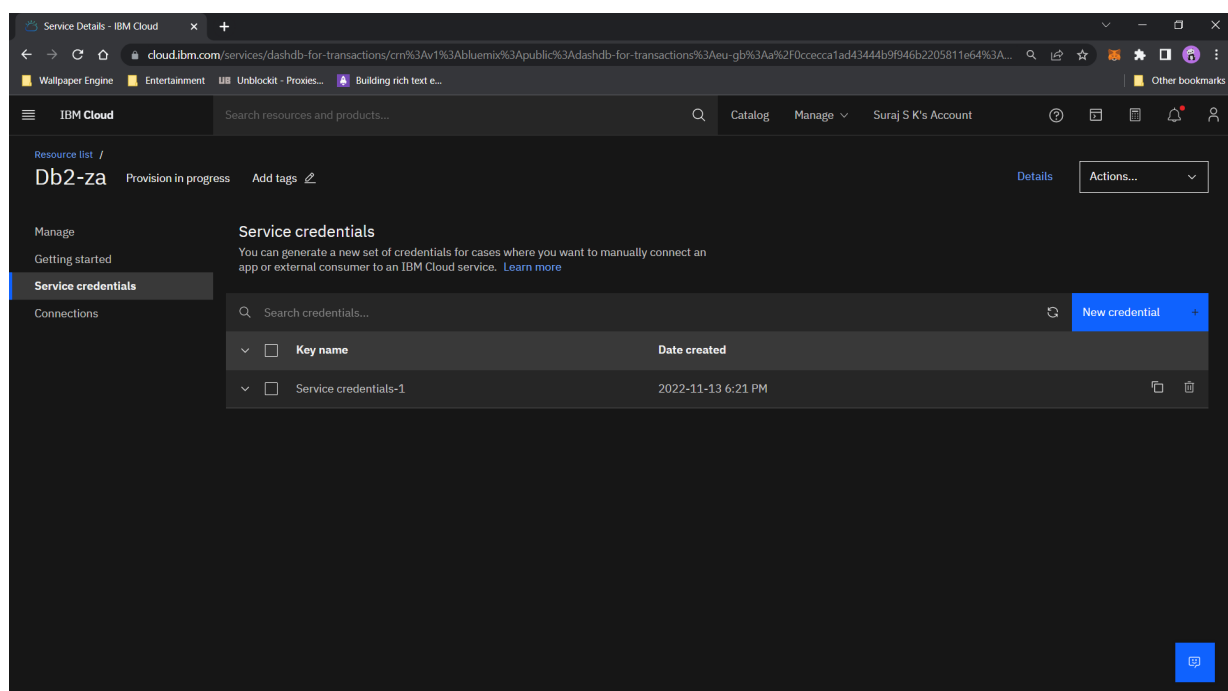
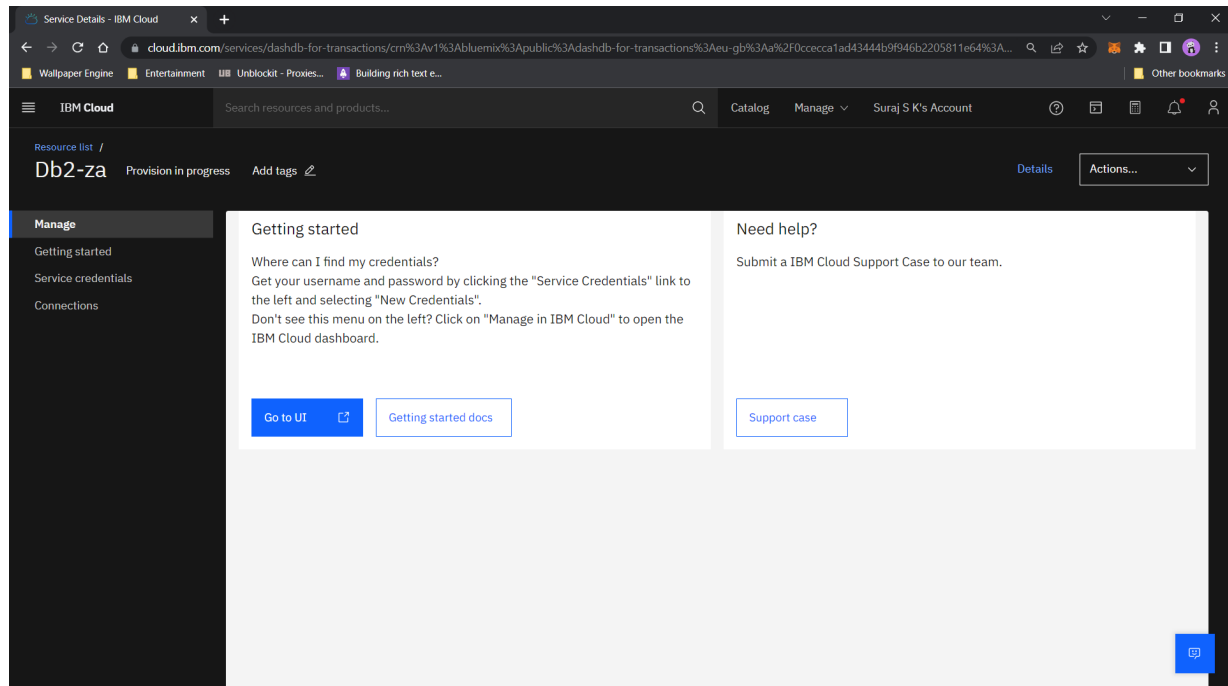


Implementing the Web Application

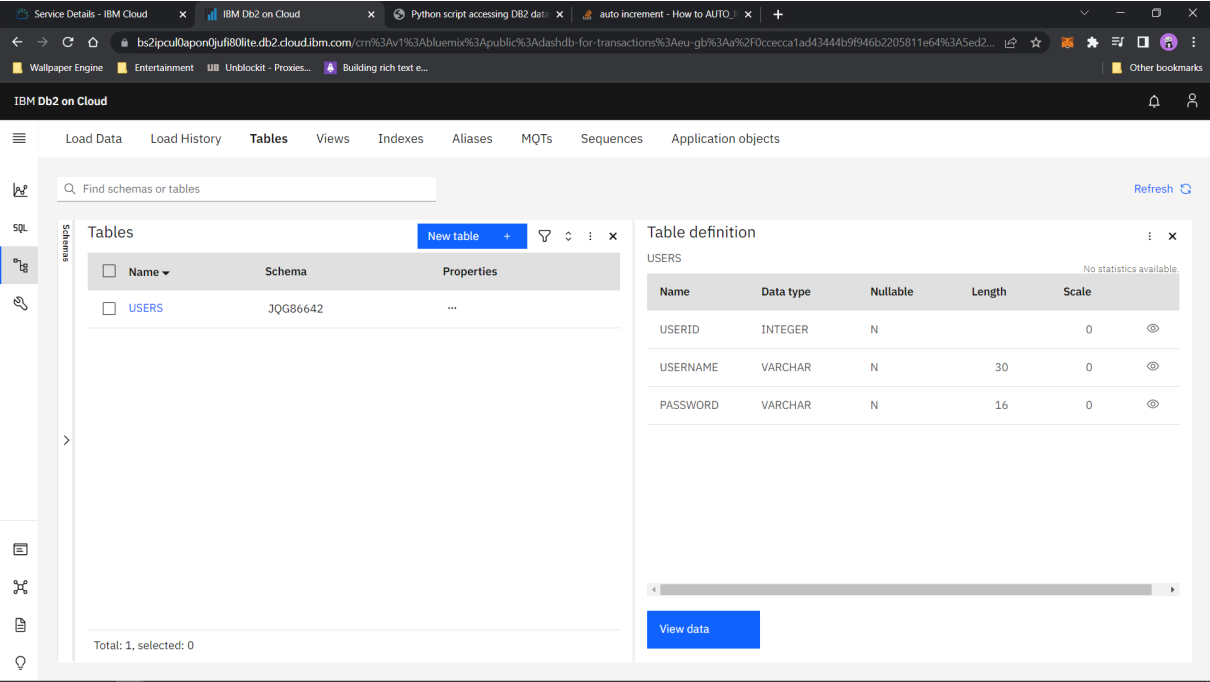
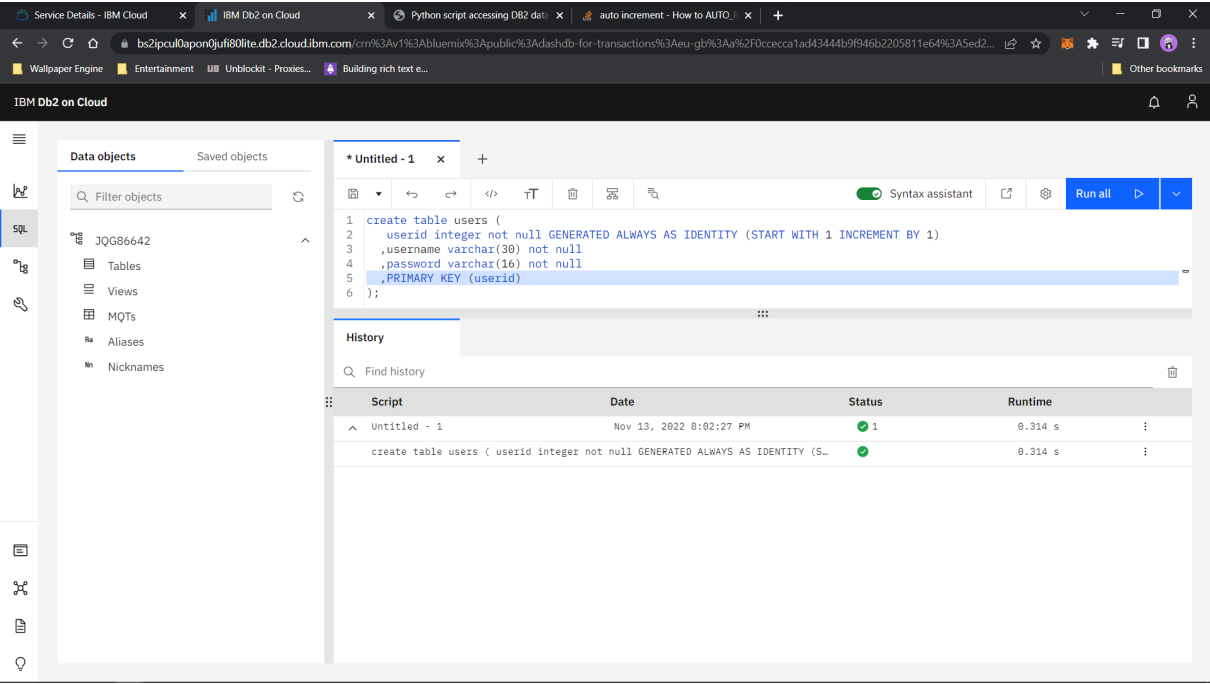
Create IBM DB2 And Connect With Python

