

ASSIGNMENT 3

TEAM ID	PNT2022TMID27420
PROJECT NAME	Smart Fashion Recommender Application
NAME	Arivazhagan A
REG NO	311019205007

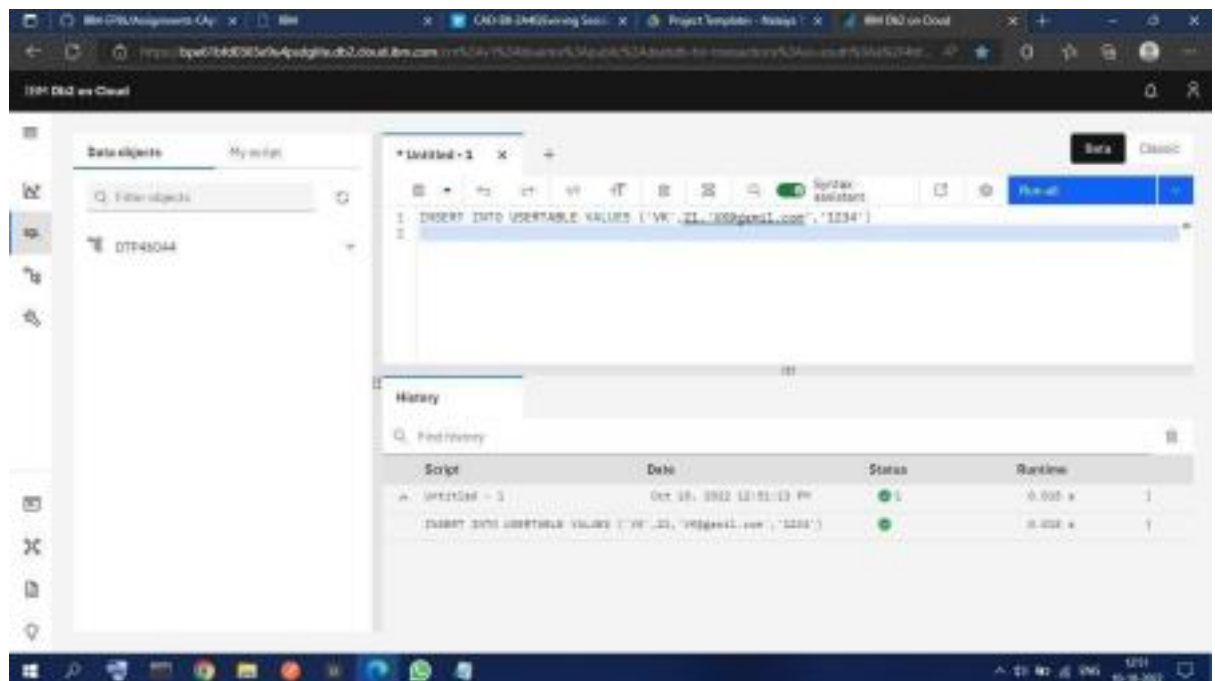
Questions:

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

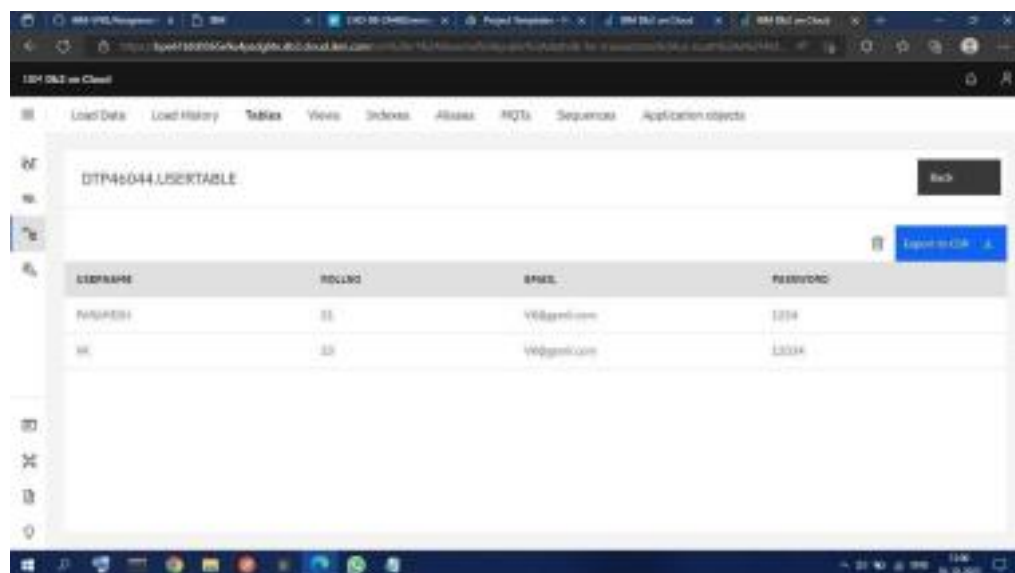
The top screenshot shows the 'Table definition' window for a new table named 'USERTABLE' in the 'DTP46Q44' schema. The table has four columns: USERNAME (CHAR, 50, 0), ROLLNUMBER (INTEGER, 10, 0), EMAIL (CHAR, 50, 0), and PASSWORD (VARCHAR, 32, 0). The bottom screenshot shows the 'Tables' view for the 'DTP46Q44' schema, displaying the 'USERTABLE' table with its columns: USERNAME, ROLLNUMBER, EMAIL, and PASSWORD. The table is currently empty, with a message 'There is no data here yet' at the bottom.

