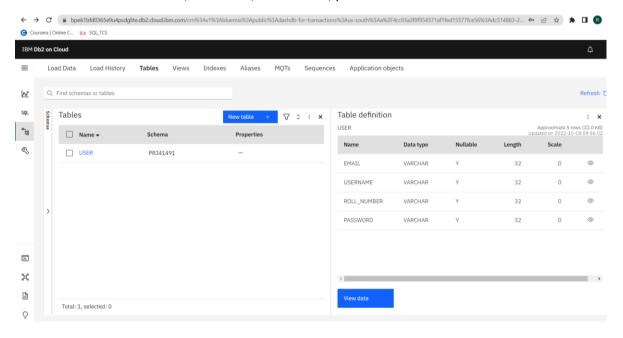
Assignment -2

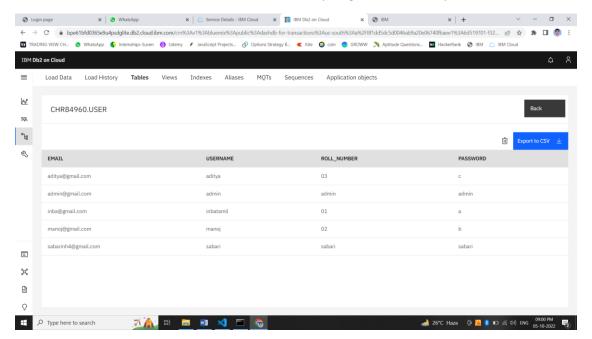
Assignment Date	26 September 2022
Student Name	K. Inbatamil
Student Roll Number	311519205026
Maximum Marks	2 Marks

Question-1:

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



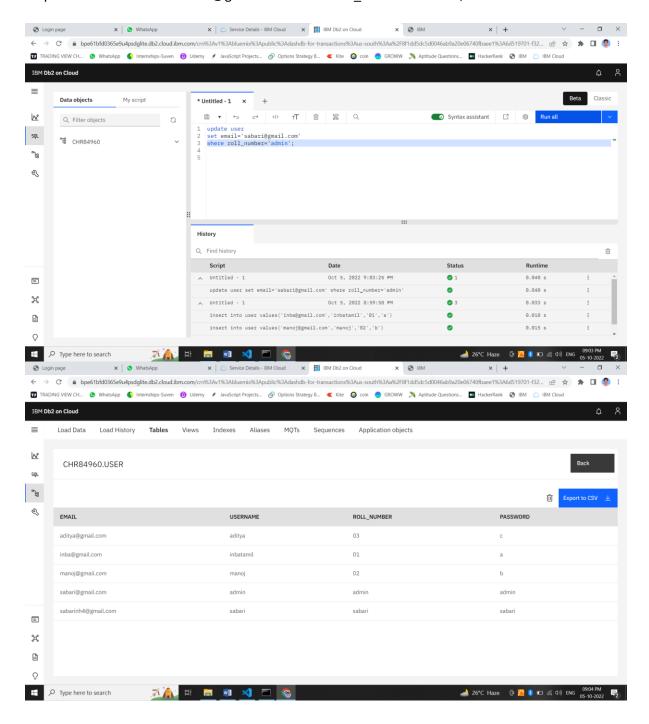
- insert into user values('inba@gmail.com','inbatamil','01','a');
- insert into user values('manoj@gmail.com','manoj','02','b');
- insert into user values('aditya@gmail.com','aditya','03','c');



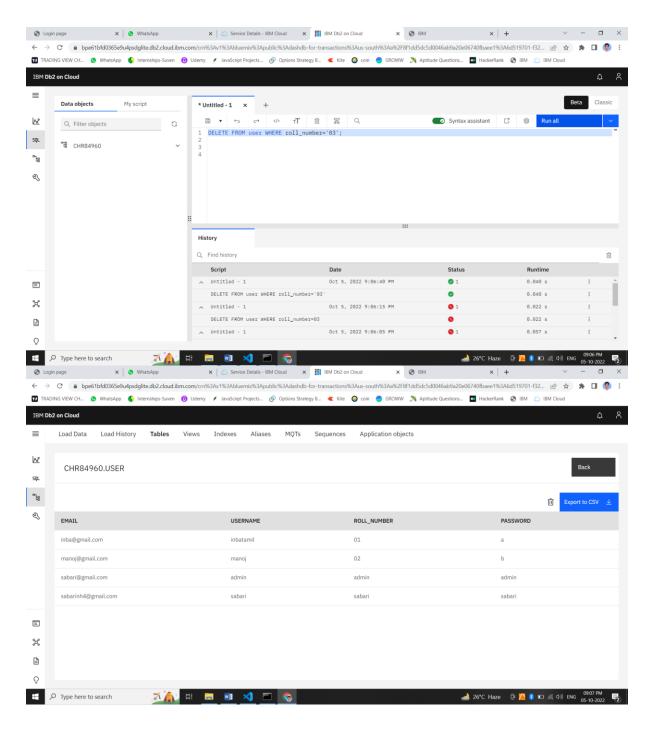
Question-2:

Perform UPDATE, DELETE Queries with user table

1.update user set email='sabari@gmail.com' where roll_number='admin';



1. DELETE FROM user WHERE roll_number='03';



Question 3:

Connect python code to db2

Program:

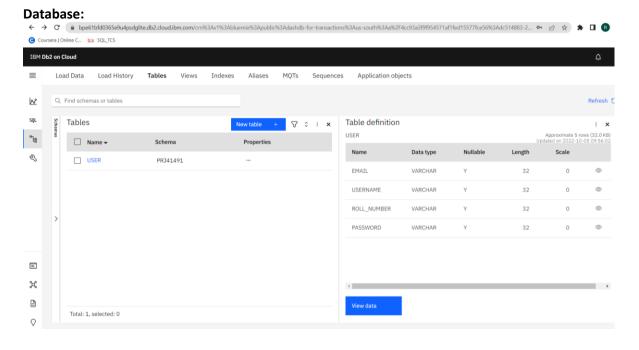
from flask import Flask import ibm_db

```
app=Flask(__name__)
try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg","","")
except:
    print("Unable to connect: ",ibm_db.conn_error())

@app.route("/")
def dashboard():
    return "welcome"
if __name__ == '__main__':
    app.run(debug=True)
```

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 username and password. If the user is valid show the welcome page.



Program:

User.py

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

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

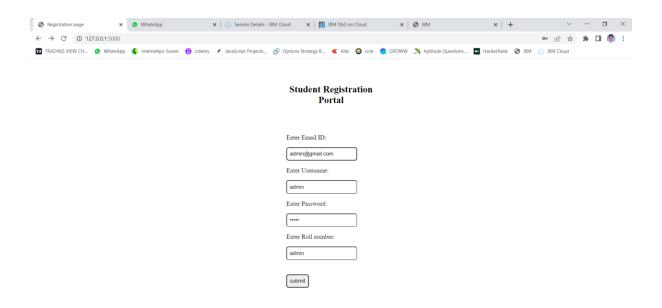
```
try:
  conn=ibm db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg","","")
except:
  print("Unable to connect: ",ibm_db.conn_error())
@app.route("/")
def dash():
  return render template('register.html',msg=" ")
@app.route("/register",methods=['GET','POST'])
def register():
  error = None
  if request.method=='POST':
     username=request.form['username']
     email=request.form['email']
     roll_number=request.form['rollnumber']
     password=request.form['password']
     sql="SELECT * FROM user WHERE roll_number=?"
     prep stmt=ibm db.prepare(conn,sql)
     ibm_db.bind_param(prep_stmt,1,roll_number)
     ibm db.execute(prep stmt)
     account=ibm db.fetch assoc(prep stmt)
     print(account)
     if account:
       error="Account already exists! Log in to continue!"
       insert sql="INSERT INTO user values(?,?,?,?)"
       prep stmt=ibm db.prepare(conn,insert sql)
       ibm db.bind param(prep stmt,1,email)
       ibm_db.bind_param(prep_stmt,2,username)
       ibm_db.bind_param(prep_stmt,3,roll_number)
       ibm_db.bind_param(prep_stmt,4,password)
       ibm_db.execute(prep_stmt)
       flash(" Registration successfull. Log in to continue !")
  else:
    pass
  return render_template('login.html',error=error)
@app.route('/login',methods=['GET','POST'])
def login():
  error = None
  if request.method=='POST':
    username=request.form['username']
    password=request.form['password']
```

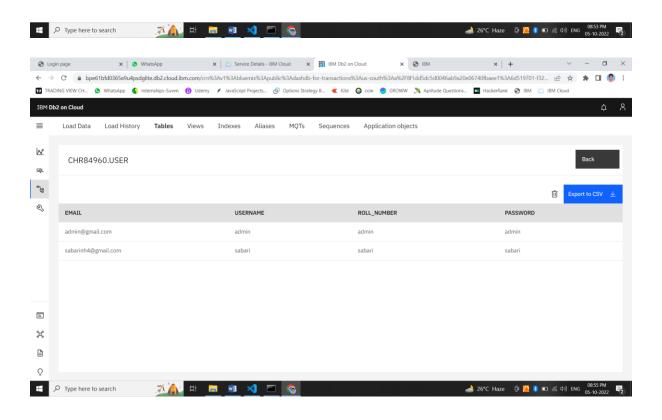
```
sql="SELECT * FROM user WHERE username=? AND password=?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
      session['Loggedin']=True
      session['id']=account['USERNAME']
      session["username"]=account["USERNAME"]
      flash("Logged in successfully!")
      return redirect(url_for("welcome_page"))
    else:
      error="Incorrect username / password"
      return render_template('login.html',error=error)
@app.route('/welcome')
def welcome_page():
  return render_template("welcome.html",user=session['id'])
if __name__=='__main___':
  app.run(debug=True)
register.html
<html>
  <head>
    <title>Registration page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
  <body>
    <div class="center"> <br /><br />
    <form action="/register" method="POST">
      <h2>Student Registration Portal</h2> <br /><br />
       Enter Email ID:
      <input type="email" name="email"/>
       Enter Username:
      <input type="text" name= "username" />
       Enter Password:
      <input type="password" name="password"/>
       Enter Roll number:
      <input type="text" name="rollnumber"/>
      </br></br>
      <input type="submit" value="submit" />
```

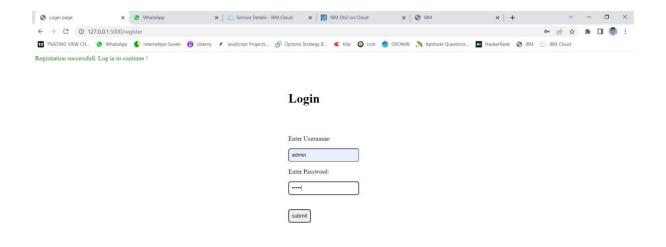
```
</form>
    </div>
 </body>
</html>
login.html
<html>
 <head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
 </head>
 <body>
 {% if error %}
    <strong style="color:red">Error</strong>: {{error}}
 {% endif %}
 {% with messages = get_flashed_messages() %}
    {% if messages %}
       {% for message in messages %}
          {{ message }}
       {% endfor %}
    {% endif %}
   {% endwith %}
    <div class="center"> <br /><br />
    <form action="/login" method="POST">
    <h1>Login</h1> <br /><br />
       Enter Username:
      <input type="text" name= "username" />
       Enter Password:
      <input type="password" name="password"/>
      </br></br>
      <input type="submit" value="submit" />
    </form>
    </div>
 </body>
</html>
welcome.html
<html>
 <head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
 <body>
```

```
{% with messages = get_flashed_messages() %}
    {% if messages %}
       {% for message in messages %}
          {{ message }}
       {% endfor %}
    {% endif %}
   {% endwith %}
    <br /><br />
    <center>
    <h2 > User {{user}}</h2> <br />
    <img src="{{url_for('static', filename='welcome.jpeg')}}" /><br />
    <i>As long as you keep yourself focused, you will have a mighty mind that can make
everything possible.</i></h3>
    </center><br/>
    <div style="margin:40px">
    <center><h1>Welcome</h1> </center>
  </div>
  </body>
</html>
style.css
.center{
margin: auto;
width: 15%;
}
h2{
text-align:center;
}
input{
border-radius:5px;
padding:7px;
```

Output:









User admin

As long as you keep yourself focused, you will have a mighty mind that can make everything possible.

Welcome

