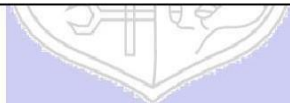




**Experiment No.: 08**

**Title:** Demonstration of database



**Batch: B1****Roll No.: 16010420133****Experiment No.: 08****Aim:** To demonstrate database using Mini Project.**Resources needed:** MySql, Python, Notepad/Text Editor, Internet Connection**Code:**

```
from tkinter import *
import mysql.connector

root = Tk()

root.title('dbms')
root.geometry('320x500')

# Connecting the database
conn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Soumen",
    database="user"
)

# function to delete a record
def delete():
    c = conn.cursor()

    # Delete a record
    c.execute('DELETE FROM login WHERE roll_no = ' + delete_box.get())
    conn.commit()
    # Clear the box
    delete_box.delete(0, END)

# Submit function
def submit():
    c = conn.cursor()
    sql = ("INSERT INTO login VALUES(%s,%s,%s)", (roll_no.get(), name.get(),
password.get()))
    c.execute(*sql)
    conn.commit()

    # Clear the text boxes
    roll_no.delete(0, END)
    name.delete(0, END)
    password.delete(0, END)

# Query function
def query():
    c = conn.cursor()

    # Query the database
    c.execute('SELECT * FROM login')
    records = c.fetchall()
```

```

        # print(records)
        print_records = ''
        for record in records:
            print_records += str(record) + "\n"

        query_label = Label(root, text=print_records)
        query_label.grid(row=10, column=0, columnspan=2)
def validateLogin(login_id,username, password):
    print("eloginid:",login_id.get())
    print("username entered :", username.get())
    print("password entered :", password.get())
    return

#window
tkWindow = Tk()
tkWindow.geometry('400x150')
tkWindow.title('Soumen samanta login form ')

elloginid=Label(tkWindow,text='loginid').grid(row=0,column=2)
login_id=StringVar()
elloginentry=Entry(tkWindow,textvariable=login_id).grid(row=0,column=1)

#username label and text entry box
usernameLabel = Label(tkWindow, text="User Name").grid(row=1, column=0)
username = StringVar()
usernameEntry = Entry(tkWindow, textvariable=username).grid(row=1, column=1)

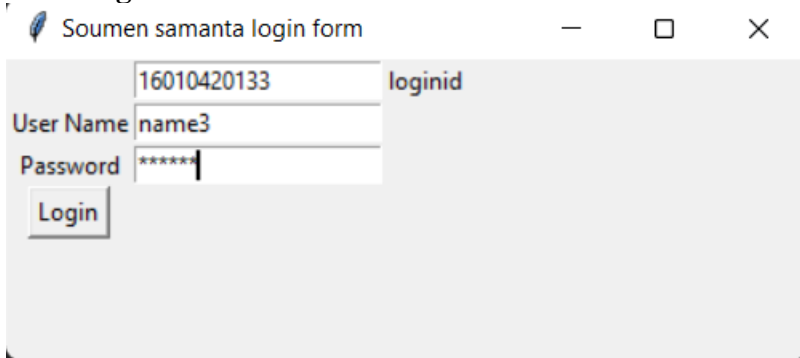
#password label and password entry box
passwordLabel = Label(tkWindow,text="Password").grid(row=2, column=0)
password = StringVar()
passwordEntry = Entry(tkWindow, textvariable=password, show='*').grid(row=2,
column=1)

validateLogin = partial(validateLogin,login_id, username, password)

#login button
loginButton = Button(tkWindow, text="Login", command=validateLogin).grid(row=4,
column=0)

root.mainloop()

```

**Output:****Adding Record:**

Soumen samanta login form

loginid: 16010420133

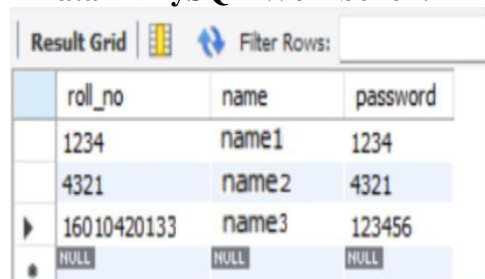
User Name: name3

Password: \*\*\*\*\*

Login

**Displaying all Records:**

```
elloginid: 1234
username entered : name1
password entered : 1234
elloginid: 4321
username entered : name2
password entered : 4321
elloginid: 16010420133
username entered : name3
password entered : 123456
█
```

**Data in MySQL Workbench:**


roll_no	name	password
1234	name1	1234
4321	name2	4321
16010420133	name3	123456
NULL	NULL	NULL

**Outcomes:**

**CO1:** Realize the features of Relational database management systems.

**CO3:** Illustrate the concept of security, Query processing, indexing and Normalization for relational database.

**Conclusion:**

Successfully demonstrated database application using python programming language and Mysql.

**Grade: AA / AB / BB / BC / CC / CD /DD**

**Signature of faculty in-charge with date**

**Reference books:**

1. Elmasri and Navathe, “Fundamentals of Database Systems”, 6<sup>th</sup> Edition, Pearson Education
2. Korth, Silberchatz, Sudarshan, :”Database System Concepts”, 6th Edition, McGraw – Hill.

**WebSite:**

1. <http://www.tutorialspoint.com/postgresql/>

