

ASSIGNMENT 3

TEAM ID	PNT2022TMID27420
PROJECT NAME	Smart Fashion Recommender Application
NAME	INIYAN K
ROLL NO	311019205018

Questions:

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

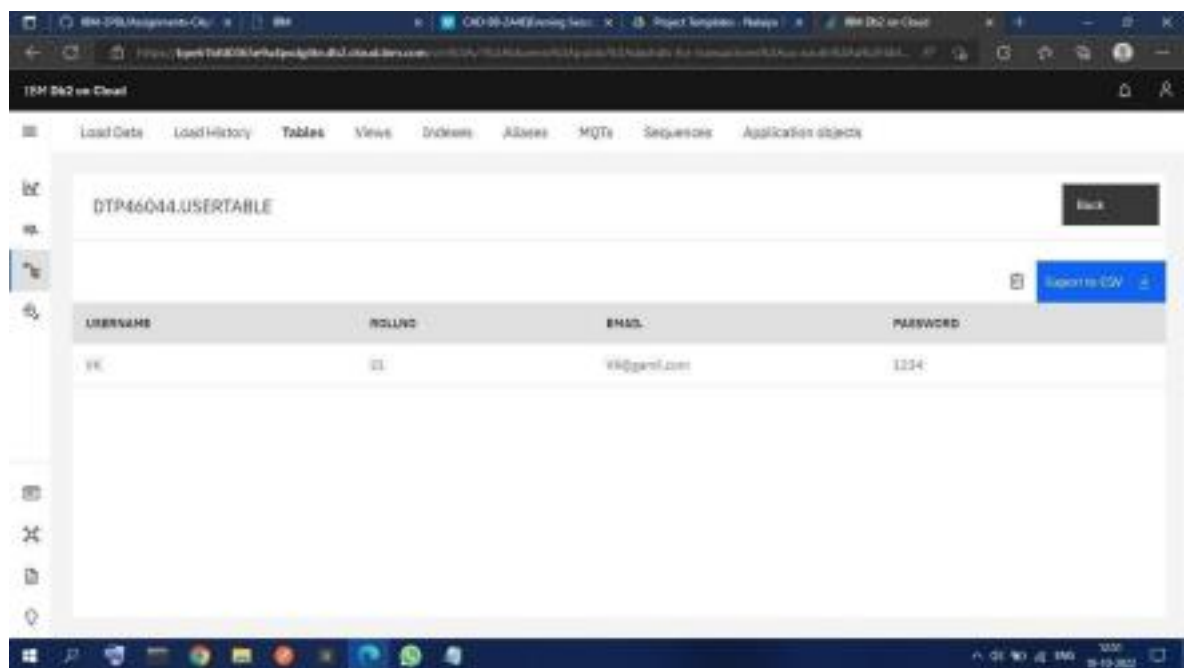
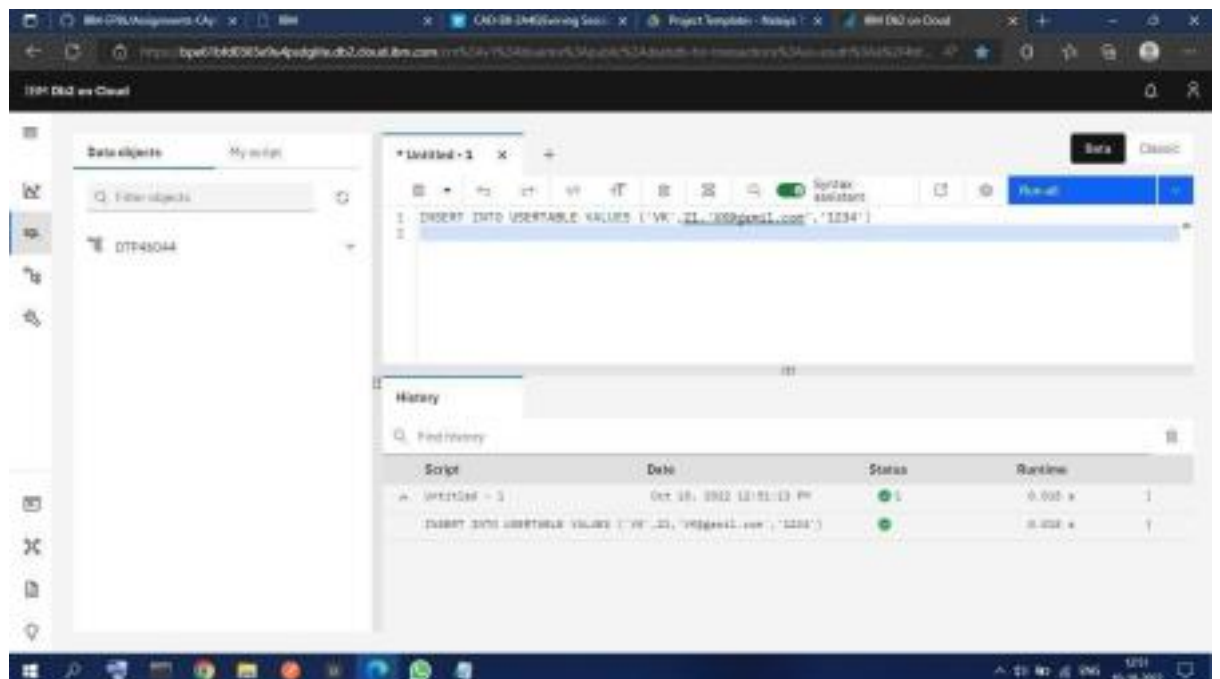
The first screenshot shows the IBM DB2 Cloud interface with the 'Tables' tab selected. A table named 'USERTABLE' is listed under the 'DTP46Q44' schema. The 'Table definition' pane on the right shows the table's structure:

Name	Data Type	Nullable	Length	Scale
USERNAME	CHAR	Y	5	0
ROLLNUMBER	INTEGER	Y		0
EMAIL	CHAR	Y	5	0
PASSWORD	VARCHAR	Y	32	0

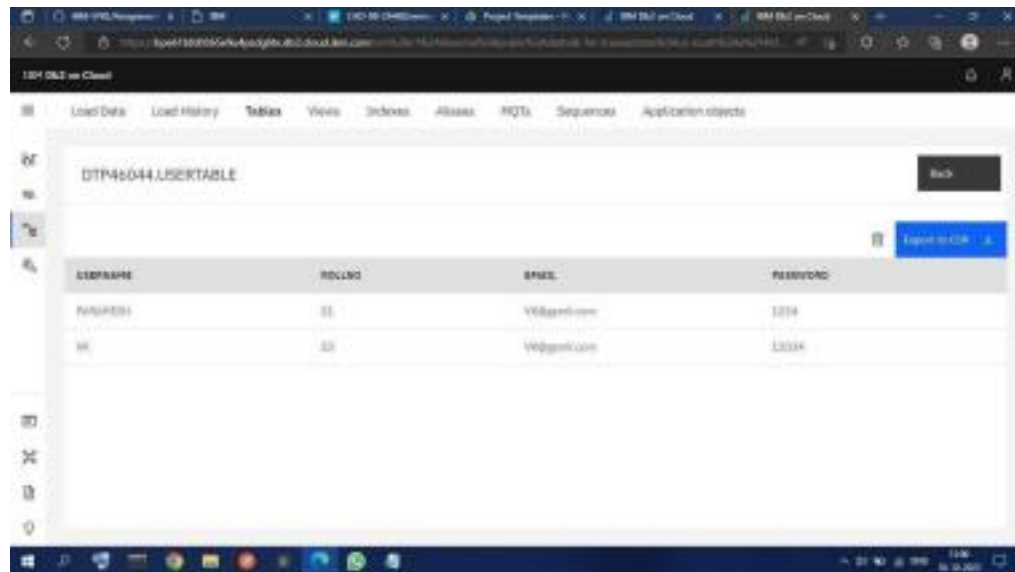
The second screenshot shows the 'USERTABLE' table selected, displaying the column headers: USERNAME, ROLLNUMBER, EMAIL, and PASSWORD. The table is currently empty, with a message stating 'There is no data here yet'.

2. Perform UPDATE,DELETE Queries with user table.

UPDATE TABLE:-



DELETE TABLE:-



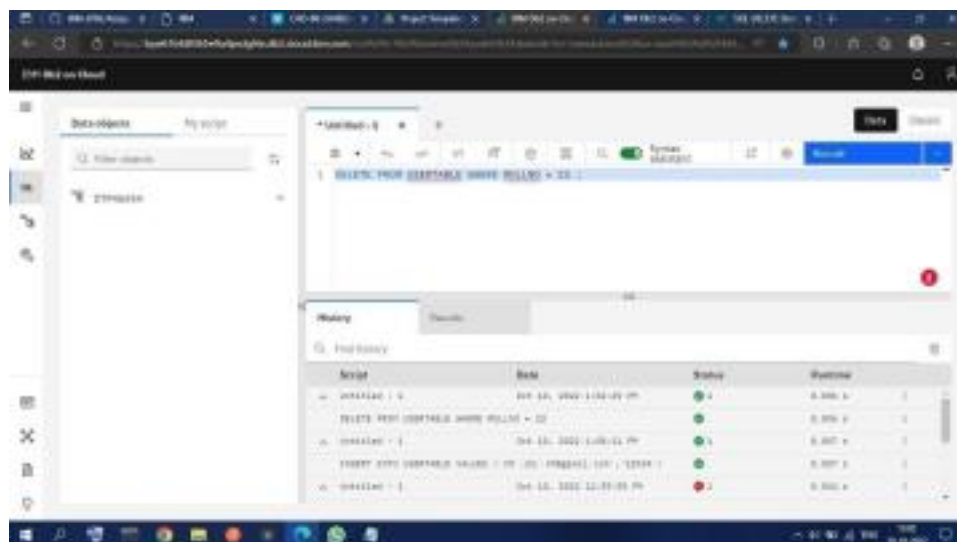
IBM DB2 on Cloud

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

DTP46044.USERTABLE

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
ANANDH	21	Vijay@ibm.com	1234
SR	22	Vijay@ibm.com	1234X



IBM DB2 on Cloud

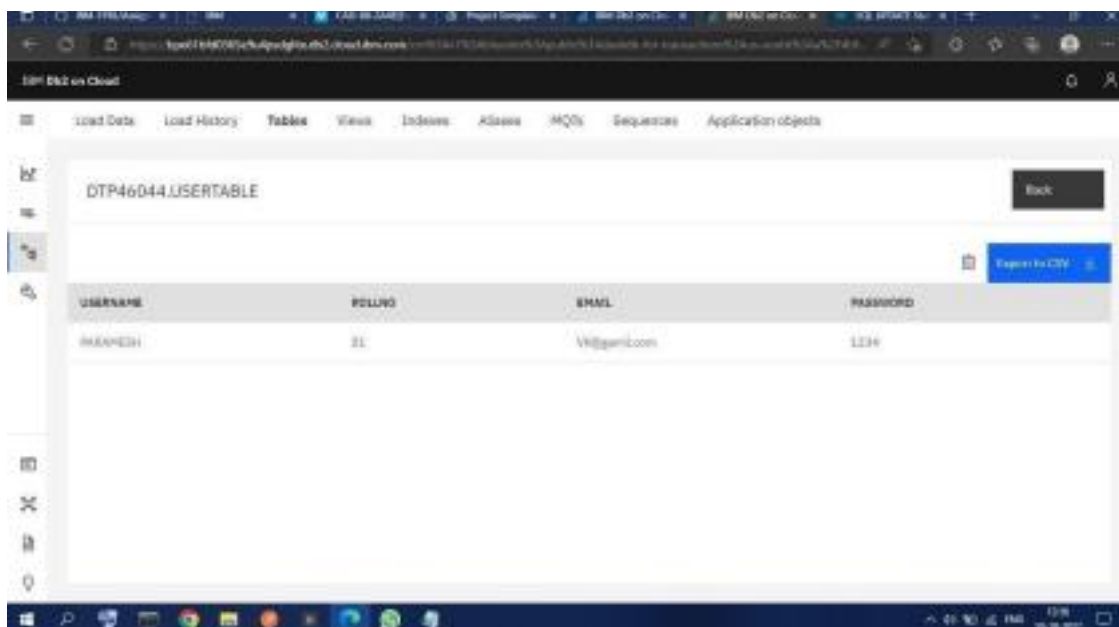
Data objects My script

History

Script

Rollback

Script	Rollback	Status	Execution
CREATE TABLE DTP46044.USERTABLE (USERNAME VARCHAR(50), ROLLNO INT, EMAIL VARCHAR(50), PASSWORD VARCHAR(50))	2024-11-20 10:00:00 AM	Success	0.000 s
DELETE FROM DTP46044.USERTABLE WHERE ROLLNO = 22	2024-11-20 10:00:00 AM	Success	0.000 s
INSERT INTO DTP46044.USERTABLE (USERNAME, ROLLNO, EMAIL, PASSWORD) VALUES ('ANANDH', 21, 'Vijay@ibm.com', '1234')	2024-11-20 10:00:00 AM	Success	0.000 s
INSERT INTO DTP46044.USERTABLE (USERNAME, ROLLNO, EMAIL, PASSWORD) VALUES ('SR', 22, 'Vijay@ibm.com', '1234X')	2024-11-20 10:00:00 AM	Success	0.000 s



