Assignment-2

Project Domain	Cloud Application Development
Project Title	News Tracker Application
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Date	03rd Oct 2022

Questions:

- 1. Create registration page in html with username, email, and phone number and by using POST method display it in next html page.
- 2. Develop a flask program which should contain at least 5 packages used from pypi.org.
- 3. Create User table with user with email, username, roll number, password.
- 4. Perform UPDATE, DELETE Queries with user table
- 5. Connect python code to db2.
- 6. 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.

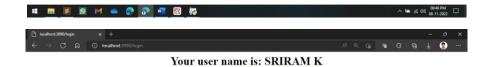
Answers:

1.Create registration page in html with username, email, and phone number and by using POST method display it in next html page.

```
Login.html:
<html>
<body>
      <center>
      <form action = "http://localhost:3890/login" method = "post">
             < h1 >
             Enter user Name:<input type = "text" name = "userName"/><br>
             Enter Email-id:<input type = "text" name = "emailId"/><br>
             Enter
                      Phone
                                Number:<input
                                                               "text"
                                                  type
                                                                         name
"phoneNumber"/><br><br>
             <input type = "submit" value = "SUBMIT"/>
      </h1>
      </form>
```

```
</center>
</body>
</html>
Sample.py:
from flask import Flask, redirect, url_for, request
app = Flask(__name__)
@app.route('/login', methods=['POST'])
def login():
       if request.method == 'POST':
              user_name = request.form['userName']
              email_id = request.form['emailId']
              phone_number = request.form['phoneNumber']
                       '{}{}{}{}{}{}'.format("<center><h1>Your
              return
                                                                    user
                                                                            name
                                                                                     is:
",user_name,"</h1><br><br><br><br>Your email-id is: ",email_id,"</h2><br><br><br><br>Your
phone number is: ",phone_number,"</h3></center>")
if __name__ == '__main__':
       app.run('127.0.0.1',3890)
```





Your email-id is: 731119205043@smartinternz.com

Your phone number is: 9876543210



2.Develop a flask program which should contain at least 5 packages used from pypi.org.

Packages used:

Flask, emoji, matplotlib, numpy, translate, googlesearch

```
Packages.py:
from flask import Flask
from emoji import emojize
import matplotlib.pyplot as plt
import numpy as np
from translate import Translator
from googlesearch import search
app=Flask(__name__)
@app.route('/')
def login():
  emojione=("Thumbs up emoji using the pakage emoji:"+emojize(":thumbs_up:"))
  x = [1,2,3]
  y = [2,4,1]
  plt.plot(x, y)
  plt.xlabel('x - axis')
  plt.ylabel('y - axis')
  plt.title('Using Matplotlib')
  plt.show()
  a = np.array([0, np.pi/2, np.pi])
  translator= Translator(to lang="ta")
  translation
               =
                     ("English
                                       Tamil
                                                 translation
                                                              using
                                                                       the
                                                                              package
translate:"+translator.translate("How are you?"))
  query = "IBM Cloud"
  tmp=search(query, tld="co.in", num=10, stop=10, pause=2)
  res=[]
  for i in tmp:
    res.append(i+"\n")
  return
("<center>"+"<h1>"+emojione+"</br></br></br></br></br></br>
\sin(a))+"</br></br></br></br></rb>
if __name__ == '__main___':
       app.run('127.0.0.1',3898,debug=True)
```

