

## Assignment -2

Assignment Date	11 NOV 2022
Student Name	MEENALOCNE.S
Student Roll Number	311019104048
Maximum Marks	2 Marks

### Question-1:

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

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is active. A search bar at the top left of the table list says 'Find schemas or tables'. Below the search bar, a table lists the available tables. The table has columns 'Name', 'Schema', and 'Properties'. One table is listed: 'USER' in schema 'PRJ41491'. To the right of the table list, the 'Table definition' panel is open for the 'USER' table. It shows the table structure with columns: 'EMAIL' (VARCHAR, nullable), 'USERNAME' (VARCHAR, nullable), 'ROLL\_NUMBER' (VARCHAR, nullable), and 'PASSWORD' (VARCHAR, nullable). The table has approximately 5 rows (32.0 KB) and was updated on 2022-10-09 09:56:02. A 'View data' button is at the bottom of the definition panel.

Name	Schema	Properties
USER	PRJ41491	...


  

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLL_NUMBER	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

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

 [Load Data](#) [Load History](#) **[Tables](#)** [Views](#) [Indexes](#) [Aliases](#) [MQTs](#) [Sequences](#) [Application objects](#)

MLD08411.USER

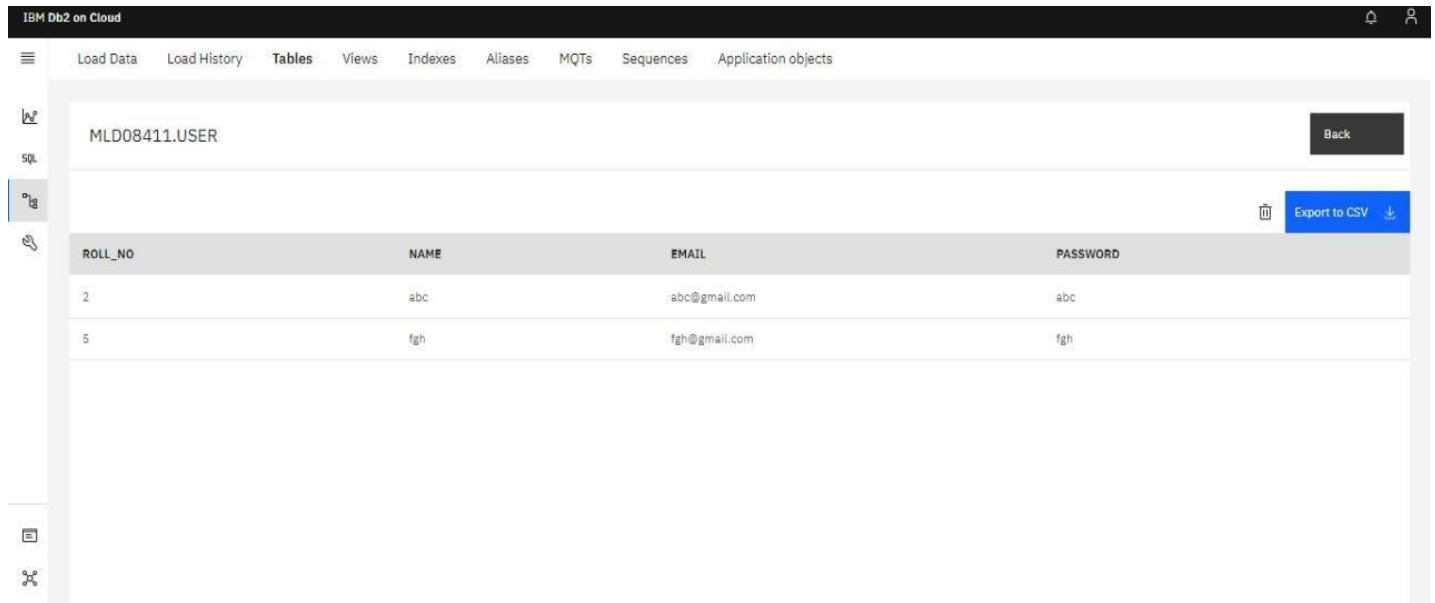
[Back](#)[Export to CSV](#) 

