Assignment -2

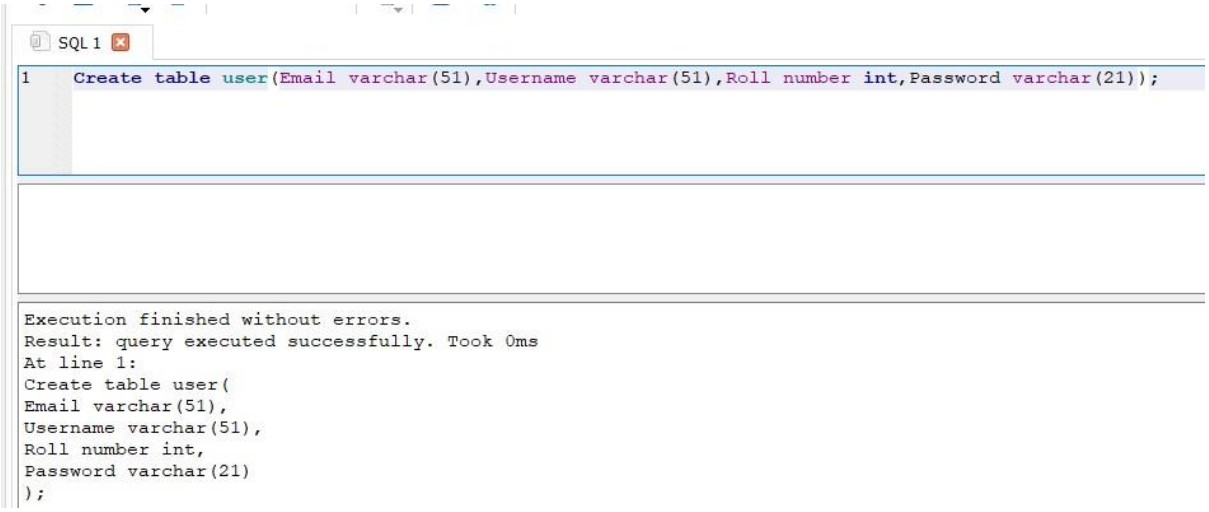
Python Programming

Assignment Date	19 September 2022
Student Name	NITHYA SHREE V
Student Roll Number	111719205030
Maximum Marks	2 Marks

Question:

1) Create user table with user with email, username , roll number and password

```
-- Creating a user table in sqlite3

Create table user(

Email varchar(51),

Username varchar(51),

Roll number int,

Password varchar(21)

);
```



2)Perform UPDATE, DELETE Queries with user table

```
-- inserting a data to the user table
insert into user(email,username,roll_number,password) values('abc@gmail.com','ABC',1,'abc@123');
insert into user(email,username,roll_number,password) values('abcd@gmail.com','ABCD',2,'abcd@123');
-- Update table
update user set email='ABC@gmail.com' where roll_number=1;
-- Delete table
delete from user where roll_number = 2;
```

```
Execution finished without errors.
Result: query executed successfully. Took 0ms
At line 6:
-- Delete table
delete from user where roll_number = 2;
```

3) Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

Sign up page output:

Signup page html code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sign up</title>
</head>
<body>
    <h1>Signup page</h1>
    <form method="POST" action="">
        <p>Username</p>
        <input type="text" name="username" id="username" required>
        <p>Email</p>
        <input type="text" name="email" id="email" required>
        <p>Roll number</p>
        <input type="number" name="rno" id="rno" required>
        <p>Password</p>
        <input type="password" name="password" id="password" required>
        <br><br>
        <input type="submit" value="Signup">
```

```
        <br><br>
        <small>Already have an account <a href="{{ url_for('login')
}}">Login</a></small>
    </form>
</body>
</html>
```

Signup function in flask:

```
@app.route("/",methods=["GET","POST"])
def signup():     if
(request.method=="POST"):
        rno = request.form.get("rno",'')
email = request.form.get("email")
username = request.form.get("username",'')
password = request.form.get("password",'')
         with sqlite3.connect("users.db") as
con:
            cur = con.cursor()
cur.execute("INSERT INTO user
(roll_number,email,username,password)
VALUES
(?,?,?,?)",(rno,email,username,password) )
con.commit()         return
redirect(url_for('login'))     return
render_template("signup.html")
```

Login page output:

Login page HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Login</title>
</head>
<body>
    <p>{{msg}} </p>
    <h1>Login page</h1>
    <form method="POST" action="">
        <p>Username</p>
        <input type="text" name="username" id = "username">
        <p>Password</p>
        <input type="password" name="password" id="password">
        <br><br>
        <input type="submit" value="Login">
        <p><small>New user <a href="{{ url_for('signup')
}}">Signup</a></small></p>
    </form>
</body>
</html>
```

Login function flask code:

```
@app.route("/login",methods=["GET","POST"])
def login():     if request.method=="POST":
        username = request.form.get("username",'')
password = request.form.get("password",'')         with
sqlite3.connect("users.db") as con:
            cur = con.cursor()             cur.execute("select *
from user where username=(?) and
password=(?)",(username,password))             result =
cur.fetchone()             con.commit()             if
result==None:
                return render_template("login.html",msg="Invalid Username and
password")             else:
                return render_template("home.html",username=result[1])
return render_template("login.html")
```

Home page html code:

```
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Home page</title>
</head>
<body>
    <p>Welcome {{username}}</p>
</body>
</html>
```

Home page output:

Welcome User