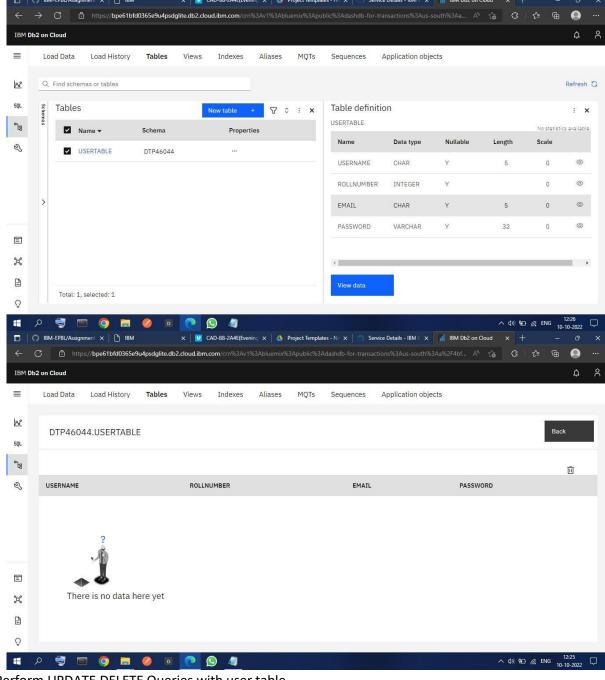
# Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Arulselvan A
Student Roll Number	412319104001
Maximum Marks	2 Marks

