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><br>
             Enter
                      Phone
                                Number:<input
                                                  type
                                                               "text"
                                                                        name
"phoneNumber"/><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'])
              if request.method ==
def login():
'POST':
              user_name = request.form['userName']
                                                                 email_id =
request.form['emailId']
                                    phone_number = request.form['phoneNumber']
       return '{}{}{}{}{}\delta\format("<center><h1>Your user
",user_name,"</h1><br><br><br><br><br>Your email-id is: ",email_id,"</h2><br><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
            plt.show()
Matplotlib')
  a = np.array([0, np.pi/2, np.pi])
  translator= Translator(to_lang="ta")
  translation =
                   ("English
                               to
                                      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
sin(a))+"</h1></br></br></br></rb>
if __name__ == '__main__':
      app.run('127.0.0.1',3898,debug=True)
```

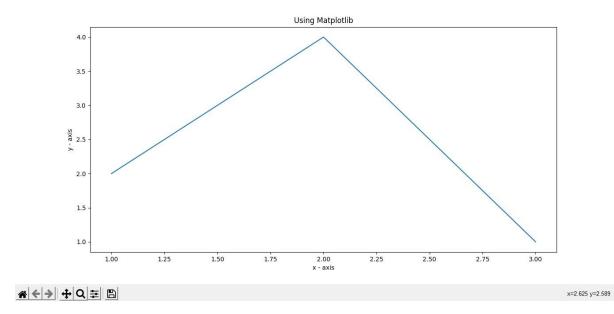


Thumbs up emoji using the pakage emoji: 👍

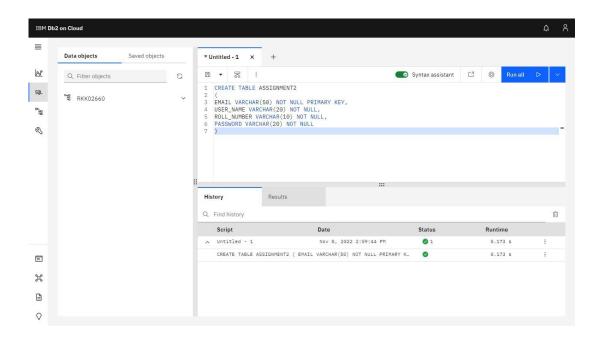
English to Tamil translation using the package translate:எப்படி இருக்கிறீங்க?

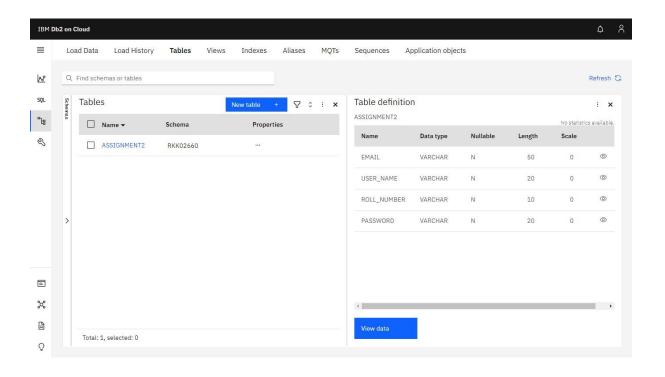
[0.0000000e+00 1.0000000e+00 1.2246468e-16]

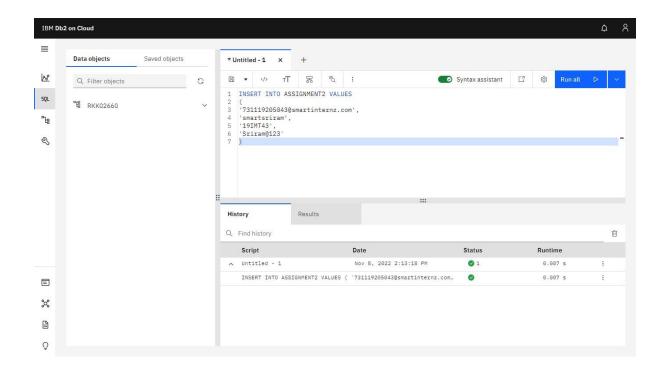
['https://www.ibm.com/in-en/cloud.in', 'https://cloud.ibm.com/n', 'https://cloud.ibm.com/cloud.ibm.com/registration'n', 'https://cloud.ibm.com/developer/watson'n', 'https://cloud.ibm.com/docs/cloud.shell?topic=cloud-shell-getting-started'n', 'https://www.ibm.com/cloud/free'n', 'https://cloud.ibm.com/catalog'n',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

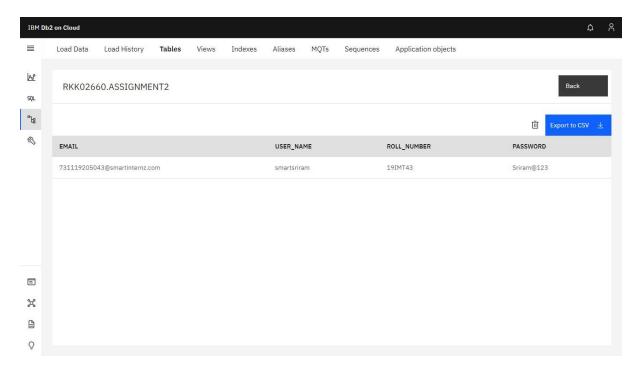


3.Create User table with user with email, username, roll number, password.