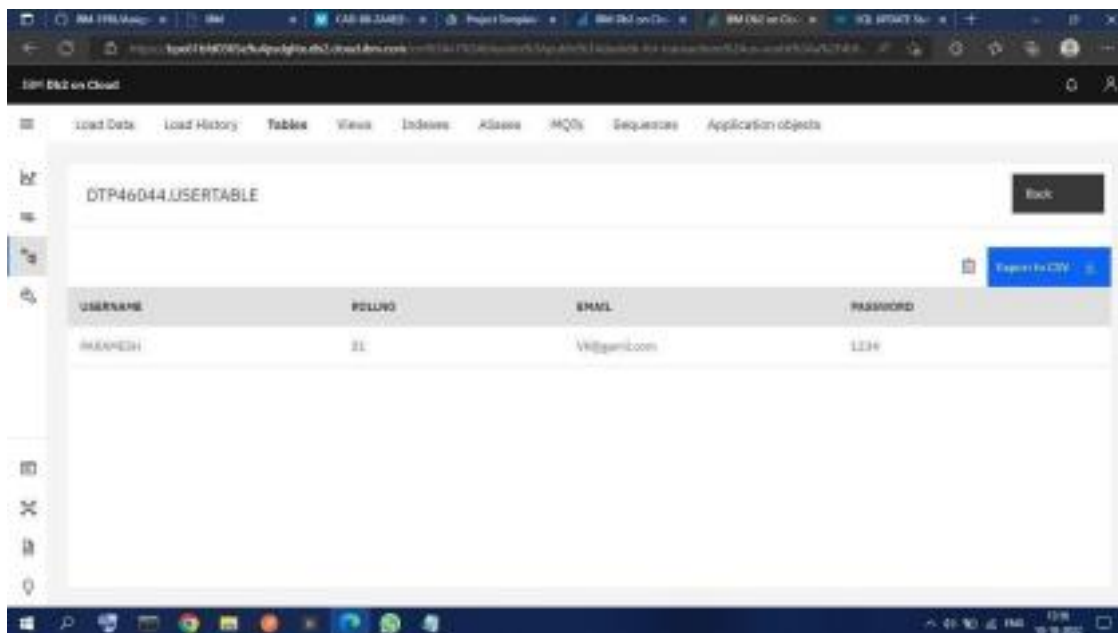
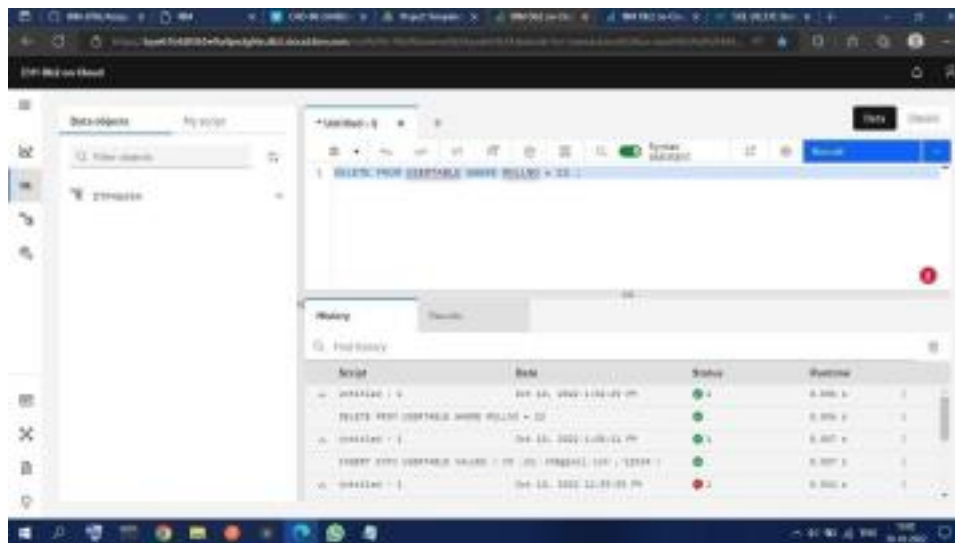
2. Perform UPDATE,DELETE Queries with user table.

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=bludb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtP46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DiglCer
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'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z]+$', email):
            msg = 'Invalid email address !'
        elif not re.match(r'^[A-Za-z0-9]+$', 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>

        </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;
    }

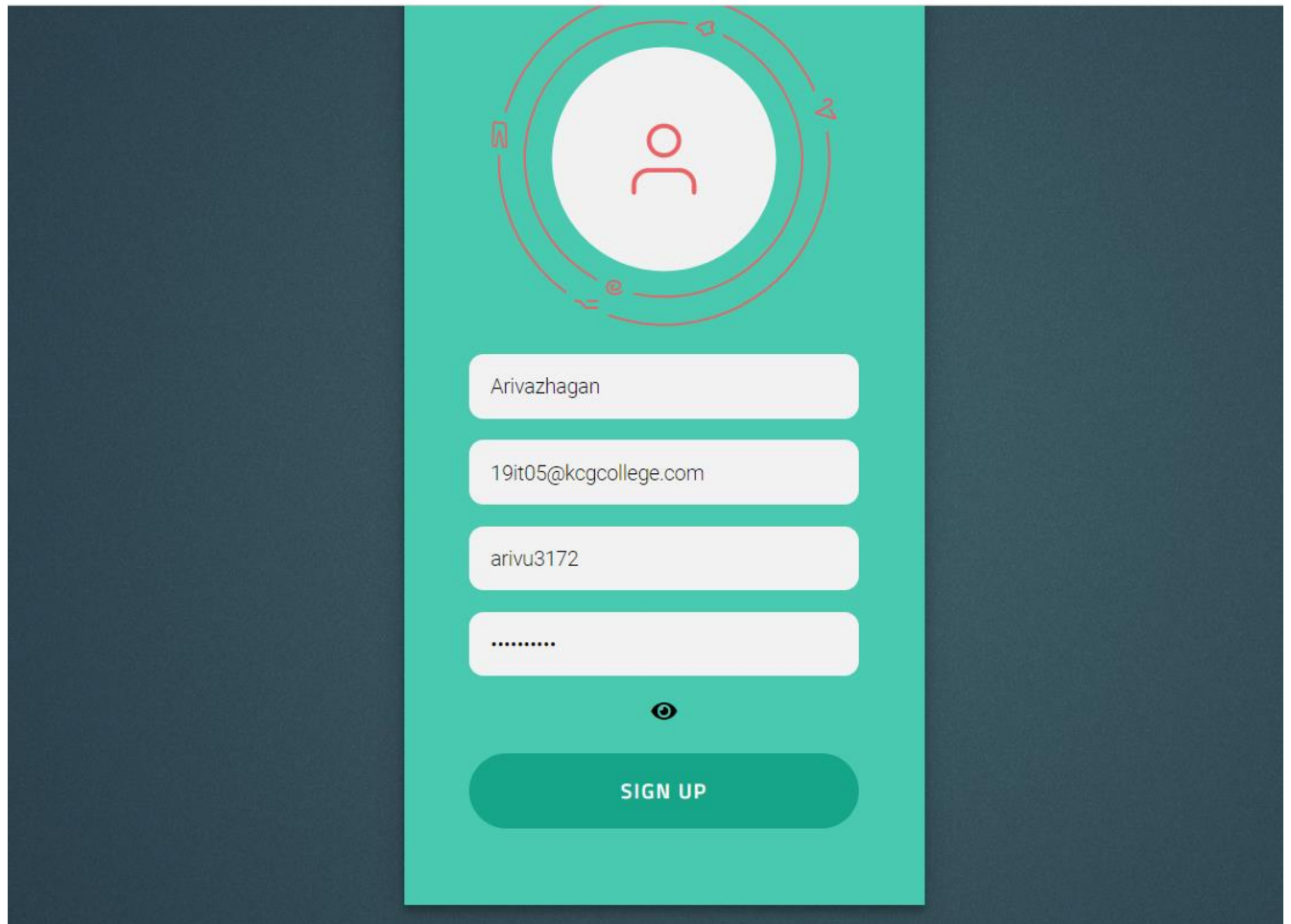
    div {
        display: flex;
        align-items: center;
        justify-content:
            center; flex-direction:
            column; width: 90%;
    }

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

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

```

Output:-
registration page:-

A registration form UI with a teal background and a dark blue sidebar. At the top is a circular profile picture placeholder with a red person icon and a circular arrow. Below it are four input fields: a name field containing 'Arivazhagan', an email field containing '19it05@kcgcollege.com', a phone number field containing 'arivu3172', and a password field with masked characters '.....'. A small eye icon is positioned below the password field. At the bottom is a green 'SIGN UP' button.

Arivazhagan

19it05@kcgcollege.com

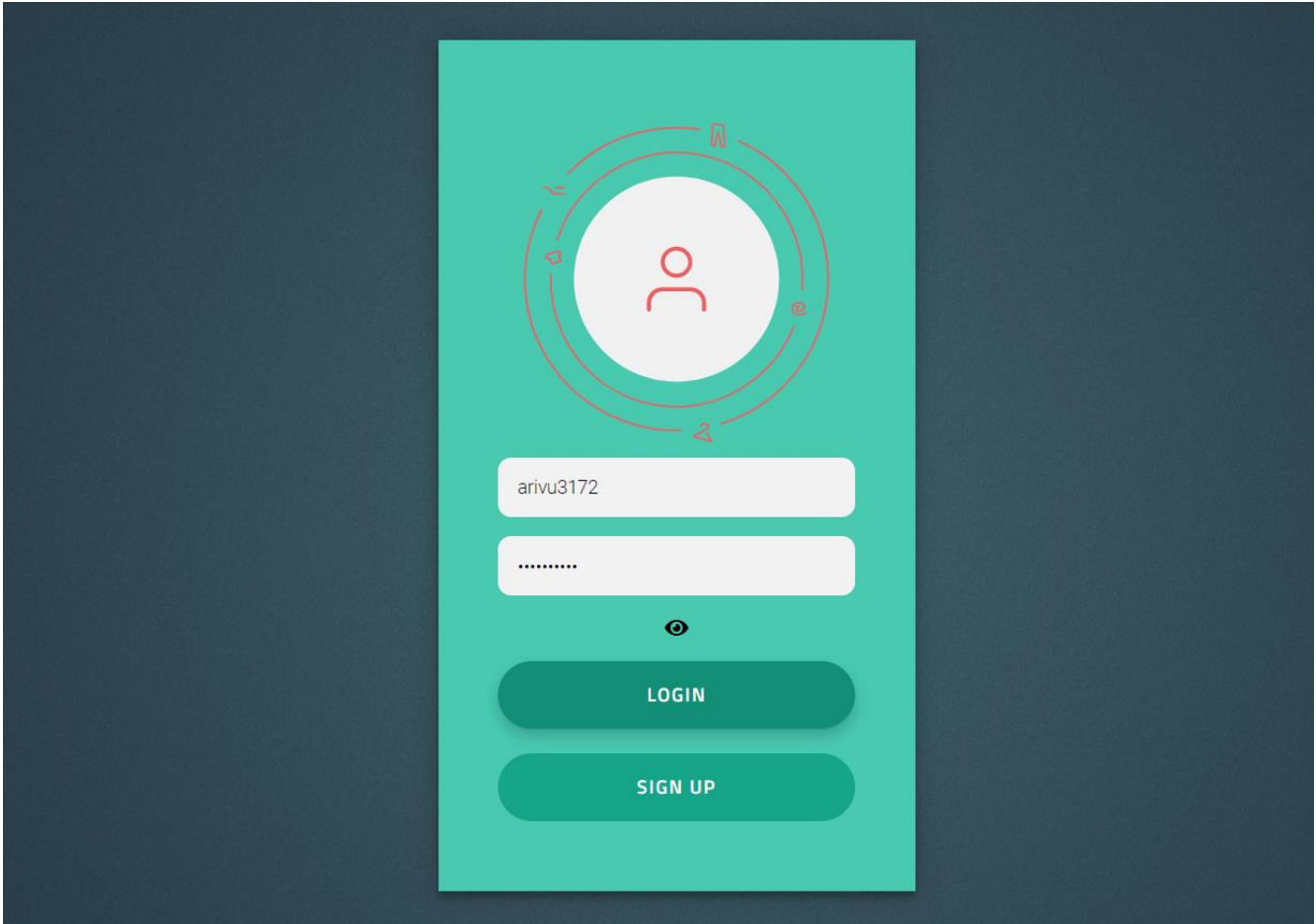
arivu3172

.....

👁

SIGN UP

Login Page:-



Data Base Table :-

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

KFX23168.ONE

Back

Export to CSV

USERNAME	PASSWORD	MAILID
ARIVAZHAGAN	12345678	19IT05@kcgcollege.com

Activate Windows

Go to Settings to activate Windows.

IBM Db2 on Cloud

Navigation tabs: Load Data, Load History, **Tables**, Views, Indexes, Aliases, MQTs, Sequences, Application objects.

Table details for KFX23168.ONE:

COL1	
There is no data here yet	

Buttons: Back, trash icon, settings icon.