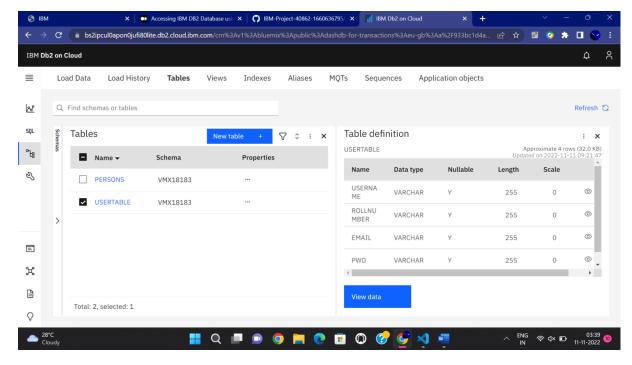
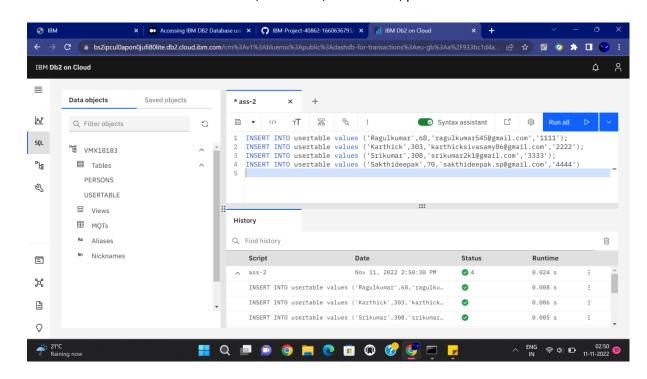
Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Team Member	Srikumar.S
Student Roll Number	721719104308
Maximum Marks	2 Marks

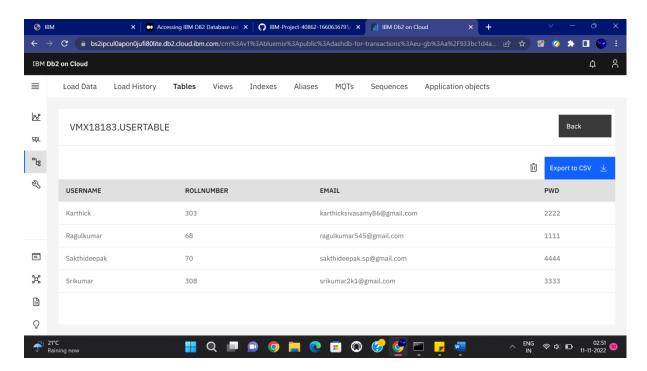
Questions:



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



2. Perform UPDATE, DELETE Queries with user table.



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=DigiC
ertGlobalRootCA.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!'
elifrequest.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)

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

ibm_db.execute(stmt)

```
k
       href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
       rel="stylesheet">
       </head>
       <body>
       <!-- bootstrap navbar -->
       <!-- navbar ends -->
       <!-- 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" placeholder="Enter Your
       Username" id="username"
               required>
       <input type="email" class="form-control" name="email" placeholder="Enter Your Email
       ID" id="email" required>
       <input type="password" class="form-control" name="password" placeholder="Enter Your
       Password" id="password"
               required>
       <button type="submit" id="button" class="btnbtn-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
       <!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 Login</title>
       <!-- favicon -->
       <!-- <li>--> rink rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
```

```
<!-- <li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
<!-- bootstrap csscdn -->
k
                                                                     rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
   integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
k
             rel="stylesheet"
                                     href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!-- css stylesheet -->
k rel="stylesheet" href="/static/css/style2.css">
<!-- font styles cdn -->
k 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" 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" name="password"
required>
</div>
<button type="submit" id="button" class="btnbtn-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>
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;
       }
       h2 {
          font-size: large;
          font-weight: bolder;
       }
       input {
          width: 80% !important;
       }
       div {
          display: flex;
          align-items: center;
          justify-content: center;
          flex-direction: column;
```

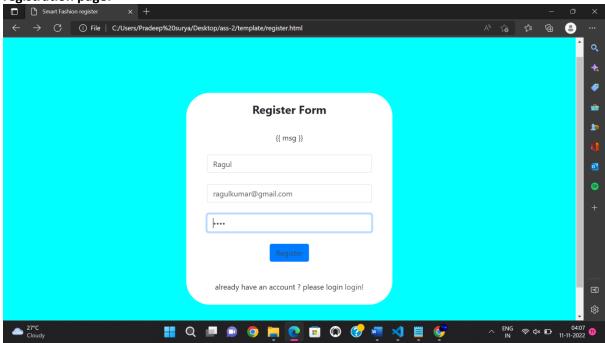
```
width: 90%;
}

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

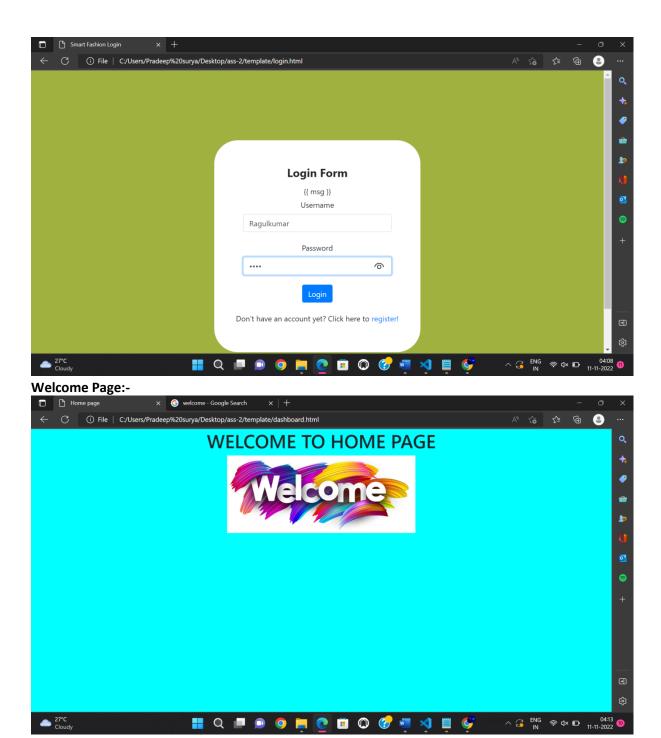
.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

Output:-

registration page:-



Login Page:-



Data Base Table :-