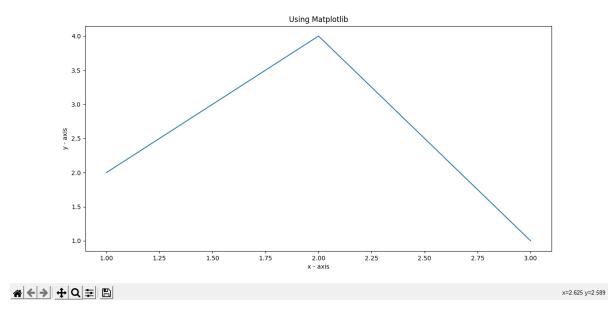


Thumbs up emoji using the pakage emoji: 👍

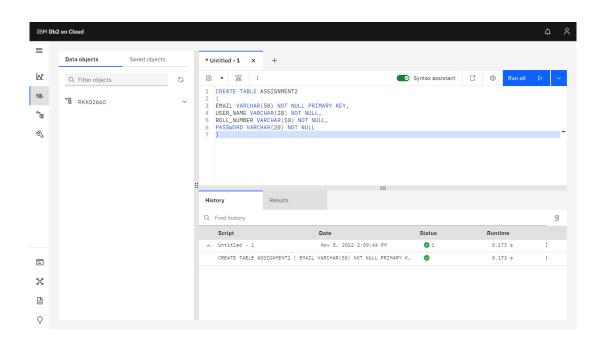
English to Tamil translation using the package translate:எப்படி இருக்கிறீங்க?

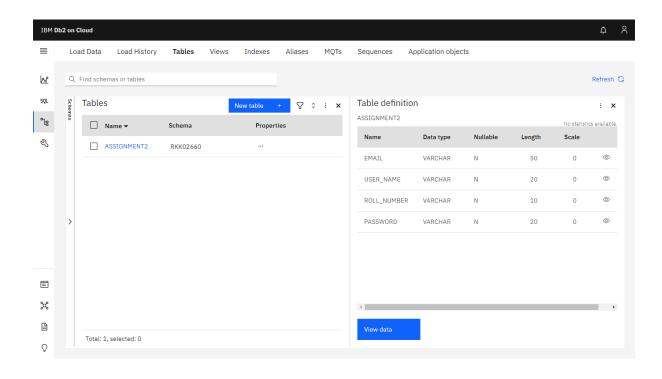
[0.0000000e+00 1.0000000e+00 1.2246468e-16]

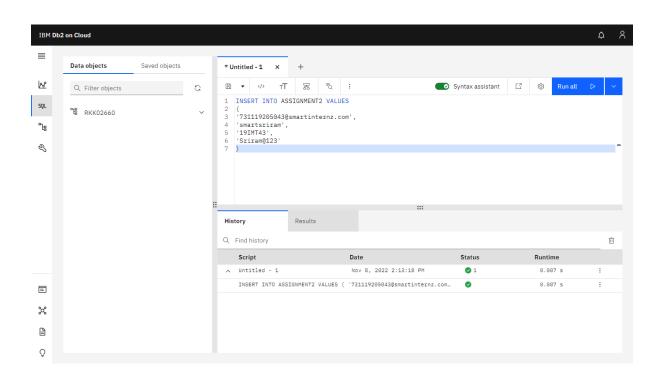
['https://www.ibm.com/in-en/cloud.in', 'https://cloud.ibm.com/n', 'https://cloud.ibm.com/cloud.ibm.com/registration'n', 'https://cloud.ibm.com/developer/watson'n', 'https://cloud.ibm.com/docs/cloud-shell?topic=cloud-shell-getting-started'n', 'https://www.ibm.com/cloud/free'n', 'https://cloud.ibm.com/catalog'n', 'https://www.ibm.com/cloud/why-ibm'n', 'https://www.ibm.com/croducts/cloud-pak-for-data'n']

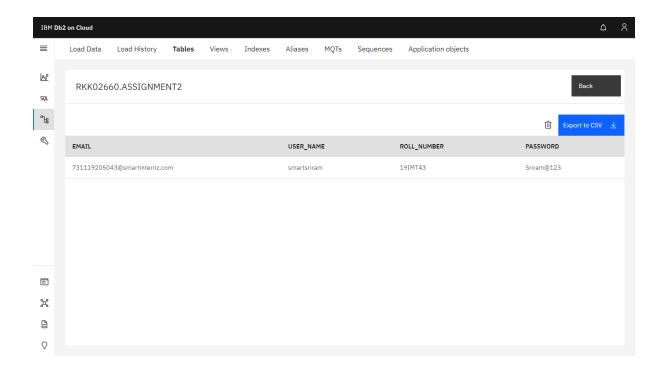


3. Create User table with user with email, username, roll number, password.

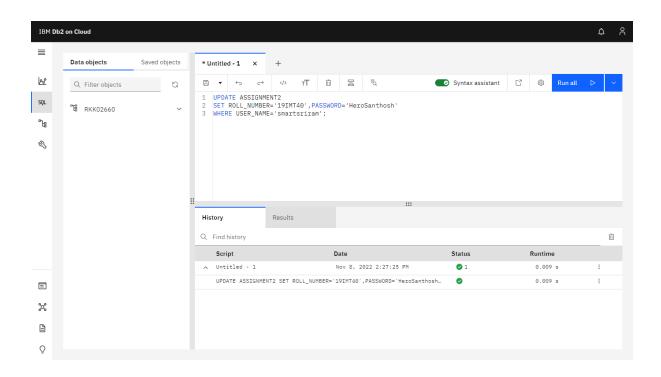


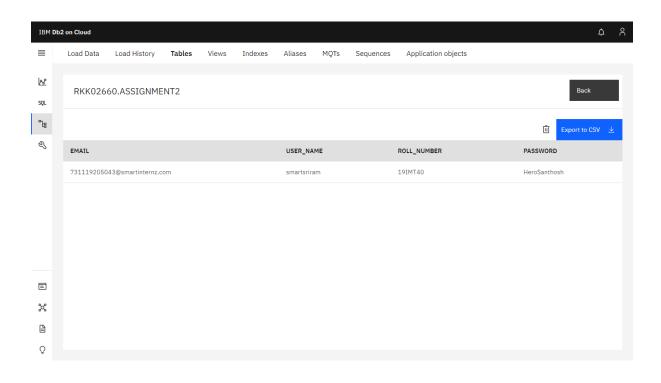


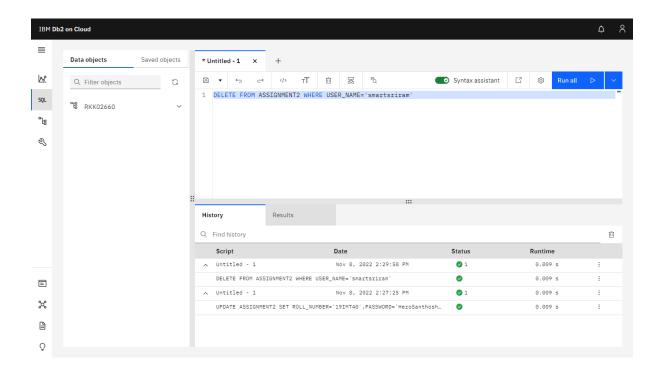


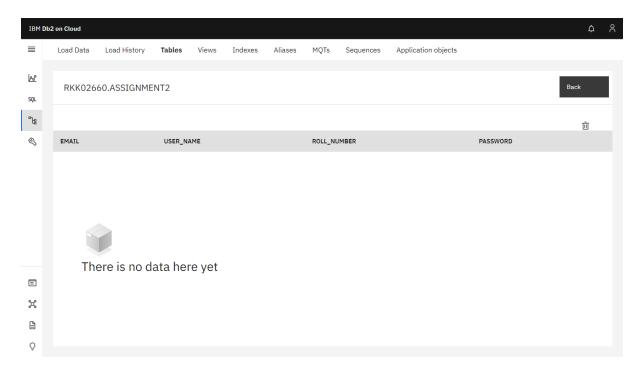


4.Perform UPDATE, DELETE Queries with user table









- 5. Connect python code to db2.
- 6. 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

```
login.html:
<html>
<body>
      <center>
            <form action = "http://localhost:3899/login" method = "post">
                        < h1 >
                        Enter user Name:<input type = "text" name =
"username" required /><br><br>
                        Enter Password:<input type = "text" name =
"password"/><br><br>
                        <input type = "submit" value = "SUBMIT"</pre>
name="submit"/><br><br>
                         <a href="/regis">Click here to register</a>
                  </h1>
            </form>
      </center>
</body>
```

```
</html>
register.html:
<html>
<body>
     <center>
           <form action = "http://localhost:3899/register" method = "post">
                \langle h1 \rangle
                      Enter user Name:<input type = "text" name =
"username" required /><br><br>
                      Enter Email:<input type = "text" name =
"email"/><br><br>
                      Enter Password:<input type = "text" name =
"password"/><br><br>
                      <input type = "submit" value = "SUBMIT"/>
           </h1>
           </form>
     </center>
</body>
</html>
welcome.html:
<html>
<body>
     <center>
           <img src="https://img.freepik.com/free-vector/flat-design-
colorful-characters-welcoming 23-
2148271988.jpg?w=740&t=st=1668096317~exp=1668096917~hmac=da8896
4b5c0b6a1b878a26c38ba3a87abc6583421a79f1d4edac4abb2d71062e">
     </center>
</body>
</html>
app.py:
from flask import Flask,render_template,request,redirect,url_for,session
import ibm_db
import re
app=Flask(__name__)
app.secret_key = 'abc'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-
4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3132
1;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=*
@app.route('/')
```

```
def home():
  return render_template('login.html')
@app.route('/regis')
def regis():
  return render_template('register.html')
@app.route('/login',methods=['GET','POST'])
def login():
  global userid
  msg=' '
  if request.method=='POST':
    username = request.form['username']
    password = request.form['password']
    sql = "SELECT * FROM User WHERE username = ? AND password =
?"
    stmt = ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
       msg='Logged in successfully!'
       return render_template('welcome.html',msg=msg)
    else:
       return render_template('login.html')
@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 User WHERE username = ?"
       stmt = ibm_db.prepare(conn,sql)
       ibm_db.bind_param(stmt,1,username)
       ibm db.execute(stmt)
       account = ibm_db.fetch_assoc(stmt)
       print(account)
       if account:
         return '{ }'.format("Account already exist!")
       else:
```

```
insert_sql="INSERT INTO user VALUES(?, ?, ?)"

prep_stmt=ibm_db.prepare(conn,insert_sql)

ibm_db.bind_param(prep_stmt,1,username)

ibm_db.bind_param(prep_stmt,2,email)

ibm_db.bind_param(prep_stmt,3,password)

ibm_db.execute(prep_stmt)

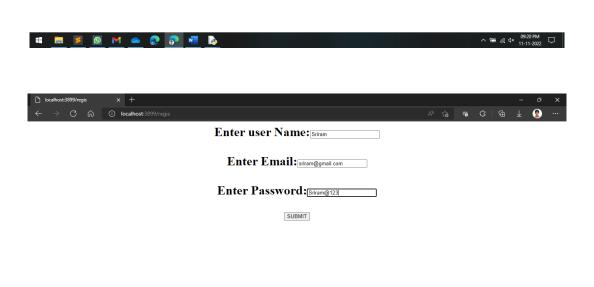
msg="You have successfully registered"

return render_template('login.html',msg=msg)

if __name__ == '__main__':

app.run('127.0.0.1',3899)
```





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Click here to register

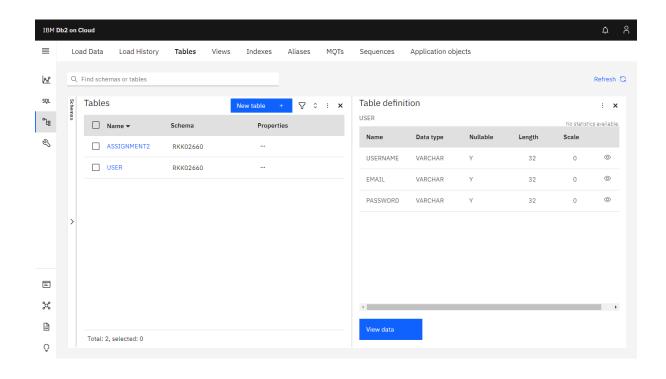


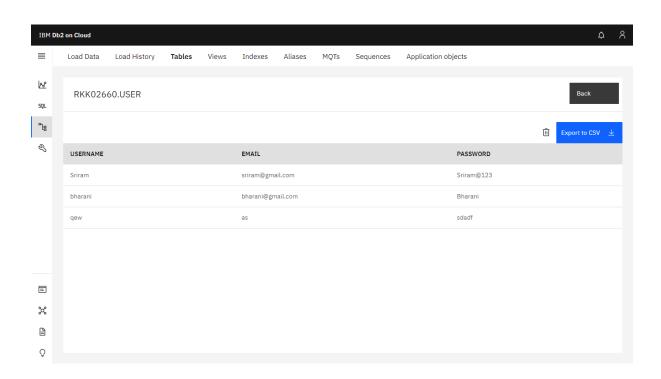




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