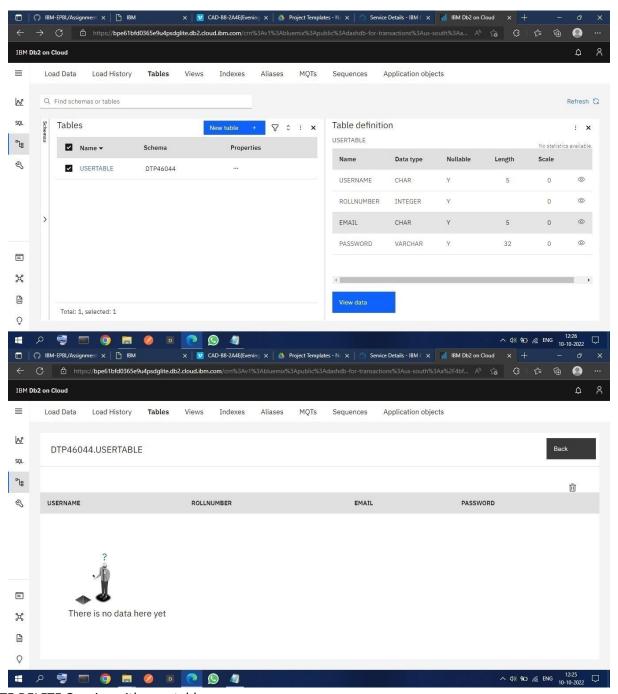
# Assignment -2

IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Murali
Student Roll Number	311819205018
Maximum Marks	2 Marks

