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.

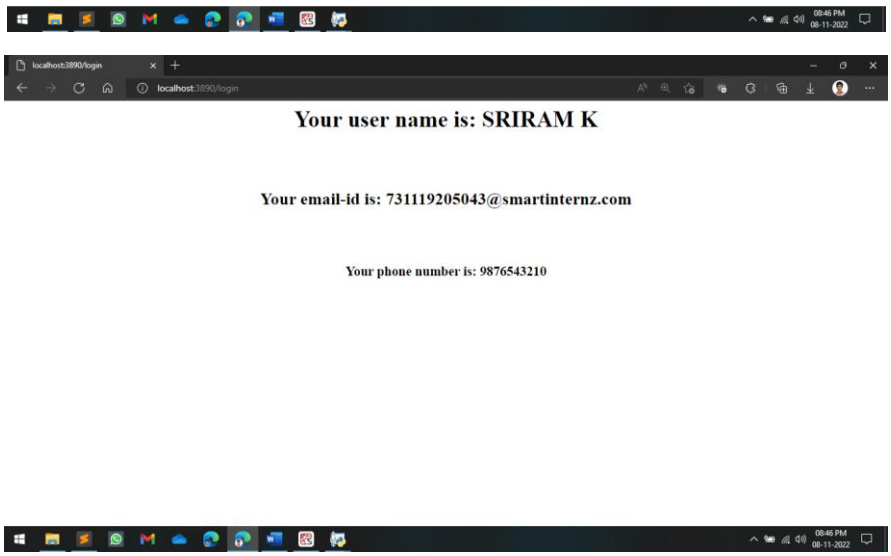
Login.html:

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

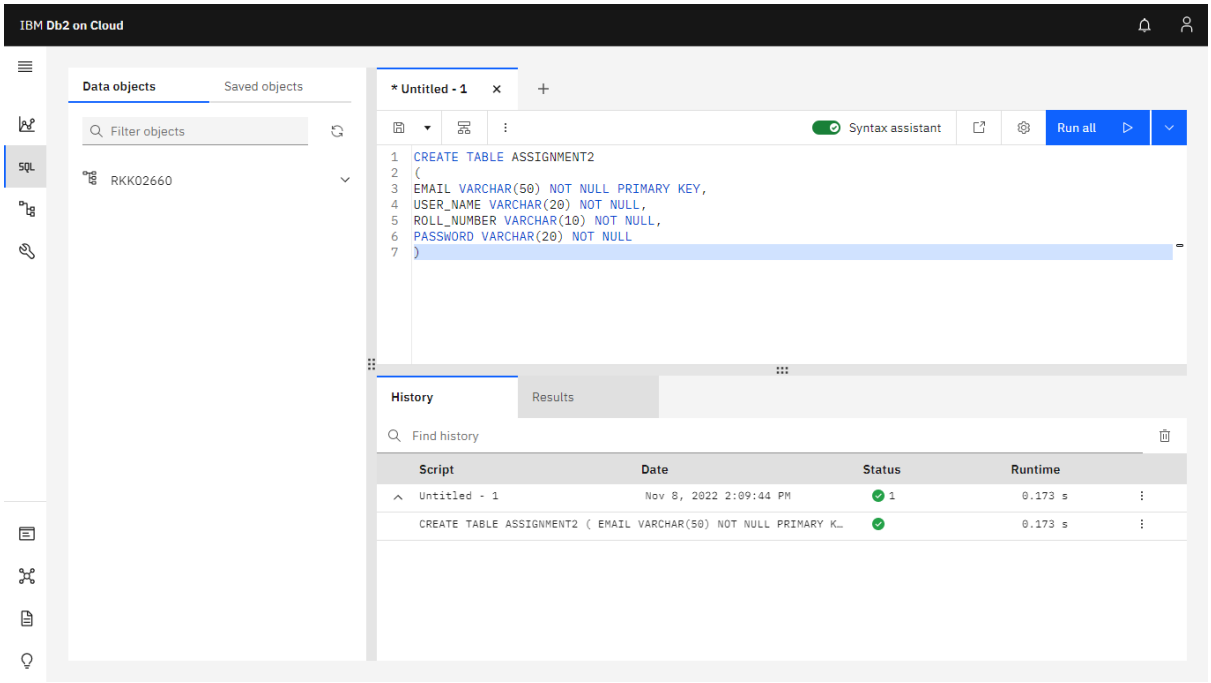
```
        </center>
</body>
</html>
```