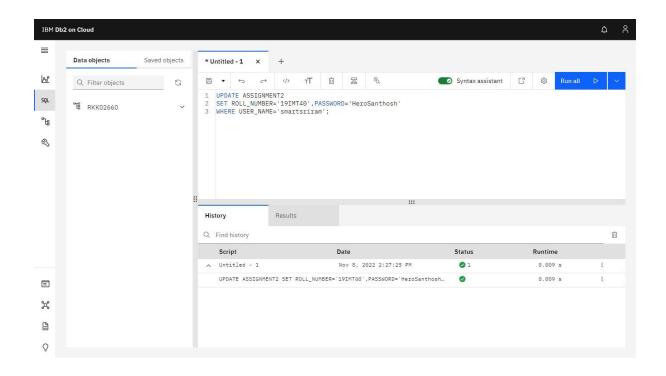


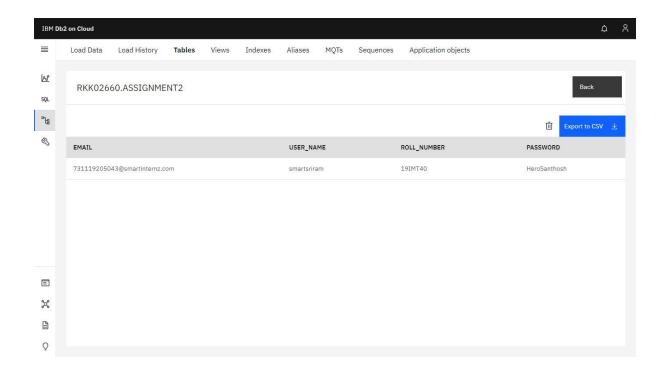


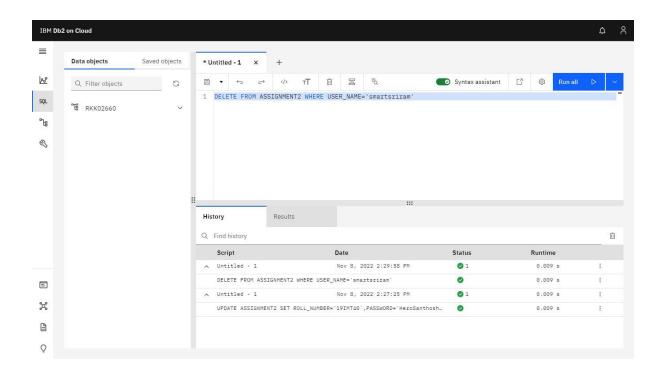


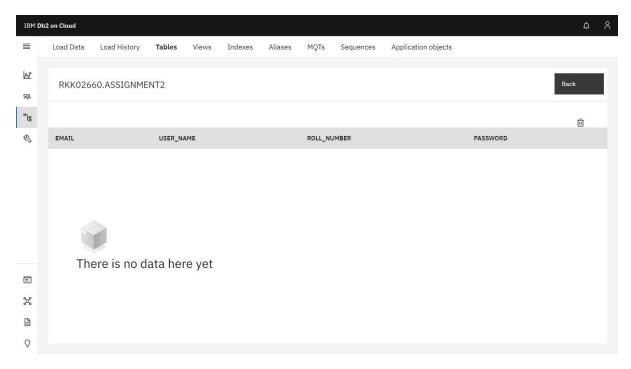


4.Perform UPDATE, DELETE Queries with user table









- 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: <a href="/regis"><a href="/r
```

```
</html>
register.html:
<html>
<body>
            <center>
                                               <form action =
"http://localhost:3899/register" method = "post">
                       < h1 >
                                               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-</pre>
designcolorful-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-
8fc0d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3
132
1;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=*
***********;PWD=***********,'','','') #Answer for Question(5)

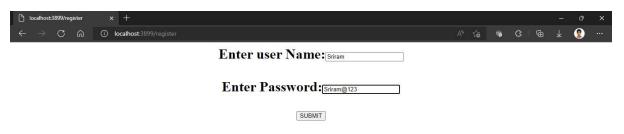
@app.route('/')
```

```
def
      home():
                               return
render_template('login.html')
@app.route('/regis') def regis():
                                return
render_template('register.html')
@app.route('/login',methods=['GET','POST'])
             global userid
                            msg='' if
def login():
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:
```

🖰 localhost3899 x +				7-	ø	×
\leftarrow \rightarrow $^{\circ}$ $^{\circ}$ $^{\circ}$ localhost 3899	A [®] to	49	G		®	
Enter user Name:						
Enter Password:						
SUBMIT						
Click here to register						







Click here to register