| | |
|--------------|------------------------------------|
| Date | 3rd November 2022 |
| Team ID | PNT2022TMID53650 |
| Project Name | Project – PLASMA DONOR APPLICATION |

IBM DB2:



DB2 Table Creation:



Python and DB2 Connection:

The screenshot shows a Visual Studio Code window titled "api-flask.py - Assignment 2 - Visual Studio Code". The Explorer sidebar on the left shows a project named "ASSIGNMENT 2" with a folder "templates" containing "about.html", "base.html", "home.html", "signin.html", and "signup.html". Below the templates folder are files "api-flask.py" (marked with an 'M' icon) and "secrets.env" (marked with a 'U' icon). The main editor displays the content of "api-flask.py", which is a Python script for a Flask application that connects to an IBM DB2 database. The script includes imports for Flask, IBM DB2, os, dotenv, and Path. It loads environment variables from "secrets.env" and attempts to connect to a DB2 database using the provided credentials. If successful, it prints server details and the database name. If an error occurs, it prints an error message. The script ends with the Flask app initialization.

```
1 from flask import Flask, render_template
2 import ibm_db
3 import os
4 from dotenv import load_dotenv
5 from pathlib import Path
6
7 dotenv_path = Path('secrets.env')
8 load_dotenv(dotenv_path=dotenv_path)
9
10 try:
11     conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90108kqbiod81cg.databases.appdomain.cloud;UID=bludb;PWD=bludb")
12     print("Connected to IBM DB2, Server Details:")
13     server = ibm_db.server_info(conn)
14
15     print("DBMS NAME: ", server.DBMS_NAME)
16     print("DBMS VER: ", server.DBMS_VER)
17     print("DB_NAME: ", server.DB_NAME)
18 except:
19     print("Error: Cannot connect with IBM DB2")
20
21 app = Flask(__name__)
```

The bottom panel of the editor shows the TERMINAL output. It displays the command prompt "bash" and the output of the script execution. The output shows that the application successfully connected to the IBM DB2 database and printed the server details. It also includes a warning message about the development server and the running addresses.

```
Afraz N/Assignment 2/api-flask.py"
Connected to IBM DB2, Server Details:
DBMS NAME:  DB2/LINUXX8664
DBMS VER:   11.05.0800
DB NAME:    BLUDB
* Serving Flask app 'api-flask'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://192.168.1.38:8080
Press CTRL+C to quit
* Restarting with stat
Connected to IBM DB2, Server Details:
DBMS NAME:  DB2/LINUXX8664
DBMS VER:   11.05.0800
DB NAME:    BLUDB
* Debugger is active
* Debugger PIN: 163-582-149
```