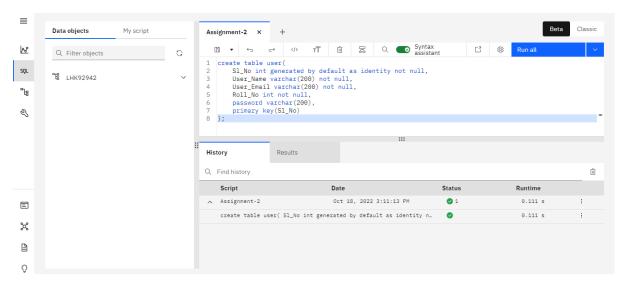
### Assignment -2

DB and Flask

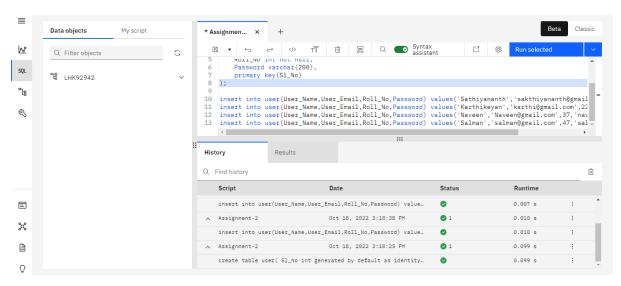
Assignment Date	12 October 2022
Student Name	Mr P Sathiyananth
Student Roll Number	621319104051
Maximum Marks	2 Marks

#### Question-1:

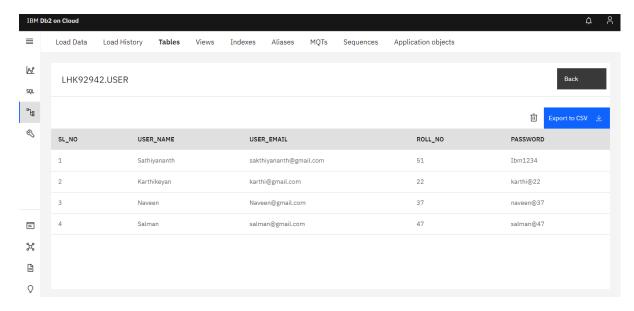
Create user table with email, username, roll number, password



#### **Insert Values:**



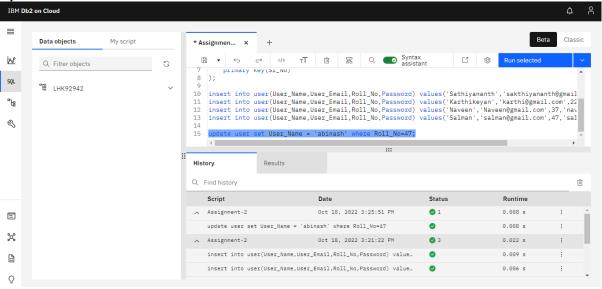
#### User table:



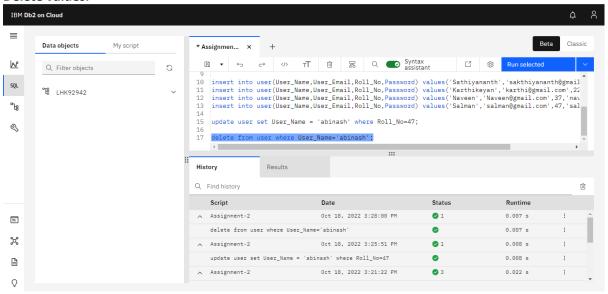
#### Question-2:

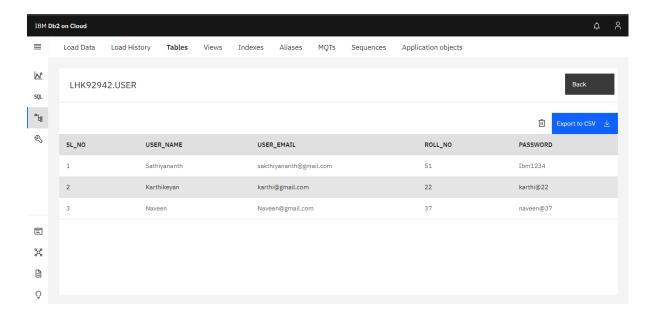
Perform update & delete queries with the table.

**Update values:** 



#### **Delete values:**





#### Question-3:

Connect python code to db2.

import ibm\_db

import bcrypt

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-

9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3273 1;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TC PIP;UID=Ihk92942;PWD=Cht7cZes9VeaXQ5N",",")

#### 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

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm db
import bcrypt
conn = ibm db.connect("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-
a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3273
PIP;UID=lhk92942;PWD=Cht7cZes9VeaXQ5N",",")
# url for('static', filename='style.css')
app = Flask(__name__)
app.secret_key = b'_5#y2L"F4Q8z\n\xec]/"
@app.route("/",methods=['GET'])
def home():
    if 'email' not in session:
      return redirect(url_for('login'))
    return render template('home.html',name='Home')
@app.route("/register",methods=['GET','POST'])
def register():
```

```
if request.method == 'POST':
     email = request.form['email']
     username = request.form['username']
     rollNo = request.form['rollNo']
     password = request.form['password'
    if not email or not username or not rollNo or not password:
       return render template('register.html',error='Please fill all fields')
     hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
     query = "SELECT * FROM user_details WHERE email=? OR rollNo=?"
    stmt = ibm db.prepare(conn, query)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.bind_param(stmt,2,rollNo)
    ibm db.execute(stmt)
    isUser = ibm db.fetch assoc(stmt)
    if not is User:
       insert sql = "INSERT INTO user details(EMAIL, USERNAME, ROLLNO,
PASSWORD) 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, rollNo)
       ibm db.bind param(prep stmt, 4, hash)
```

```
ibm_db.execute(prep_stmt)
       return render_template('register.html',success="You can login")
     else:
       return render_template('register.html',error='Invalid Credentials')
  return render_template('register.html',name='Home')
@app.route("/login",methods=['GET','POST'])
def login():
     if request.method == 'POST':
       email = request.form['email']
       password = request.form['password']
       if not email or not password:
          return render_template('login.html',error='Please fill all fields')
       query = "SELECT * FROM user_details WHERE email=?"
       stmt = ibm db.prepare(conn, query)
       ibm_db.bind_param(stmt,1,email)
       ibm_db.execute(stmt)
       isUser = ibm db.fetch assoc(stmt)
       print(isUser,password)
       if not isUser:
          return render_template('login.html',error='Invalid Credentials')
```

```
isPasswordMatch = bcrypt.checkpw(password.encode('utf-8'))

if not isPasswordMatch:
    return render_template('login.html',error='Invalid Credentials')

session['email'] = isUser['EMAIL']
    return redirect(url_for('home'))

return render_template('login.html',name='Home')

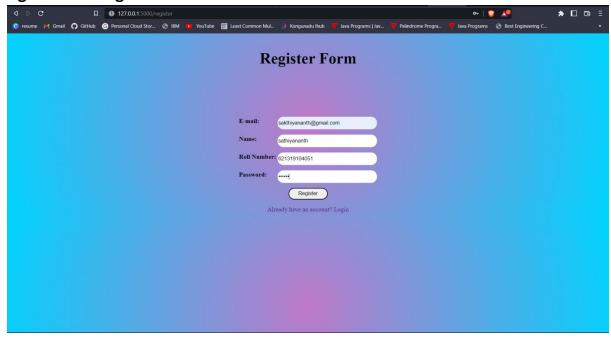
@app.route('/logout')

def logout():
    session.pop('email', None)
    return redirect(url_for('login'))

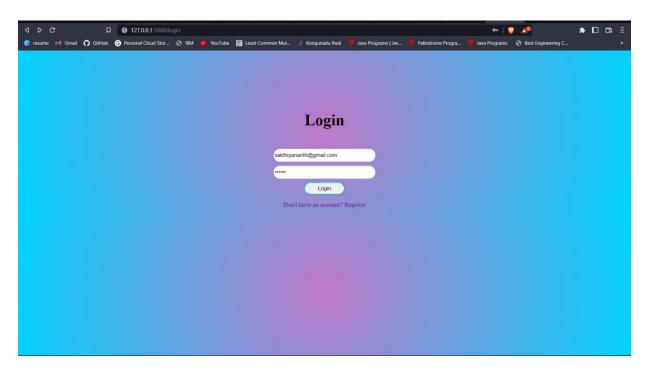
if __name__ == "__main__":
    app.run(debug=True)
```

## **Output:**

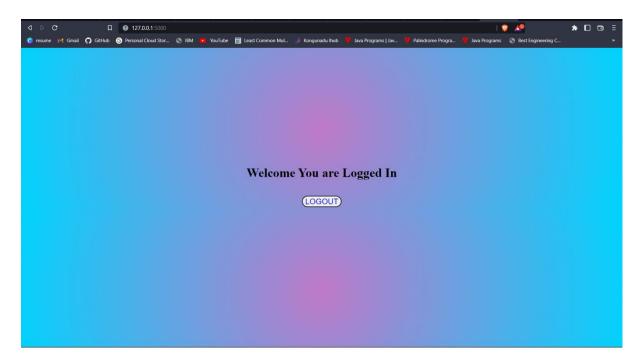
## **Registration Page:**



# **Login Page:**



## **Home Page:**



## Database:

