

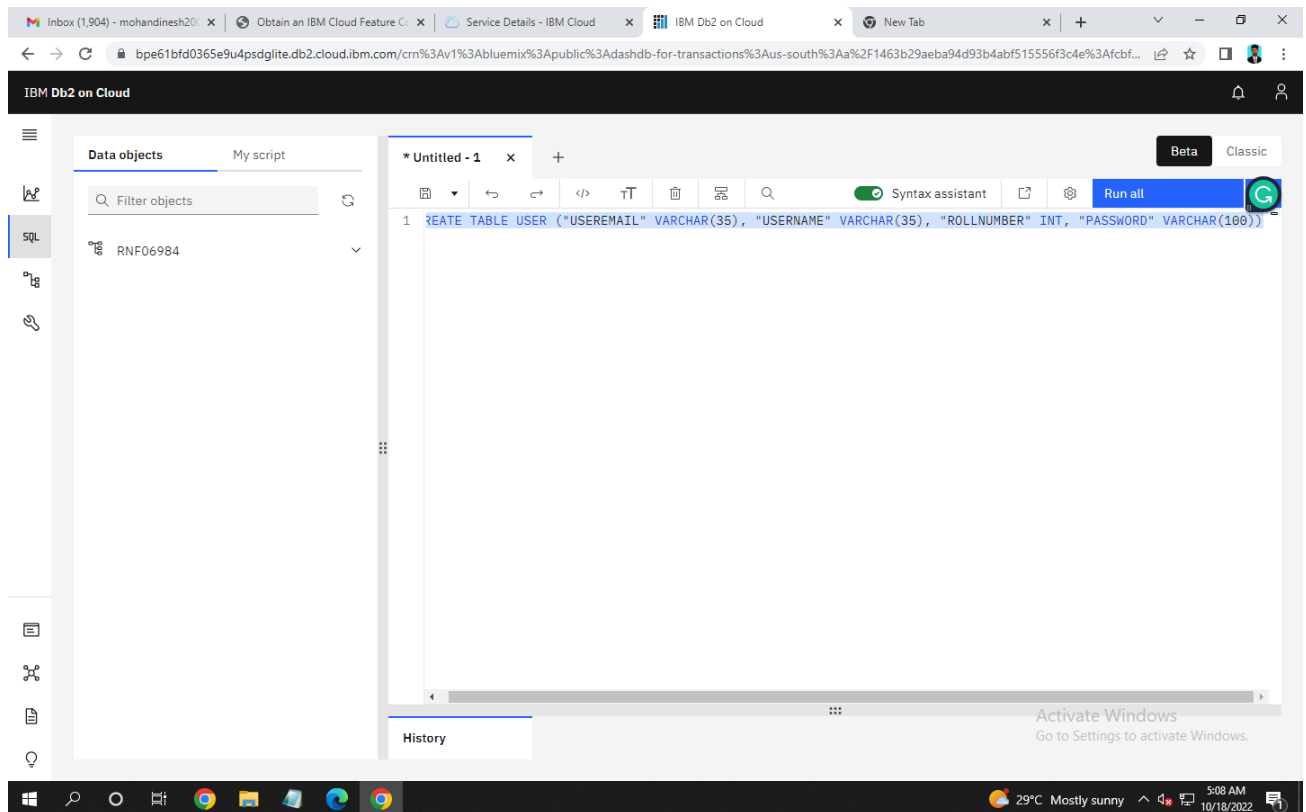
## Assignment -2

### Connect with Database Assignment

Assignment Date	09 October 2022
Student Name	GUNABHARATHI M.K
Student Roll Number	732919CSR029
Maximum Marks	2 Marks