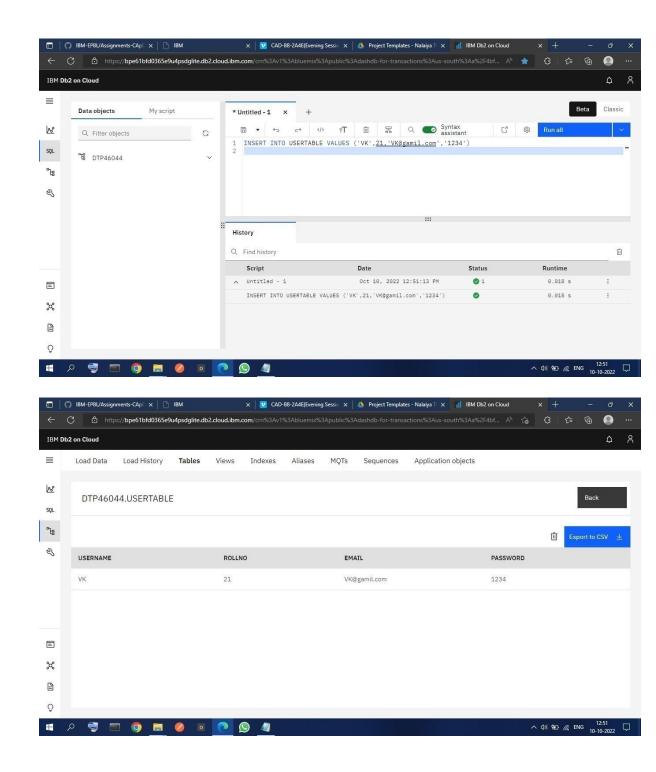
# **Questions:**

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

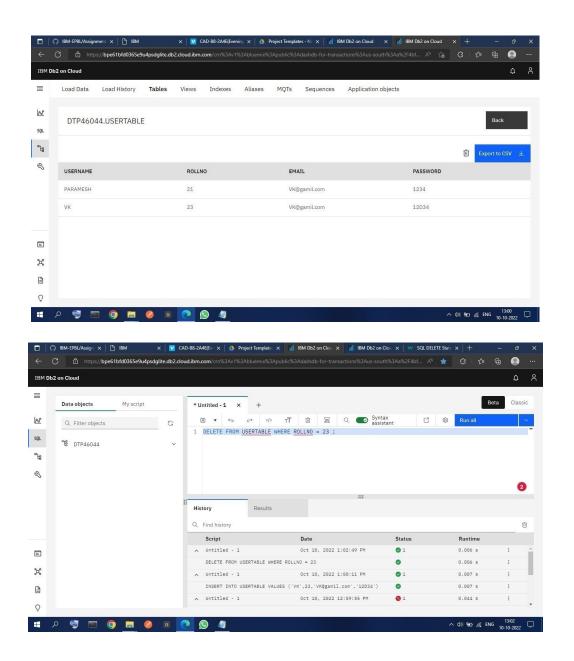


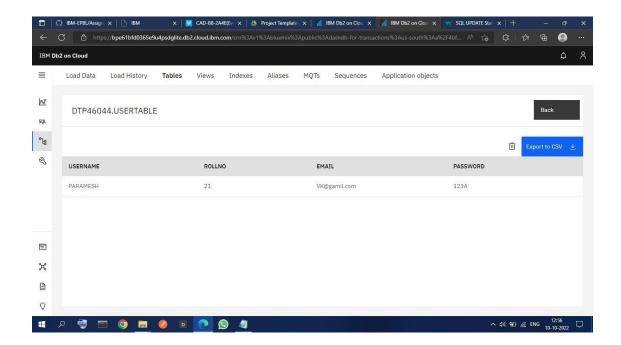
2. Perform UPDATE, DELETE Queries with user table.

**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

```
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-
                             msg = 'name must contain only
z09]+', username):
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 == 'POS
              if request.method == 'POST':
username = request.form['username']
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 =
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"
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>
          <!-- 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>
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" name="email" placeholder="Enter</pre>
Your Email ID" id="email" required>
                                                                                                                         <input type="password" class="form-</pre>
```

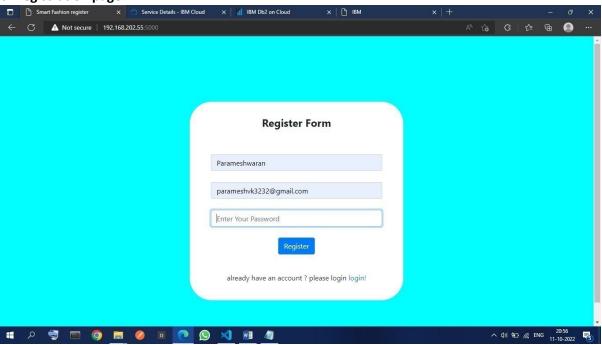
#### Login.html

```
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">
    <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>
    <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>
```

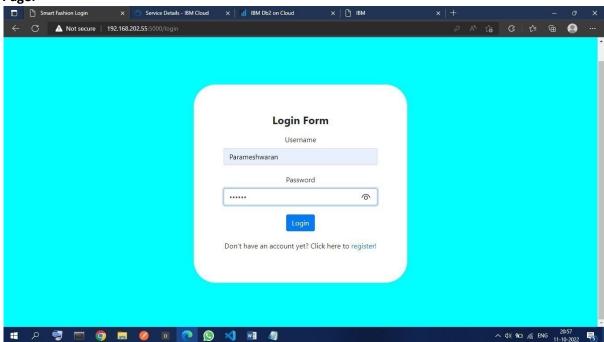
```
margin: 0;
padding: 0;
body { background-color:
aqua !important; display:
flex; flex-direction:
column;
          alignitems: center;
justifycontent: center; }
form {      display: flex;
flex-direction: column;
align-items: center;
justifycontent: center;
backgroundcolor: white;
width: 40%; height:
450px; borderradius:
50px;
       margin:
100px;
        gap:
25px;
} h2 {
large;
         font-size:
        font-weight:
bolder;
} input
{ width: 80% !important; }
div {
         display: flex; align-
items:
           center; justify-
content: center; flexdirection:
column; width: 90%;
.form-text-vk { fontsize:
small;
         paddingbottom:
10px;
```

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

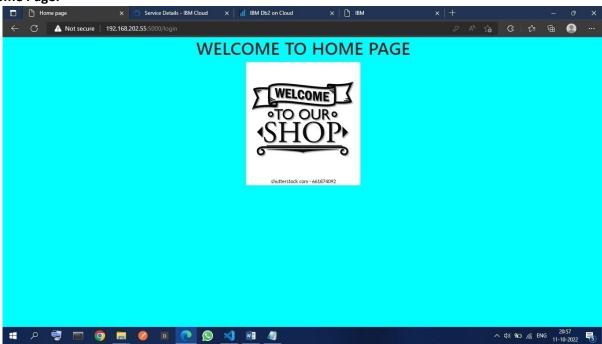
Output:- registration page:-



## Login Page:-



## Welcome Page:-



#### Data Base Table :-

