Assignment -2

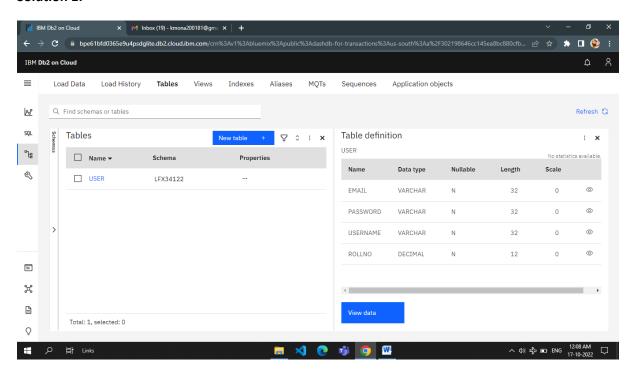
Python Programming

Assignment Date	23 September 2022
Student Name	Monashree K
Student Roll Number	2019115055
Maximum Marks	2 Marks

Question 1:

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

Solution 1:



Question 2:

Perform UPDATE, DELETE Queries with user table

Solution 2:

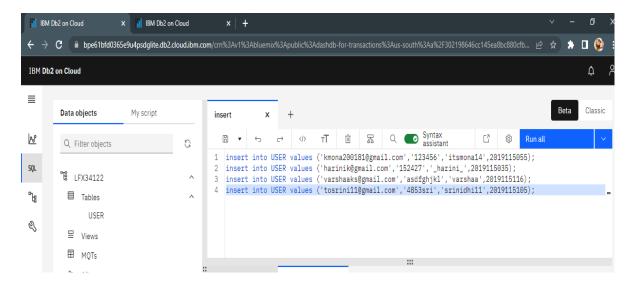
INSERT

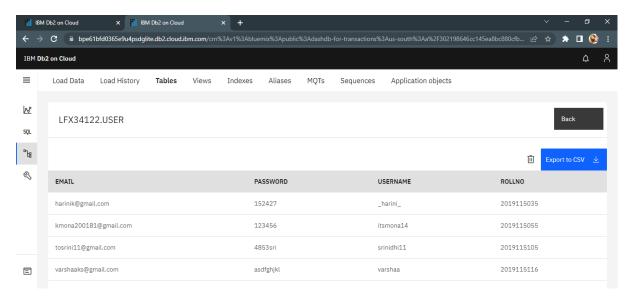
insert into USER values ('kmona200181@gmail.com','123456','itsmona14',2019115055);

insert into USER values ('harinik@gmail.com','152427','_harini_',2019115035);

insert into USER values ('varshaaks@gmail.com', 'asdfghjkl', 'varshaa', 2019115116);

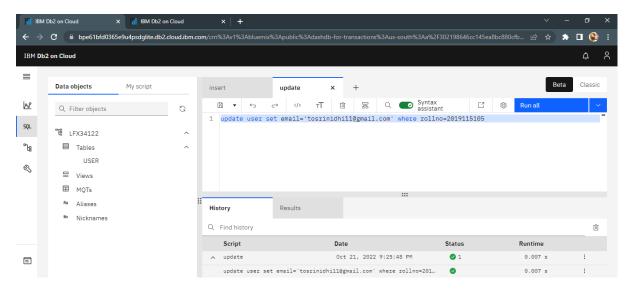
insert into USER values ('tosrini11@gmail.com','4853sri','srinidhi11',2019115105);

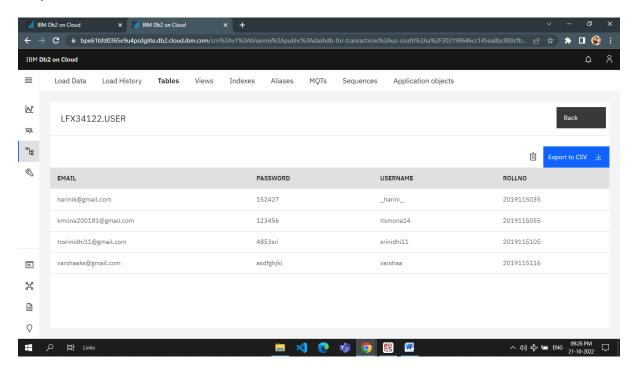




<u>UPDATE</u>

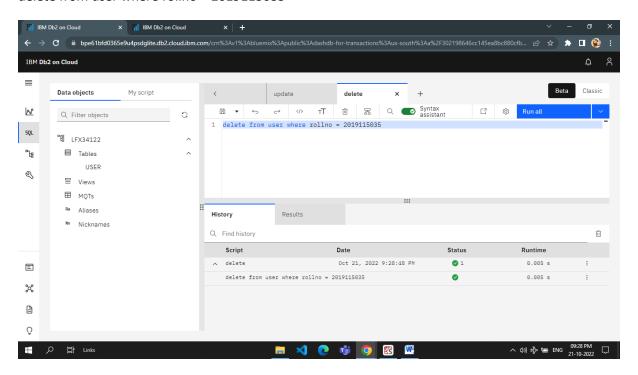
update user set email='tosrinidhi11@gmail.com' where rollno=2019115105

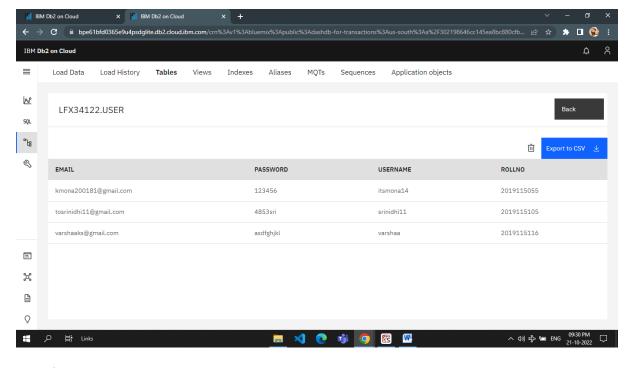




DELETE

delete from user where rollno = 2019115035





Question 3:

Connect python code to db2.

print("Connection : "+str(conn))

sql="SELECT * FROM USER WHERE rollno=2019115055"

```
Solution 3:

# -*- coding: utf-8 -*-

"""

@author: Monashree

"""

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

import ibm_db

app = Flask(__name__)

app.secret_key = 'a'

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=lfx34122;PWD=jmQDS9wCaxqRIIQd",",")

if(conn):

print("CONNECTED SUCCESSFULLY")
```

```
email="kmona200181@gmail.com"

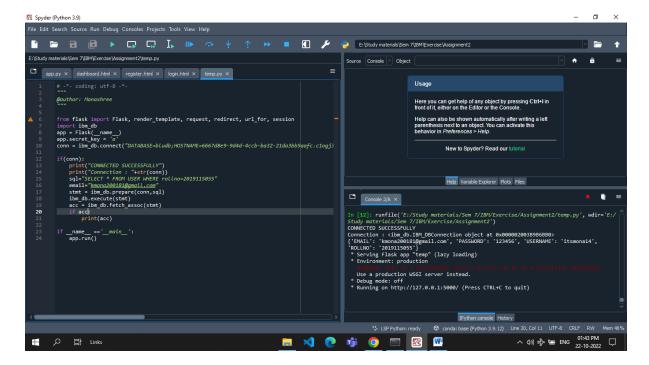
stmt = ibm_db.prepare(conn,sql)

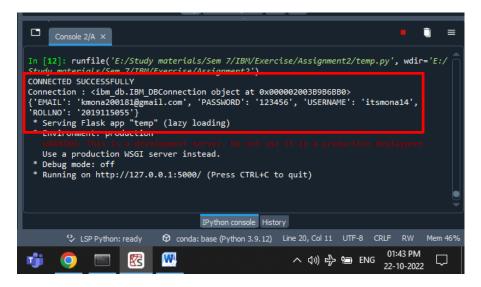
ibm_db.execute(stmt)

acc = ibm_db.fetch_assoc(stmt)

if acc:
    print(acc)

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





Question 4:

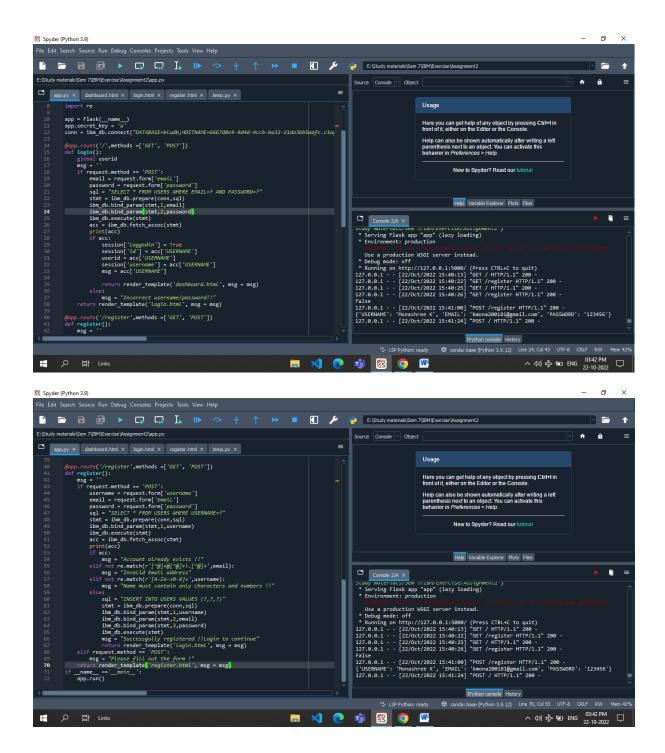
Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

Solution 4:

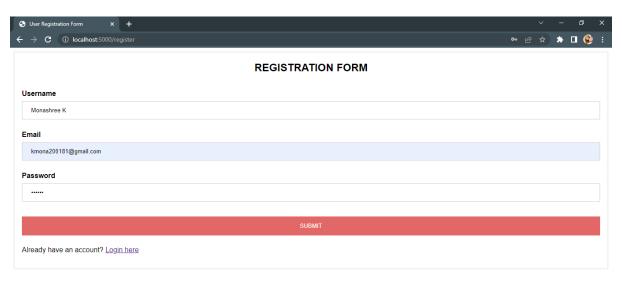
```
# -*- coding: utf-8 -*-
111111
@author: Monashree
.....
from flask import Flask, render_template, request, redirect, url_for, session
import ibm db
import re
app = Flask(__name__)
app.secret key = 'a'
conn = ibm db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=lfx34122;PWD=jmQDS9wCaxqRIIQd",",")
@app.route('/',methods =['GET', 'POST'])
def login():
  global userid
  msg = "
  if request.method == 'POST':
    email = request.form['email']
    password = request.form['password']
    sql = "SELECT * FROM USERS WHERE EMAIL=? AND PASSWORD=?"
    stmt = ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
```

```
acc = ibm_db.fetch_assoc(stmt)
    print(acc)
    if acc:
      session['loggedin'] = True
      session['id'] = acc['USERNAME']
      userid = acc['USERNAME']
      session['username'] = acc['USERNAME']
      msg = acc['USERNAME']
      return render_template('dashboard.html', msg = msg)
    else:
      msg = "Incorrect username/password!!"
  return render_template('login.html', msg = msg)
@app.route('/register',methods =['GET', 'POST'])
def register():
  msg = "
  if request.method == 'POST':
    username = request.form['username']
    email = request.form['email']
    password = request.form['password']
    sql = "SELECT * FROM USERS WHERE USERNAME=?"
    stmt = ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.execute(stmt)
    acc = ibm_db.fetch_assoc(stmt)
    print(acc)
```

```
if acc:
       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 = "Name must contain only characters and numbers !!"
    else:
       sql = "INSERT INTO USERS VALUES (?,?,?)"
       stmt = ibm_db.prepare(conn,sql)
       ibm_db.bind_param(stmt,1,username)
       ibm_db.bind_param(stmt,2,email)
       ibm_db.bind_param(stmt,3,password)
       ibm_db.execute(stmt)
       msg = "Successgully registered !!Login to continue"
       return render_template('login.html', msg = msg)
  elif request.method == 'POST':
    msg = "Please fill out the form !"
  return render_template('register.html', msg = msg)
if __name__ =='__main__':
  app.run()
                              Indexes
                                             MQTs
                                                   Sequences
                                                            Application objects
Find schemas or tables
Tables
                                                   Table definition
                                                   USERS
  Name ▼
                                Properties
                Schema
  USER
                LFX34122
                                                    USERNAME
                                                             VARCHAR
  USERS
                LFX34122
                                                    EMAIL
                                                             VARCHAR
                                                    PASSWORD
                                                             VARCHAR
```

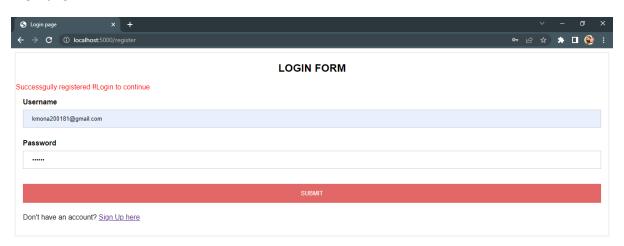


Register page





Login page





Welcome page





Table