#### Question-1:

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



2. Perform UPDATE, DELETE Queries with User table

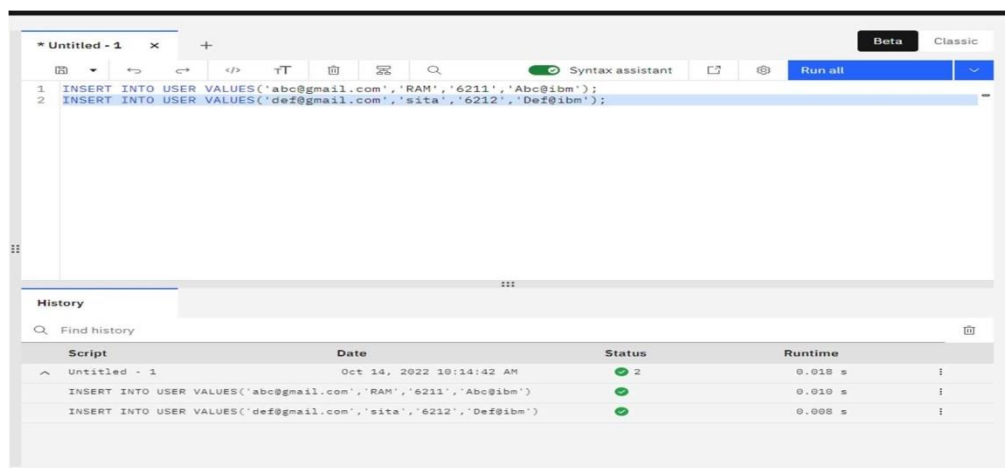


Table View:

USERNAME	ROLLNUMBER	PASSWORD
abc@gmail.com	6211	Abc@dem
def@gmail.com	6212	Def@dem

UPDATE:

```
UPDATE USER SET USERNAME='ISACK' WHERE USERNAME='abc@gmail.com';
```

Script	Date	Status	Runtime
UPDATE USER SET USERNAME='ISACK' WHERE USERNAME='abc@gmail.com'	04/10/2022 10:02:10 AM	Success	0.007 s
UPDATE USER SET USERNAME='ISACK' WHERE USERNAME='abc@gmail.com'	04/10/2022 10:02:10 AM	Success	0.007 s
UPDATE USER SET USERNAME='ISACK' WHERE USERNAME='abc@gmail.com'	04/10/2022 10:02:10 AM	Success	0.007 s

Table View:

USERNAME	ROLLNUMBER	PASSWORD
abc@gmail.com	6211	Abc@dem
def@gmail.com	6212	Def@dem

DELETE:

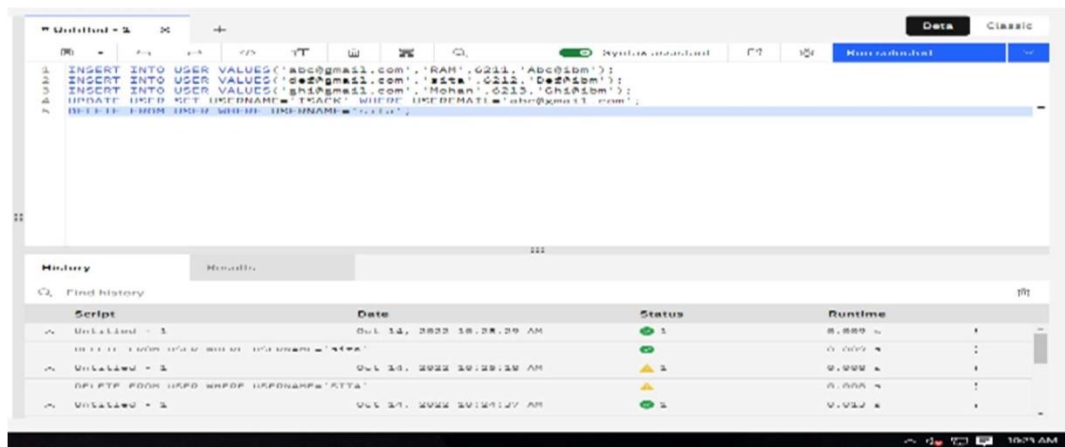
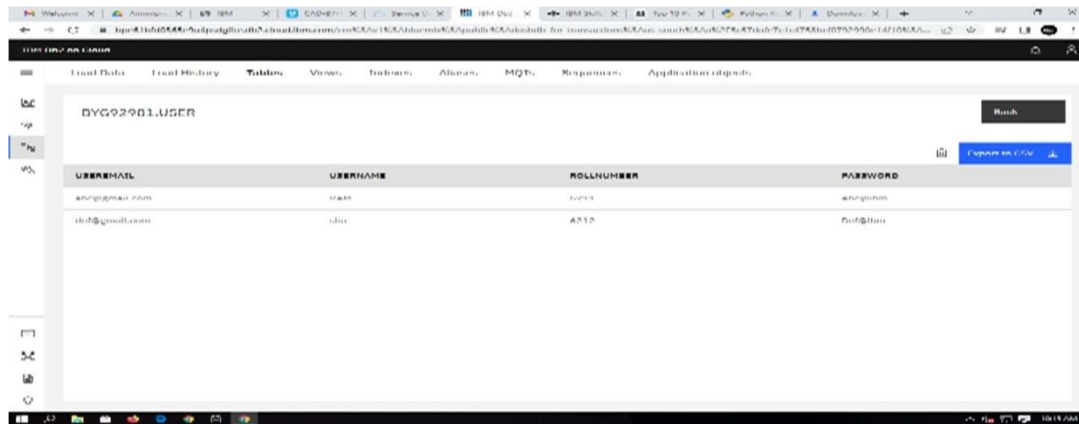