IBM DB2 on Cloud

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

DTP46044.USERTABLE

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
ANANDH	21	Vijay@ibm.com	1234

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=fbdb88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dt46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=Dig1Cer
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 !'
        else:
            msg = 'Incorrect username / password !'
        return render_template('login.html', msg=msg)

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080, 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://cdn.jsdelivr.net/npm/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

href="/">register! </a> </p> </div>
</form>
</div>

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;
    }

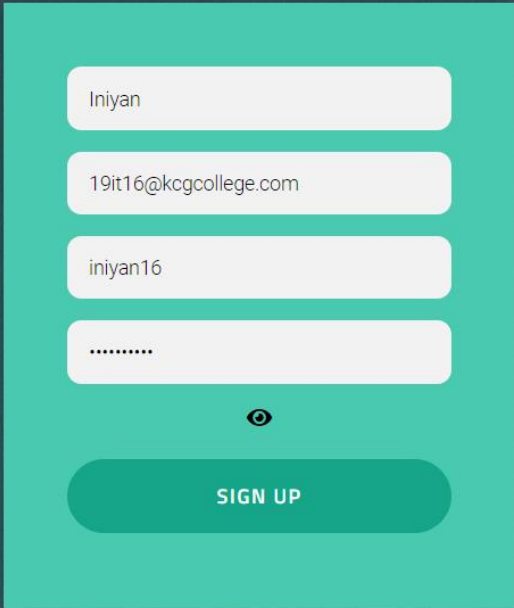
    div {
        display: flex;
        align-items: center;
        justify-content:
            center; flex-direction:
            column; width: 90%;
    }

    .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 mockup centered on a dark teal background. The form is contained within a light teal rounded rectangle. It features four white input fields with rounded corners, each containing placeholder text: 'Iniyan', '19it16@kcgcollege.com', 'iniyan16', and a password field with eight dots. Below the password field is a small eye icon for toggling visibility. At the bottom of the form is a dark teal rounded button with the text 'SIGN UP' in white capital letters.

Iniyan

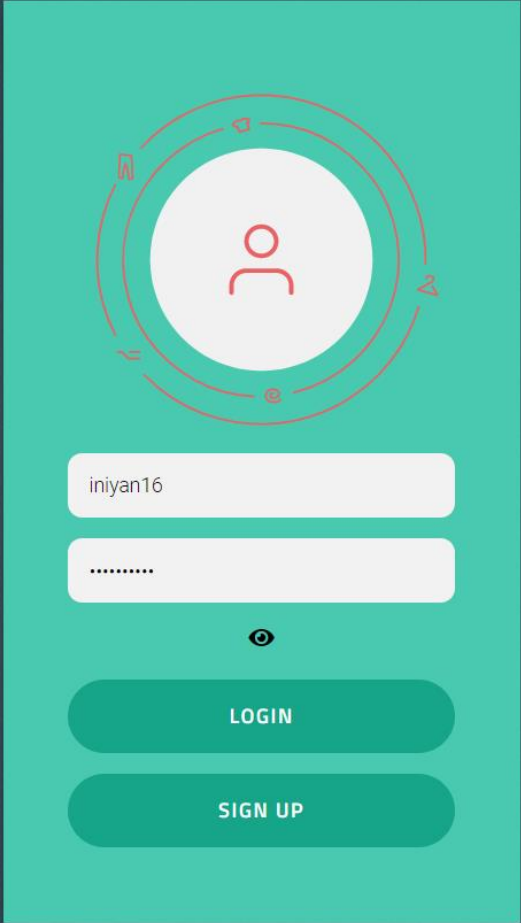
19it16@kcgcollege.com

iniyan16

👁

SIGN UP

Login Page:-



The login page features a dark teal background. In the center is a light teal rectangular card. At the top of the card is a circular profile picture placeholder with a red outline and a red person icon. Below the placeholder are two white input fields. The first field contains the text 'iniyan16'. The second field contains a series of dots, indicating a password. Below the password field is a small eye icon. At the bottom of the card are two rounded rectangular buttons: a teal 'LOGIN' button and a teal 'SIGN UP' button.

iniyan16

.....

👁

LOGIN

SIGN UP

Data Base Table :-

IBM Db2 on Cloud

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

ZCR94730.TABLE Back

Export to CSV

USERNAME	PASSWORD	MAILID
INIYAN	1234	19IT04@kcgcollege.com

Assignment3-Ariv...pdf Assignment3-kart...pdf Assignment3-kar...docx Assignment3-Ari...docx Show all

90°F Cloudy ENG IN 3:24 PM 10/22/2022


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