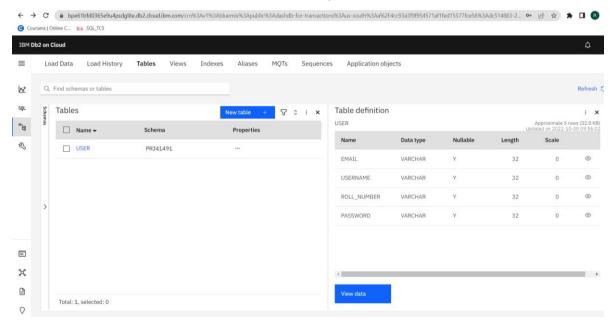
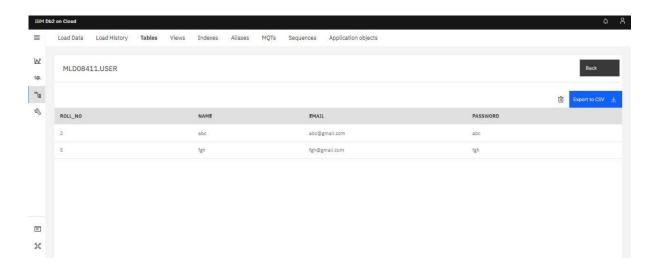
## Assignment -2

## Question-1:

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



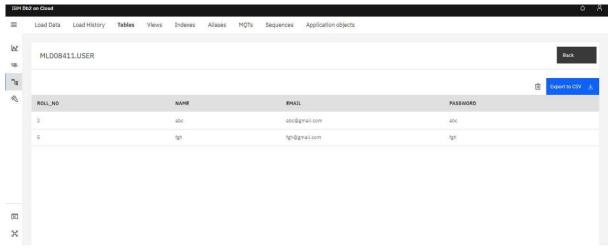
- insert into user values(2,'abc','abc@gmail.com','abc');
- insert into user values(5,'fgh','fgh@gmail.com','fgh');



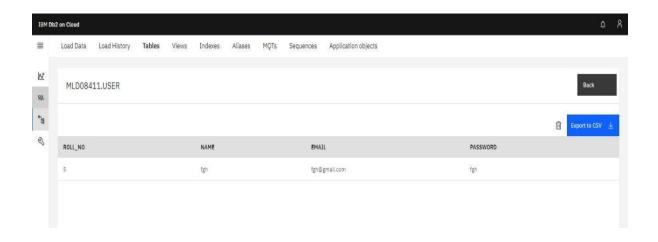
## Question-2:

Perform UPDATE, DELETE Queries with user table

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



delete from user where roll\_no=2;



## Question 3:

Connect python code to db2

### Program:

```
from flask import Flask import ibm_db
```

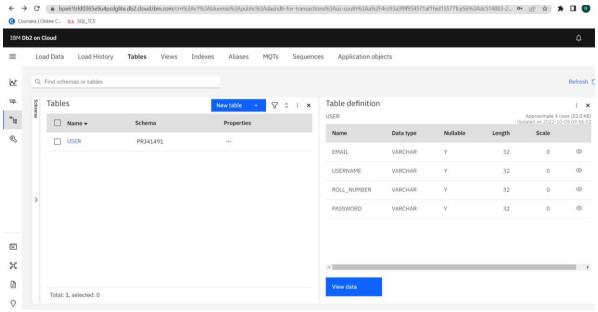
```
app=Flask(__name__) try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg","","") except:
    print("Unable 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:



#### 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
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(prep stmt,1,roll number)
ibm_db.execute(prep_stmt)
account=ibm_db.fetch_assoc(prep_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(prep_stmt,1,email)
ibm db.bind param(prep stmt,2,username)
ibm_db.bind_param(prep_stmt,3,roll_number)
ibm_db.bind_param(prep_stmt,4,password)
       ibm_db.execute(prep_stmt)
       flash(" Registration successfull. Log in to continue !")
else:
  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 />
       Enter Email ID:
      <input type="email" name="email"/>
       Enter Username:
      <input type="text" name= "username" />
       Enter Password:
      <input type="password" name="password"/>
       Enter Roll number:
      <input type="text" name="rollnumber"/>
      </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 %}
    <strong style="color:red">Error</strong>: {{error}}
  {% endif %}
  {% with messages = get_flashed_messages() %}
    {% if messages %}
       {% for message in messages %}
          {{ message }}
       {% endfor %}
    {% endif %}
   {% endwith %}
    <div class="center"> <br /><br />
    <form action="/login" method="POST">
    <h1>Login</h1> <br /><br />
       Enter Username:
      <input type="text" name= "username" />
       Enter Password:
      <input type="password" name="password"/>
      </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>
    <img src="{{url for('static', filename='welcome.jpeg')}}" /><br />
    <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">
```

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.

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.

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

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.

```
</div>
</body>
</html>
```

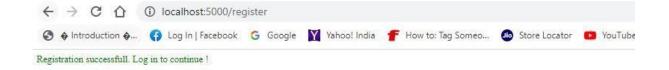
#### style.css

```
.center{ margin:
auto; width:
15%;
}
h2{ text-align:center;
}
```

```
input{ border-radius:5px;
padding:7px;
}
```

## **Output:**

| ← → G Φ            | (i) localhost:5000  |          |              |              |         |                         |       |                    | 07 | Q     | B       | ☆        |
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|                    |                     |          |              |              | Enter E | mail ID:                |       |                    |    |       |         |          |
|                    |                     |          |              |              |         | gmail.com               |       |                    |    |       |         |          |
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|                    |                     |          |              |              | 14      |                         | J     |                    |    |       |         |          |
|                    |                     |          |              |              | submit  |                         |       |                    |    |       |         |          |



# Login

Enter Username:

sksy

Enter Password:

und

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.

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