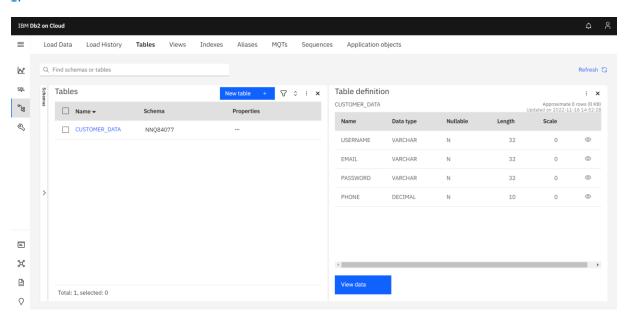
## Assignment -2

### Question-1:

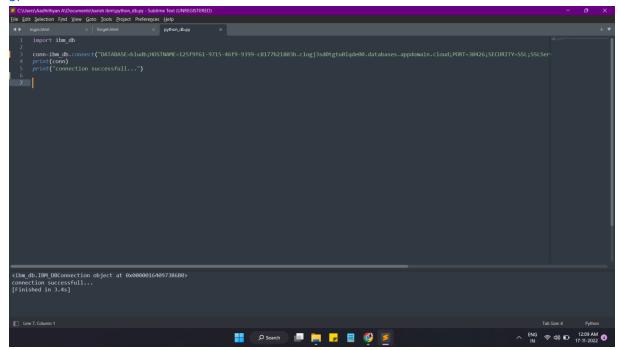
- 1.Create User table with user with email, username, roll number, password.
- 2. Perform UPDATE, DELETE Queries with user table
- 3. Connect python code to db2.
- 4. Create a flask app with registration page, login page and welcome page.

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.

1.



3.



## 4.

## Base.html:

```
.back{
             background-color:
      black;
      }
      .sub{ background-color:
      black; color: white;
      border-radius: 1rem;
      .box{
        border-radius: 1rem;
      background-color: black; color:
      white;
Dashboard.html:
      {% extends 'base.html' %}
      {% block head %}
      <title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Welcome to dashboard.. {{ msg }}
        </h1>
        <hr>
      </div>
      {% endblock %}
Login.html:
      {% extends 'base.html' %}
      {% block head %}
      <title>Login</title>
```

```
{% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Login
        </h1>
        <hr>
        <form action="/login" method="POST">
          <br>
          username: <input type="text" class="box" name="username" id="username"><br><br>
          Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
          <input type="submit" class="sub" value="Sign in">
        </form>
        Don't have account? <a href="/signup">Sign up</a>
      </div>
      {% endblock %}
Signup.html:
      {% extends 'base.html' %}
      {% block head %}
      <title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Sign Up
        </h1>
        <hr>
        <form action="/signup" method="POST">
          <br>
```

