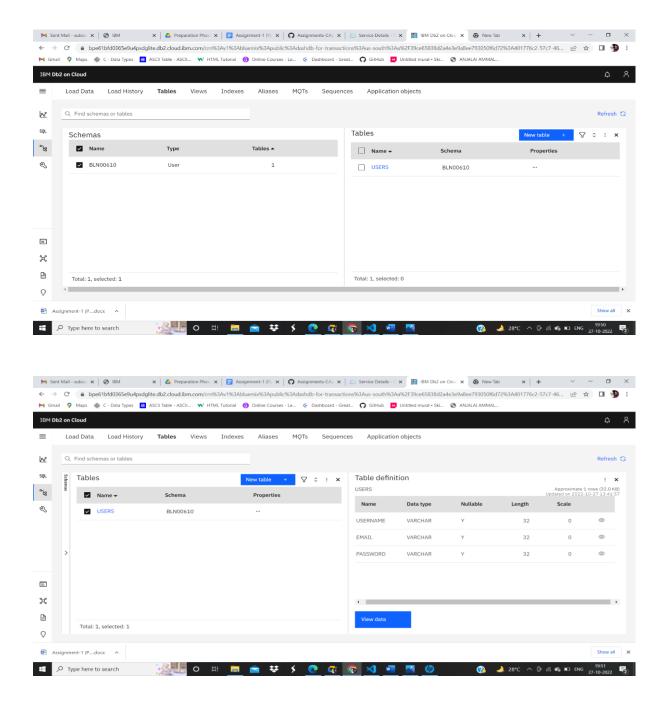
Assignment -2

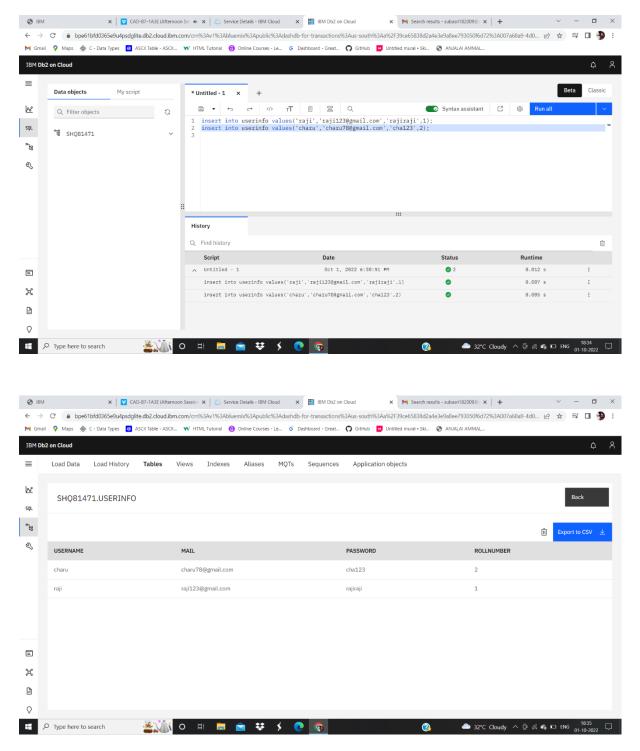
Assignment Date	28 September 2022
Student Name	Ms. Nithyashree R
Student Roll Number	820419104046
Maximum Marks	2 Marks

Question-1:

Create User table with user with email, username, roll number, password.

Solution:

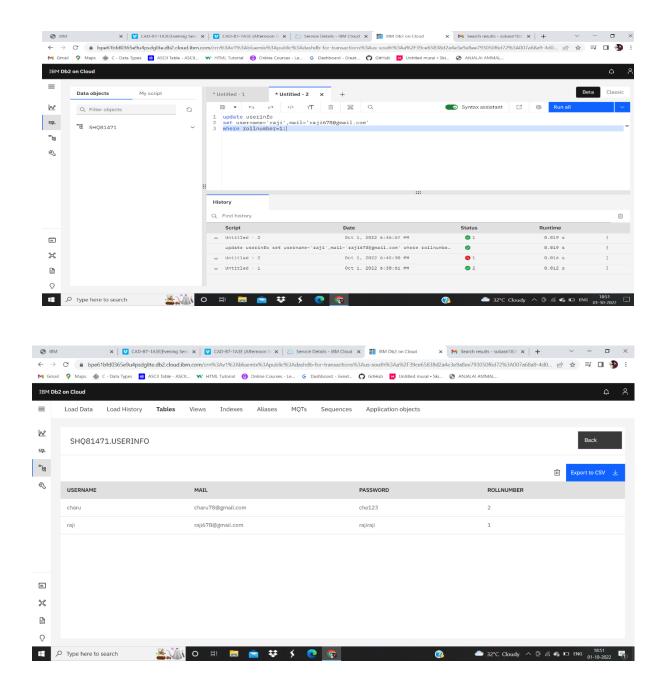




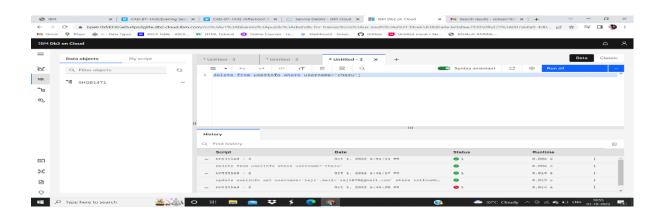
Question-2:

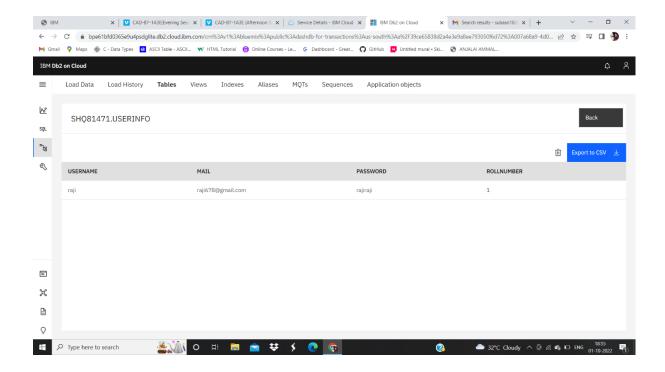
Perform UPDATE, DELETE Queries with user table

Solution: update



Delete

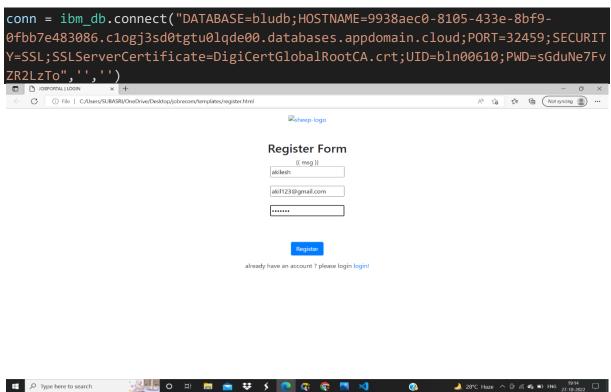


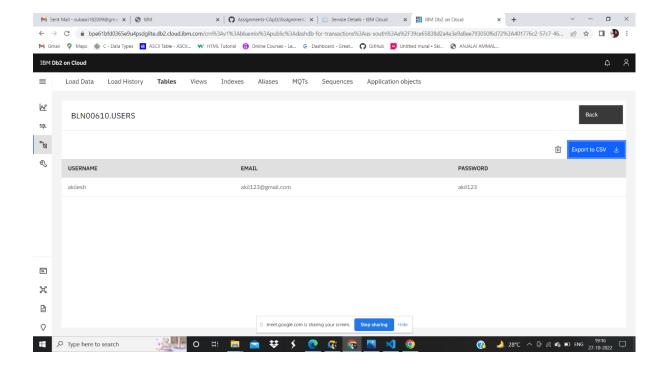


Question-3:

Connect python code to db2.

Solution:





Question-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

Solution:

App.py

```
# -*- coding: utf-8 -*-
"""
Created on Sat Oct 1 19:03:39 2022

@author: SUBASRI
"""

from flask import Flask,render_template, request, redirect,url_for, session
import ibm_db
import re

app = Flask(__name__)
app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-
0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=bln00610;PWD=sGduNe7Fv
ZR2LzTo",'','')

def homer():
```

```
return render_template('home.html')
@app.route('/login',methods =['GET', 'POST'])
def login():
    global userid
    msg=" "
    if request.method == 'POST' :
       username = request.form['username']
       email = request.form['email']
       password = request.form['password']
       sql = "SELECT * FROM users WHERE username =? AND password =?"
       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:
            session['loggedin'] = True
            session['id'] = account['USERNAME']
            userid= account['USERNAME']
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
            msg = 'Logged in successfully !'
            return render_template('dashboard.html', msg = msg)
    else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)
@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = " "
    if request.method == 'POST' :
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        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 = 'Account already exists !'
        elif not re.match(r'[^{0}]+0[^{0}]+\.[^{0}]+\, email):
            msg = 'Invalid email address !'
```

```
elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'name must contain only characters 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)
            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render template('register.html', msg = msg)
@app.route('/dashboard')
def dash():
    return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
     msg = ''
     if request.method == 'POST' :
         username = request.form['username']
         email = request.form['email']
         qualification= request.form['qualification']
         skills = request.form['skills']
         jobs = request.form['s']
         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 = 'there is only 1 job position! for you'
            return render_template('apply.html', msg = msg)
         insert_sql = "INSERT INTO job 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, qualification)
         ibm_db.bind_param(prep_stmt, 4, skills)
         ibm_db.bind_param(prep_stmt, 5, jobs)
         ibm_db.execute(prep_stmt)
         msg = 'You have successfully applied for job !'
```

```
session['loggedin'] = True
         TEXT = "Hello, a new application for job position" +jobs+"is
requested"
     elif request.method == 'POST':
         msg = 'Please fill out the form !'
     return render_template('apply.html', msg = msg)
@app.route('/display')
def display():
    print(session["username"],session['id'])
    cursor = mysql.connection.cursor()
    cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
    account = cursor.fetchone()
    print("accountdislay",account)
    return render_template('display.html',account = account)
@app.route('/logout')
def logout():
   session.pop('loggedin', None)
   session.pop('id', None)
   session.pop('username', None)
   return render_template('home.html')
if __name__ == ' main ':
  app.run(host='0.0.0.0')
```

Registration page

```
<link rel="icon" type="image/png" sizes="16x16"</pre>
href="/assets/img/favicon-32x32.png">
        <!-- bootstrap css cdn -->
        <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
' integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
        <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.css">
        <!-- css stylesheet -->
        <link rel="stylesheet" href="css/style.css">
        <!-- font styles cdn -->
        <link rel="preconnect" href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <!-- bootstrap navbar -->
    <div class="logo mt-3 text-center">
        <a class="main-logo-img mt-5" href="#"><img</pre>
src="static/img/smartinternz.png" alt="sheep-logo" height="50px"
width="180px">
            <!-- <a class="navbar-brand" href="index.html">JobPortal</a> -->
          </a>
    </div>
    <div class="login text-center mt-5">
        <h2> Register Form </h2>
        <form action="/register" method="post">
        <div class="msg">{{ msg }}</div>
            <!-- <input type="text" placeholder="fullname" id="fullname">
</br></br> -->
            <input type="text" name="username" placeholder="Enter Your</pre>
Username" id="username" required></br></br>
            <input type="email" name="email" placeholder="Enter Your Email</pre>
ID" id="email" required></br></pr>
            <input type="password" name="password" placeholder="Enter Your</pre>
Password" id="password" required></br>
            </br>
```

Login page

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>JOBPORTAL | LOGIN</title>
        <!-- favicon -->
        <!-- <li>k rel="shortcut icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
        <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-
        <link rel="icon" type="image/png" sizes="16x16"</pre>
href="/assets/img/favicon-32x32.png">
        <!-- bootstrap css cdn -->
        <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
        <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.css">
        <!-- css stylesheet -->
        <link rel="stylesheet" href="css/style.css">
        <!-- font styles cdn -->
        <link rel="preconnect" href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
```

```
link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <!-- bootstrap navbar -->
    <div class="logo mt-3 text-center">
        <a class="main-logo-img mt-5" href="#"><img</pre>
src="static/img/smartinternz.png" alt="sheep-logo" height="50px"
width="180px">
            <!-- <a class="navbar-brand" href="index.html">JobPortal</a> -->
    </div>
      <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <h2> Login Form </h2>
        <form action="/login" method="post">
        <div class="msg">{{ msg }}</div>
            <input type="text" name="username" placeholder="Enter Your</pre>
Username" id="username" required></br></br>
            <input type="password" name="password" placeholder="Enter Your</pre>
Password" id="password" required></br>
            </br>
            </br>
        <button type="submit" id="button" class="btn btn-primary"> Login
</button>
        </form>
    </div>
    <div class="note mt-3 text-center"> <!--Register form -->
     Don't have an account yet? Click here to <a href="register">register!
</a> 
    </div>
</body>
</html>
```

