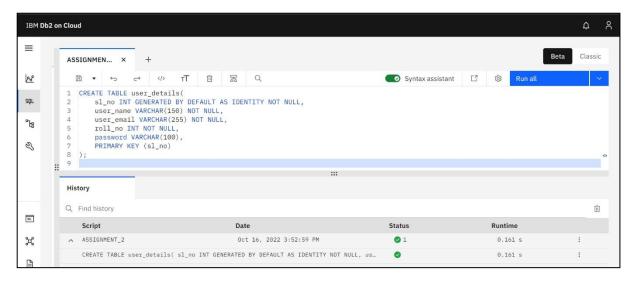
ASSIGNMENT 2

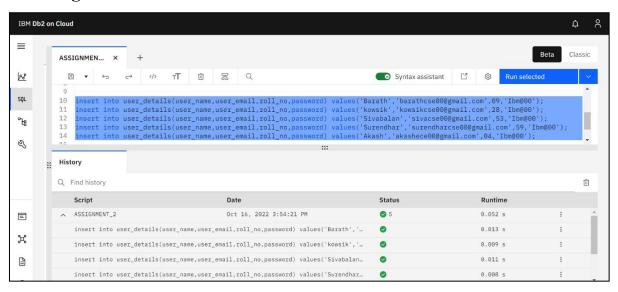
Database connection

Date	12 October 2022
Student Name	Surendhar S
Student Roll no	621319104059
Maximum Marks	2 Marks

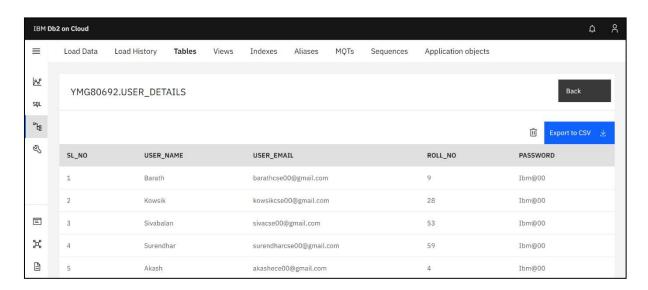
1. Create user table with email, username, roll number, password



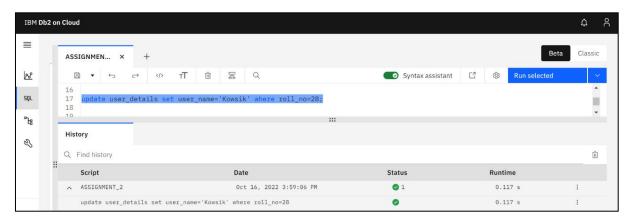
Inserting values:

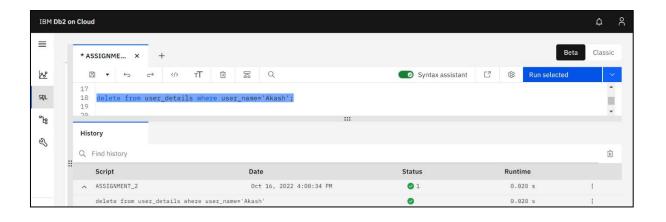


User_details table:

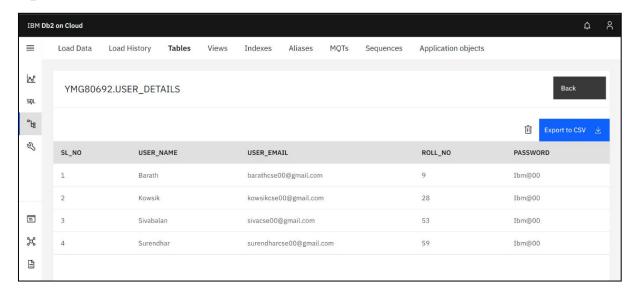


2. Perform update & delete queries with the table





Updated table:



3. Connect python code to db2

import ibm db

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217- 4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98.databases.appdomain.cloud;PORT =30875;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PROT OCOL=TCPIP;UID=ymg80692;PWD=dS5CZPeX9CN20vpY ",",")

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

App.py

from flask import Flask, render template, request, redirect, url for, session

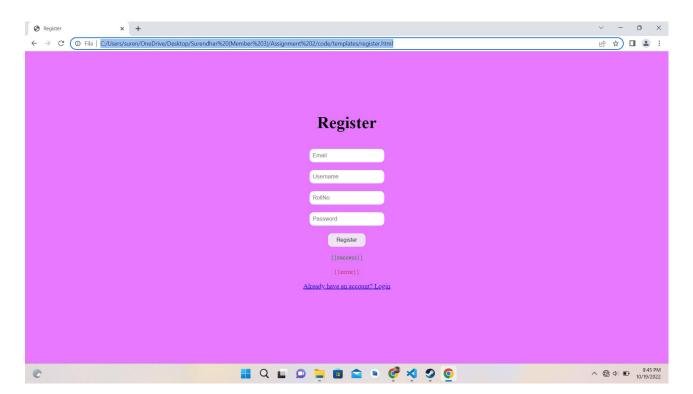
import ibm_db import bcrypt conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECU RITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=ymg8069 2;PWD=dS5CZPeX9CN20vpY ",",")

```
# url for('static', filename='style.css')
app = Flask( name )
app.secret_key = b'_5\#y2L"F4Q8z\n\ec_]/
@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*
  FROMUSERWHEREemail=?ORrollNo=?"
  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(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)
    returnrender template('register.html',success="Youcanlogin") else:
    return render template('register.html',error='Invalid Credentials') return
 render template('register.html',name='Home')
```

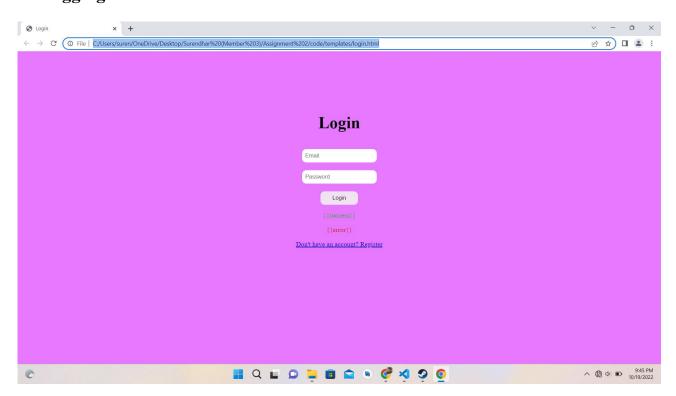
```
@app.route("/login",methods=['GET','POST']) def login():
  if request.method == 'POST':
    email = request.form['email'] password =
    request.form['password']
    if not email or not password:
     return render_template('login.html',error='Please fill all fields') query = "SELECT *
    FROM USER 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='lnvalid Credentials')
    isPasswordMatch = bcrypt.checkpw(password.encode('utf-
8'),isUser['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:

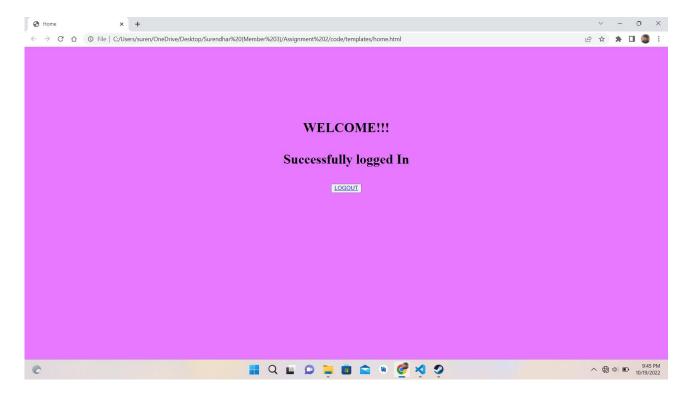
Registering:



Logging in:



Home page:



Database:

