Assignment -2

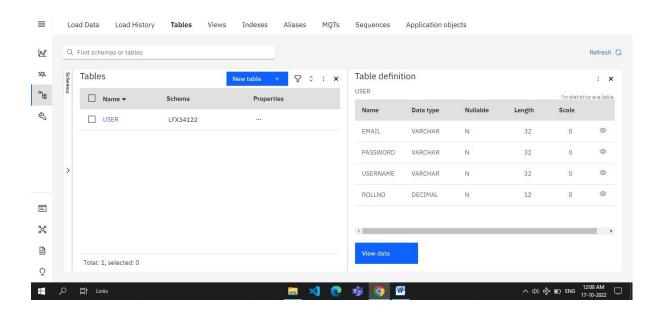
Python Programming

Assignment Date	23 September 2022
Student Name	Akshay Ajit
Student Roll Number	2019115013
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 ('Vishnutheep', 'vishnutheep@gmail.com', 'vishnu', 2019115123)

;

INSERT INTO USER

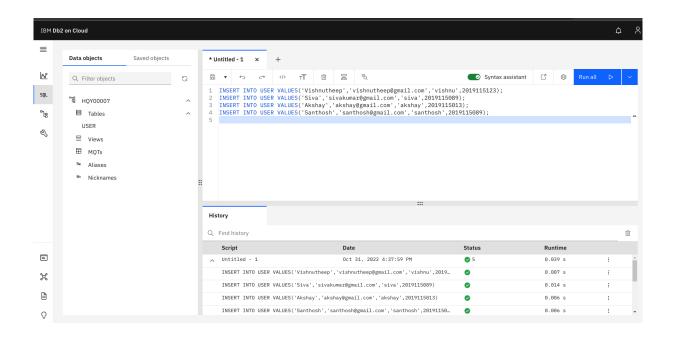
VALUES('Siva', 'sivakumar@gmail.com', 'siva', 2019115089);

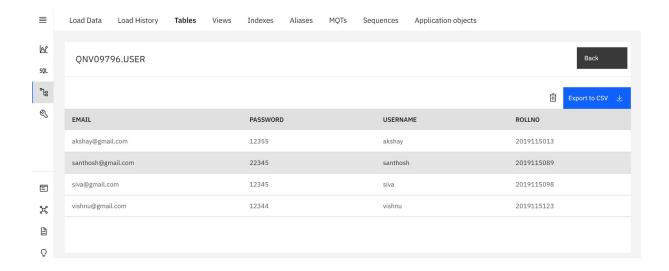
INSERT INTO USER

VALUES('Akshay', 'akshay@gmail.com', 'akshay', 2019115013);

INSERT INTO USER

VALUES('Santhosh', 'santhosh@gmail.com', 'santhosh', 2019115089);

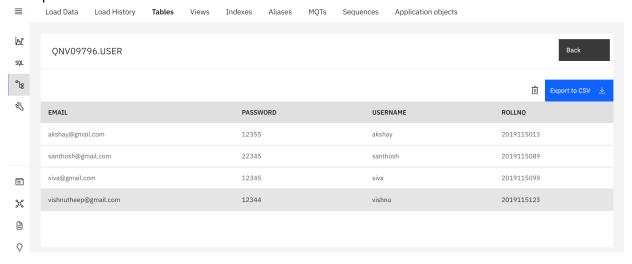




UPDATE

update user set email='vishnutheep@gmail.com' where rollno=2019115124

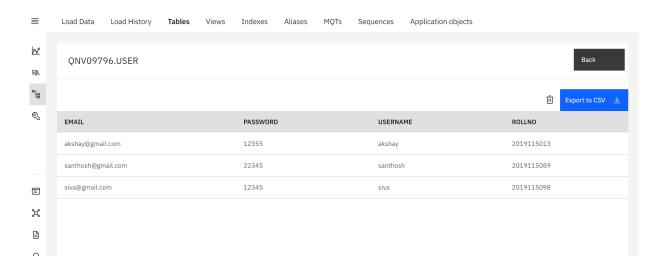
Output:



DELETE

delete from user where rollno = 2019115123

OUTPUT:



Question 3:

Connect python code to db2.

Solution 3:

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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.
cloud; PORT=32731; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=rfh77431;PWD=1WClhcJWgdCoeAk5",",")
if(conn):
   print("CONNECTED SUCCESSFULLY")
   print("Connection : "+str(conn))
   sql="SELECT * FROM USER WHERE rollno=2019115123"
   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()
                                  template, request, redirect, url_for, session
           app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb; HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.clogj3sd0tgtu0lqde00.databases.appdoma
              print("CONNECTED SUCCESSFULLY")
              print("Connection: "+str(conn))
sql="SELECT * FROM USER WHERE rollno=2019115123"
stmt = ibm_db.prepare(conn,sql)
ibm_db.execute(stmt)
acc = ibm_db.fetch_assoc(stmt)
           if __name__ =='__main__':
    app.run()
```

OUTPUT:

```
vichu@pop-os:~/Education/Sem-7/IBM-docs/Assignment/Assignment2$ python3 temp.py
CONNECTED SUCCESSFULLY
Connection : <ibm_db.IBM_DBConnection object at 0x7fe225b4d390>
{'EMAIL': 'vishnutheep@gmail.com', 'PASSWORD': 'vishnu', 'USERNAME': 'Vishnutheep', 'ROLLNO': '2019115123'}
* Serving Flask app 'temp' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

QUESTION - 4:

Create a Flask App with registration page, login page and welcome page. If the user is valid show the welcome page.

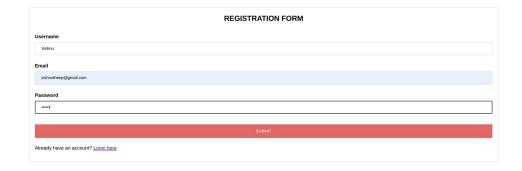
SOLUTION:

```
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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.
cloud; PORT=32731; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=rfh77431;PWD=1WClhcJWgdCoeAk5",",")
@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()
```

OUTPUT:





Welcome Vishnu