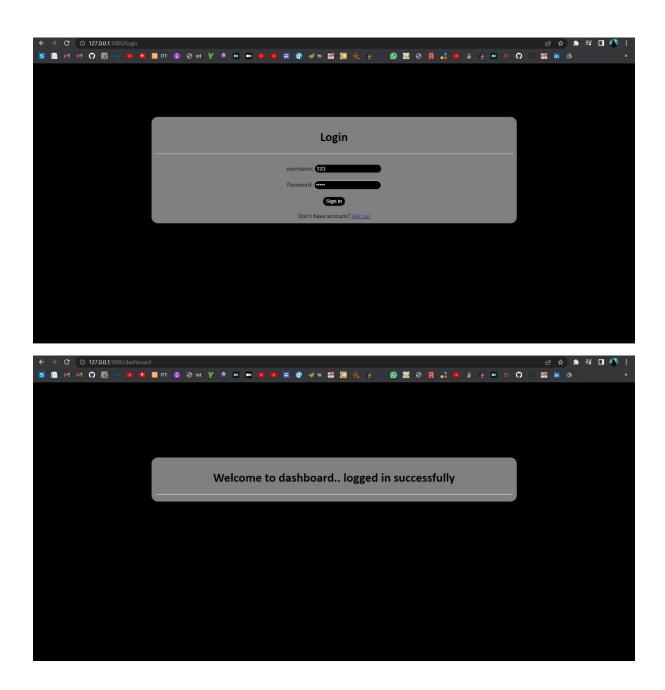
```
username: <input type="text" class="box" name="username" id="username"><br><br><br>
       email: <input type="text" class="box" name="email" id="eamil"><br><br>
           Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
           <input type="submit" class="sub" value="Sign up"><br>
         </form>
         Already have an account? <a href="/login">Login</a>
       </div>
       {% endblock %}
App.py:
       from flask import Flask, render_template, request, session, redirect, url_for
       import ibm db import
       re import ibm db dbi
       app = Flask(__name__)
       app.secret key = 'a'
       conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-
       a1f523dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURIT
       SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0AOYeLVKq
       ", ", ")
       @app.route('/login', methods=['POST', "GET"])
       def login():
       global userid
       msg = "
         if request.method == 'POST':
           username = request.form['username']
                                                   password =
       request.form['passwd']
                                sql = "select * from users where
       username = ? and password = ?" stmt = ibm_db.prepare(conn,
       sql)
               ibm db.bind param(stmt, 1, username)
```

```
ibm_db.bind_param(stmt, 2, password)
                                          ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
    print(account)
if account:
      session['Loggedin'] = True
session['id'] = account['USERNAME']
                                         userid
= account['USERNAME']
                             session['username']
= account['USERNAME']
                             msg = 'logged in
successfully'
      return render_template('dashboard.html', msg=msg)
    else:
      msg = 'Incorrect user credentials'
                                            return
render_template('dashboard.html', msg=msg)
  else:
    return render_template('login.html')
@app.route('/signup', methods=["POST", "GET"])
def signup(): if request.method == "POST":
username = request.form['username']
                                        email =
request.form['email']
                        password =
request.form['passwd']
                          sql = "select * from
users where username = ?"
                              stmt =
ibm db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)
                        account =
ibm_db.fetch_assoc(stmt)
    print(account)
if account:
      msg = 'Acccount already exists'
                                        elif not
re.match(r'[^@]+@[^@]+\.[^@]+', email):
```

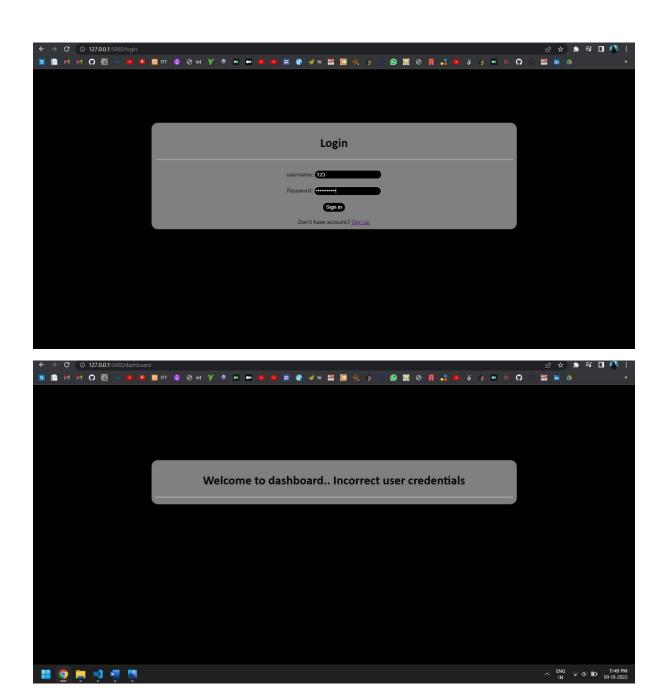
```
msg = 'invalid email'
                            elif not
re.match(r'[A-Za-z0-9]+', username):
      msg = 'name must contain charectors and numbers'
    else:
      insert sql = "insert into users values(?,?,?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)
      print("successs")
                            msg
= "succesfully signed up"
    return render_template('dashboard.html', msg=msg)
  else:
    return render_template('signup.html')
if __name__ == '__main__':
app.run(debug=False) Output:
```

Login:

With correct credentials:



With wrong credentials:



# Sign up:

