e.pack(anchor="e")

    bt=Button(frame1,text="Submit",command=lambda: sear\_db(t,e)).pack(anchor="center")

def sear\_db(t,e):

    cr.reset()

    for i in range(6,13):

        tu=(i,e.get())

        z="Select \* from Student%s where Regn\_no=%s"

        cr.execute(z,tu)

        x=cr.fetchone()

        if x!=None:

            l=list(x)

    t.after(10,t.destroy())

    t1=Toplevel()

    t1.geometry("1000x500")

    frame1=Frame(t1,width=1000,height=600)

    frame1.pack()

    l1=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    l2=Label(frame1,text="Regn No.:"+str(l[0]),font=("System",15)).pack(anchor=CENTER)

    l3=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    l5=Label(frame1,text="Name:"+str(l[1]),font=("System",15)).pack(anchor=CENTER)

    l6=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    l8=Label(frame1,text="Class:"+str(l[2]),font=("System",15)).pack(anchor=CENTER)

    l7=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    l9=Label(frame1,text="Roll No.:"+str(l[3]),font=("System",15)).pack(anchor=CENTER)

    l4=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    l=Label(frame1,text="Mobile No.:"+str(l[4]),font=("System",15)).pack(anchor=CENTER)

    ll=Label(frame1,text="------------------------------------------------------------------------------------",font=("System",35)).pack(anchor=CENTER)

    b6=Button(frame1,text="Edit profile",command=lambda: stu\_edit(t1)).pack(anchor="center")

frame=Frame(root,width=750,height=670)

frame.pack()

t1=Frame(root)

btn1=Button(frame,text="Enter student records",height=7,width=110,relief=RAISED,bg="#55c2da",command=stu\_rec).place(x=0,y=0)

btn2=Button(frame,text="Edit student records",height=7,width=110,relief=RAISED,bg="#55c2da",command=lambda: stu\_edit(t1)).place(x=0,y=100)

btn3=Button(frame,text="View student records",height=7,width=110,relief=RAISED,bg="#55c2da",command=stu\_see).place(x=0,y=200)

bt4=Button(frame,text="Delete student records",height=7,width=110,relief=RAISED,bg="#55c2da",command=stu\_del).place(x=0,y=300)

bt4=Button(frame,text="Search for student records",height=7,width=110,relief=RAISED,bg="#55c2da",command=stu\_sear).place(x=0,y=400)

btn=Button(frame,text="Exit",height=7,width=110,relief=RAISED,bg="#55c2da",command=root.destroy).place(x=0,y=500)

root.mainloop()