# Assignment -2

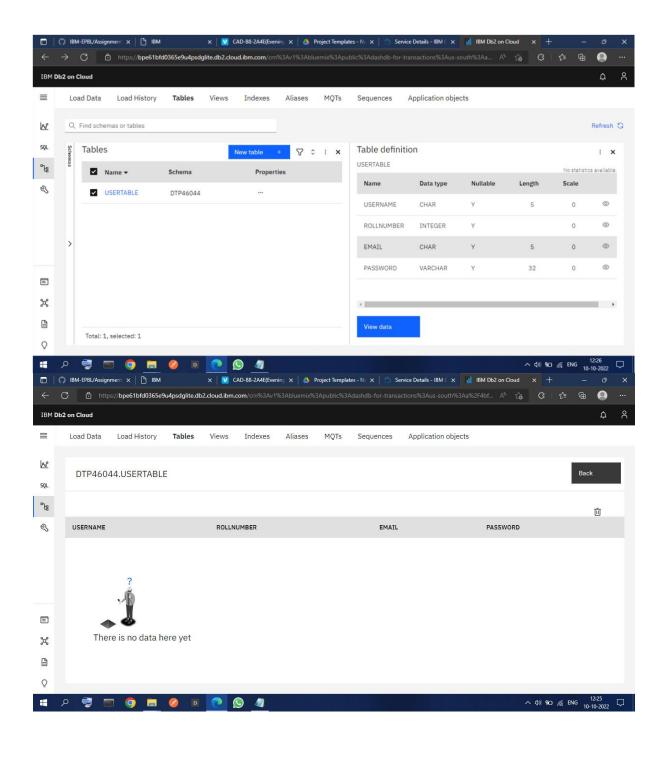
# IBM CLOUD DB2

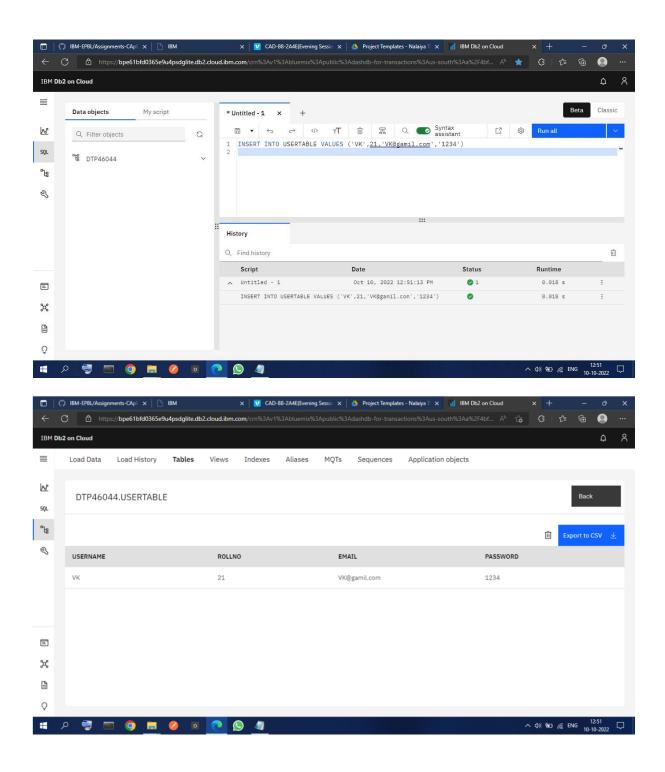
Assignment Date	29 September 2022
Student Name	Amirtha Varshini A
Student Roll Number	812419104004
Maximum Marks	2 Marks

# Questions:

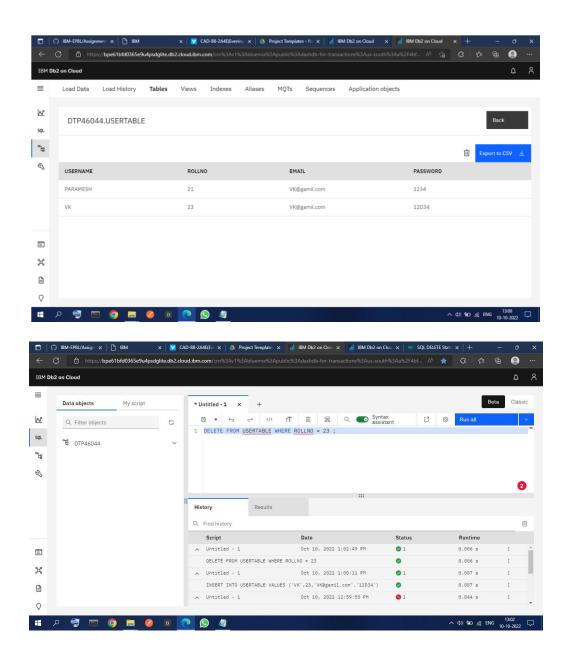
- 1. Create User table with user with email, username, roll number, password.
  - 2. Perform UPDATE, DELETE Queries with user table.

