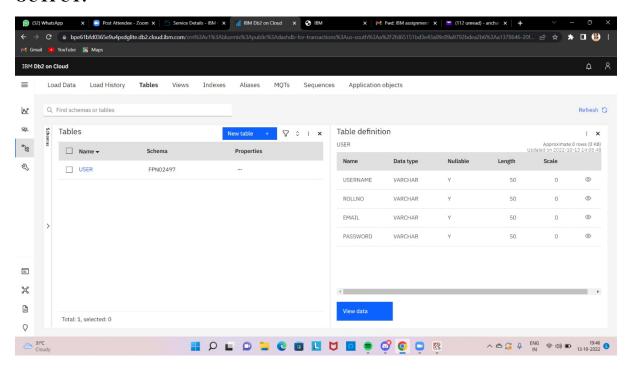
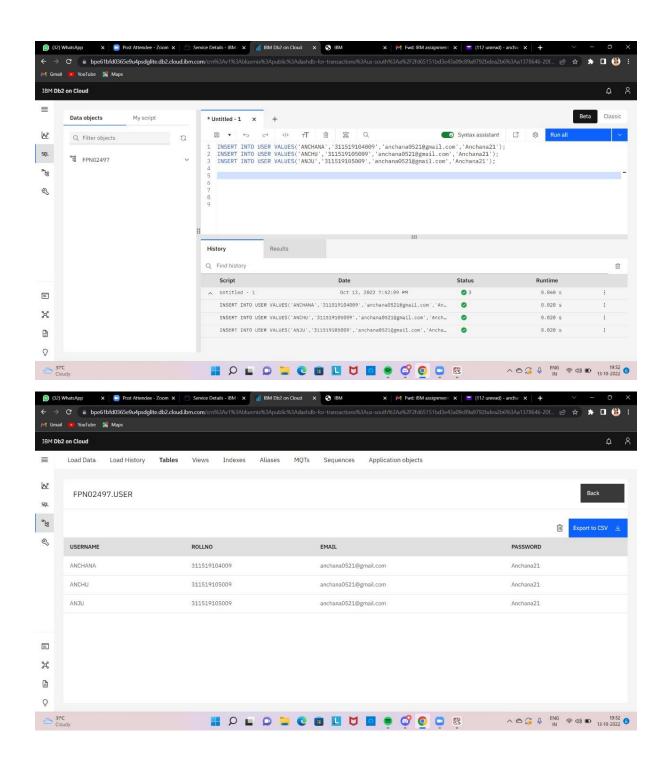
ASSIGNMENT-2

Assignment Date	26 September 2022
Student Name	Ms. Anchana P
Student Roll Number	311519104009
Maximum Marks	2 Marks

1) CREATE USER TABLE WITH USER WITH EMAIL, USERNAME, ROLL NUMBER, PASSWORD

OUTPUT:

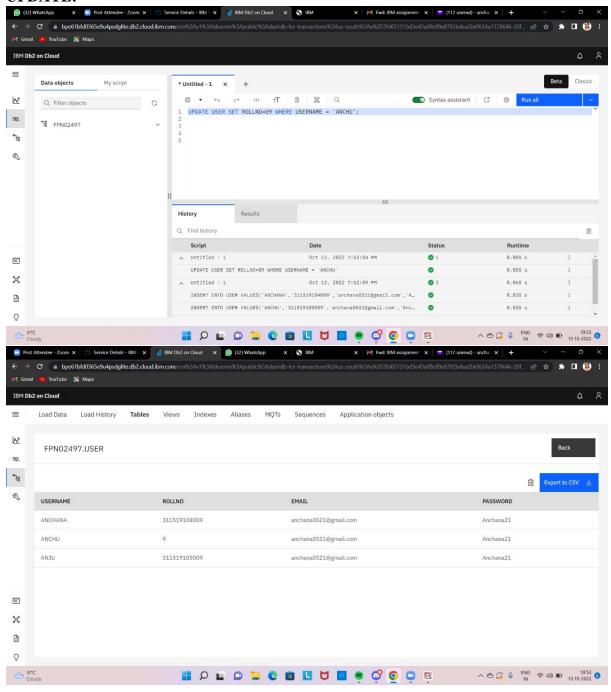




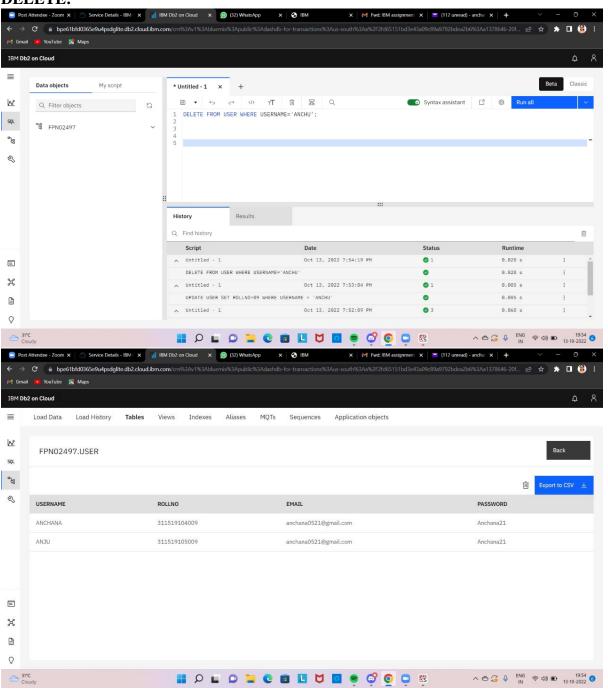
2) PERFORM UPDATE, DELETE QUERIES WITH USER TABLE

OUTPUT:

UPDATE:



DELETE:



3) CONNECT PYTHON CODE TO DB2

AND

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.

PROGRAM:

```
reg2.html
```

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body{
 font-family: Calibri, Helvetica, sans-serif;
       background-color:#E8DAEF;
}
.container {
  padding: 50px;
  height:500px;
  width:500px;
 background-color: #D2B4DE;
 align-items: center;
 margin-left:500px;
input[type=text], input[type=password], textarea {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
```

```
display: inline-block;
 border: none;
 background: #f1f1f1;
input[type=text]:focus, input[type=password]:focus {
 background-color: orange;
 outline: none;
div {
       padding: 10px 0;
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
.registerbtn {
 background-color: #5B2C6F;
 color: white;
 padding: 16px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
.registerbtn:hover {
 opacity: 1;
</style>
</head>
```

```
<body>
    <center>
       <h3><b>REGISTRATION</b></h3>
      <form action = "http://localhost:5000/reg2" method = "POST">
         <div class="container">
          <hr>
          <label> <b>Enter Register No.: </b> </label>
          <input type="text" name="rollno" placeholder= "REG. NO" size="15"</pre>
required />
          <label> <b>Enter Email ID: </b> </label>
          <input type="text" name="email" placeholder= "EMAIL ID" size="15"</pre>
required />
          <label> <b>Enter Username: </b> </label>
          <input type="text" name="uname" placeholder= "USER NAME"</pre>
size="15" required />
          <label> <b>Enter Password: </b> </label>
          <input type="password" name="pwd" placeholder= "PASSWORD"</pre>
size="15" required />
           <button type="submit" class="registerbtn">Register</button>
         </div>
       </form>
    </center>
  </body>
</html>
```

login.html

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body{
 font-family: Calibri, Helvetica, sans-serif;
       background-color:#E8DAEF;
}
.container {
  padding: 50px;
  height:500px;
  width:500px;
 background-color: #D2B4DE;
 align-items: center;
 margin-left:500px;
}
input[type=text], input[type=password], textarea {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
 background-color: orange;
```

```
outline: none;
}
div {
       padding: 10px 0;
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
.registerbtn {
 background-color: #5B2C6F;
 color: white;
 padding: 16px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
.registerbtn:hover {
 opacity: 1;
</style>
</head>
<body>
<center> <h1> Login Form</h1> </center>
<form action = "http://localhost:5000/login" method = "POST">
<div class="container">
 <hr>
```

```
<label> <b>Enter Username: </b> </label>
<input type="text" name="uname" placeholder= "Username" size="15" required />
<label><b>Enter Password: </b></label>
<input type="password" placeholder="Password" name="pwd" required>
  <button type="submit" class="registerbtn">Login</button>
</div>
</form>
</body>
</html>
Python file:
# -*- coding: utf-8 -*-
Created on Thu Oct 13 20:03:42 2022
@author: Anchana P
,,,,,,
from flask import Flask,render_template, redirect, url_for, request, session
import ibm_db
import re
app=Flask(__name__)
app.secret_key='a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-
a32e-
```

```
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;SEC
URITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fpn02497;PWD
=orQlwu8rjdyzyQSd;",",")
@app.route('/')
def home():
  return render_template('reg2.html')
@app.route('/login',methods=["GET","POST"])
def login():
  global userid
  msg=" "
  if request.method=="POST":
    username = request.form['uname']
    password = request.form['pwd']
    sql = "SELECT * FROM USER 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 redirect(url_for('welcome', username=username))
```

```
else: msg = "Incorrect Username/Password"
  return render_template('login.html', msg = msg)
@app.route('/reg2',methods=["GET","POST"])
def registration():
  msg = " "
  if request.method=="POST":
    username = request.form['uname']
    email = request.form['email']
    password = request.form['pwd']
    rollno = request.form['rollno']
    sql="SELECT * FROM USER 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'[^{\circ}@]+@[^{\circ}@]+\.[^{\circ}@]+', email):
       msg = "Invalid Email Address."
    elif not re.match(r'[A-Za-z0-9]+', username):
       msg = "Username must contain only alphabets and numbers."
    else:
       insert_sql = "INSERT INTO USER VALUES(?,?,?,?)"
       prep_stmt = ibm_db.prepare(conn,insert_sql)
       ibm_db.bind_param(prep_stmt,1,username)
       ibm_db.bind_param(prep_stmt,2,rollno)
       ibm_db.bind_param(prep_stmt,3,email)
```

```
ibm_db.bind_param(prep_stmt,4,password)
ibm_db.execute(prep_stmt)
msg = "You have successfully registered."
return render_template('login.html', msg=msg)

elif request.method == 'POST': msg="Please fill out the form."
return render_template('reg2.html',msg=msg)

@app.route('/welcome/<username>')
def welcome(username):
    return "Welcome %s!" %username

if __name__ == "__main__":
    app.run(host='0.0.0.0')
```

OUTPUT:

