# Assignment -2

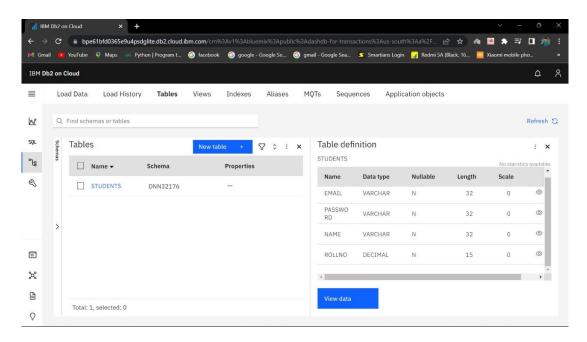
# **Python Programming**

| Assignment Date     | 23 September 2022 |
|---------------------|-------------------|
| Student Name        | Harini K          |
| Student Roll Number | 2019115035        |
| Maximum Marks       | 2 Marks           |

# Question 1:

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

#### **Solution 1:**



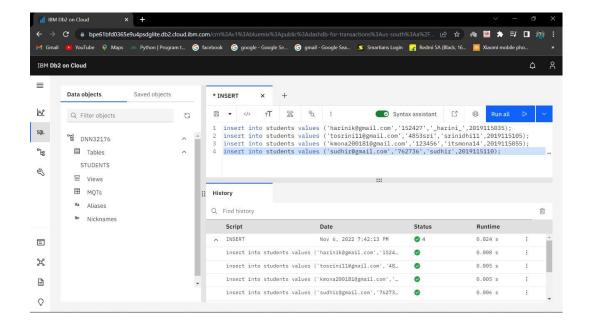
# Question 2:

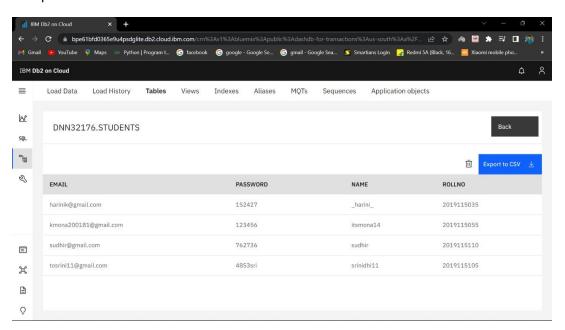
Perform UPDATE, DELETE Queries with user table

#### **Solution 2:**

# **INSERT**

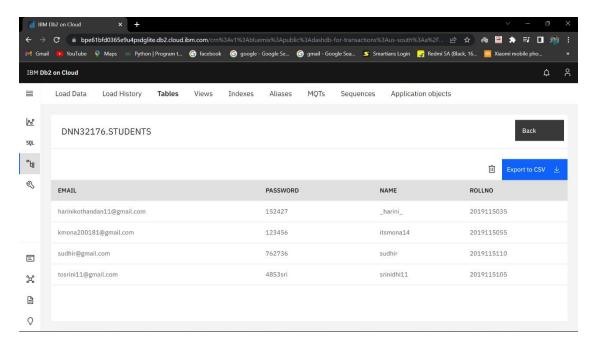
insert into students values ('harinik@gmail.com','152427','\_harini\_',2019115035); insert into students values ('tosrini11@gmail.com','4853sri','srinidhi11',2019115105); insert into students values ('kmona200181@gmail.com','123456','itsmona14',2019115055); insert into students values ('sudhir@gmail.com','762736','sudhir',2019115110);





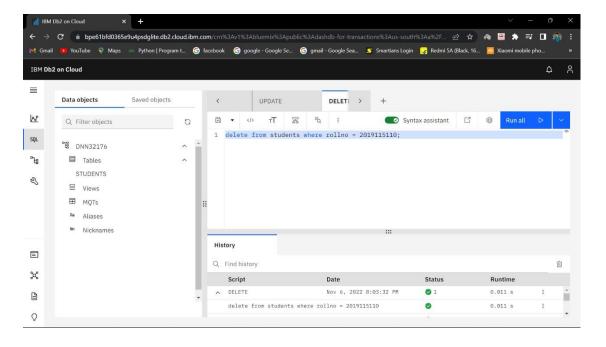
# **UPDATE**

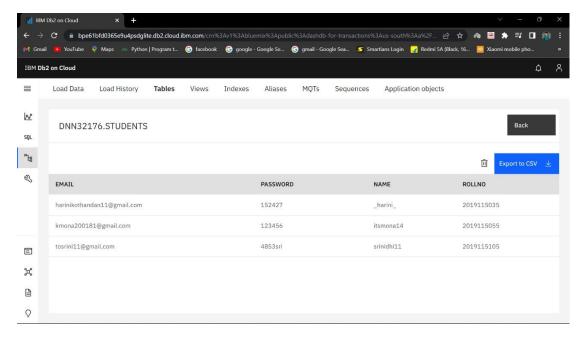
update students set email='harinikothandan11@gmail.com' where rollno=2019115035;



#### **DELETE**

delete from students where rollno = 2019115110;





#### Question 3:

Connect python code to db2.

```
Solution 3:
# -*- coding: utf-8 -*-
@author: Harini
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=125f9f61-9715-46f9-9399-
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;SECURITY=SSL;SSLSer
verCertificate=DigiCertGlobalRootCA.crt;UID=dnn32176;PWD=sSCCeOSMo3JZxAEf",",")
if(conn):
  print("CONNECTED SUCCESSFULLY")
  print("Connection : "+str(conn))
  sql="SELECT * FROM students WHERE rollno=2019115035"
  email="harinikothandan11@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()
```

```
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-ba32-21da3bb5pafc.clogj3

if(conn):
    print("CONNECTED SUCCESSFULLY")
    print("CONNECTED SUCCESSFULLY")
    print("Connection : "+str(conn))
    sql="%slECT" *FNOW USER MHERE rollno=2019115055"
    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()
```

```
In [12]: runfile('E:/Study materials/Sem 7/IBM/Exercise/Assignment2/temp.py', wdir='E:/
Study materials/Sem 7/IBM/Exercise/Assignment2')
CONNECTED SUCCESSFULLY
Connection: <ibm_db.IBM_DBConnection object at 0x0000020038986880>
{'EMAIL': 'kmona200181@gmail.com', 'PASSWORD': '123456', 'USERNAME': 'itsmona14', 'ROLLNO': '2019115055')
* Serving Flask app "temp" (lazy loading)
* Environment: production
***MANUALY: **MANUALY SUCKESSED SUCKESSFULLY
Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

***IPYthon console History
```

#### Question 4:

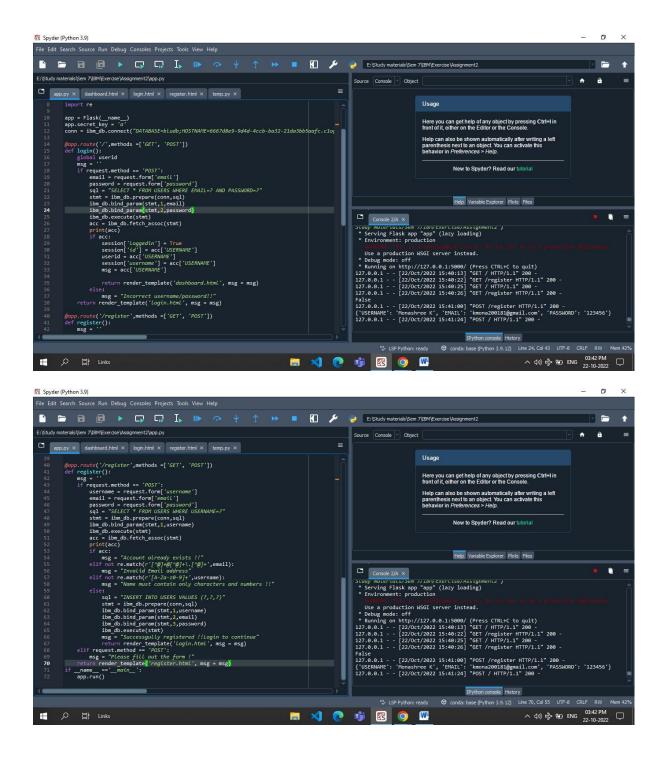
Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

#### Solution 4:

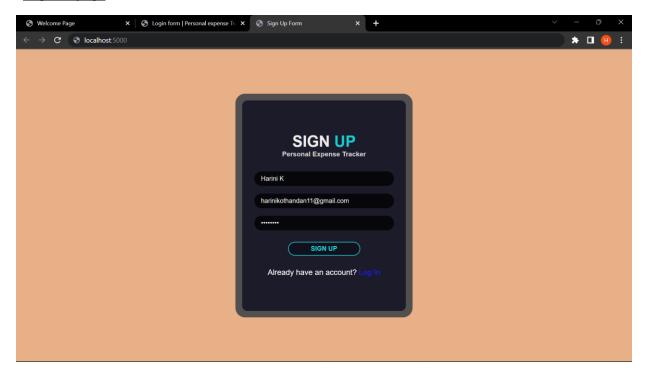
```
# -*- coding: utf-8 -*-
.....
@author: Harini
.....
from flask import Flask, render_template, request, redirect, url_for, session
import ibm db
import re
app = Flask(_name_)
app.secret key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
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)
```

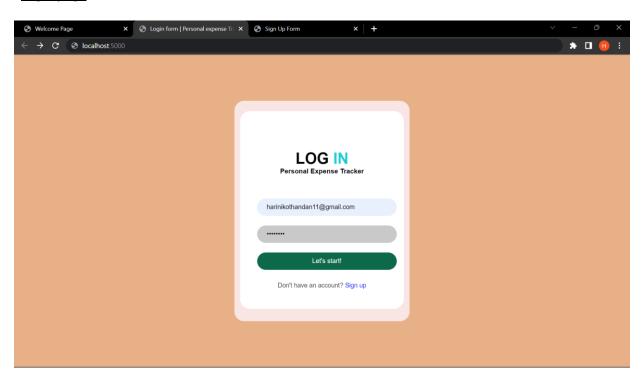
```
if acc:
       msg = "Account already exists !!"
     elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):
       msg = "Invalid Email address"
     elif not re.match(r'[A-Za-z0-9]+',username):
       msg = "Name must contain only characters and numbers !!"
     else:
       sql = "INSERT INTO USERS VALUES (?,?,?)"
       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()
 bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F302198646cc145ea8bc8.
                                               MQTs
ad Data
       Load History
                  Tables
                         Views
                                Indexes
                                        Aliases
                                                      Sequences
                                                               Application objects
Tables
                                                      Table definition
                                         ♡ ≎ : ×
                                                      USERS
  Name ▼
                 Schema
                                                       Name
                                                                 Data type
                                                                           Nullable
                                                                                     Length
                 LFX34122
                                                       USERNAME
                                                                VARCHAR
  USERS
                  LFX34122
                                                       EMAIL
                                                                 VARCHAR
                                                                                      32
```



# Register page



# Login page



# Welcome page



Welcome Harini K .....

# <u>Table</u>