ROLL_NO	NAME	EMAIL	PASSWORD
2	abc	abc@gmail.com	abc
5	fgh	fgh@gmail.com	fgh

## Question-2:

### Perform UPDATE, DELETE Queries with user table

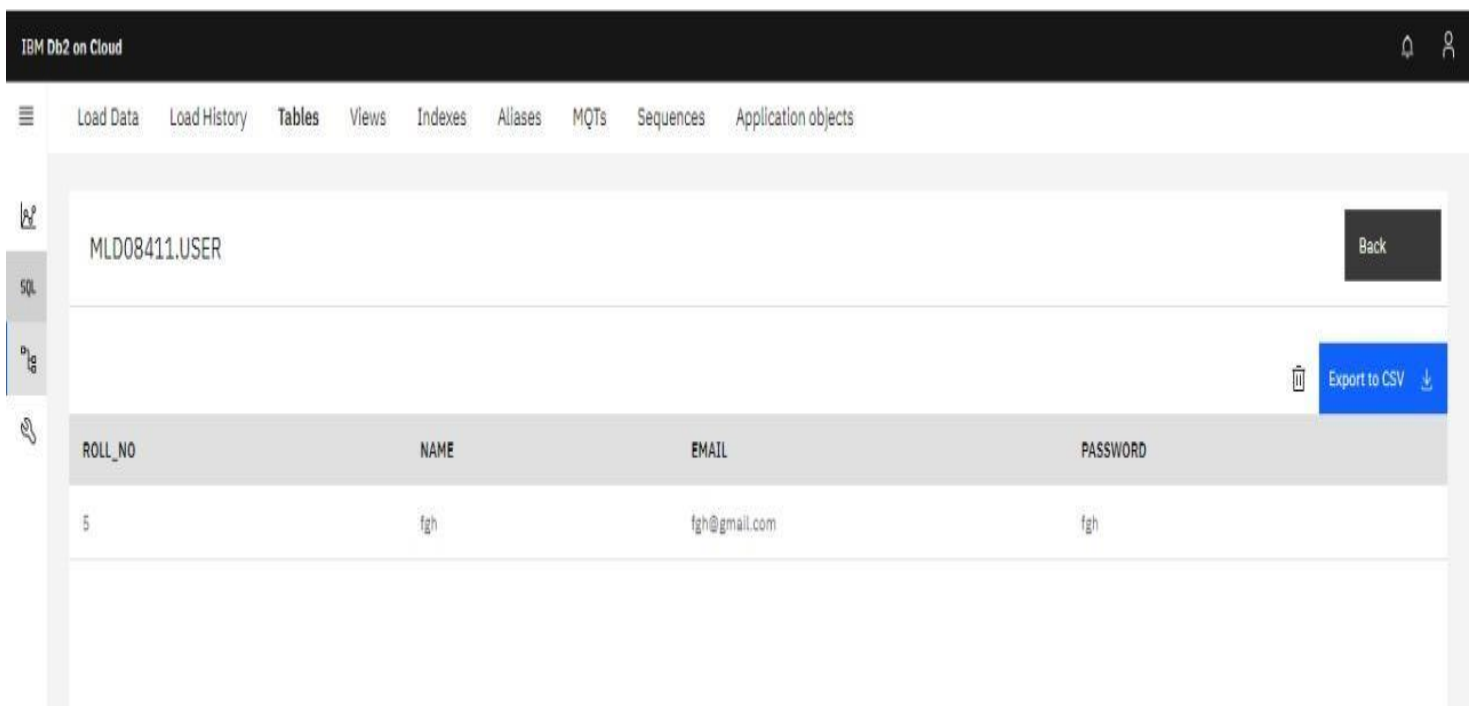
update user set password='fg' where name='fgh';



The screenshot shows the IBM Db2 on Cloud interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, and the table 'MLD08411.USER' is displayed. The table has four columns: 'ROLL\_NO', 'NAME', 'EMAIL', and 'PASSWORD'. There are two rows of data: one with 'ROLL\_NO' 2, 'NAME' 'abc', 'EMAIL' 'abc@gmail.com', and 'PASSWORD' 'abc'; and another with 'ROLL\_NO' 5, 'NAME' 'fgh', 'EMAIL' 'fgh@gmail.com', and 'PASSWORD' 'fgh'. A 'Back' button is in the top right, and an 'Export to CSV' button is in the bottom right.

ROLL_NO	NAME	EMAIL	PASSWORD
2	abc	abc@gmail.com	abc
5	fgh	fgh@gmail.com	fgh

delete from user where roll\_no=2;



The screenshot shows the IBM Db2 on Cloud interface after the deletion query. The table 'MLD08411.USER' now only contains one row of data: 'ROLL\_NO' 5, 'NAME' 'fgh', 'EMAIL' 'fgh@gmail.com', and 'PASSWORD' 'fgh'. The 'Back' button is in the top right, and the 'Export to CSV' button is in the bottom right.

ROLL_NO	NAME	EMAIL	PASSWORD
5	fgh	fgh@gmail.com	fgh

### 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=6667d8e9-9d4d-4ccb-ba32-  
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe  
rverCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg", "", "") 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:

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. A search bar 'Find schemas or tables' is present. The 'Tables' list shows a table named 'USER' in schema 'PRJ41491'. The 'Table definition' panel on the right shows the table structure:

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLL_NUMBER	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

Below the table definition, there is a 'View data' button. The status bar at the bottom indicates 'Total: 1, selected: 0'.

## 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=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg","","") 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)
        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:

sksy@gmail.com

Enter Username:

sksy

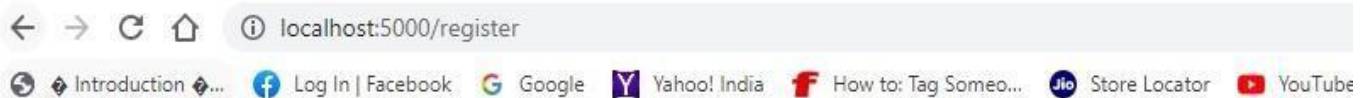
Enter Password:

....

Enter Roll number:

14

submit



Registration successfull. Log in to continue !

### Login

Enter Username:

sksy

Enter Password:

....

submit



*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 continually 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 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.

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.

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.

**What formulates a person successful?**