ASSIGNMENT 2

Student Name	Renugadevi B
Student Roll Number	820519205032
Maximum Marks	2 Marks

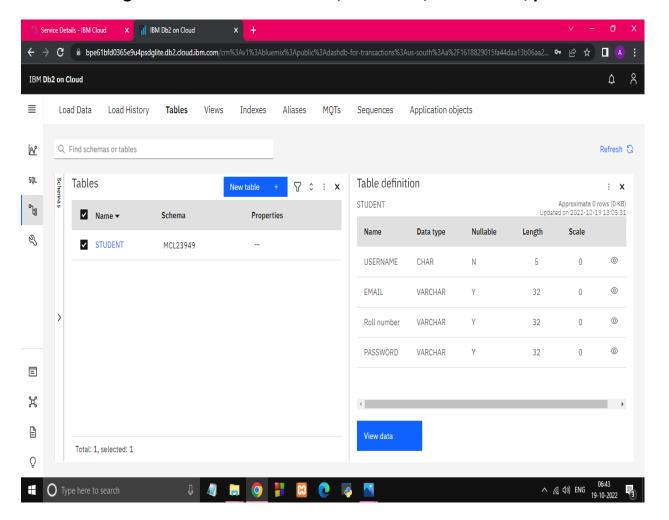
Questions:

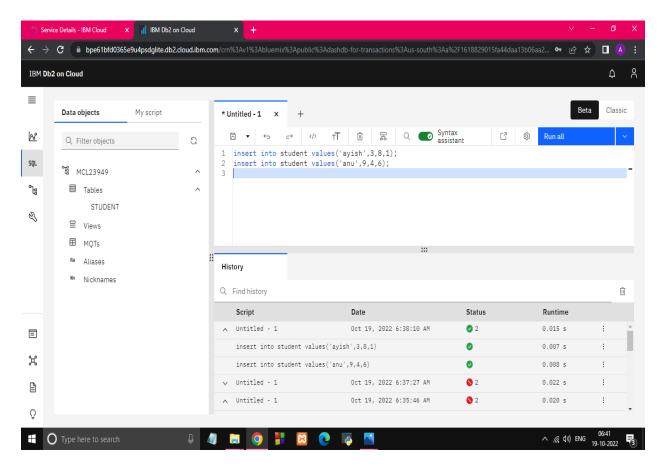
Create User table with user email, username, roll number, password.

- 1. Perform UPDATE, DELETE Queries with user table.
- 2. Connect python code to db2.
- 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.

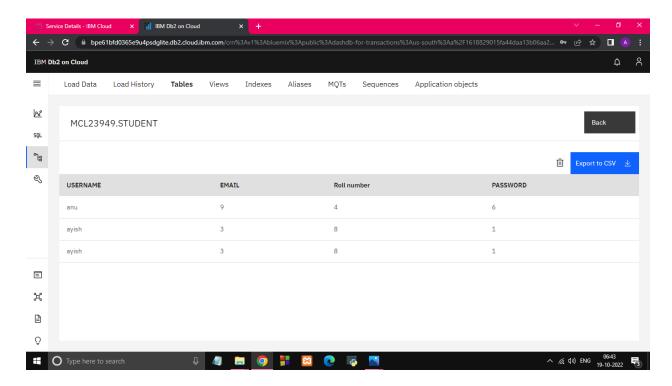
Solutions:

1. Creating user table with user email, username, roll number, password.

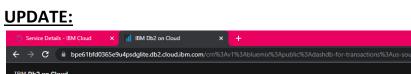


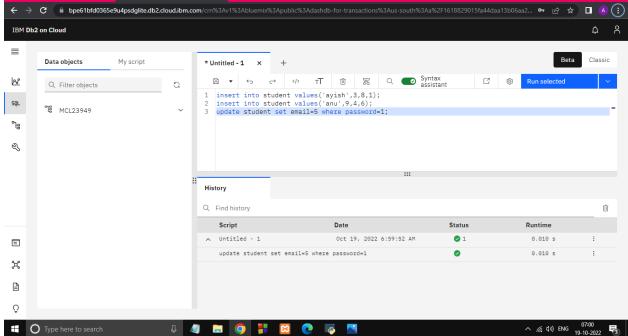


Output:

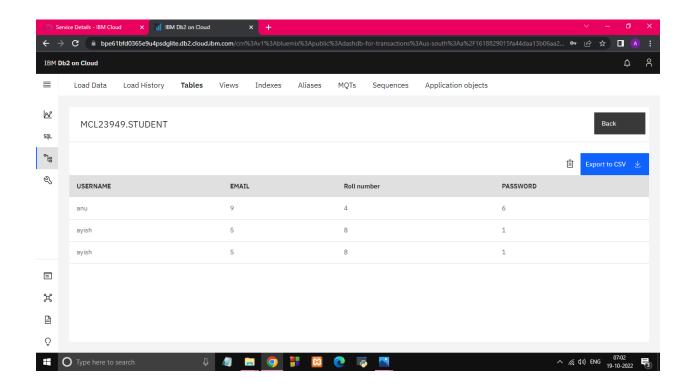


2. Performing UPDATE, DELETE Queries with user table:

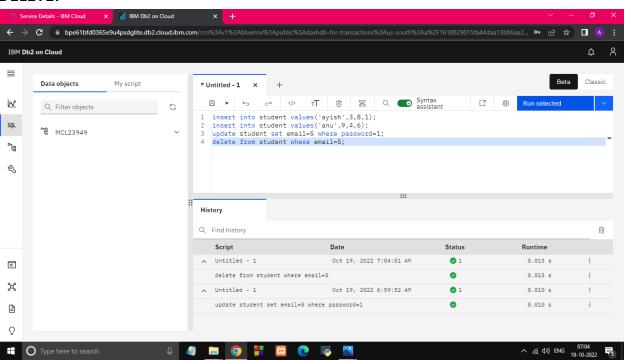




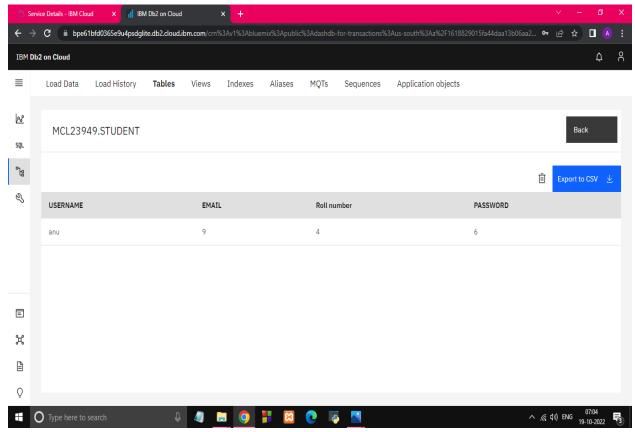
OUTPUT:



DELETE:



OUTPUT:



3. Connect python code to db2:

```
import ibm_db
conn=
ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-
0fbb7e483086.clogj3sd0tgtu0lqde00.datbases.appdomain.cloud;PORt=32459;SECURITY=SSI;SSL
ServerCertificate=DigiCertGlobalRoot.crt;UID=mcl23949;PWD=dmUiv2o6zjDMw0Ea",)
print(conn)
print("connection successful...")
```

4. Creating a flask app with registration page, login page and welcome page:

Store this code in 'app.py' file

```
from flask import Flask, render_template, request, redirect, url_for, session import ibm_db import re conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.clogj3sd0tgtu0lqde00.datbases.appdomain.cloud;PORt=32459;SECURITY=SSI;SSL ServerCertificate=DigiCertGlobalRoot.crt;UID=mcl23949;PWD=dmUiv2o6zjDMw0Ea",) app = Flask(__name__)
```

```
app.secret_key='a'
conn = ibm db.connect()
@app.route('/')
@app.route('/login', methods =['GET', 'POST'])
def login():
       msg = "
       if request.method == 'POST' and 'username' in request.form and 'password' in
request.form:
               username = request.form['username']
               password = request.form['password']
               sql=('SELECT * FROM users WHERE username = % s AND password = % s',
(username, 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.fet assoc(stmt)
               print(account)
               if account:
                       session['loggedin'] = True
                       session['id'] = account['id']
                       session['username'] = account['username']
                       msg = 'Logged in successfully!'
                       return render_template('index.html', msg = msg)
               else:
                       msg = 'Incorrect username / password !'
       return render template('login.html', msg = msg)
@app.route('/logout')
def logout():
       session.pop('loggedin', None)
       session.pop('id', None)
       session.pop('username', None)
       return redirect(url_for('login'))
@app.route('/register', methods =['GET', 'POST'])
def register():
       if request.method == 'POST' and 'username' in request.form and 'password' in
request.form and 'email' in request.form:
               username = request.form['username']
               password = request.form['password']
```

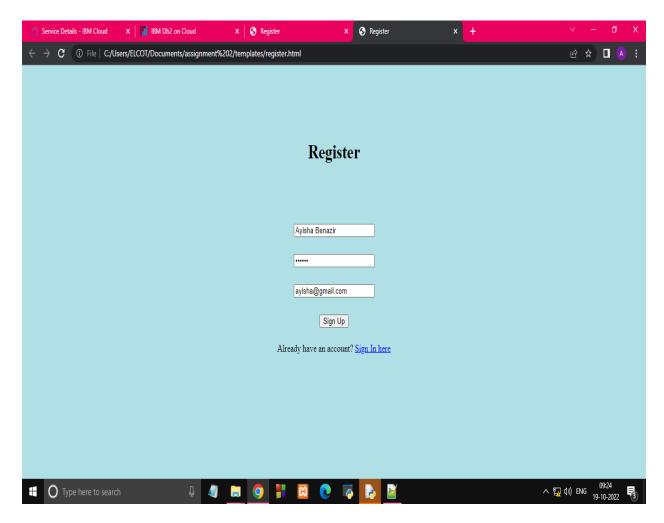
```
email = request.form['email']
               sql=('SELECT * FROM users WHERE username = % s AND password = % s',
(username, password, ))
               stmt = ibm_db.prepare(conn,sql)
               ibm db.bind param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm db.fet assoc(stmt)
        print(account)
               if account:
                       msg = 'Account already exists!'
               elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
                       msg = 'Invalid email address!'
               elif not re.match(r'[A-Za-z0-9]+', username):
                       msg = 'Username must contain only characters and numbers !'
               elif not username or not password or not email:
                       msg = 'Please fill out the form!'
               else:
                       insert_sql=('INSERT INTO accounts VALUES (NULL, % s, % s, % s)',
(username, password, email, ))
                       prep_stmt = ibm_db.prepare(conn,insert_sql)
               ibm_db.bind_param(prep_stmt,1,username)
        ibm db.bind param(stmt,2,password)
        ibm db.bind param(stmt,3,email)
        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)
 if __name__=='__main___':
    app.run(host='0.0.0.0')
register.html:
<html>
       <head>
               <meta charset="UTF-8">
               <title> Register </title>
               <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body style="background-color:powderblue;"></br></br></br>
               <div align="center">
```

```
<div align="center" class="border">
                      <div class="header">
                             <h1 class="word">Register</h1>
                      </div></br></br>
                      <h2 class="word">
                             <form action="{{ url_for('register') }}" method="post">
                                    <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br>
                                    <input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br>
                                    <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br>
                                    <input type="submit" class="btn" value="Sign
Up"></br>
                             </form>
                      </h2>
                      Already have an account? <a class="bottom"</pre>
href="{{url_for('login')}}"> Sign In here</a>
              </div>
              </div>
       </body>
</html>
login.html:
<html>
       <head>
              <meta charset="UTF-8">
              <title> Login </title>
              <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
              <div align="center">
              <div align="center" class="border">
                      <div class="header">
                             <h1 class="word">Login</h1>
                      </div></br></br>
                      <h2 class="word">
                             <form action="{{ url_for('login') }}" method="post">
                                    <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br>
```

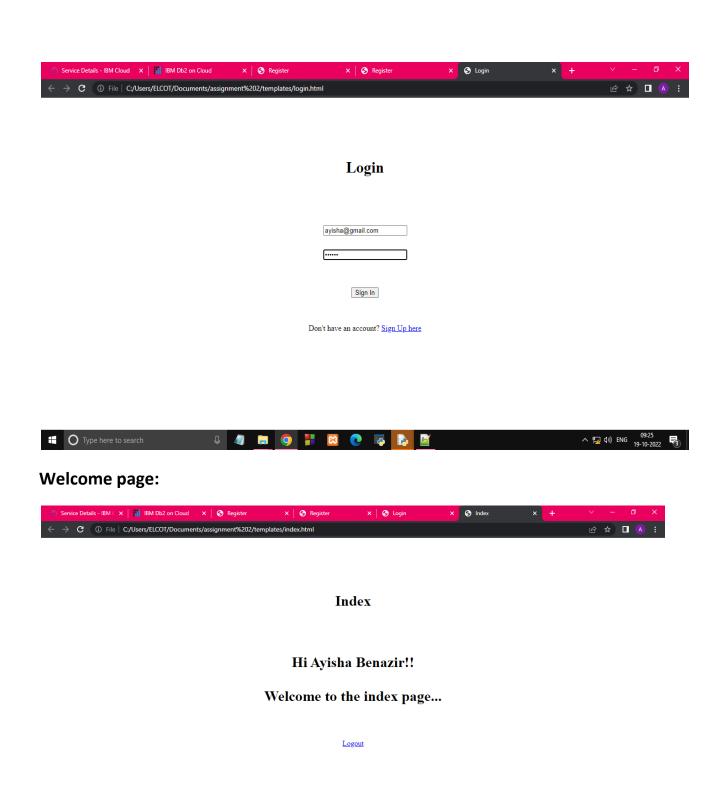
```
<input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
                                    <input type="submit" class="btn" value="Sign
In"></br></br>
                             </form>
                      </h2>
                      Don't have an account? <a class="bottom"</pre>
href="{{url_for('register')}}"> Sign Up here</a>
              </div>
              </div>
       </body>
</html>
Index.html:
<html>
       <head>
              <meta charset="UTF-8">
              <title> Index </title>
              <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
              <div align="center">
              <div align="center" class="border">
                      <div class="header">
                             <h1 class="word">Index</h1>
                      </div></br></br>
                             <h1 class="bottom">
                                    Hi {{session.username}}!!</br></br> Welcome to the
index page...
                             </h1></br></br>
                             <a href="{{ url_for('logout') }}" class="btn">Logout</a>
              </div>
              </div>
       </body>
</html>
```

OUTPUT:

Register page:



login page:



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