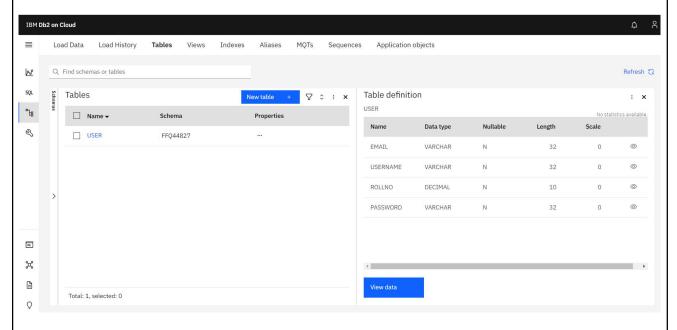
Assignment - 2

Team ID : PNT2022TMID35342 Vijay Suriya S - 2019103598

Question 1:

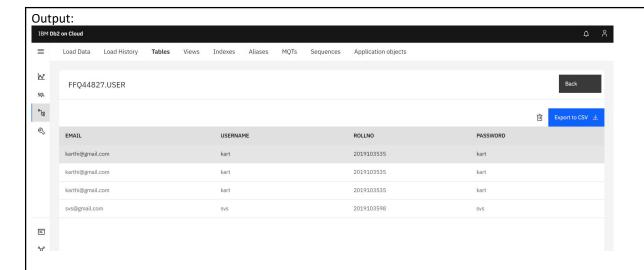
Create User table with user with email, username, roll number, password.



Question 2: Perform UPDATE, DELETE Queries with user table

```
₱ db.py ×

import ibm_db
def list_all(conn):
    sql = "SELECT * From USER"
    result = ibm_db.exec_immediate(conn, sql)
                  print(result)
dictonary = ibm_db.fetch_both(result)
                   while dictonary!=False:
                              print("Username: "+ dictonary[1])
print("Roll Number: "+dictonary[2])
dictonary = ibm_db.fetch_both(result)
def insert_value(conn,email,username,roll,password):
    sql = "INSERT into USER VALUES('{}','{}','{}')".format(email,username,roll,password)
    res = ibm_db.exec_immediate(conn, sql)
    print("Number of affected rows : ", ibm_db.num_rows(res))
  def delete_value(conn,username):
                  sql = "DELETE From User Where Username = '{}'".format(username)
res = ibm_db.exec_immediate(conn,sql)
                   print("Number of affected rows ",ibm_db.num_rows(res))
                  \textbf{conn} = \textbf{ibm\_db.connect} (\texttt{"DATABASE=bludb; HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud; hostname and the statement of th
                   print("Connected to Database!! :)")
insert_value(conn, "kar@gmail.com", "kar", 2019103535, "kar")
                  delete_value(conn, "kar")
insert_value(conn, "karthi@gmail.com", "kart", 2019103535, "kart")
list_all(conn)
                   list all(conn)
                   print(":( db connection failed!")
print(ibm_db.conn_errormsg())
```



Question 3: Connect python code to db2.

Output:

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.

```
app.py Job_Portal
                                     app.py ...\User Registration X
Python_DB2 > User Registration > 📌 app.py > ...
       from flask import Flask, render template, request
       import DB2 as db
      app = Flask(__name__)
      @app.route('/',methods =['GET', 'POST'])
      def login():
           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)
              res = ibm db.fetch assoc(stmt)
               print(res)
                   session['loggedin'] = True
                   session['id'] = res['USERNAME']
userid = res['USERNAME']
                   session['username'] = res['USERNAME']
                   msg = res['USERNAME']
                   return render_template('dashboard.html', msg = msg)
                   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']
```

```
@app.route('/register',methods =['GET', 'POST'])
def register():
     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)
         res = ibm_db.fetch_assoc(stmt)
         print(res)
              msg = "Account already exists !!"
         msg = Account aireauy 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 !!"
         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)
     name
app.run()
```

