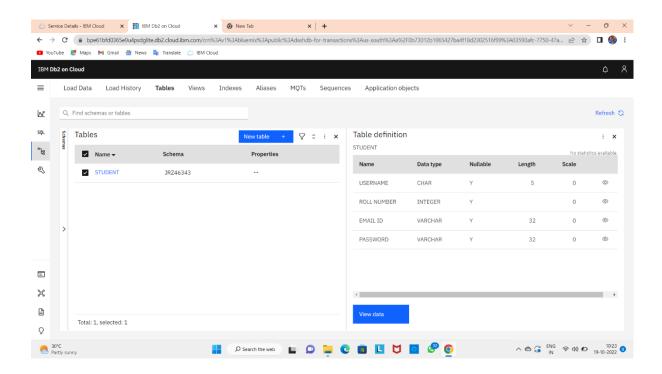
Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	MOHANA SAKTHI G S
Student Roll Number	613019104046
Maximum Marks	2 Marks

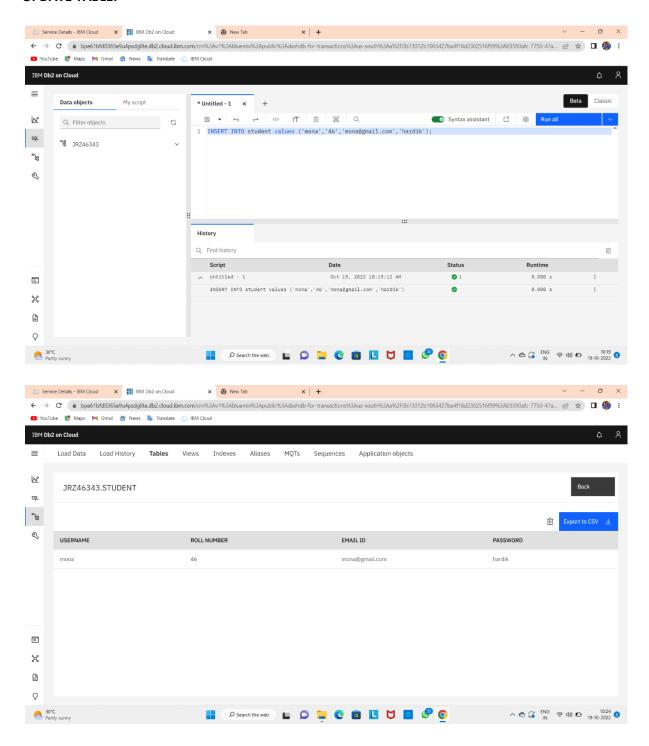
Questions:

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

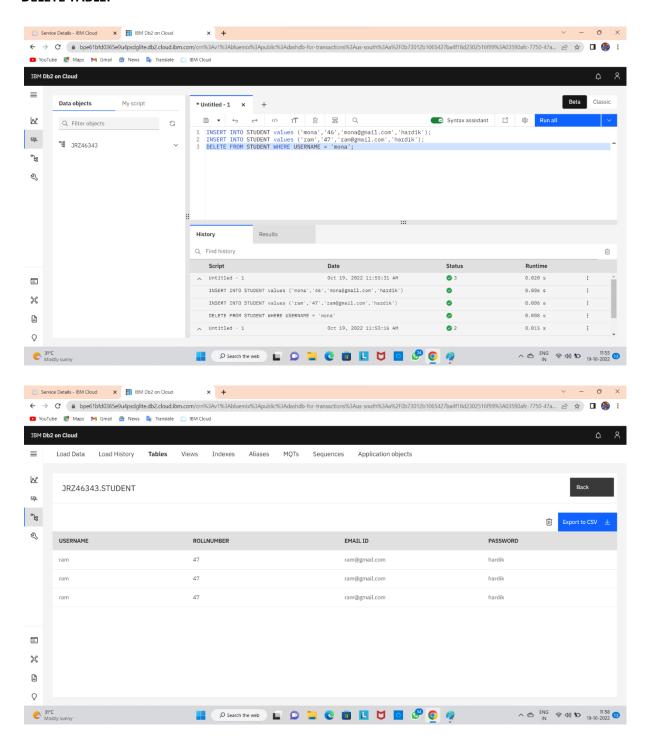


2. Perform UPDATE, DELETE Queries with user table.

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=Db2New;HOSTNAME=19af6446-6171-4641-8aba-
9dcff8e1b6ff.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;USERNAM
E=kgb92696;PASSWORD=3I1WyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")
@app.route("/", methods=['GET',
                          msg = ''
'POST']) def register():
if request.method == 'POST':
        username = request.form['username']
email = request.form['email']
                                      password =
                                 sql = "SELECT *
request.form['password']
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
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 =
                        sql = "SELECT * FROM users WHERE
request.form['password']
ibm_db.bind_param(stmt, 1, username)
                                      ibm db.bind param(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)
```

```
<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>Skill and Job Recommender 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/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/boots
                   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="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">
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" 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"
required>
                           <button type="submit" id="button" class="btn btn-primary">
Register </button>
```

Login.html

```
<!DOCTYPE html>
<html <a href="lang">tang="en"></a>
<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>Skill and Job Recommender Login</title>
           <!-- favicon -->
                                <Link
                                                         rel="shortcut icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
           <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
           k
                                                     rel="icon"
                                                                                                              type="image/png"
                                                                                                                                                                                       sizes="16x16"
href="/assets/img/favicon32x32.png">
           <!-- bootstrap css cdn -->
<link rel="stylesheet"</pre>
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/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/boots
                       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="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
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 href="/">register! </a> 
                                           </div>
        </form>
    </div>
</body>
</html>
```

Style.css

```
* {
    margin: 0;
padding: 0;
```

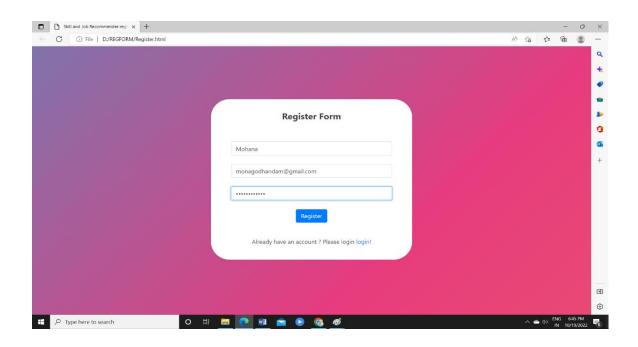
```
align-items: center; justify-content:
           animation: anime 10s ease-in-out
center;
infinite;
@keyframes anime{
            background-position:
  0%{
0 50%;
  } 50%{
                background-
position: 100% 50%; } 100%{
background-position: 0 50%;
  } } form { display:
flex; flex-direction:
           align-items:
column;
center;
          justify-
content: center;
background-color: white;
width: 40%;
             height:
450px; border-radius:
       margin: 100px;
50px;
gap: 25px;
} h2 { font-size:
        font-weight:
large;
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;
```

```
} body
{
    color: #444444; background:linear-gradient(-45deg, #EE7752, #E73C7E,
#23A6D5, #23D5AB); background-size: 400% 400%; position: relative;
display: flex; flex-direction: column;
```

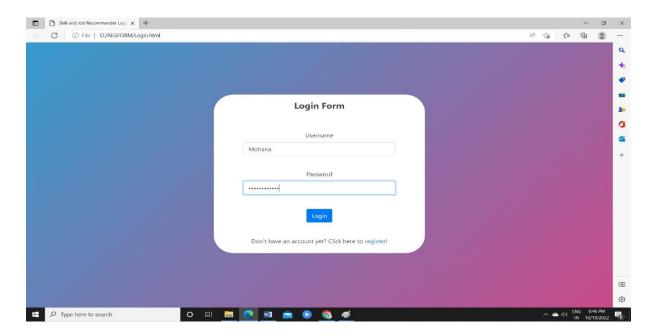
```
padding-bottom: 10px;
}
.form-text-h2 { font-size: x-large; padding-top: 10px;
}
```

OUTPUT:-

REGISTRATION PAGE:-



LOGIN PAGE:-



WELCOME PAGE:-

