

Assignment -2

Assignment Date	26 September 2022
Student Name	ARUNAPRAKASH K S
Student Roll Number	711719104012
Maximum Marks	2 Marks

Question-1:

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

The screenshot shows the IBM Db2 on Cloud console. In the 'Tables' section, a new table named 'USER' is being defined in the schema 'WKZ19896'. The 'Table definition' pane on the right lists the following columns:

Name	Data type	Nullable	Length	Scale
E-MAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLL_NO	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

A 'View data' button is located at the bottom right of the table definition pane.

- insert into user values(2,'abc','abc@gmail.com','abc');
- insert into user values(5,'fgh','fgh@gmail.com','fgh');

The screenshot shows the IBM Db2 on Cloud console displaying the data for the 'USER' table in schema 'WKZ19896'. The table has the following columns: ROLL_NO, USERNAME, E-MAIL, and PASSWORD. The data is as follows:

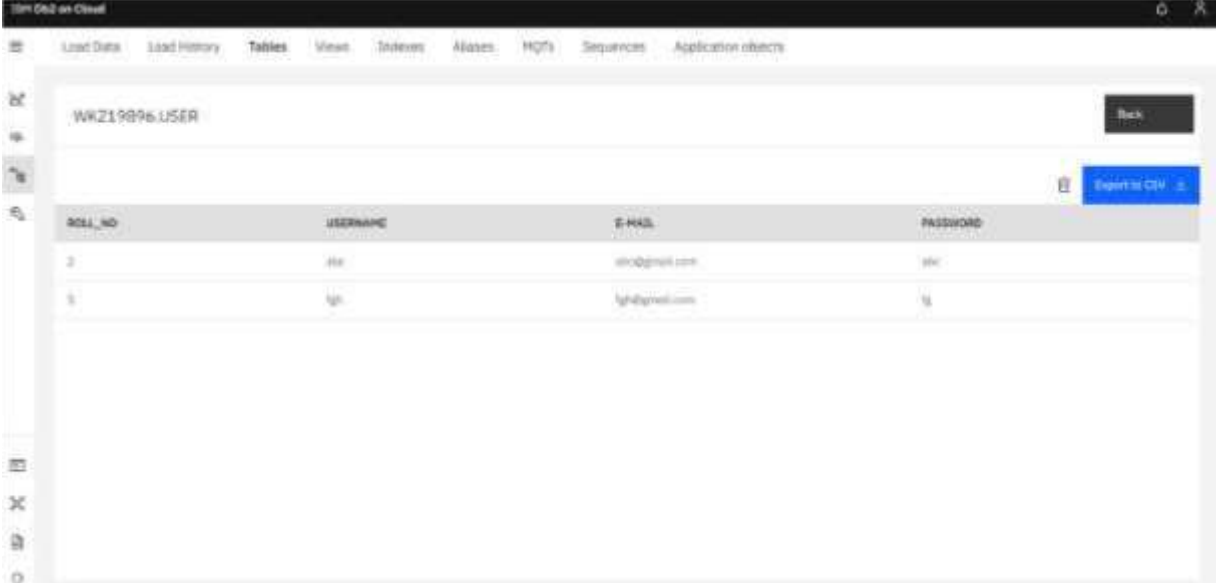
ROLL_NO	USERNAME	E-MAIL	PASSWORD
2	abc	abc@gmail.com	abc
5	fgh	fgh@gmail.com	fgh

An 'Export to CSV' button is visible at the top right of the table view.

Question-2:

Perform UPDATE, DELETE Queries with user table

update user set password='fg' where name='fgh';



The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes links for Load Data, Load History, Tables, Views, Indexes, Aliases, HQTs, Sequences, and Application objects. The main content area displays the 'USER' table with the following data:

ROLL_NO	USERNAME	E-MAIL	PASSWORD
2	fg	fg@gmail.com	fg
3	fgh	fgh@gmail.com	fg

Buttons for 'Back' and 'Export to CSV' are visible in the top right corner of the table view.

Question 3:

Connect python code to db2

Program:

```
from flask import Flask
import ibm_db

app=Flask(__name__)

try:
    conn = ibm_db.connect(DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wkz19896;PWD=ANpZE9kHEdINhNgE,"")
except:
    print(Unable to connect ,ibm_db.conn_error())

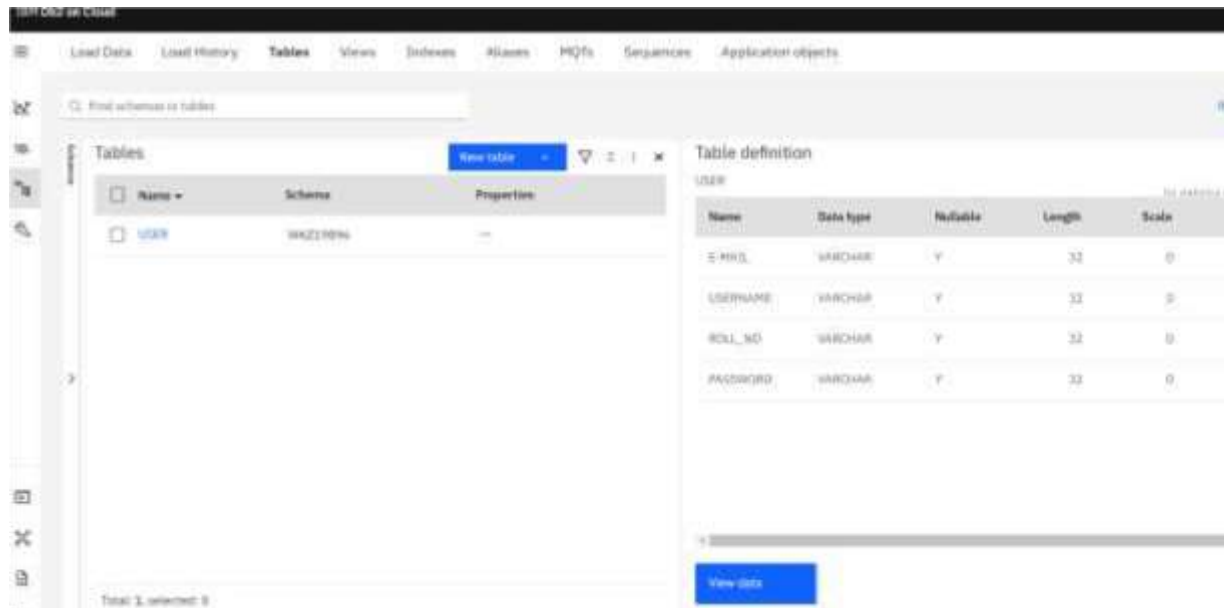
@app.route("/")
def dashboard():
    return "welcome" if
```

```
__name__=='__main__':
app.run(debug=True)
```

Question 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 username and password. If the user is valid show the welcome page.

Database:



Program:

```
User.py from flask import Flask,
render_template,request,redirect,url_for,session,flash import
ibm_db

app=Flask(__name__)
app.secret_key='a' try:
conn = ibm_db.connect(DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-
10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wkz19896;PWD=ANpZE9kHEdINhNgE,"") except:
    print(Unable to connect ,ibm_db.conn_error())

@app.route("/") def dash():
    return render_template('register.html',msg=" ")

@app.route("/register",methods=['GET','POST']) def
register():  error = None  if
request.method=='POST':
    username=request.form['username']
```

```

email=request.form['email']      roll_number=request.form['rollnumber']
password=request.form['password'] sql="SELECT
* FROM user WHERE roll_number=?"   prep_stmt=ibm_db.prepare(conn,sql)
ibm_db.bind_param(prepare_stmt,1,roll_number)
ibm_db.execute(prepare_stmt)
account=ibm_db.fetch_assoc(prepare_stmt)   print(account)
if account:
    error="Account already exists! Log in to continue !"
else:
    insert_sql="INSERT INTO user values(?,?,?,?)"
    prep_stmt=ibm_db.prepare(conn,insert_sql)   ibm_db.bind_param(prepare_stmt,1,email)
    ibm_db.bind_param(prepare_stmt,2,username)
    ibm_db.bind_param(prepare_stmt,3,roll_number)
    ibm_db.bind_param(prepare_stmt,4,password)   ibm_db.execute(prepare_stmt)
    flash(" Registration successfull. Log in to continue !")
else:    pass
    return render_template('login.html',error=error)

```

```

@app.route('/login',methods=['GET','POST']) def
login():  error = None  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']
        session["username"]=account["USERNAME"]   flash("Logged
in successfully!")   return redirect(url_for("welcome_page"))
    else:
        error="Incorrect username / password"
    return render_template('login.html',error=error)

```

```

@app.route('/welcome') def welcome_page():
    return render_template("welcome.html",user=session['id'])

```

```

if __name__=='__main__':
    app.run(debug=True)

```

register.html

<html>

```

<head>
  <title>Registration page</title>
  <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
  <div class="center"> <br /><br />
  <form action="/register" method="POST">
    <h2>Student Registration Portal</h2> <br /><br />
    <p> Enter Email ID:</p>
    <input type="email" name="email"/>
    <p> Enter Username:</p>
    <input type="text" name="username" />
    <p> Enter Password:</p>
    <input type="password" name="password"/>
    <p> Enter Roll number:</p>
    <input type="text" name="rollnumber"/>
    <br><br><br>
    <input type="submit" value="submit" />

  </form>
</div>
</body>
</html>

```

login.html

```

<html>
<head>
  <title>Login page</title>
  <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
{% if error %}
  <p><strong style="color:red">Error</strong>: {{error}}</p>
{% endif %}
{% with messages = get_flashed_messages() %}
  {% if messages %}
    {% for message in messages %}
      <p style="color:green">{{ message }}</p>
    {% endfor %}
  {% endif %}
{% endwith %}
  <div class="center"> <br /><br />
  <form action="/login" method="POST">
    <h1>Login</h1> <br /><br />

```

```

    <p> Enter Username:</p>
    <input type="text" name= "username" />
    <p> Enter Password:</p>
    <input type="password" name="password"/>
    <br><br><br>
    <input type="submit" value="submit" />
  </form>
</div>
</body>
</html>

```

welcome.html

```

<html>
  <head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
  <body>

```

```

    <br /><br />
    <p><i>As long as you keep yourself focused, you will have a mighty mind that can make
everything possible.</i></h3>
    </center><br/>
    <div style="margin:40px">
      <p>Education can open our eyes and expand our minds unlike anything else.
      It allows us to continually reshape how we see the world, leading to an improved and more
wellrounded life.

```

```

      We welcome you with a sense of pride and excitement.Education is a state of mind. It's a way of
thinking. It's an attitude. On an individual level it's in constant flux, always changing.
Education is not, as most falsely believe, a bunch of certificates. Nor is it a set of abbreviations before
or after one's name.</p>

```

```

    <p>Utilize every moment to prepare your mind and body for future endeavors!
Always look for how much progress can be made rather than perfection. Life will be a lot easier.
Do not give up no matter what, always try just one more time, and eventually you will be successful.
Victories teach you to be humble, but mistakes make you more skillful. So just do your best! Your hard
work will never go in vain! Be diligent towards your dreams and you will reach there soon enough!
Nothing can stop you from reaching your goals as long as you work hard. Your goals are simply
dedication and determination away.</p>

```

```

    <p>In today's world everyone wants to be successful but what is a success. The perspective of
success varies from person to person. For the record, the people before us have a different view on
success and the person after us will have a different view on success.
Moreover, people compare different people performance to evaluate their success. But success is not
something that you can copy from others. You have to make your own path to achieving success. In

```

modern-day, people are obsessed with success because of the glamour and lifestyle of successful people.</p>

<h3>What formulates a person successful?</h3>

<p>There are many ways in the world to be successful. But most people think of celebrities, artist, politicians, and businessmen whenever they heard the word success.

Moreover, they think doing what they will make you successful but that not the case. They forget the most basic thing that makes a person successful that is their hard work, dedication, and the desire to achieve their dream. More importantly, they what they like to do not what that others told them to do. Successful people do what they like to do also they do what they feel correct for their business. If you look in the dictionary for the meaning of the word success then you will find that it means the achievement of one's goal or aim. So, basically, anyone can achieve success by simply achieving their aim or goal.</p>

</div>

</body>

</html>

style.css

```
.center{ margin: auto;
width:
15%;
}
h2{ text-align:center;
}
input{ border-radius:5px; padding:7px;
}
```

Output:



Student Registration Portal

Enter Email ID:

Enter Username:

Enter Password:

Enter Roll number:



Login

Enter Username:

Enter Password:



As long as you keep yourself focused, you will have a mighty mind that can make everything possible.

Education can open our eyes and expand our minds unlike anything else. It allows us to constantly reshape how we see the world, leading to an improved and more well-rounded life. We welcome you with a sense of pride and excitement. Education is a state of mind. It's a way of thinking. It's an attitude. On an individual level it's a constant flux, always changing. Education is not, as most falsely believe, a bunch of certificates. Nor is it a set of abbreviations before or after one's name.

Unlike every instant to prepare your mind and body for future unknowns? Always look for how much progress can be made rather than perfection. Life will be a lot easier. Do not give up no matter what, always try just one more time, and eventually you will be successful. Victories teach you to be humble, but mistakes make you more skillful. So just do your best! Your hard work will always go to your credit. Be diligent towards your dreams, and you will reach them soon enough! Nothing can stop you from reaching your goals as long as you work hard. Your goals are simply dedication and determination away.

In today's world everyone wants to be successful but what is a success. The perspective of success varies from person to person. For the record, the people before us have a different view on success and the person after us will have a different view on success. Moreover, people compare different people's performance to evaluate their success. But success is not something that you can copy from others. You have to make your own path to achieving success. In modern-day, people are obsessed with success because of the glamour and lifestyle of successful people.

What formulates a person successful?