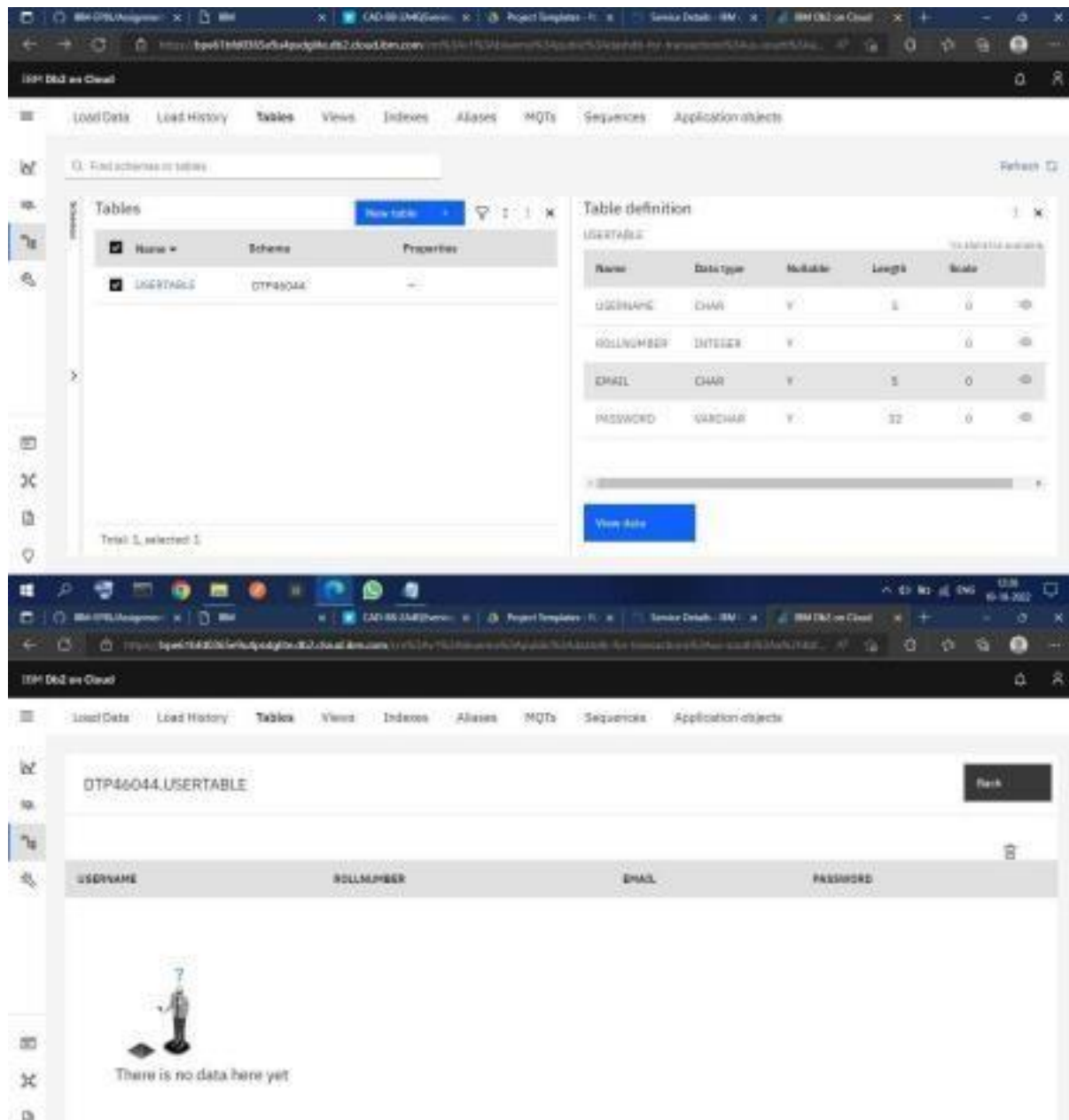


ASSIGNMENT 3

TEAM ID	PNT2022TMID38230
PROJECT NAME	Smart Fashion Recommender Application
NAME	ARULSELVAN A
ROLL NO	412319104001

Questions:

1. Create Usertable with user with email, username, roll number, password.



2. Perform UPDATE,DELETE Queries with user table.

UPDATE TABLE:-

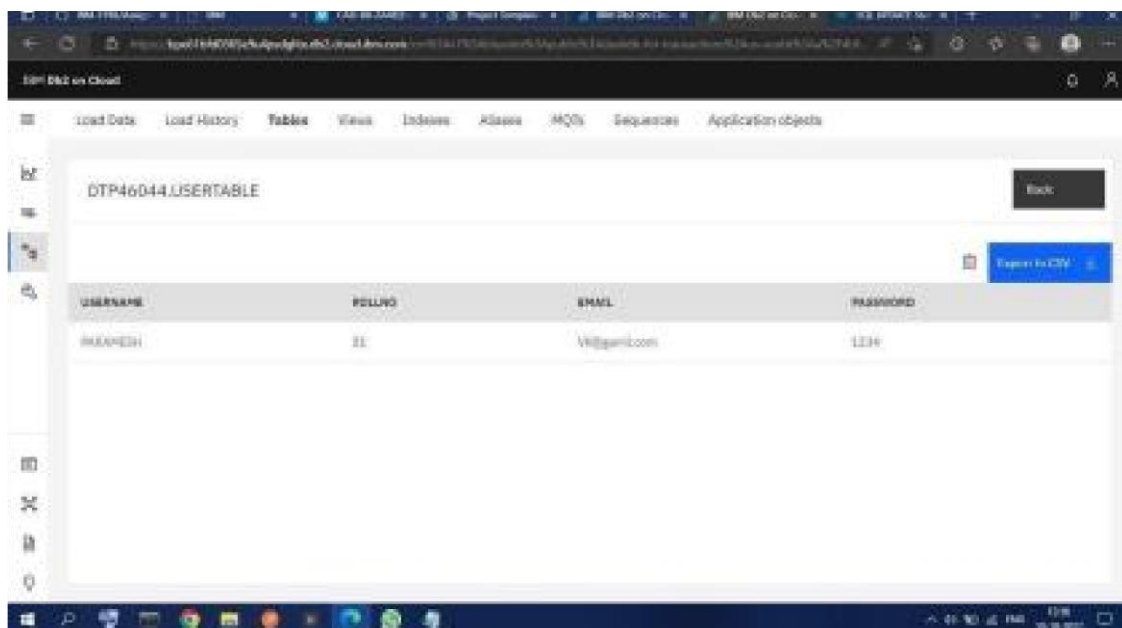
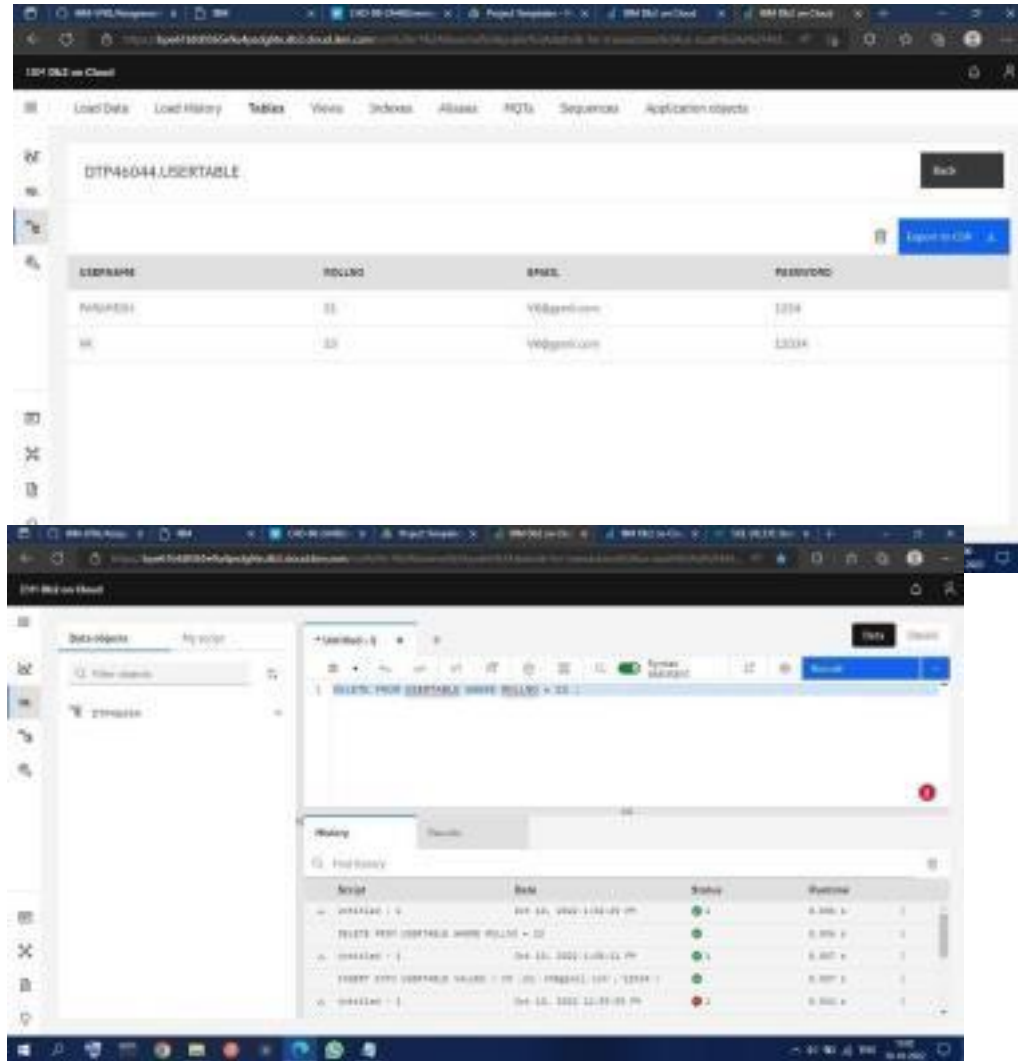
The screenshot displays the IBM DB2 on Cloud web interface. The top section shows a SQL script being executed in a window titled 'Untitled - 1'. The script contains a single SQL statement: `INSERT INTO USERTABLE VALUES ('VK','01','VK@gmail.com','1234')`. Below the script editor, a 'History' table lists the execution details.

Script	Date	Status	Runtime
Untitled - 1	Oct 18, 2022 12:51:13 PM	Success	0.000 s
INSERT INTO USERTABLE VALUES ('VK','01','VK@gmail.com','1234')		Success	0.000 s

The bottom section shows the 'DTP46Q44.USERTABLE' table. The table has four columns: USERNAME, ROLLNO, EMAIL, and PASSWORD. The data row shows the values: VK, 01, VK@gmail.com, and 1234.

USERNAME	ROLLNO	EMAIL	PASSWORD
VK	01	VK@gmail.com	1234

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.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=ntp46044;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)
        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(prepare_stmt, 1, username)
            ibm_db.bind_param(prepare_stmt, 2, email)
            ibm_db.bind_param(prepare_stmt, 3, password)
            ibm_db.execute(prepare_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
    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', port=8080) #
    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"
"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
  <link 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 -->
<link rel="preconnect" href="https://fonts.gstatic.com">
  <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
  <link
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="btn
btn-primary"> Register </button>
<div class="note mt-3 text-center">
        <!-- Register form -->
<p> already have an account ? please login <a
href="/login">login! </a> </p>

</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 -->
    <!-- <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">
-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"

```

```
integrity="sha384-
```

```
JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z
```

```
" crossorigin="anonymous">
```

```
    <link 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/style2.css">
<!-- font styles cdn -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap
" 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" 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"

        </button>

    </div>

    </body>

</html>
class="btn btn-primary"> Login

    <div class="note mt-3 text-center"> <!--
Register form -->
<p> Don't have an account yet? Click here
to <a

```

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:
  18px;
```

```
}
```

Output:- registration page:-

Account

Login SignUp

1git26@kcgcollege.com

.....

.....

SignUp

Login Page:-

Account

Login SignUp

1git26@kcgcollege.com

.....

Reset password?

Login

Don't Have Account? Create A New

Data Base Table :-

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

ZCR94730.USER [Back](#)

[Export to CSV](#)

USERNAME	PASSWORD	MAILID
MARK	1234567	19it28@kcgcollege.com.

10:15 21-10-2022


IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

ZCR94730.USER [Back](#)

[Export to CSV](#)

USERNAME	PASSWORD	MAILID
----------	----------	--------


There is no data here yet

09:54 21-10-2022