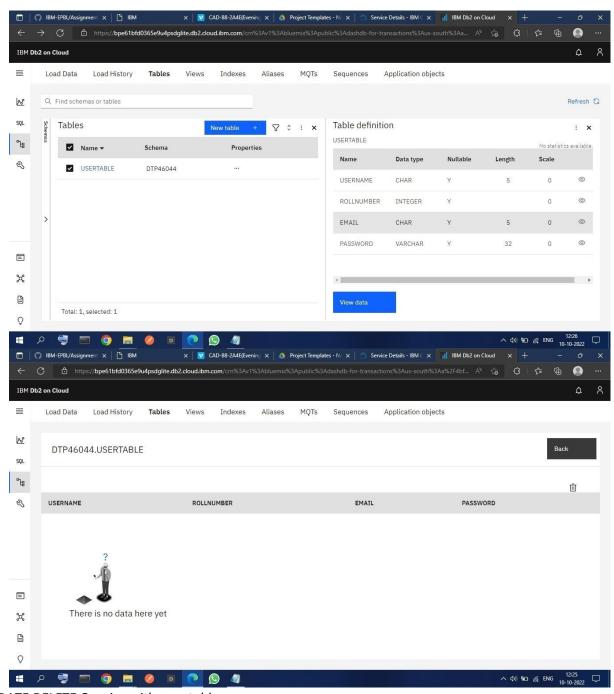
Assignment -2

IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Mohammed Faizal Khan
Student Roll Number	311819205015
Maximum Marks	2 Marks

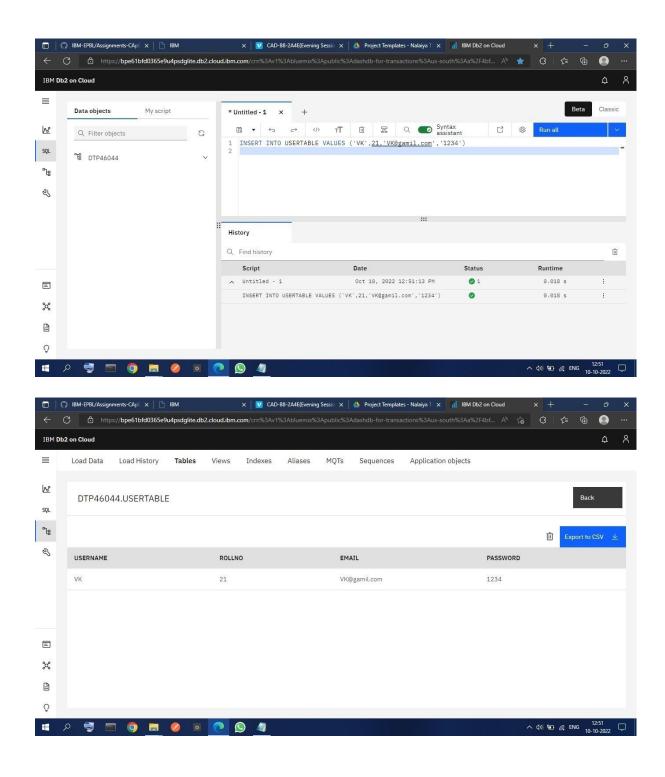
Questions:

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

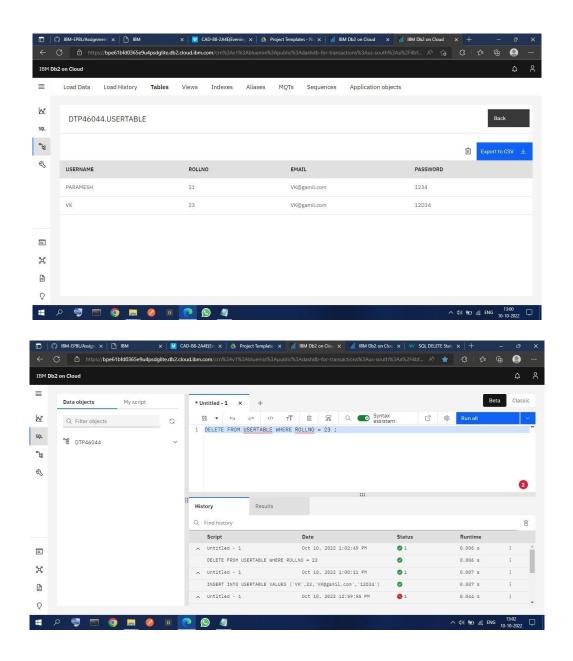


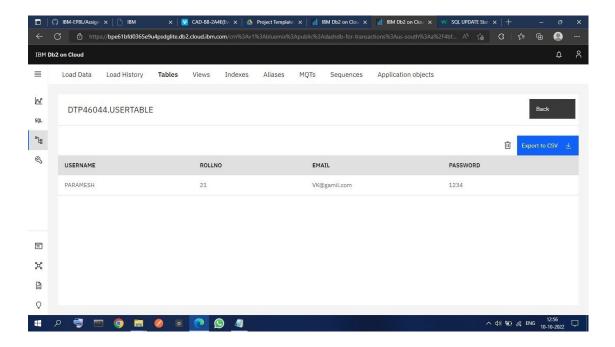
2. Perform UPDATE, DELETE Queries with user table.

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=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 =?"
                                               stmt
= ibm db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
                       account =
ibm db.execute(stmt)
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
              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 <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">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.c
                        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous"> <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fonta wesome.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"</pre>
rel="stylesheet">
                                                                link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
           <!-- bootstrap navbar -->
            <!-- 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"</pre>
class="form-control" name="username" 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"
required>
            <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</p>
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

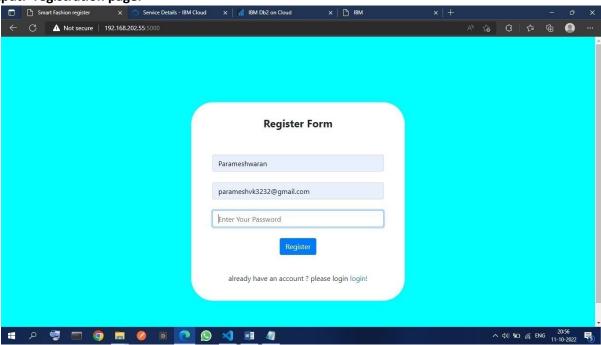
Login.html

```
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous"> <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fontawesome.
css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
                href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
    k
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" placeholder="Password"</pre>
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 href="/">register! </a> 
                                          </div>
        </form>
    </div>
</body>
</html>
```

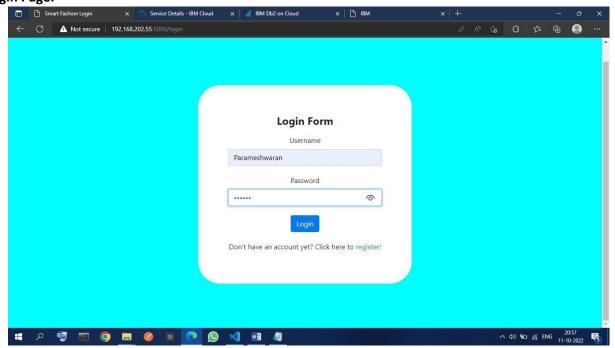
```
margin: 0;
padding: 0;
body { background-color:
aqua !important; display:
flex; flex-direction:
column;
           alignitems: center;
justifycontent: center;
} form {     display:
flex; flex-direction:
column; align-items:
center; justifycontent:
center; backgroundcolor:
        width: 40%;
white;
height: 450px;
                 border-
radius: 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 { fontsize:
small; paddingbottom:
10px;
```

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

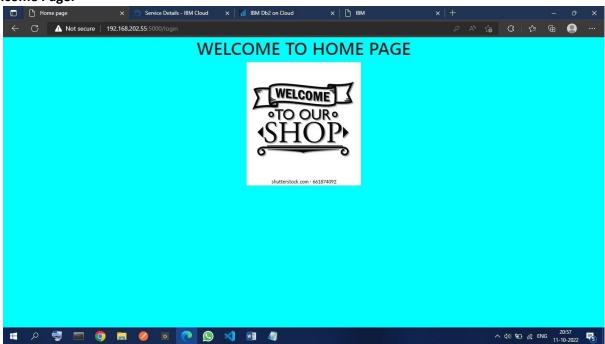
Output:- registration page:-



Login Page:-



Welcome Page:-



Data Base Table :-

