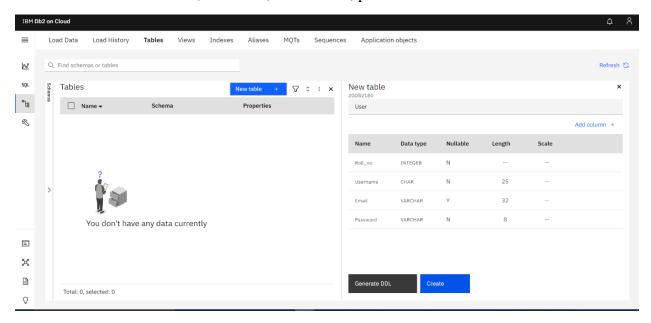
Assignment -2

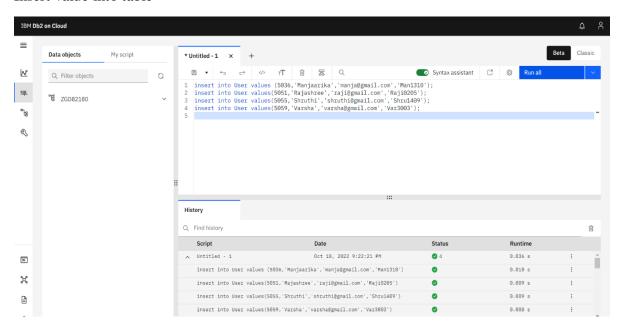
Assignment Date	26 September 2022
Team ID	PNT2022TMID28027
Project Name	Personal Expense Tracker Application
Maximum Marks	2 Marks

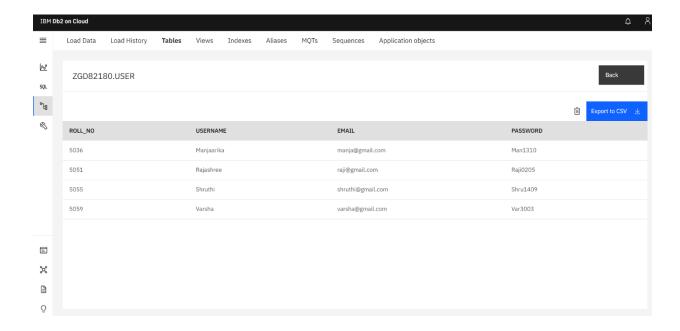
Question-1:

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



Insert value into table

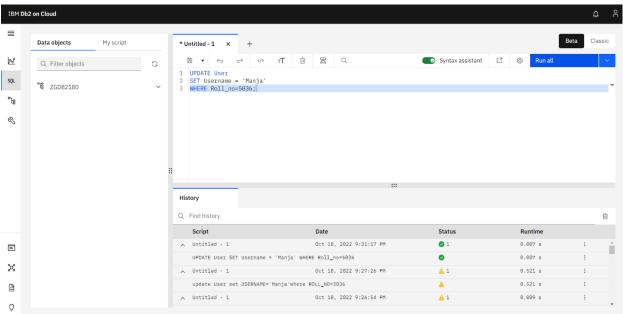


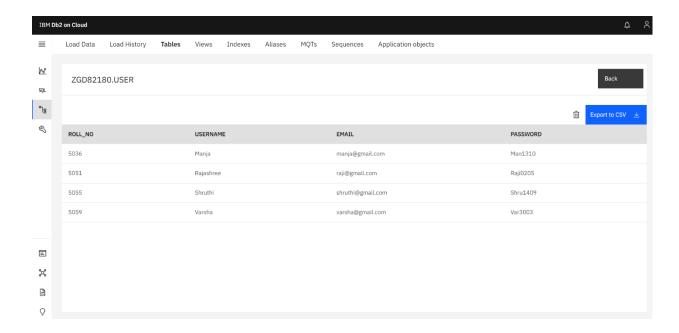


Question-2:

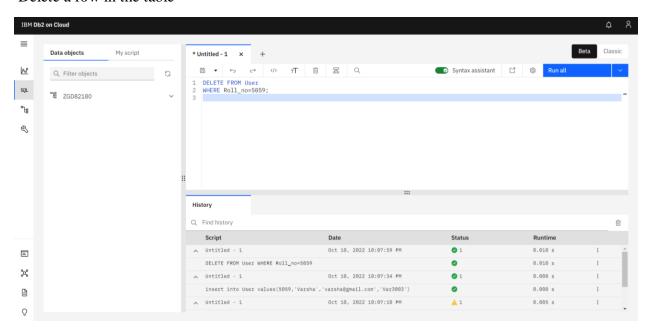
Perform UPDATE, DELETE Queries with user table

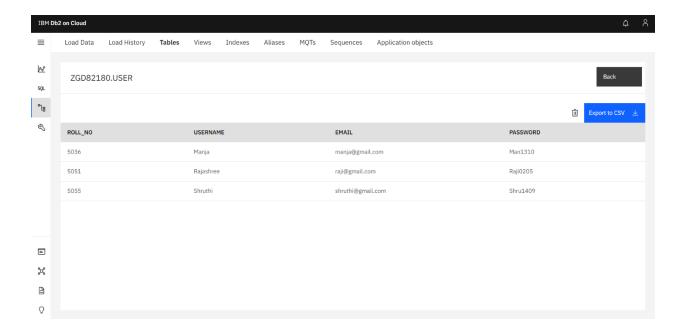
Update the table





Delete a row in the table





Question 3:

Connect python code to db2

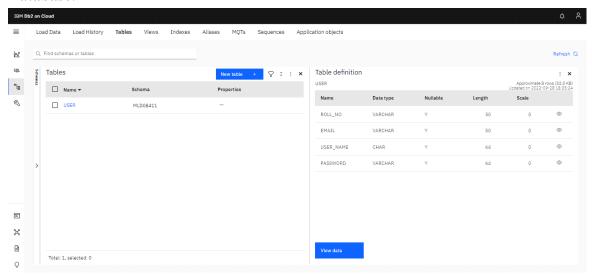
Program:

```
from flask import Flask
import ibm_db
app=Flask(__name__)
app.secret_key='a'
try:
  conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY
=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mld08411;PWD=mCn9EnGnLG
Gbg2JH","","")
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

```
@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_no=?"
      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,roll_number)
        ibm_db.bind_param(prep_stmt,2,email)
        ibm_db.bind_param(prep_stmt,3,username)
        ibm_db.bind_param(prep_stmt,4,password)
        ibm_db.execute(prep_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 user_name=? 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['USER_NAME']
       session["username"]=account["USER_NAME"]
      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>
    k 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:
```

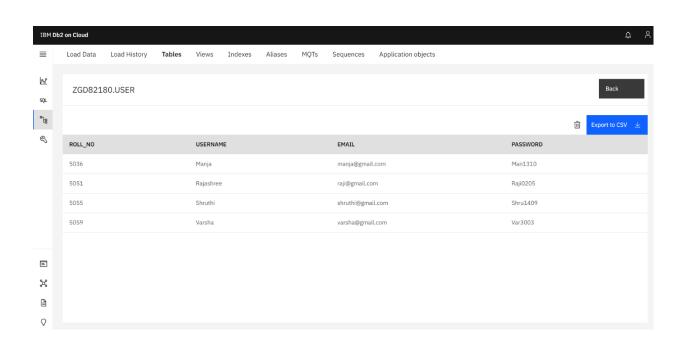
login.html

```
<html>
  <head>
    <title>Login page</title>
    k 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>
    k rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
  </head>
  <body>
  {% with messages = get_flashed_messages() %}
     {% if messages %}
        {% for message in messages %}
           {{ message }}
        {% endfor %}
     {% endif %}
   {% endwith %}
     <br /><br />
    <center>
     <h2 > Welcome {{user}}</h2>
    </center>
  </body>
</html>
style.css
.center{
margin: auto;
width: 15%;
h2{
text-align:center;
}
input{
border-radius:5px;
padding:7px;
```

Output:







Welcome Varsha