

Assignment -2

Assignment Date	3 October 2022
Student Name	P. Hannah Princy
Student Roll Number	311519205022
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 'Tables' tab is selected, and the 'STUDENTS' table is highlighted. 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
PASSWORD	VARCHAR	Y	32	0

The left panel shows the 'Tables' list with 'STUDENTS' selected under schema 'VST02824'. A 'New table' button is visible at the top of the list.

- insert into STUDENTS values('anees@gmail.com','Anees',1409);
- insert into STUDENTS values('hannah@gmail.com','Hannah',2502);
- insert into user values('krisha@gmail.com','Krisha',1102);
- insert into user values('snehaa@gmail.com','Snehaa',2809);

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

EMAIL	USERNAME	PASSWORD
abcd@gmail.com	abcd	123
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

The interface includes a 'Back' button and an 'Export to CSV' button at the top right of the table view.

Question-2:

Perform UPDATE, DELETE Queries with user table

1.

UPDATE STUDENTS

SET email = 'admin@gmail.com', password=1000

WHERE username = 'abcd';

The image displays two screenshots of the IBM Db2 on Cloud console, illustrating the execution of an UPDATE query on the 'STUDENTS' table.

Top Screenshot (Before Update):

- The table 'VST02824.STUDENTS' is shown with the following data:

EMAIL	USERNAME	PASSWORD
abcd@gmail.com	abcd	123
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

Bottom Screenshot (After Update):

- The table 'VST02824.STUDENTS' is shown after the UPDATE query has been executed. The row where USERNAME was 'abcd' has been updated with EMAIL 'admin@gmail.com' and PASSWORD '1000'.

EMAIL	USERNAME	PASSWORD
admin@gmail.com	abcd	1000
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

2. delete from STUDENTS where username='abcd';

The screenshot displays the IBM Db2 on Cloud web interface. The top section shows a SQL editor with the query `delete from STUDENTS where username='abcd';` and a 'Run all' button. Below the editor is a 'History' table showing the execution of the query.

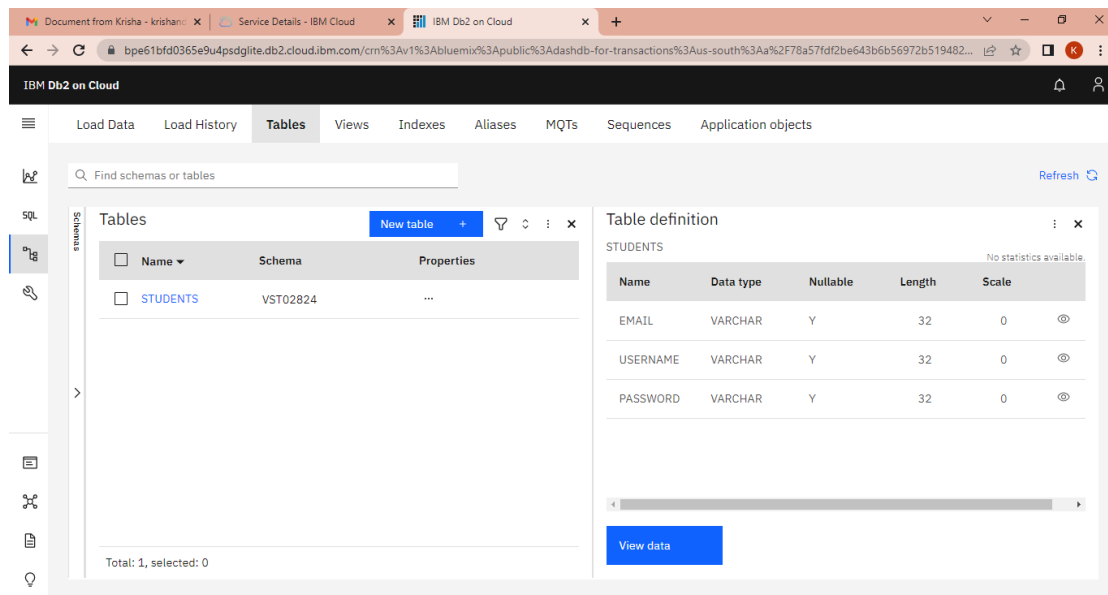
Script	Date	Status	Runtime
Untitled - 1	Oct 11, 2022 9:21:37 AM	✓ 1	0.037 s
delete from STUDENTS where username='abcd'		✓	0.037 s
Untitled - 1	Oct 11, 2022 9:19:54 AM	✓ 1	0.020 s
UPDATE STUDENTS SET email = 'admin@gmail.com', password=1000 ...		✓	0.020 s
Untitled - 1	Oct 11, 2022 9:09:43 AM	✓ 1	0.007 s

The bottom section shows the 'VST02824.STUDENTS' table with the following data:

EMAIL	USERNAME	PASSWORD
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

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.c1o
    gj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=Dig
    iCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg", "", "")
except:
    print("Unable to connect: ",ibm_db.conn_error())
```

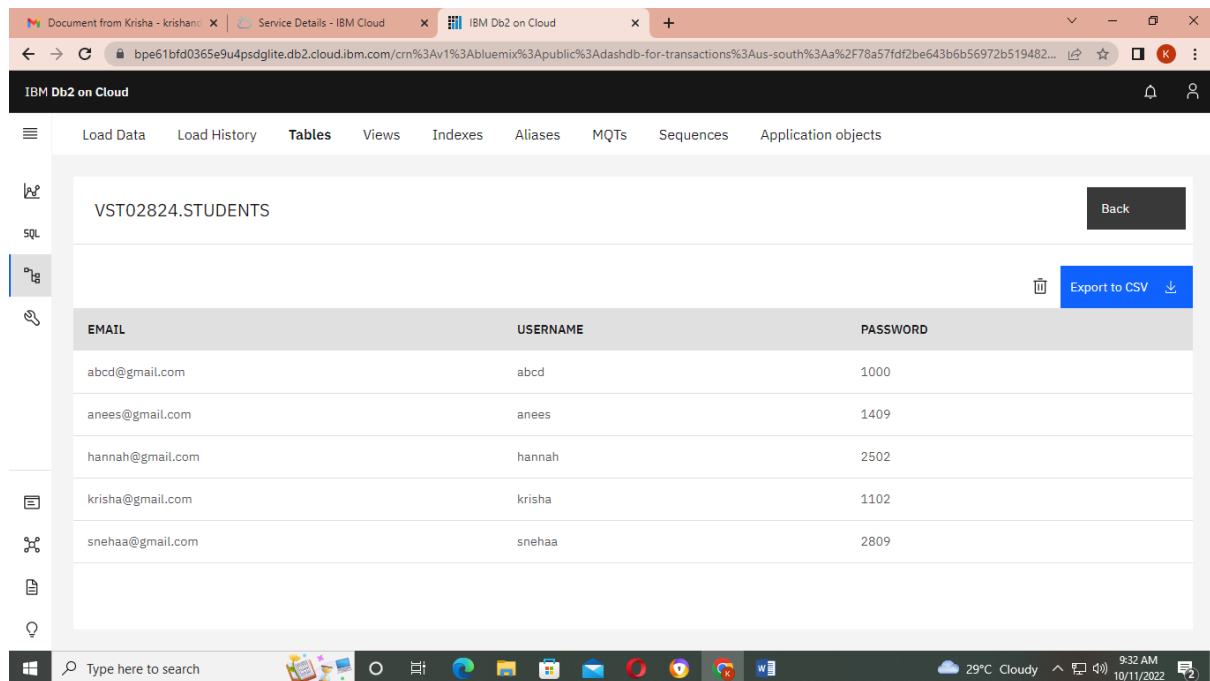
```
@app.route("/")
def dashboard():
```

```
    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:



EMAIL	USERNAME	PASSWORD
abcd@gmail.com	abcd	1000
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

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.c1o
gj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=Dig
iCertGlobalRootCA.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:

Document from Krishna - krishan... Service Details - IBM Cloud IBM Db2 on Cloud

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F78a57fdf2be643b6b56972b519482...

IBM Db2 on Cloud

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

VST02824.STUDENTS

Back

Export to CSV

EMAIL	USERNAME	PASSWORD
abcd@gmail.com	abcd	1000
anees@gmail.com	anees	1409
hannah@gmail.com	hannah	2502
krisha@gmail.com	krisha	1102
snehaa@gmail.com	snehaa	2809

Type here to search 29°C Cloudy 9:32 AM 10/11/2022

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?