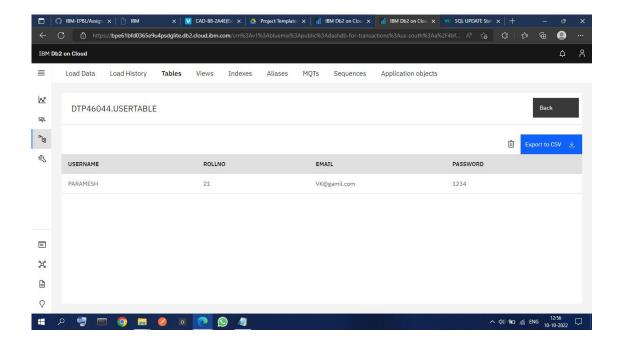
#### **UPDATE TABLE:-**





## **DELETE TABLE:-**





3. Connect python code to db2.

#### NOTE:- Question 4 contains Question 3 answer

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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.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 =?"
msg = 'Logged in successfully !
        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'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'name must contain only characters and numbers !'
else:
            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)
                                        ibm db.bind param(stmt, 1,
                  ibm_db.bind_param(stmt, 2, password)
username)
ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
                      if account:
print(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)
```

## Register.html

```
<!DOCTYPE html>
<html <pre>lang="en">
<head>
    <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>Smart Fashion register</title>
    <!-- bootstrap css cdn --> <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    k
```

```
<form action="/" method="post">
    <h2 class="form-text-h2"> Register Form </h2>
    <div class="msg">{{ msg }}</div>
```

```
<div class="msg">{{ msg }}</div>
            <input type="text" class="form-control"</pre>
name="username" placeholder="Enter Your Username"
id="username"
                               required>
            <input type="email" class="form-control"</pre>
name="email" placeholder="Enter Your Email ID" id="email"
required>
            <input type="password" class="form-control"</pre>
name="password" placeholder="Enter Your Password"
id="password"
                               required>
            <button type="submit" id="button" class="btn btn-</pre>
primary">
Register </button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                 already have an account ? please login <a</p>
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

### Login.html

```
<!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>
32x32.png">
    <!-- bootstrap css cdn --> <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <div class="login text-center mt-5">
        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username"</pre>
name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control"</pre>
placeholder="Password" name="password" required>
```

```
</div>
          <button type="submit" id="button" class="btn btn-primary"> Login
</button>
          <div class="note mt-3 text-center">
              <!--Register form -->
              > Don't have an account yet? Click here to <a</p>
</form>
   </div>
</body>
</html>
Style.css
* { margin:
  padding: 0;
body { background-color: aqua
!important; 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: white;
width: 40%; height:
        border-radius:
450px;
50px;
       margin: 100px;
gap: 25px;
} h2 {
        font-size:
large;
        font-weight:
bolder;
 input
```

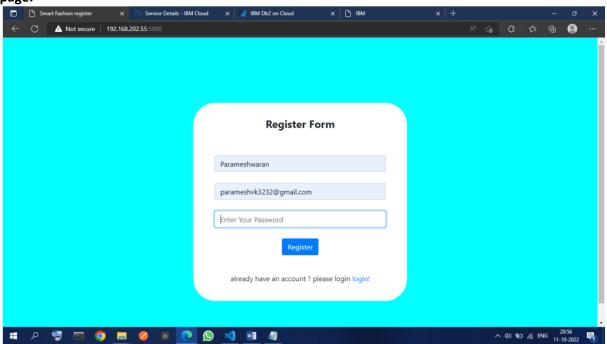
width: 80% !important;

```
} div { display: flex;
align-items: center;
justify-content: center;
flex-direction: column;
width: 90%;
}
.form-text-vk { font-
size: small;
    padding-bottom: 10px;
```

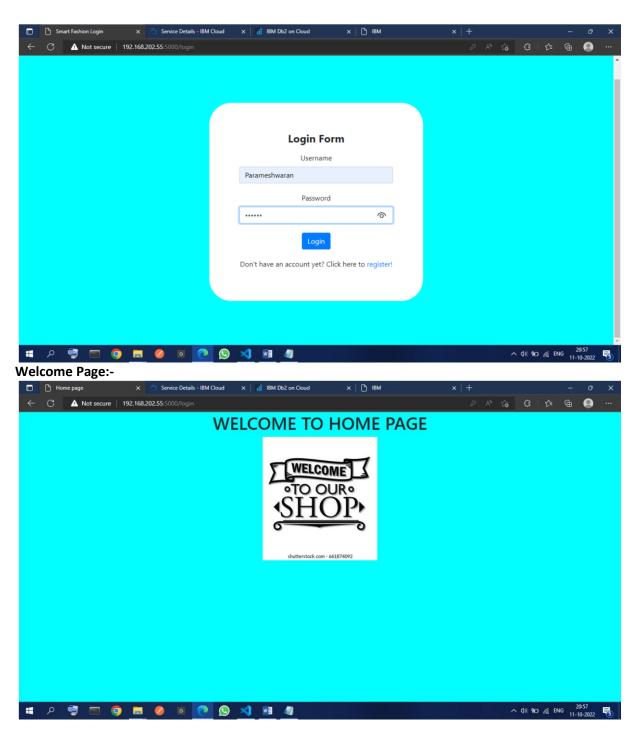
```
.form-text-h2 {      font-
size: x-large;
padding-top: 10px;
}
```

## **Output:- registration**

page:-



Login Page:-



Data Base Table :-

