

## Assignment -2

Assignment Date	3 October 2022
Student Name	JANANI.E
Student Roll Number	311519205027
Maximum Marks	2 Marks

### Question-1:

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

The screenshot shows the IBM Db2 on Cloud console. The 'Tables' tab is selected, and the 'USERS' table is highlighted. The table definition is shown on the right, with columns: EMAIL (VARCHAR, 32, nullable), NAME (VARCHAR, 32, nullable), and PASSWORD (VARCHAR, 32, nullable). The table is located in the VST02824 schema.

- insert into USERS values(roshitha@gmail.com',Roshitha,1000);
- insert into USERS values(kavya@gmail.com','Kavya',1001);
- insert into USERS values(jananie@gmail.com',JananiE,1002);
- insert into USERS values(jananig@gmail.com',JananiG,1003);

The screenshot shows the IBM Db2 on Cloud console displaying the data in the 'USERS' table. The table has three columns: EMAIL, USERNAME, and PASSWORD. The data is as follows:

EMAIL	USERNAME	PASSWORD
jananie@gmail.com	JananiE	1002
jananig@gmail.com	JananiG	1003
kavya@gmail.com	Kavya	1001
roshitha@gmail.com	Roshitha	1000

## Question-2:

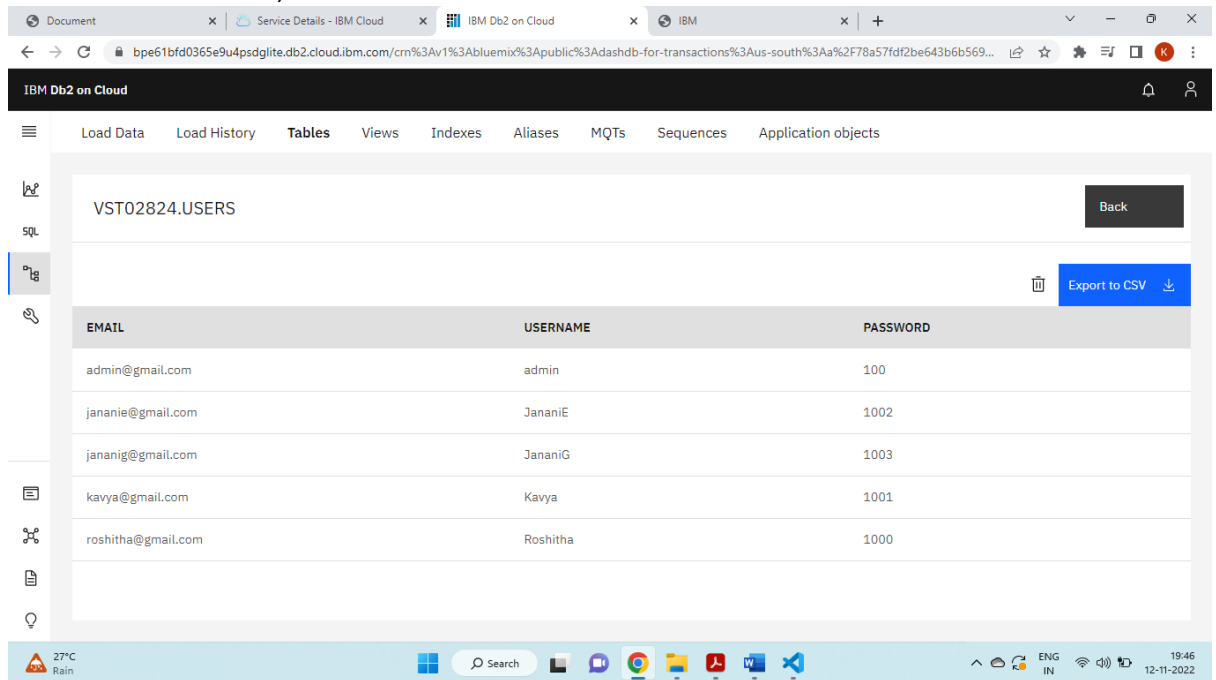
Perform UPDATE, DELETE Queries with user table

1.

UPDATE USERS

SET EMAIL = 'admin@gmail.com'

WHERE NAME = 'abcd';



The screenshot displays the IBM Db2 on Cloud web interface. The top navigation bar includes tabs for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, showing a list of tables. The table 'VST02824.USERS' is highlighted. Below the table name, there is a 'Back' button and an 'Export to CSV' button. The table structure is shown with three columns: 'EMAIL', 'USERNAME', and 'PASSWORD'. The data rows are as follows:

EMAIL	USERNAME	PASSWORD
admin@gmail.com	admin	100
jananie@gmail.com	JananiE	1002
jananig@gmail.com	JananiG	1003
kavya@gmail.com	Kavya	1001
roshitha@gmail.com	Roshitha	1000

The bottom of the screenshot shows the Windows taskbar with the date and time '12-11-2022 19:46'.

