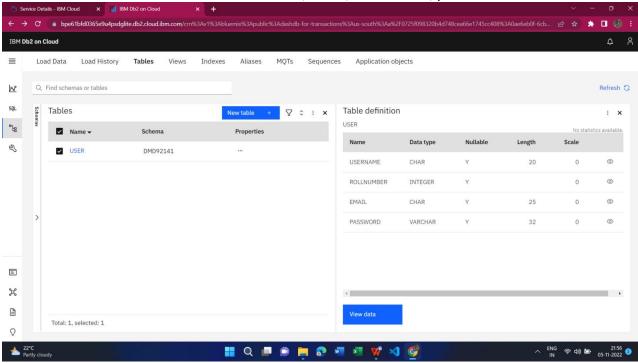
Assignment-2

Assignment Date	29 September 2022
Student Name	Snehalatha P
Student Roll Number	511319205029
Maximum Marks	2 Marks

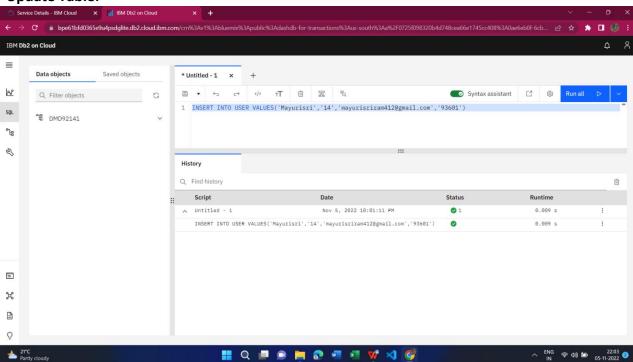
Questions:

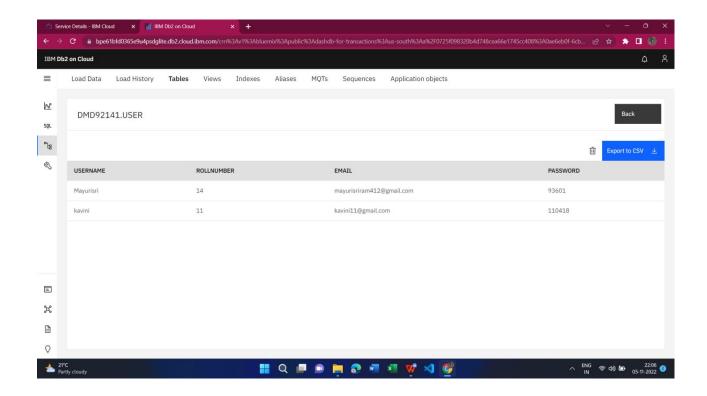
1. Create User table with user with username, email, roll number, password.



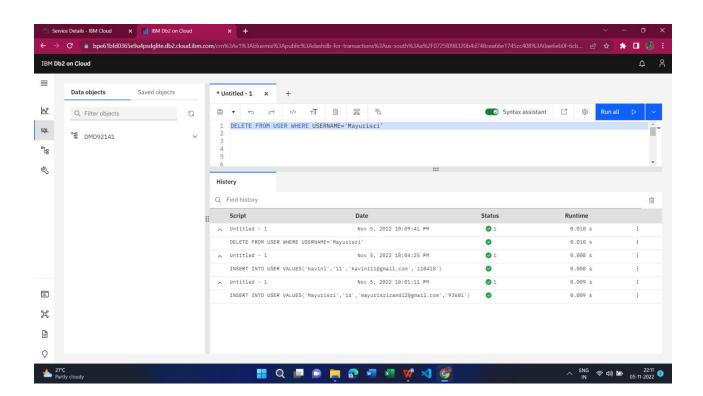
2. Perform Update, Delete Queries with user table.

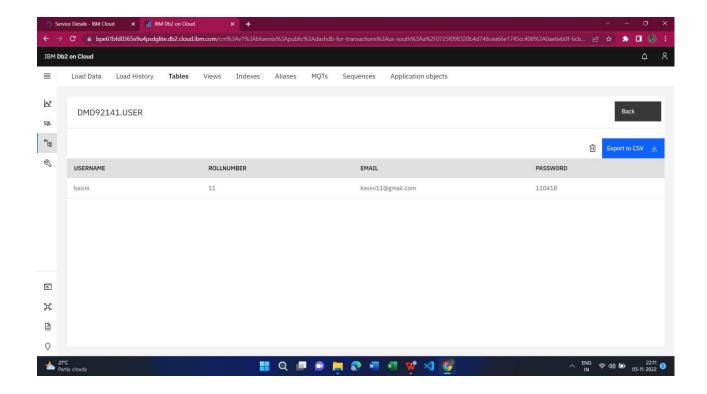
Update Table:





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 loginpage 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

conn = ibm_db.connect(

"DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SE

```
CURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dmd92141;PWD=XFKsMMXiZXQ9dmWb",'','')
```

```
@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 user 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 user 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 user 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)
```

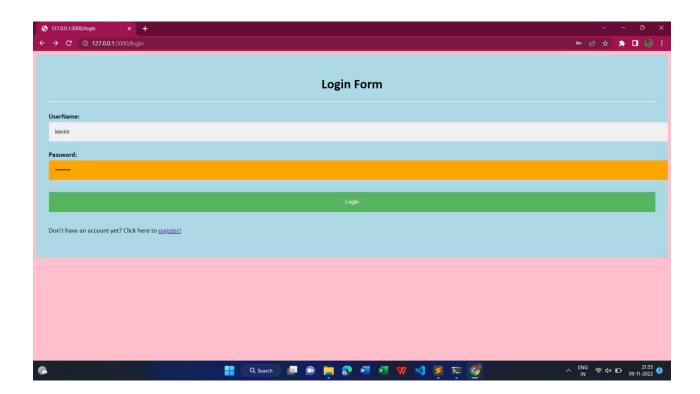
```
else:
       msg = 'Incorrect username / password !'
  return render template('login.html', msg=msg)
if __name__ == '__main__':
  app.run(host='0.0.0.0')
  # app.run(debug=True)
  Register.html:
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="\static\style.css">
</head>
<body>
<form action="/" method="post">
 <div class="container">
 <center> <h1> Registeration Form</h1> </center>
 <hr>
<input type="text" name="username" placeholder= "Enter username" size="15" required />
<input type="text" name="email" placeholder="Enter email" required>
<input type="password" name="password" placeholder="Enter Password" size="10"/ required>
  <button type="submit" class="registerbtn">Register</button>
  <div class="note mt-3 text-center">
        <!--Register form -->
         already have an account ? please login <a href="/login">login! </a> 
</form>
</body>
```

```
</html>
Login.html:
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="\static\style.css">
</head>
<body>
<form method="post" action="login">
 <div class="container">
 <center> <h1> Login Form</h1> </center>
 <hr>
 <label><b>UserName:</b></label>
<input type="text" name="username" placeholder= "Username" size="15"</pre>
required />
<label><b>Password:</b>
</label>
<input type="password" name="password" placeholder="Password" size="10"/
required>
  <button type="submit" class="registerbtn">Login/button>
  <div class="note mt-3 text-center">
        <!--Register form -->
         Don't have an account yet? Click here to <a href="/">register! </a>
```

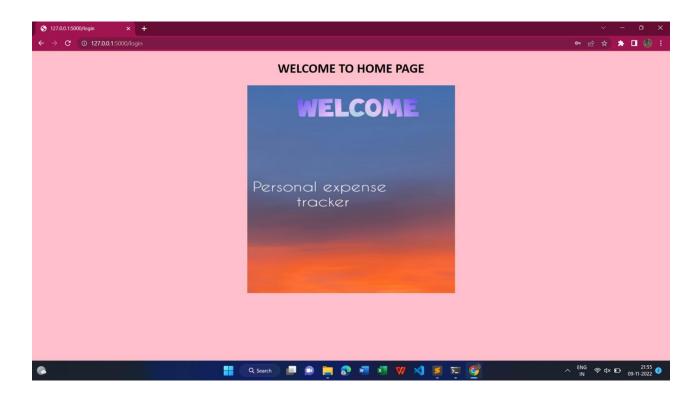
```
</div>
</form>
</body>
</html
style.css:
body{
 font-family: Calibri, Helvetica, sans-serif;
 background-color: pink;
}
.container {
  padding: 30px;
 background-color: lightblue;
input[type=text], input[type=password], textarea {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
input[type=text]:focus, input[type=password]:focus {
 background-color: orange;
 outline: none;
}
div {
      padding: 10px 0;
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
.registerbtn {
 background-color: #4CAF50;
 color: white;
 padding: 16px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
```

```
width: 100%;
opacity: 0.9;
}
.registerbtn:hover {
  opacity: 1;
}
Output:
```

Registration Page:



Welcome Page:



Data Base Table:

