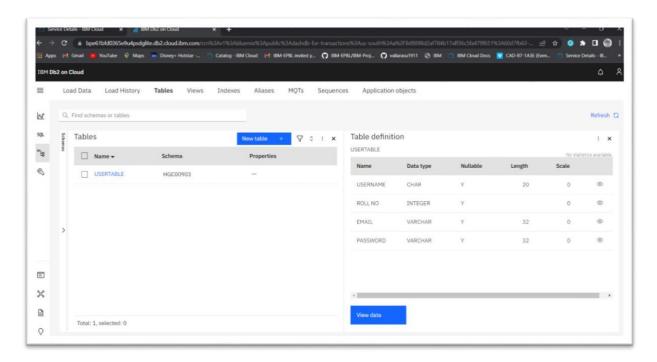
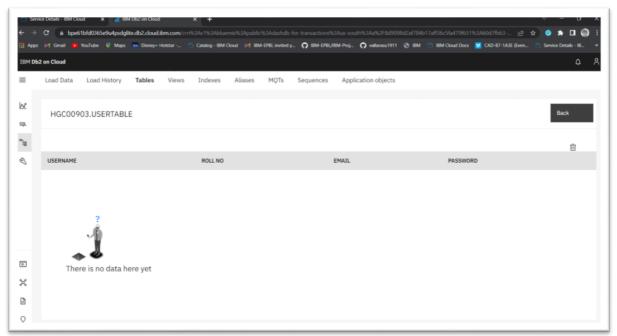
Assignment -2 IBM CLOUD DB2

Student Name	Mahadevan M
Student Roll Number	712219104015
Maximum Marks	2 Marks

Questions:

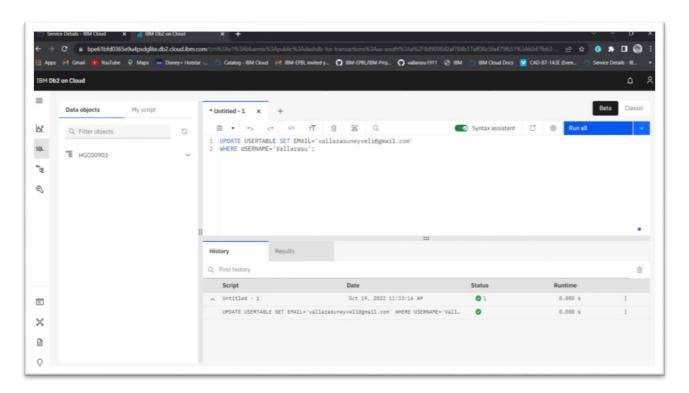
1. Create User table with user with email, username, roll number, password.

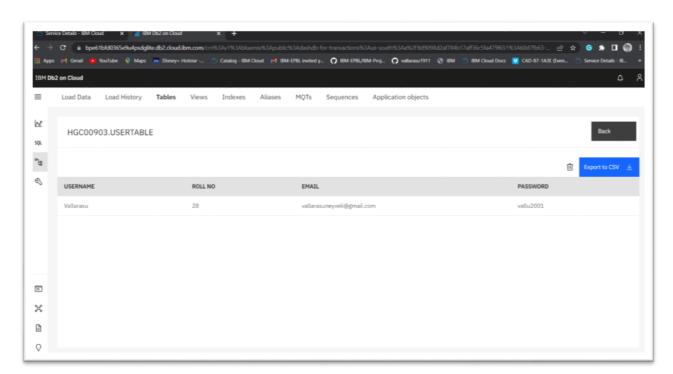




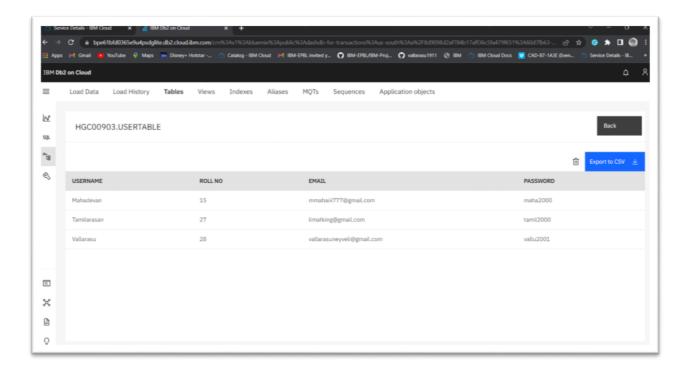
2. Perform UPDATE, DELETE Queries with user table.