2. delete from USERS where NAME='abcd';

The screenshot displays the IBM Db2 on Cloud web interface. The top section shows a SQL editor with the query `delete from USERS where NAME='abcd';` entered. Below the editor is a history table showing the execution of several scripts. The bottom section shows the 'VST02824.USERS' table with four rows of data.

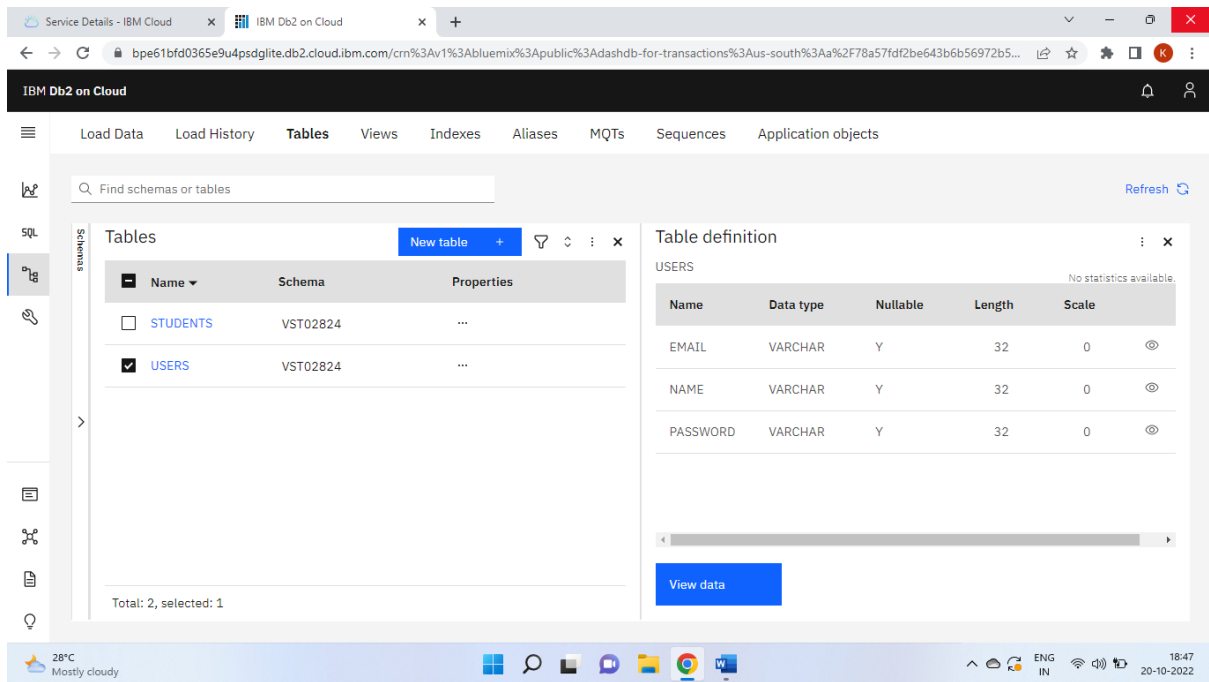
**History Table:**

Script	Date	Status	Runtime
Untitled - 1	Oct 20, 2022 6:51:29 PM	✓ 1	0.009 s
delete from USERS where NAME='abcd'		✓	0.009 s
Untitled - 1	Oct 20, 2022 6:50:28 PM	✓ 1	0.010 s
UPDATE USERS SET EMAIL = 'admin@gmail.com' WHERE NAME = 'abcd'		✓	0.010 s
Untitled - 1	Oct 20, 2022 6:49:35 PM	✓ 1	0.017 s

**VST02824.USERS Table:**

EMAIL	USERNAME	PASSWORD
jananie@gmail.com	JananiE	1002
jananig@gmail.com	JananiG	1003
kavya@gmail.com	Kavya	1001
roshitha@gmail.com	Roshitha	1000

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.

**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;SSLSe
rverCertificate=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)
        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>
{% with messages = get_flashed_messages() %}
  {% if messages %}
    {% for message in messages %}
      <p style="color:green">{{ message }}</p>
    {% endfor %}
  {% endif %}
{% endwith %}

  <br /><br />
  <center>
    <h2 > User {{user}}</h2> <br />
    <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 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.</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:

Service Details - IBM Cloud x IBM Db2 on Cloud x +

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F78a57fd2be643b6b56972b5...

IBM Db2 on Cloud Customize and control Google Chrome

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

VST02824.USERS Back

Export to CSV

EMAIL	NAME	PASSWORD
abcd@gmail.com	abcd	1005
avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadharshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

28°C Mostly cloudy 18:53 20-10-2022

## Login

Enter Username:

Enter Password:

Logged in successfully!

### User abcd



*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?**