

## PRACTICAL:

Create a Python program that will allow users to insert a record to a database and enables the user to search records. (database should be online)

Requirements:

1. Database should include 4 fields (excluding the primary key (studentID))
2. Should use GUI

**Note: Upload the Clever-cloud account proof,python file , screenshots of your codes, database, and output. Document it in PDF format.**

```
from tkinter import *
from tkinter import messagebox

import mysql.connector
mydb = mysql.connector.connect(
    host = "biich1irdrf7m9oykb6-mysql.services.clever-cloud.com",
    user = "uxzq8cuz8j2f5ugr",
    password = "DVM1RkKvXTJZcl2HaEEC",
    database = "biich1irdrf7m9oykb6"
)

mycursor = mydb.cursor()

def save():
    if entry1.get() == "" or entry2.get() == "" or entry3.get() == "" or entry4.get() == "":
        messagebox.showwarning("showwarning", "Do not Leave Blanks")
        entry1.focus_set()
    else:
        sql = "INSERT INTO tblstudents1 VALUES (NULL, ' " + entry1.get() + "', ' " + entry2.get() + "', ' " + entry3.get() + "', ' " + entry4.get() + "')"
        mycursor.execute(sql)
        mydb.commit()
        messagebox.showinfo("showinfo", "Record Saved")
        clearEntries()
        btn1["state"] = "disable"
        btn0["state"] = "normal"
        disableEntries()
```

```

def search():
    if entrySearch.get() == "":
        messagebox.showwarning("showwarning", "Search textbox is blank")
    else:
        btn0["state"] = "normal"
        btn1["state"] = "disable"
        btncancel["state"] = "disable"

        mycursor.execute("SELECT * FROM tblstudents1 WHERE StudentID=" + entrySearch.get())
        rows = mycursor.fetchone()

        if (not(rows == None)):
            enableEntries()
            ClearEntries()
            entry1.insert(0, rows[1])
            entry2.insert(0, rows[2])
            entry3.insert(0, rows[3])
            entry4.insert(0, rows[4]) # Assuming the Course is the 5th column
            disableEntries()
        else:
            enableEntries()
            ClearEntries()
            messagebox.showwarning("showwarning", "Record not found")

```

```

def ClearEntries():
    entry1.delete(0, END)
    entry2.delete(0, END)
    entry3.delete(0, END)
    entry4.delete(0, END) # Make sure to delete the text from the new Course entry

def disableEntries():
    entry1["state"] = "disable"
    entry2["state"] = "disable"
    entry3["state"] = "disable"
    entry4["state"] = "disable" # Disable the new Course entry

def add():
    enableEntries()
    ClearEntries()
    entry1.focus_set()
    btn0["state"] = "disable"
    btn1["state"] = "normal"
    btncancel["state"] = "normal"

def cancel():
    btn0["state"] = "normal"
    btn1["state"] = "disable"
    btncancel["state"] = "disable"
    disableEntries()

def enableEntries():
    entry1["state"] = "normal"
    entry2["state"] = "normal"
    entry3["state"] = "normal"
    entry4["state"] = "normal"

```

```

root = Tk()
root.title("Database Example")
root.geometry("500x500")
root.resizable(width=False, height=False)
lbl1 = Label(root, text="First Name:", font="Arial 20 bold")
lbl2 = Label(root, text="Last Name:", font="Arial 20 bold")
lbl3 = Label(root, text="Age:", font="Arial 20 bold")
lbl4 = Label(root, text="Sex:", font="Arial 20 bold")

entry1 = Entry(root, font="Arial 20 bold", state="disable")
entry2 = Entry(root, font="Arial 20 bold", state="disable")
entry3 = Entry(root, font="Arial 20 bold", state="disable")
entry4 = Entry(root, font="Arial 20 bold", state="disable")
entrySearch = Entry(root, font="Arial 20 bold")

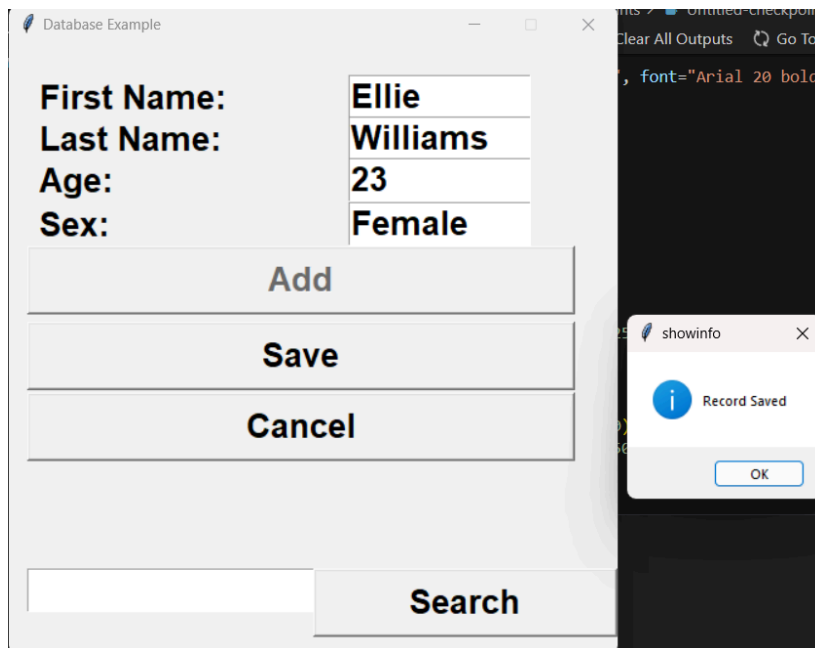
btn0 = Button(root, text="Add", font="Arial 20 bold", command=add)
btn1 = Button(root, text="Save", font="Arial 20 bold", command=save)
btn1["state"] = "disable"
btncancel = Button(root, text="Cancel", font="Arial 20 bold", command=cancel)
btncancel["state"] = "disable"
btnsearch = Button(root, text="Search", font="Arial 20 bold", command=search)

lbl1.place(x=22, y=26)
lbl2.place(x=22, y=60)
lbl3.place(x=22, y=94)
lbl4.place(x=22, y=130)

entry1.place(x=279, y=26, width=150)
entry2.place(x=279, y=60, width=150)
entry3.place(x=279, y=94, width=150)
entry4.place(x=279, y=130, width=150)
entrySearch.place(x=15, y=430, width=250)

btn0.place(x=15, y=166, width=450)
btn1.place(x=15, y=228, width=450)
btncancel.place(x=15, y=286, width=450)
btnsearch.place(x=250, y=430, width=250)
root.mainloop()

```



Database Example

First Name:

Kaith

Last Name:

Villas

Age:

19

Sex:

Female

Add

Save

Cancel

2

Search

phpMyAdmin

Recent

Favorites

biich1irdrqf7m9oykb6

New

tblstudents1

information\_schema

Server: biich1irdrqf7m9oykb6-mysql.services.clever-cloud.com 3306 » Database: biich1irdrqf7m9oykb6 » Ta

Browse

Structure

SQL

Search

Insert

Export

Import

More

Showing rows 0 - 9 (10 total, Query took 0.0007 seconds.)

SELECT \* FROM `tblstudents1`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

StudentID

FirstName

LastName

Age

Sex

Edit

Copy

Delete

1

Ellie

Williams

23

Female

Edit

Copy

Delete

2

Kaith

Villas

19

Female

Edit

Copy

Delete

3

Angel

Espinosa

18

Female

Edit

Copy

Delete

4

Mikael

Agbulos

19

Female

Edit

Copy

Delete

5

Franklin

Clinton

25

Male

Edit

Copy

Delete

6

Michael

De Santa

48

Male

Edit

Copy

Delete

7

Sophie

Santos

19

Female

Edit

Copy

Delete

8

Aseiah

Samonte

18

Female

Edit

Copy

Delete

9

Sam

Gaspar

18

Female

Edit

Copy

Delete

10

Marie

Isip

18

Female

Check all

With selected:

Edit

Copy

Delete

Export

Server: biich1irdrqf7m9oykb6-mysql.services.clever-cloud.com:3306 » Database: biich1irdrqf7m9oykb6 » Table: ...

[Browse](#)
[Structure](#)
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[Import](#)
[More](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>StudentID</b>	int			No	None		AUTO_INCREMENT	Char
<input type="checkbox"/> 2	<b>FirstName</b>	varchar(50)	utf8_general_ci		Yes	NULL			Char
<input type="checkbox"/> 3	<b>LastName</b>	varchar(50)	utf8_general_ci		Yes	NULL			Char
<input type="checkbox"/> 4	<b>Age</b>	int			Yes	NULL			Char
<input type="checkbox"/> 5	<b>Sex</b>	varchar(50)	utf8_general_ci		Yes	NULL			Char

☐ Check all
 With selected:
 [Browse](#)
 Change
 Drop
 Primary
 Unique

Index
 Spatial
 Fulltext

## Email addresses

### Primary email address

This is the address used to create your account.  
All notifications are sent to this address.

✉ mkavillas@tip.edu.ph ✓ Verified