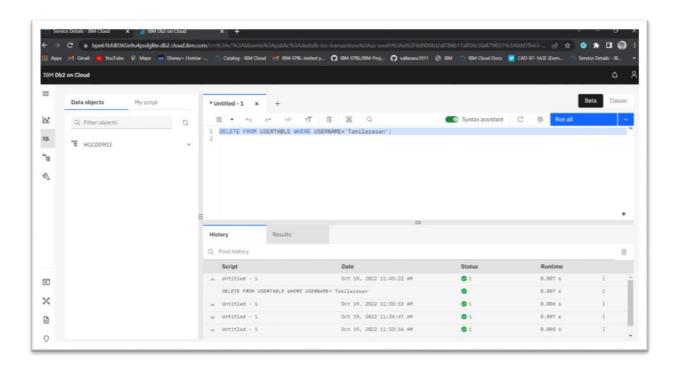
UPDATE TABLE:-

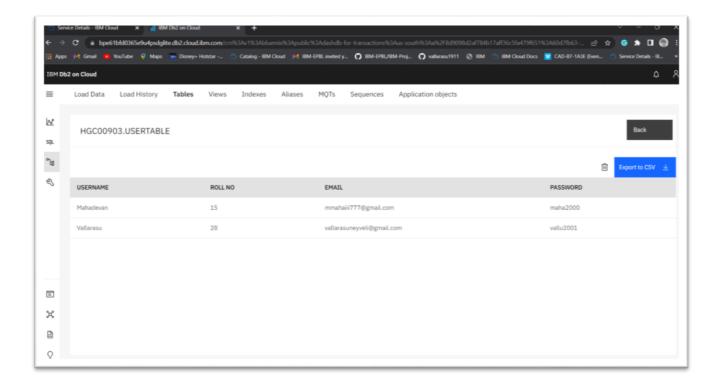




DELETE TABLE:-







3. Connect python code to db2.

```
import ibm_db
conn=ibm_db.connect
("DATABASE=bludb;HOSTNAME=blbc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud; PORT=32304; SECURITY=SSL;
SSLserverCertificate=DigiCertGlobalRootCA;UID=hgc00903;PWD=UzumT0ZHCXvHur30;","","")
print(conn)
print("connection successfully...")
```

NOTE:- Question 4 also contains Question 3 answer because to connect with ibm_db2.

4. 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 :

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=blbc1829-6f45-4cd4-bef4-10cf081900bf.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;USERNAME=hgc00903;
'PASSWORD=UzumT0ZHCXvHur30;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.crt;", "", "")
```

```
@app.route("/", methods=['GET', 'POST'])
def register():
    msg = '
     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 exists!'
elif not re.match(r'[^0]+0[^0]+\.[^0]+', email):
msg = 'Invalid email address!'
elif not re.match(r'[A-Za-z0-9]+', username):
               msg = 'name must contain only characters and numbers !'
               insert_sql = "INSERT INTO users 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!'
```

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

@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)
    ilom_db.bind_param(stmt, 1, username)
    ilom_db.bind_param(stmt, 2, password)
    ilom_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account['USERNAME']
        session('id'] = account['USERNAME']
        session('id'] = account['USERNAME']
        session('username') = account['USERNAME']
        session('user
```

Register.html:-

```
</pre
```

Login.html:-

Dashboard.html:-

```
<!DOCTYPE html>
<html lang="en">
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dashboard page</title>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"</pre>
   integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.css">
  <link rel="stylesheet" href="/static/style.css">
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap" rel="stylesheet">
  <link href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap" rel="stylesheet">
 <H1>WELCOME TO DASHBOARD</H1>
<h3>SMART FASHION RECOMMENDER</h3>
</html>
```

Style.css:-

```
margin: 0;
    padding: 0;
body {
   display: flex;
    align-items: center;
    justify-content: center;
form {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color: ■ gray;
    width: 40%;
    height: 450px;
    border-radius: 50px;
    margin: 100px;
    gap: 25px;
h2 {
    font-size: large;
    font-weight: bolder;
input {
    width: 80% !important;
```

```
h2 {
    font-size: large;
    font-weight: bolder;
}

input {
    width: 80% !important;
}

div {
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}

.form-text-vk {
    font-size: small;
    padding-bottom: 10px;
}

.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

Style1.css:-

```
margin: 0;
    padding: 0;
body {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
form {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color: ■rgb(43, 230, 233);
    width: 40%;
    height: 450px;
    border-radius: 50px;
    margin: 100px;
    gap: 5px;
    font-size: large;
    font-weight: bolder;
input {
    width: 80% !important;
```

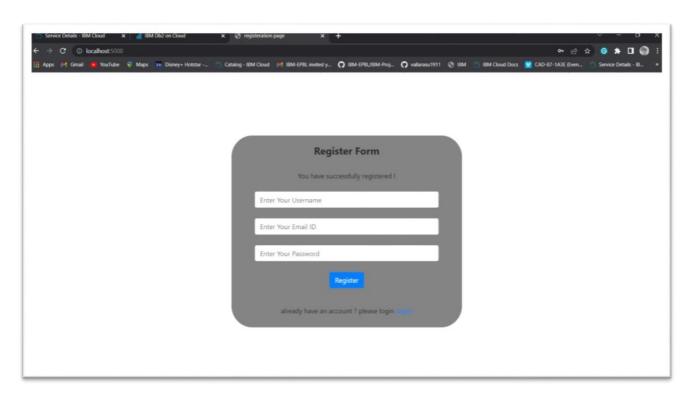
```
div {
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}

.form-text-vk {
    font-size: small;
    padding-bottom: 10px;
}

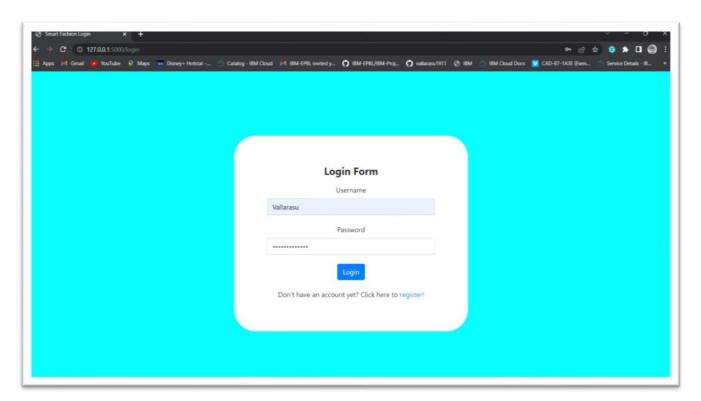
.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

Output:-

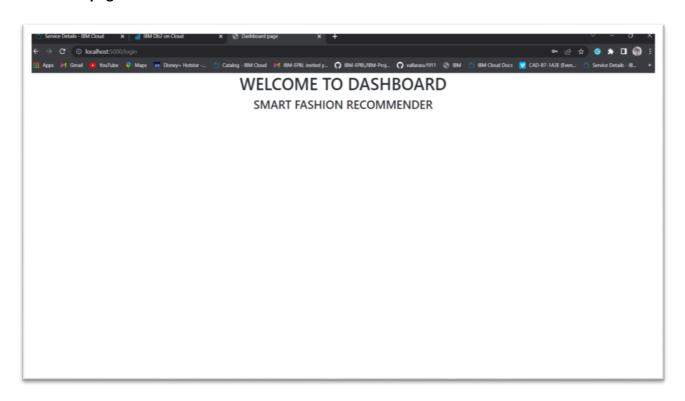
Registration page:



Login page:-



Dashboard page:-



Database Table :-