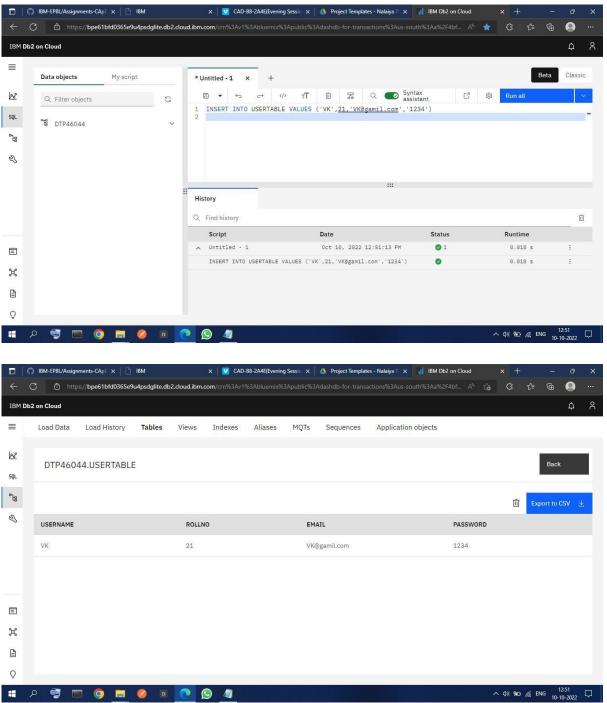
#### **Questions:**

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

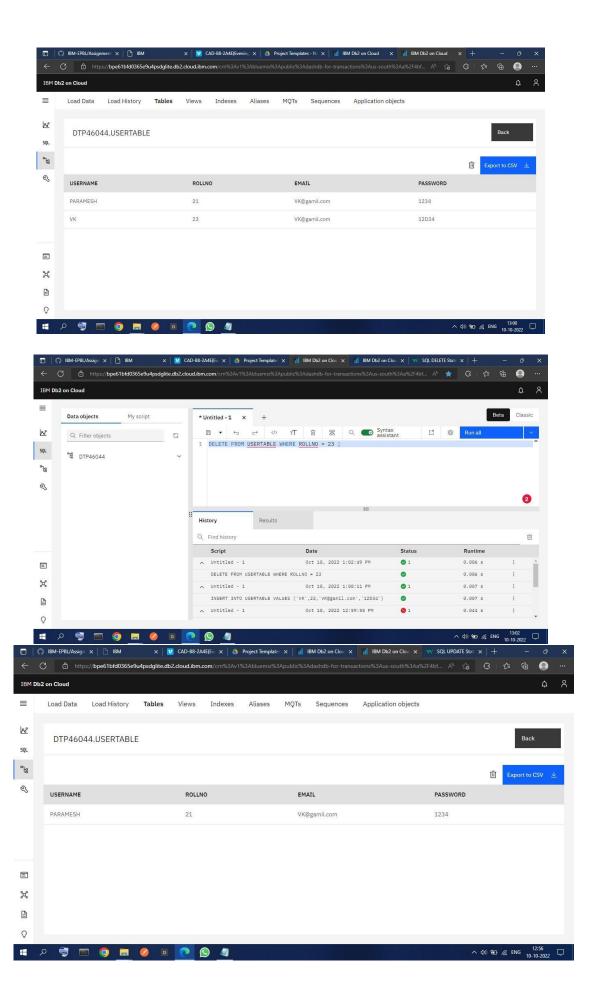


2. Perform UPDATE, DELETE Queries with user table.

## **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.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;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'[^@]+@[^@]+\.[^@]+', 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, 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 !'
msg = 'Logged in successfully !' return
render template('dashboard.html', msg=msg) else:
msg = 'Incorrect username / password !'
return render_template('login.html', msg=msg)
if __name__ == '__main__':
app.run(host='0.0.0.0') #
app.run(debug=True)
```

# Register.html

```
<!DOCTYPE html>
<html 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"</pre>
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">
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"> </head>
<body>
<!-- Login form -->
<div class="login text-center mt-5">
<form action="/" method="post">
<h2 class="form-text-h2"> Register Form </h2>
<div class="msg">{{ msg }}</div>
<input type="text" class="form-control" name="username"</pre>
placeholder="Enter Your Username" id="username"
required>
<input type="email" class="form-control" name="email"</pre>
placeholder="Enter Your Email ID" id="email" required>
<input type="password" class="form-control" name="password"</pre>
placeholder="Enter Your Password" id="password"
<button type="submit" id="button" class="btn btn-primary">
Register </button>
<div class="note mt-3 text-center">
<!--Register form -->
 already have an account ? please login <a
```

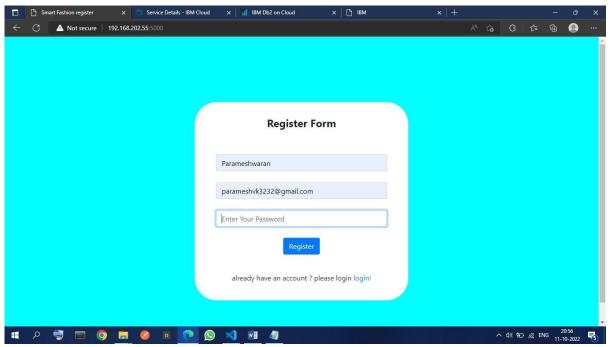
```
href="/login">login! </a> 
</div>
</form>
</div>
</body>
</html>
```

## Login.html

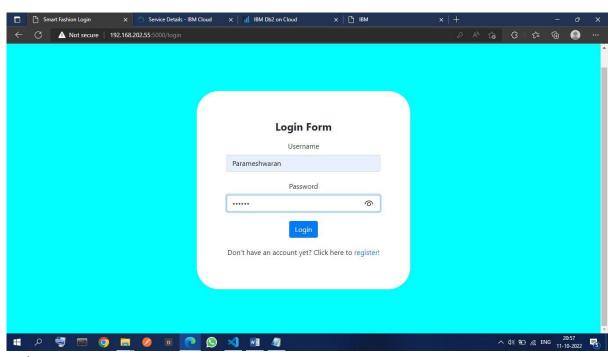
```
rel="stylesheet">
</head>
<body>
<div class="login text-center mt-5">
<form action="/login" method="post">
<h2 class="form-text-h2"> Login Form </h2>
<div class="msg">{{ msg }}</div>
<div class="form-group mb-3">
<label class="label" for="username">Username</label>
<input type="text" class="form-control" 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>
href="/">register! </a> 
</div>
</form>
</div>
</body>
</html>
Style.css
* {
margin: 0;
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: 450px;
border-radius: 50px;
margin: 100px;
gap: 25px;
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;
```

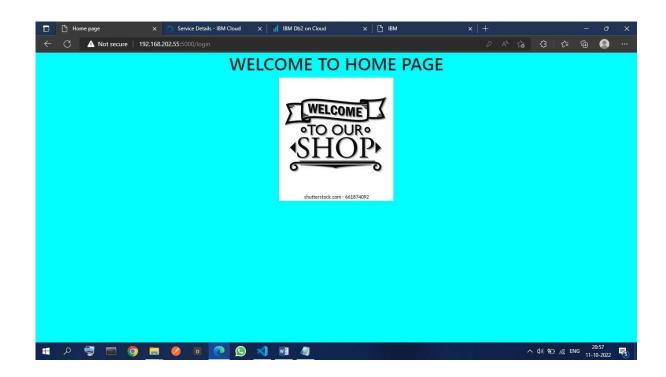
# Output:registration



page:Login Page:-



Welcome Page:-



#### Data Base Table :-

