CODING

from tkinter import \*

import mysql.connector as my

import tkinter.ttk as ttk

import tkinter.messagebox as tkMessageBox

#DEVELOPED BY SHAURYA AND TULSIDAS

root = Tk()

root.title("Contact List")

width = 700

height = 400

screen\_width = root.winfo\_screenwidth()

screen\_height = root.winfo\_screenheight()

x = (screen\_width/2) - (width/2)

y = (screen\_height/2) - (height/2)

root.geometry("%dx%d+%d+%d" % (width, height, x, y))

root.resizable(0, 0)

root.config(bg="#6666ff")

#============================VARIABLES===================================

FIRSTNAME = StringVar()

LASTNAME = StringVar()

GENDER = StringVar()

AGE = StringVar()

ADDRESS = StringVar()

CONTACT = StringVar()

#============================METHODS=====================================

def Database():

conn = my.connect(host=localhost,user='root', pasword='root', database='contact')

cursor = conn.cursor()

cursor.execute("CREATE TABLE IF NOT EXISTS `member` (mem\_id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, firstname TEXT, lastname TEXT, gender TEXT, age TEXT, address TEXT, contact TEXT)")

cursor.execute("SELECT \* FROM `member` ORDER BY `lastname` ASC")

fetch = cursor.fetchall()

for data in fetch:

tree.insert('', 'end', values=(data))

cursor.close()

conn.close()

def SubmitData():

if FIRSTNAME.get() == "" or LASTNAME.get() == "" or GENDER.get() == "" or AGE.get() == "" or ADDRESS.get() == "" or CONTACT.get() == "":

result = tkMessageBox.showwarning('', 'Please Complete The Required Field', icon="warning")

else:

tree.delete(\*tree.get\_children())

conn =my.connect("pythontut.db")

cursor = conn.cursor()

cursor.execute("INSERT INTO `member` (firstname, lastname, gender, age, address, contact) VALUES(?, ?, ?, ?, ?, ?)", (str(FIRSTNAME.get()), str(LASTNAME.get()), str(GENDER.get()), int(AGE.get()), str(ADDRESS.get()), str(CONTACT.get())))

conn.commit()

cursor.execute("SELECT \* FROM `member` ORDER BY `lastname` ASC")

fetch = cursor.fetchall()

for data in fetch:

tree.insert('', 'end', values=(data))

cursor.close()

conn.close()

FIRSTNAME.set("")

LASTNAME.set("")

GENDER.set("")

AGE.set("")

ADDRESS.set("")

CONTACT.set("")

def UpdateData():

if GENDER.get() == "":

result = tkMessageBox.showwarning('', 'Please Complete The Required Field', icon="warning")

else:

tree.delete(\*tree.get\_children())

conn =mysql.connector..connect("pythontut.db")

cursor = conn.cursor()

cursor.execute("UPDATE `member` SET `firstname` = ?, `lastname` = ?, `gender` =?, `age` = ?, `address` = ?, `contact` = ? WHERE `mem\_id` = ?", (str(FIRSTNAME.get()), str(LASTNAME.get()), str(GENDER.get()), str(AGE.get()), str(ADDRESS.get()), str(CONTACT.get()), int(mem\_id)))

conn.commit()

cursor.execute("SELECT \* FROM `member` ORDER BY `lastname` ASC")

fetch = cursor.fetchall()

for data in fetch:

tree.insert('', 'end', values=(data))

cursor.close()

conn.close()

FIRSTNAME.set("")

LASTNAME.set("")

GENDER.set("")

AGE.set("")

ADDRESS.set("")

CONTACT.set("")

def OnSelected(event):

global mem\_id, UpdateWindow

curItem = tree.focus()

contents =(tree.item(curItem))

selecteditem = contents['values']

mem\_id = selecteditem[0]

FIRSTNAME.set("")

LASTNAME.set("")

GENDER.set("")

AGE.set("")

ADDRESS.set("")

CONTACT.set("")

FIRSTNAME.set(selecteditem[1])

LASTNAME.set(selecteditem[2])

AGE.set(selecteditem[4])

ADDRESS.set(selecteditem[5])

CONTACT.set(selecteditem[6])

UpdateWindow = Toplevel()

UpdateWindow.title("Contact List")

width = 400

height = 300

screen\_width = root.winfo\_screenwidth()

screen\_height = root.winfo\_screenheight()

x = ((screen\_width/2) + 450) - (width/2)

y = ((screen\_height/2) + 20) - (height/2)

UpdateWindow.resizable(0, 0)

UpdateWindow.geometry("%dx%d+%d+%d" % (width, height, x, y))

if 'NewWindow' in globals():

NewWindow.destroy()

#===================FRAMES==============================

FormTitle = Frame(UpdateWindow)

FormTitle.pack(side=TOP)

ContactForm = Frame(UpdateWindow)

ContactForm.pack(side=TOP, pady=10)

RadioGroup = Frame(ContactForm)

Male = Radiobutton(RadioGroup, text="Male", variable=GENDER, value="Male", font=('arial', 14)).pack(side=LEFT)

Female = Radiobutton(RadioGroup, text="Female", variable=GENDER, value="Female", font=('arial', 14)).pack(side=LEFT)

#===================LABELS==============================

lbl\_title = Label(FormTitle, text="Updating Contacts", font=('arial', 16), bg="orange", width = 300)

lbl\_title.pack(fill=X)

lbl\_firstname = Label(ContactForm, text="Firstname", font=('arial', 14), bd=5)

lbl\_firstname.grid(row=0, sticky=W)

lbl\_lastname = Label(ContactForm, text="Lastname", font=('arial', 14), bd=5)

lbl\_lastname.grid(row=1, sticky=W)

lbl\_gender = Label(ContactForm, text="Gender", font=('arial', 14), bd=5)

lbl\_gender.grid(row=2, sticky=W)

lbl\_age = Label(ContactForm, text="Age", font=('arial', 14), bd=5)

lbl\_age.grid(row=3, sticky=W)

lbl\_address = Label(ContactForm, text="Address", font=('arial', 14), bd=5)

lbl\_address.grid(row=4, sticky=W)

lbl\_contact = Label(ContactForm, text="Contact", font=('arial', 14), bd=5)

lbl\_contact.grid(row=5, sticky=W)

#===================ENTRY===============================

firstname = Entry(ContactForm, textvariable=FIRSTNAME, font=('arial', 14))

firstname.grid(row=0, column=1)

lastname = Entry(ContactForm, textvariable=LASTNAME, font=('arial', 14))

lastname.grid(row=1, column=1)

RadioGroup.grid(row=2, column=1)

age = Entry(ContactForm, textvariable=AGE, font=('arial', 14))

age.grid(row=3, column=1)

address = Entry(ContactForm, textvariable=ADDRESS, font=('arial', 14))

address.grid(row=4, column=1)

contact = Entry(ContactForm, textvariable=CONTACT, font=('arial', 14))

contact.grid(row=5, column=1)

#==================BUTTONS==============================

btn\_updatecon = Button(ContactForm, text="Update", width=50, command=UpdateData)

btn\_updatecon.grid(row=6, columnspan=2, pady=10)

#fn1353p

def DeleteData():

if not tree.selection():

result = tkMessageBox.showwarning('', 'Please Select Something First!', icon="warning")

else:

result = tkMessageBox.askquestion('', 'Are you sure you want to delete this record?', icon="warning")

if result == 'yes':

curItem = tree.focus()

contents =(tree.item(curItem))

selecteditem = contents['values']

tree.delete(curItem)

conn = sqlite3.connect("pythontut.db")

cursor = conn.cursor()

cursor.execute("DELETE FROM `member` WHERE `mem\_id` = %d" % selecteditem[0])

conn.commit()

cursor.close()

conn.close()

def AddNewWindow():

global NewWindow

FIRSTNAME.set("")

LASTNAME.set("")

GENDER.set("")

AGE.set("")

ADDRESS.set("")

CONTACT.set("")

NewWindow = Toplevel()

NewWindow.title("Contact List")

width = 400

height = 300

screen\_width = root.winfo\_screenwidth()

screen\_height = root.winfo\_screenheight()

x = ((screen\_width/2) - 455) - (width/2)

y = ((screen\_height/2) + 20) - (height/2)

NewWindow.resizable(0, 0)

NewWindow.geometry("%dx%d+%d+%d" % (width, height, x, y))

if 'UpdateWindow' in globals():

UpdateWindow.destroy()

#===================FRAMES==============================

FormTitle = Frame(NewWindow)

FormTitle.pack(side=TOP)

ContactForm = Frame(NewWindow)

ContactForm.pack(side=TOP, pady=10)

RadioGroup = Frame(ContactForm)

Male = Radiobutton(RadioGroup, text="Male", variable=GENDER, value="Male", font=('arial', 14)).pack(side=LEFT)

Female = Radiobutton(RadioGroup, text="Female", variable=GENDER, value="Female", font=('arial', 14)).pack(side=LEFT)

#===================LABELS==============================

lbl\_title = Label(FormTitle, text="Adding New Contacts", font=('arial', 16), bg="#66ff66", width = 300)

lbl\_title.pack(fill=X)

lbl\_firstname = Label(ContactForm, text="Firstname", font=('arial', 14), bd=5)

lbl\_firstname.grid(row=0, sticky=W)

lbl\_lastname = Label(ContactForm, text="Lastname", font=('arial', 14), bd=5)

lbl\_lastname.grid(row=1, sticky=W)

lbl\_gender = Label(ContactForm, text="Gender", font=('arial', 14), bd=5)

lbl\_gender.grid(row=2, sticky=W)

lbl\_age = Label(ContactForm, text="Age", font=('arial', 14), bd=5)

lbl\_age.grid(row=3, sticky=W)

lbl\_address = Label(ContactForm, text="Address", font=('arial', 14), bd=5)

lbl\_address.grid(row=4, sticky=W)

lbl\_contact = Label(ContactForm, text="Contact", font=('arial', 14), bd=5)

lbl\_contact.grid(row=5, sticky=W)

#===================ENTRY===============================

firstname = Entry(ContactForm, textvariable=FIRSTNAME, font=('arial', 14))

firstname.grid(row=0, column=1)

lastname = Entry(ContactForm, textvariable=LASTNAME, font=('arial', 14))

lastname.grid(row=1, column=1)

RadioGroup.grid(row=2, column=1)

age = Entry(ContactForm, textvariable=AGE, font=('arial', 14))

age.grid(row=3, column=1)

address = Entry(ContactForm, textvariable=ADDRESS, font=('arial', 14))

address.grid(row=4, column=1)

contact = Entry(ContactForm, textvariable=CONTACT, font=('arial', 14))

contact.grid(row=5, column=1)

#==================BUTTONS==============================

btn\_addcon = Button(ContactForm, text="Save", width=50, command=SubmitData)

btn\_addcon.grid(row=6, columnspan=2, pady=10)

#============================FRAMES======================================

Top = Frame(root, width=500, bd=1, relief=SOLID)

Top.pack(side=TOP)

Mid = Frame(root, width=500, bg="#6666ff")

Mid.pack(side=TOP)

MidLeft = Frame(Mid, width=100)

MidLeft.pack(side=LEFT, pady=10)

MidLeftPadding = Frame(Mid, width=370, bg="#6666ff")

MidLeftPadding.pack(side=LEFT)

MidRight = Frame(Mid, width=100)

MidRight.pack(side=RIGHT, pady=10)

TableMargin = Frame(root, width=500)

TableMargin.pack(side=TOP)

#============================LABELS======================================

lbl\_title = Label(Top, text="Contact Management System", font=('arial', 16), width=500)

lbl\_title.pack(fill=X)

#============================ENTRY=======================================

#============================BUTTONS=====================================

btn\_add = Button(MidLeft, text="+ ADD NEW", bg="#66ff66", command=AddNewWindow)

btn\_add.pack()

btn\_delete = Button(MidRight, text="DELETE", bg="red", command=DeleteData)

btn\_delete.pack(side=RIGHT)

#============================TABLES======================================

scrollbarx = Scrollbar(TableMargin, orient=HORIZONTAL)

scrollbary = Scrollbar(TableMargin, orient=VERTICAL)

tree = ttk.Treeview(TableMargin, columns=("MemberID", "Firstname", "Lastname", "Gender", "Age", "Address", "Contact"), height=400, selectmode="extended", yscrollcommand=scrollbary.set, xscrollcommand=scrollbarx.set)

scrollbary.config(command=tree.yview)

scrollbary.pack(side=RIGHT, fill=Y)

scrollbarx.config(command=tree.xview)

scrollbarx.pack(side=BOTTOM, fill=X)

tree.heading('MemberID', text="MemberID", anchor=W)

tree.heading('Firstname', text="Firstname", anchor=W)

tree.heading('Lastname', text="Lastname", anchor=W)

tree.heading('Gender', text="Gender", anchor=W)

tree.heading('Age', text="Age", anchor=W)

tree.heading('Address', text="Address", anchor=W)

tree.heading('Contact', text="Contact", anchor=W)

tree.column('#0', stretch=NO, minwidth=0, width=0)

tree.column('#1', stretch=NO, minwidth=0, width=0)

tree.column('#2', stretch=NO, minwidth=0, width=80)

tree.column('#3', stretch=NO, minwidth=0, width=120)

tree.column('#4', stretch=NO, minwidth=0, width=90)

tree.column('#5', stretch=NO, minwidth=0, width=80)

tree.column('#6', stretch=NO, minwidth=0, width=120)

tree.column('#7', stretch=NO, minwidth=0, width=120)

tree.pack()

tree.bind('<Double-Button-1>', OnSelected)

#============================INITIALIZATION==============================

if \_\_name\_\_ == '\_\_main\_\_':

Database()

root.mainloop()

OUTPUT