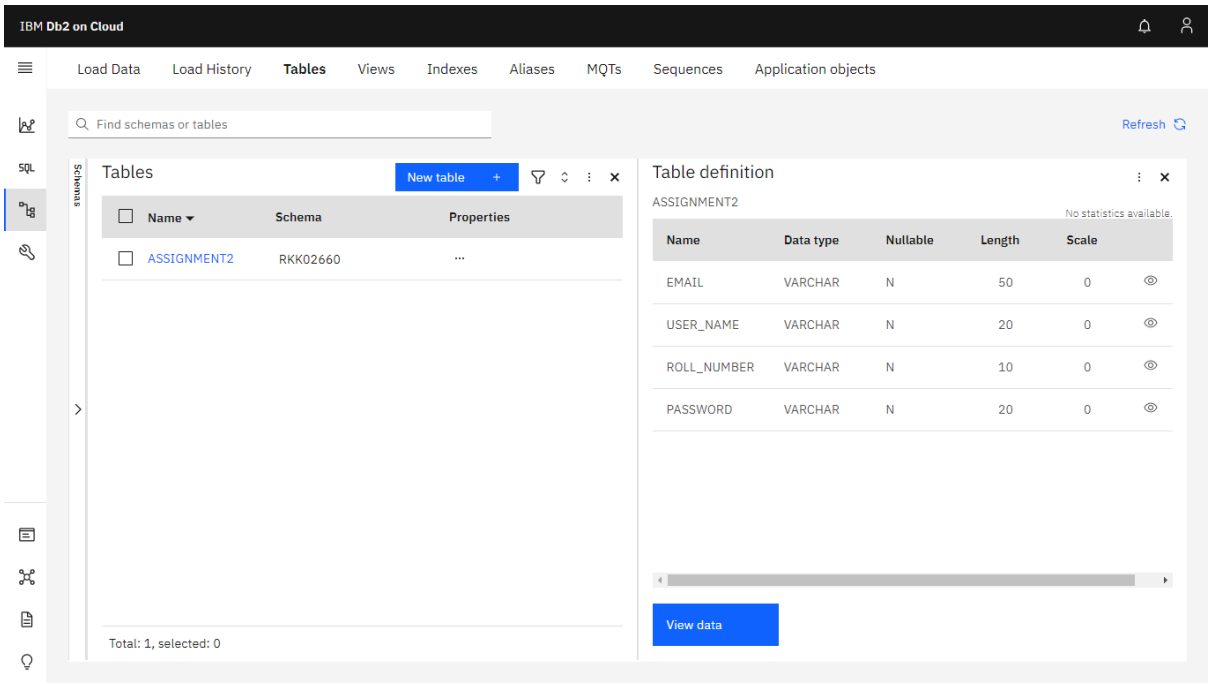
Sample.py:

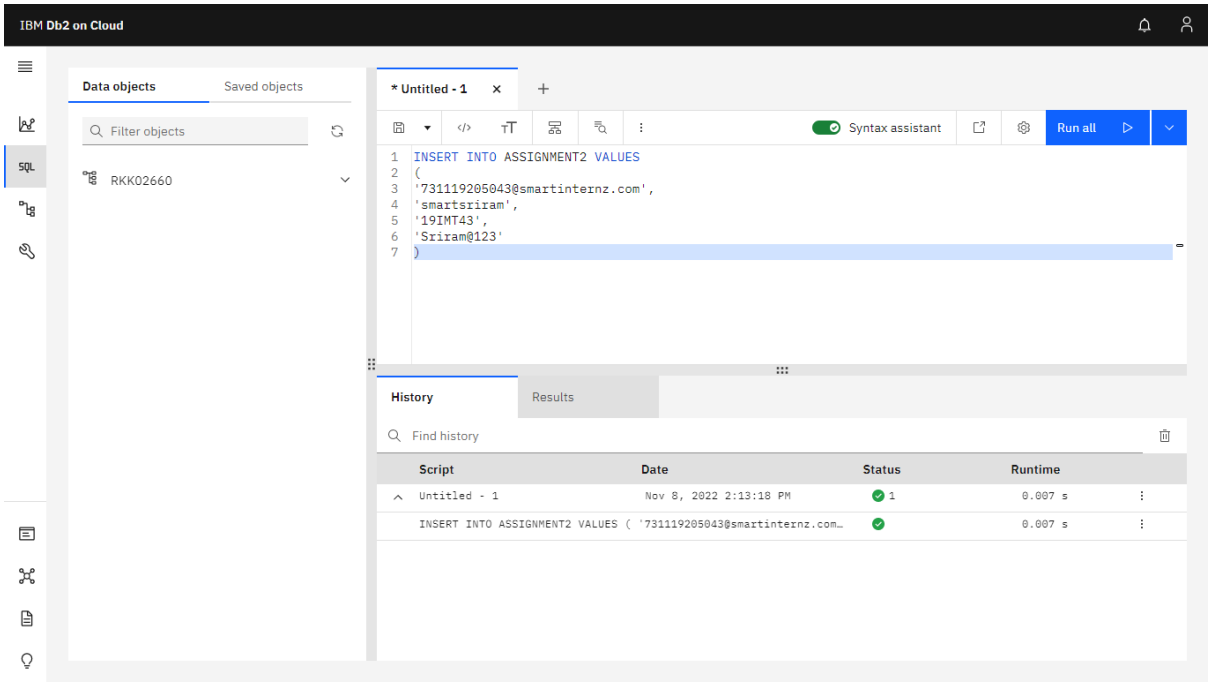
```
from flask import Flask, redirect, url_for, request
app = Flask(__name__)

@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']
                return '{}{}{}{}{}{}{}'.format("<center><h1>Your user name is: ",user_name,"</h1><br><br><h2>Your email-id is: ",email_id,"</h2><br><br><h3>Your phone number is: ",phone_number,"</h3></center>")

if __name__ == '__main__':
        app.run('127.0.0.1',3890)
```

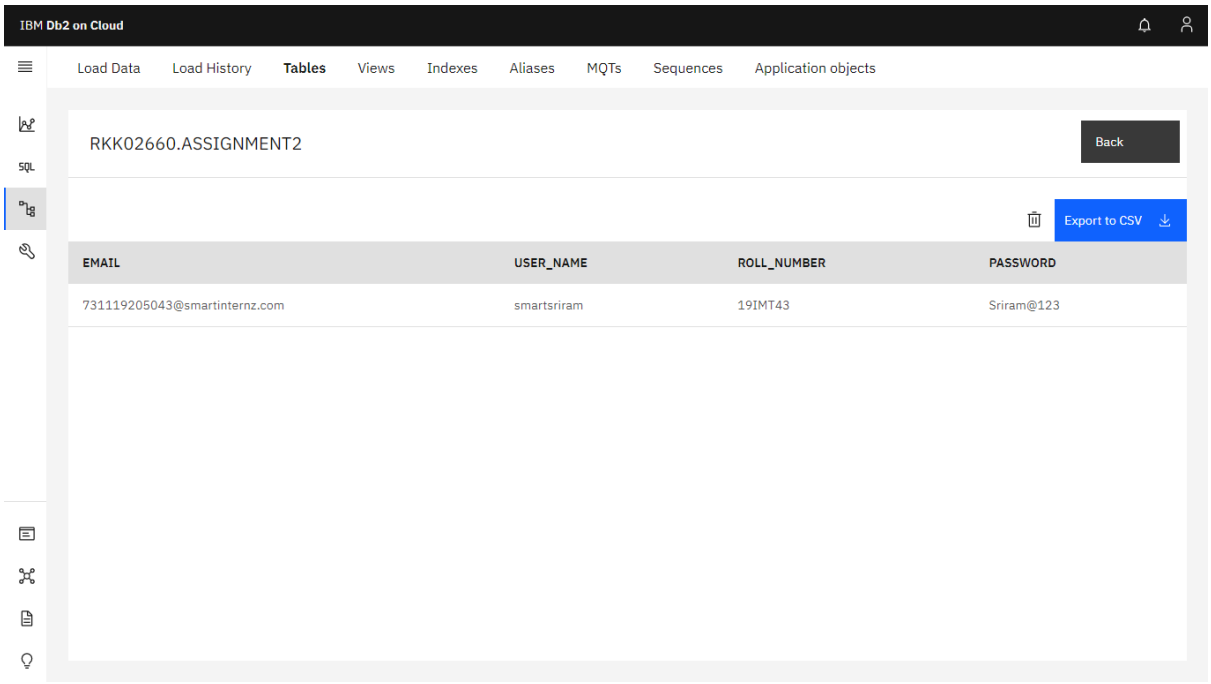


3.Create User table with user with email, username, roll number, password.

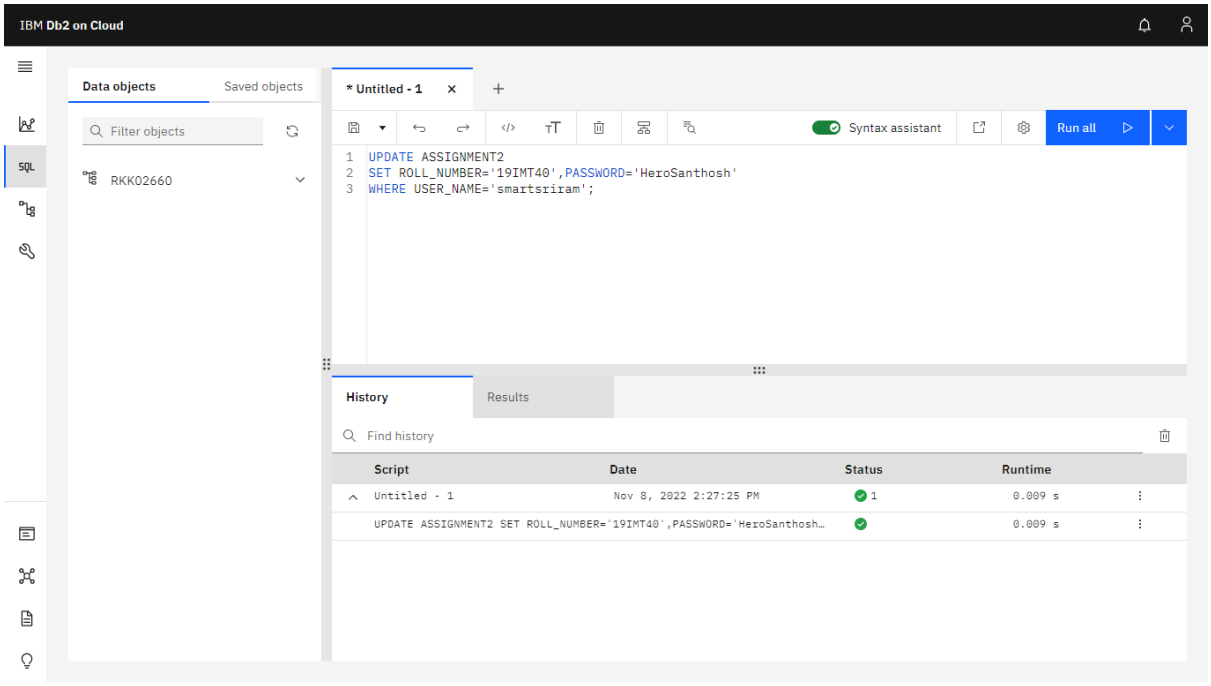


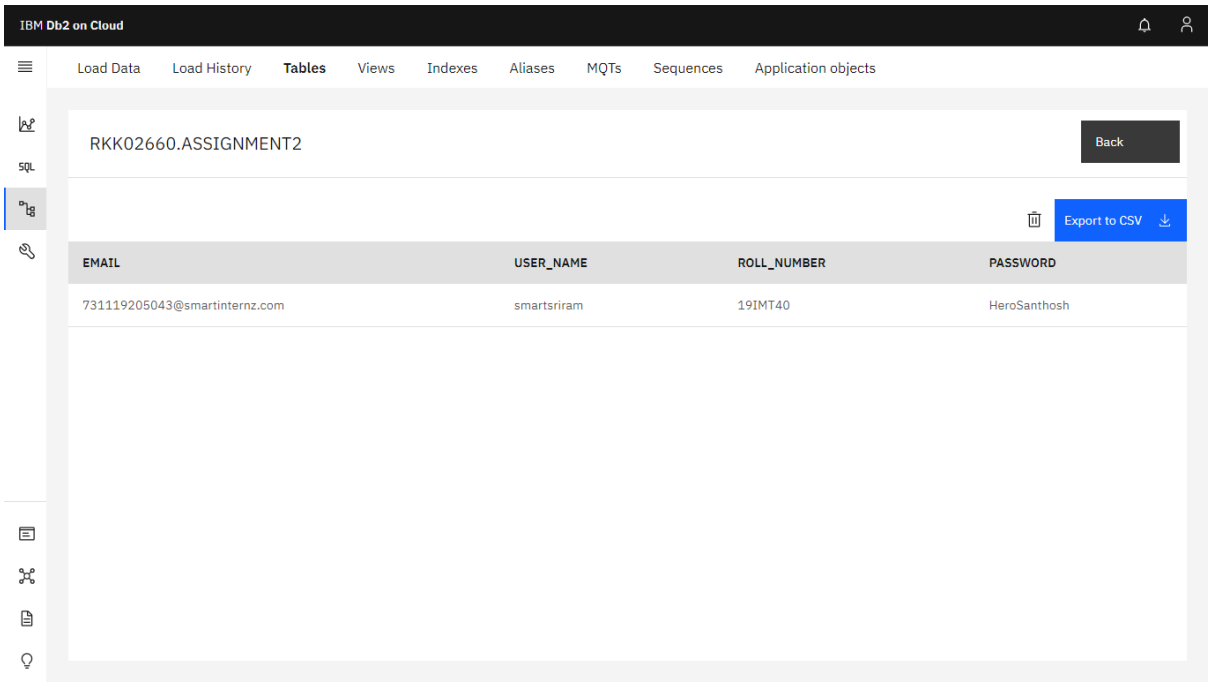


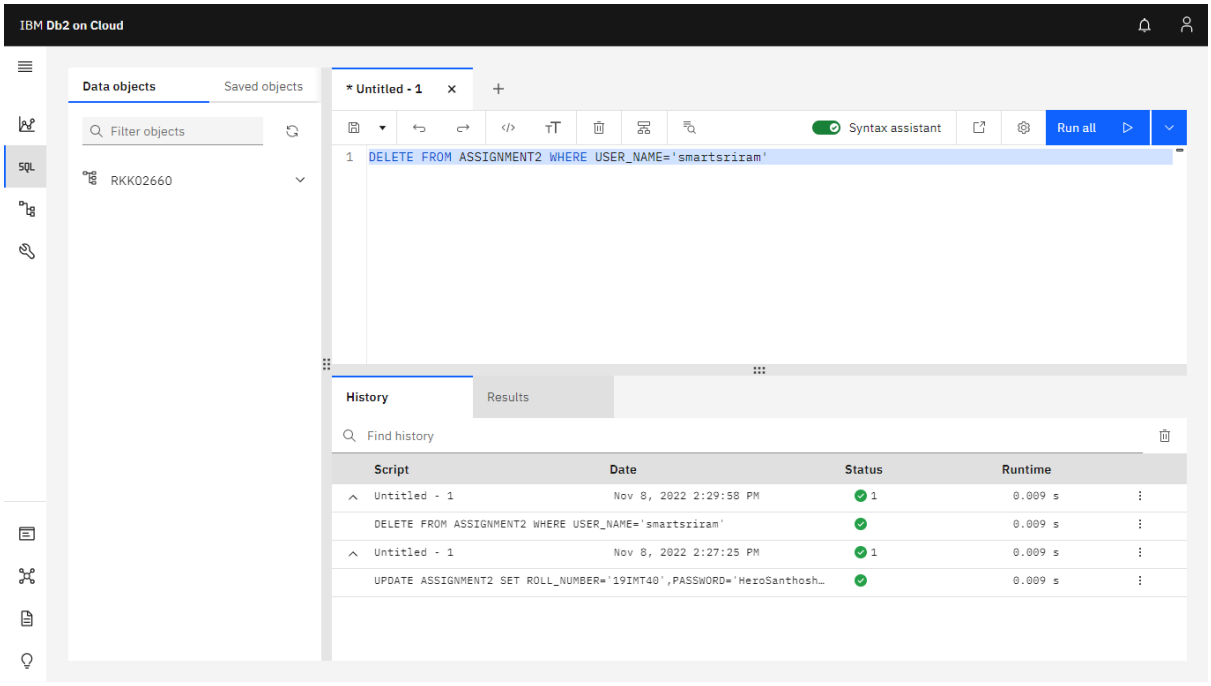


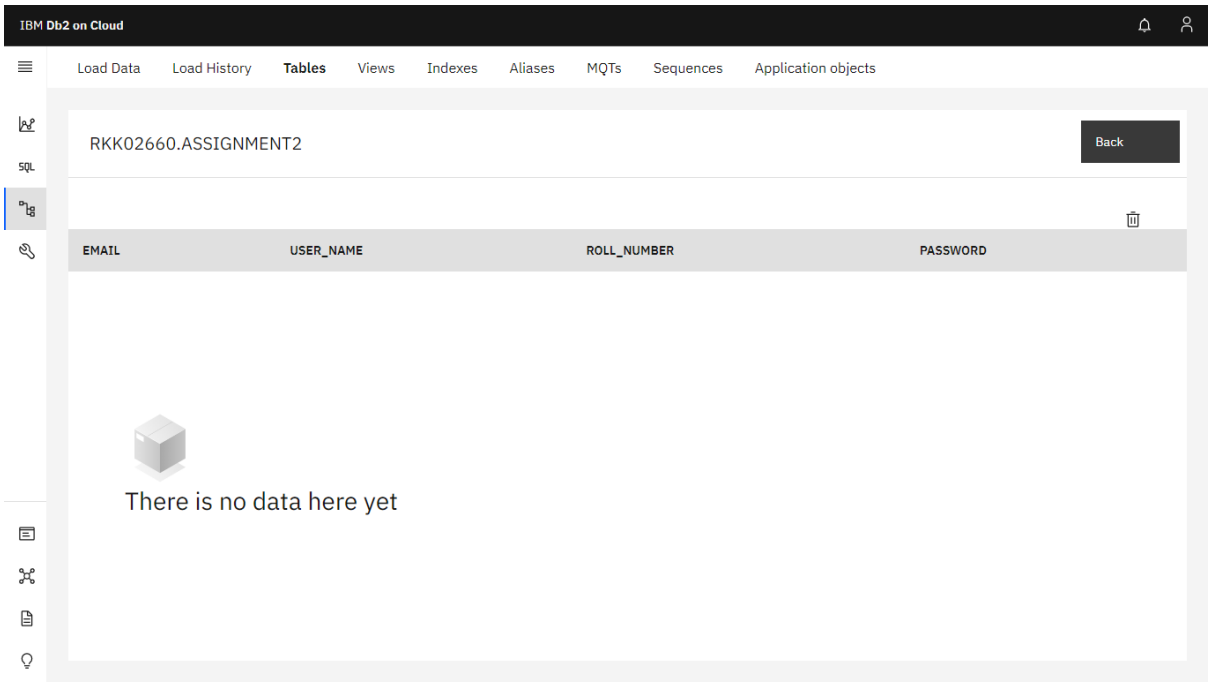


4.Perform UPDATE, DELETE Queries with user table


IBM Db2 on Cloud
Data objects
Saved objects
Filter objects
RKK02660
* Untitled - 1
Syntax assistant
Run all
1 UPDATE ASSIGNMENT2
2 SET ROLL_NUMBER='19IMT40',PASSWORD='HeroSanthosh'
3 WHERE USER_NAME='smartsriram';
History
Results
Find history
Script
Date
Status
Runtime
Untitled - 1
Nov 8, 2022 2:27:25 PM
1
0.009 s
UPDATE ASSIGNMENT2 SET ROLL_NUMBER='19IMT40',PASSWORD='HeroSanthosh…
0.009 s


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
RKK02660.ASSIGNMENT2
Back
Export to CSV
EMAIL
USER_NAME
ROLL_NUMBER
PASSWORD
731119205043@smartinternz.com
smartsriram
19IMT40
HeroSanthosh





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app.py

```
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=ba99a9e6-d59e-
4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3132
1;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=r
kk02660;PWD=MjT4FnHjLsN6rpbn",' ',' ')

@app.route('/')
def home():
    return render_template('home.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 Users 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:
            session['Loggedin']=True
            session['id']=account['username']
            userid=account['username']
            session['username']=account['username']
            msg='Logged in successfully!'
            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():
        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)
            account = ibm_db.fetch_assoc(stmt)
            print(account)
            if account:
                msg='Account already exist!'
            elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):
                msg="Invalid email address"
            else:
                insert_sql="INSERT INTO users VALUES(?, ?, ?)"
                prep_stmt=ibm_db.prepare(conn,inser_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"
        elif request.method=='POST':
            msg="Please fill out the form"
            return render_template('register.html',msg=msg)

@app.route('/dashboard',methods=['GET','POST'])
def dash():
    return render_template('dashboard.html')

@app.route('/apply',methods=['GET','POST'])
def app():
    msg=' '
    if request.method=="POST":
        username=request.form['username']
        email=request.form['email']
        qualification=request.form['qualification']
        skills=request.form['skills']
        jobs=request.form['s']
        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:
            msg="There is only 1 job position"
            return render_template('app.html',msg=msg)
```

```
        insert_sql="INSERT INTO job VALUES(?, ?, ?, ?)"
        perp_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,qualification)
        ibm_db.bind_param(prep_stmt,4,skills)
        ibm_db.bind_param(prep_stmt,5,jobs)
        ibm_db.execute(stmt)
        msg="You have successfully applied for the job"
        session['Loggedin']
        TEXT="Hello user, a new application for job position" +
jobs+isrequested

    elif request.method=="POST":
            msg="Please fill out the form"
            return render_template('apply.html',msg=msg)

@app.route('/display')
def display():
    print (session["username"],session['id'])
    cursor=mysql.connection.cursor()
    cursor.execute('SELECT * FROM job WHERE userid=%s',session['id'],)
    account=cursor.fetchone()
    print("accountdisplay",account)

@app.route('/logout')
def logout():
    session.pop('loggedin',None)
    session.pop('id',None)
    session.pop('username',None)
    return render_template('home.html')

if __name__ == '__main__':
    app.run(host="0.0.0.0")
```