TABLE View:



3. Connect python with db2.

Solution:

```

import ibm_db conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21d
a3bb5aa6c.clogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SS
LS erverCertificate=DigiCertG1 obalRootCA.crt;PROTOCOL=TCPIP;UID= rnf06984
;PWD=' VWqiPBgxELVtAn32
','')

```

4. Create a flask app with the registration page. Login page and the 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 so the welcome page.

Solution:

```
app.py from flask import Flask, render_template, request, redirect, url_for,
session

import ibm_db
import bcrypt conn
=
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertific
ate=DigiCer tGlobalRootCA.crt;UID=;PWD=\",\"") # url_for('static', filename='style.css')

app = Flask(__name__)
app.secret_key = 'C21FGSBAPOK43K5VSIIDFB2'

@app.route("/",methods=['GET'])
def home():
    if 'email' not in session:
        return redirect(url_for('login'))
    return render_template("home.html",name='Home')

@app.route("/register",methods=['GET','POST'])
def register(): if request.method ==
'POST': email = request.form['email']
username = request.form['username']
rollNo = request.form['rollNo']
password = request.form['password']

if not email or not username or not rollNo or not password:
    return render_template('register.html',error='Please fill all fields')

hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())

query = "SELECT * FROM USER WHERE email=? OR
rollNo=?" stmt = ibm_db.prepare(conn, query)
ibm_db.bind_param(stmt,1,email)
ibm_db.bind_param(stmt,2,rollNo) ibm_db.execute(stmt)
isUser = ibm_db.fetch_assoc(stmt)

if not isUser:
    insert_sql = "INSERT INTO User(username,email,PASSWORD,rollNo) VALUES
(?,?,?,?)"      prep_stmt      =      ibm_db.prepare(conn,      insert_sql)
ibm_db.bind_param(prepare_stmt, 1, username) ibm_db.bind_param(prepare_stmt, 2,
email) ibm_db.bind_param(prepare_stmt, 3, hash) ibm_db.bind_param(prepare_stmt, 4,
rollNo) ibm_db.execute(prepare_stmt)
    return render_template('register.html',success="You can login")
```

```

else:
    return render_template('register.html',error='Invalid
Credentials') return render_template('register.html',name='Home')

@app.route("/login",methods=['GET','POST'])
def login():
    if request.method == 'POST':
        email = request.form['email']
        password = request.form['password']

        if not email or not password:
            return render_template('login.html',error='Please fill all fields')
        query = "SELECT * FROM USER WHERE
email=?" stmt = ibm_db.prepare(conn, query)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.execute(stmt) isUser =
        ibm_db.fetch_assoc(stmt)
        print(isUser,password)
        if not isUser:
            return render_template('login.html',error='Invalid Credentials')

        isPasswordMatch = bcrypt.checkpw(password.encode('utf-
8'),isUser['PASSWORD'].encode('utf-
8'))

        if not isPasswordMatch:
            return render_template('login.html',error='Invalid Credentials')

        session['email'] = isUser['EMAIL']
        return redirect(url_for('home'))

    return render_template('login.html',name='Home')
@app.route('/logout') def
logout():
    session.pop('email', None)
    return redirect(url_for('login'))

```

**OUTPUT:**



## Register

mohan@gmail.com

mohan

62134

••••••••

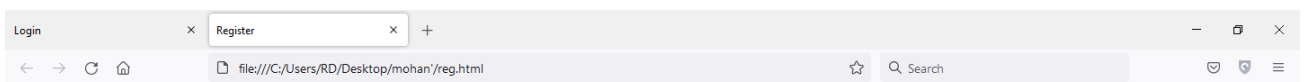
Register

{{success}}

{{error}}

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## Register

Email

Username

RollNo

Password

Register

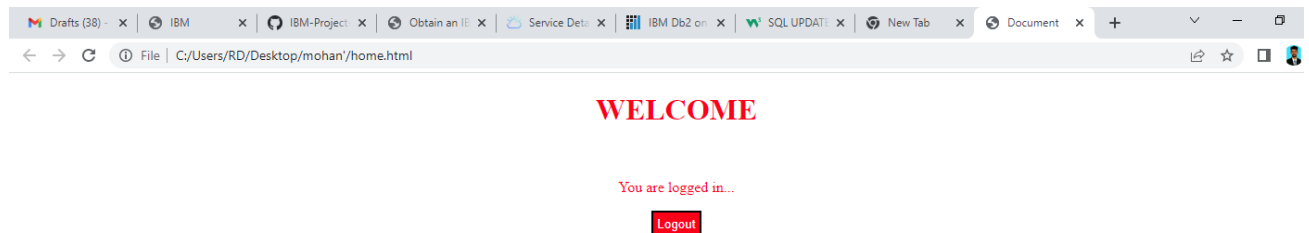
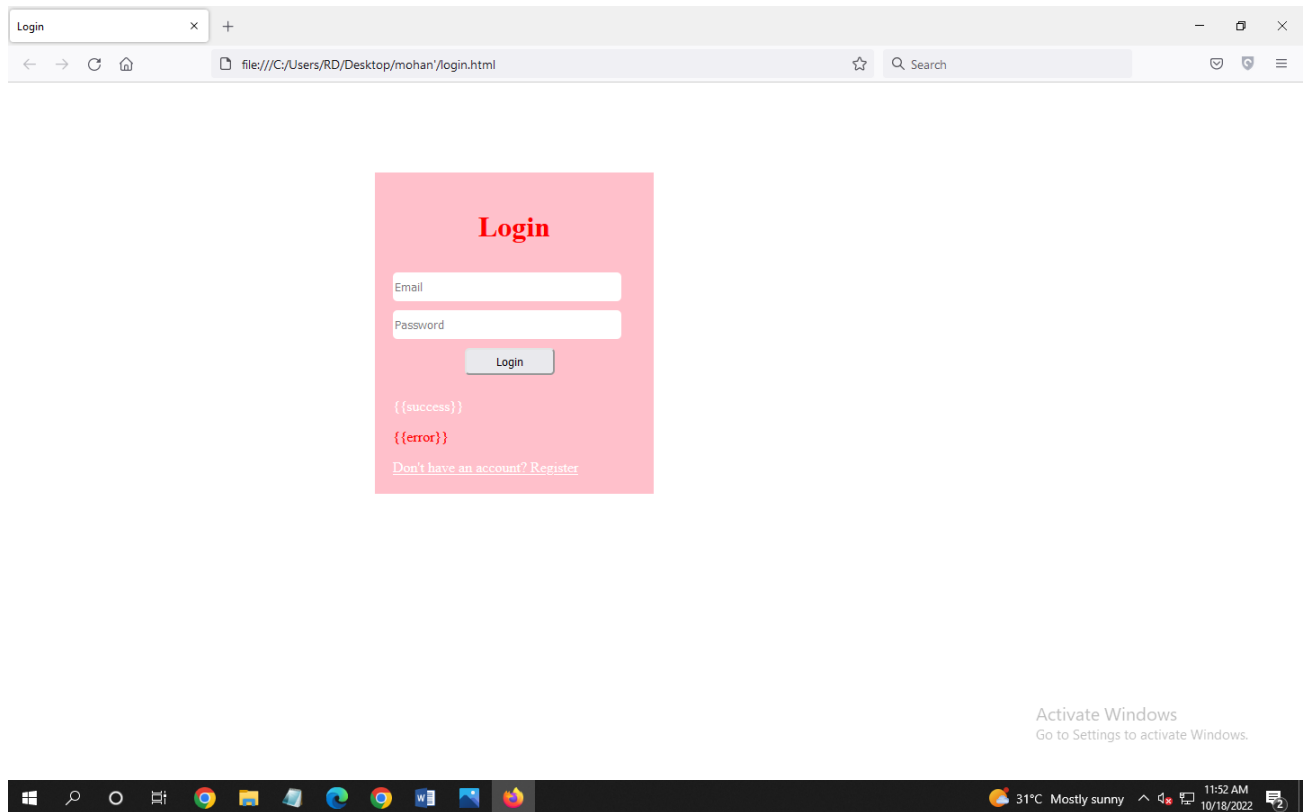
{{success}}

{{error}}

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Database:

