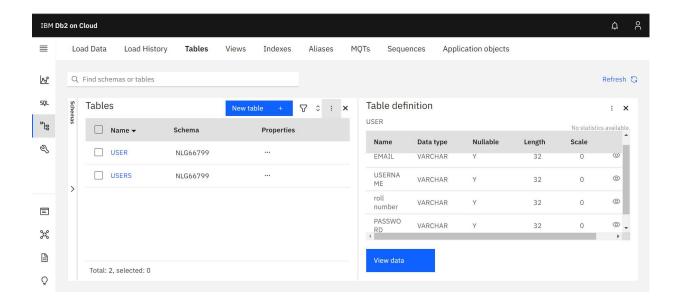
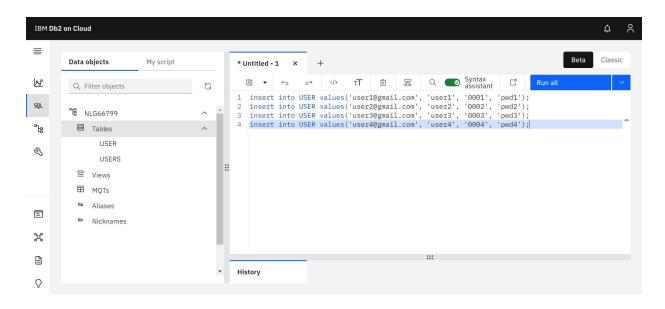
Assignment - 2 Personal Expense Tracker

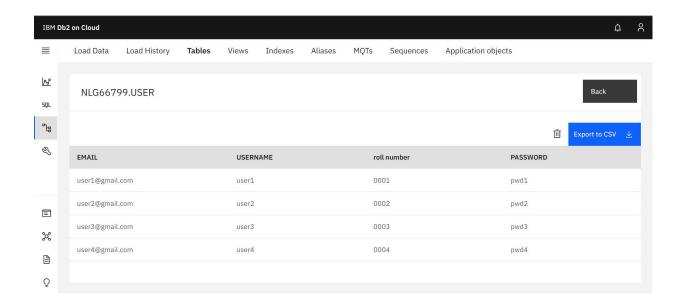
Dharanikumar K PNT2022PMID19316

Creation of Table:

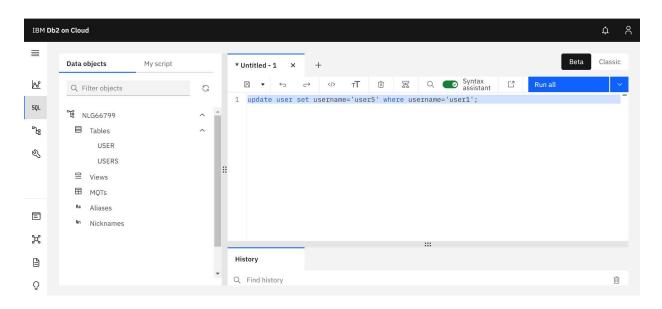


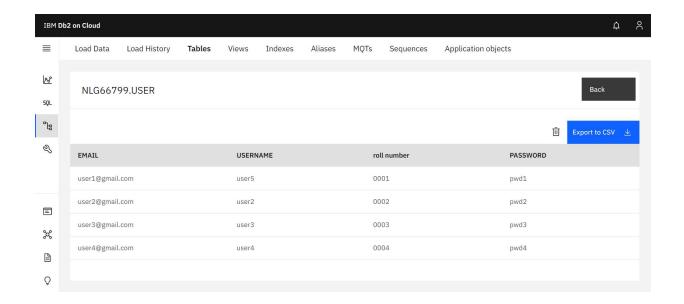
Insertion into USER Table:



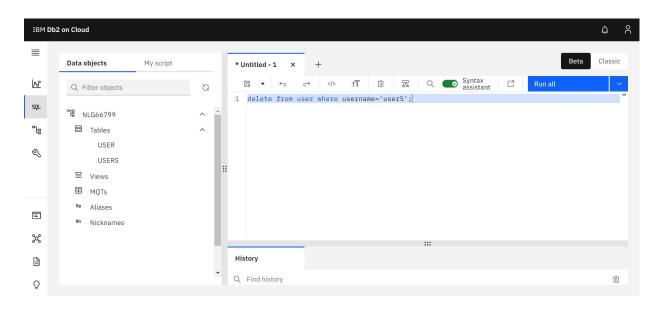


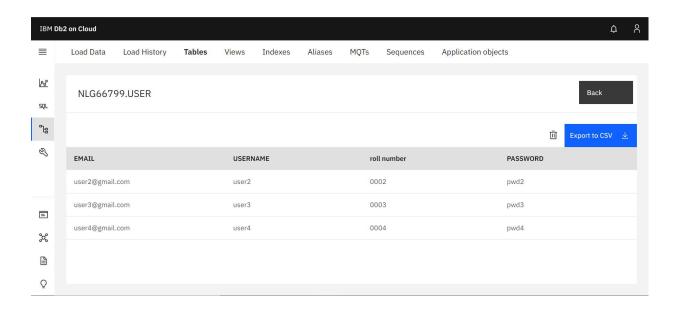
Updating USER Table:





Deleting from USER Table:





Connecting to IBM DB2 From Python:

```
conn = ibm_db.connect(
    "DATABASE=bludb;\
    HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.clogj3sd0tgtu0lqd
e00.databases.appdomain.cloud;\
    PORT=30699;\
    Security=SSL;\
    SSLServerCertificate=DigiCertGlobalRootCA.crt;\
    UID=nlg66799;\
    PWD=CXtQLAGZ06fD0fhC;","","")
```

Source Code

App.py

```
from flask import Flask, render_template, url_for,session,request,
redirect
import ibm_db
app=Flask(__name__, template_folder='templates')
app.secret_key='a'
conn = ibm_db.connect(
   "DATABASE=bludb;)
```

```
\verb|HOSTNAME| = 54a2f15b - 5c0f - 46df - 8954 - 7e38e612c2bd.c1ogj3sd0tgtu0lqde00.da|\\
tabases.appdomain.cloud; \
    PORT=30699; \
    Security=SSL; \
    SSLServerCertificate=DigiCertGlobalRootCA.crt; \
    UID=nlq66799;\
    PWD=CXtQLAGZ06fD0fhC;","","")
@app.route('/', methods=['GET','POST'])
def register():
    msq=" "
    if request.method=='POST':
        username=request.form['username']
        password=request.form['password']
        email=request.form['email']
        rollno=request.form['rollno']
        sql="INSERT INTO user VALUES(?,?,?,?)"
        stmt=ibm db.prepare(conn,sql)
        ibm db.bind param(stmt,1,email)
        ibm db.bind param(stmt,2,username)
        ibm db.bind param(stmt, 3, rollno)
        ibm db.bind param(stmt, 4, password)
        ibm db.execute(stmt)
        msg='Succesfully registered!'
        return redirect(url for('login'))
    elif request.method=='GET':
        msg='Please fill the form'
        return render template('register.html', msg=msg)
@app.route("/login", methods=['GET', 'POST'])
def login():
    global userid
    msq=" "
    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:
```

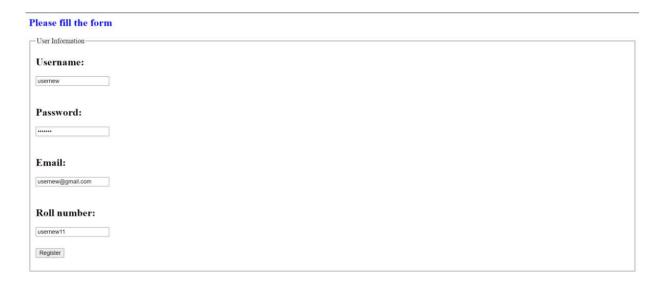
```
session['loggedin']=True
            session['id'] = account['USERNAME']
            userid=account['USERNAME']
            session['username'] = account["USERNAME"]
            msg='Logged in successfully'
            return
render template("welcome.html", msg=msg, username=userid)
        else:
            msg='Incorrect username/password'
            return render template('login.html', msg=msg)
    elif request.method=='GET':
        return render template('login.html')
if name ==' main ':
    app.run(host='0.0.0.0')
register.html
<html>
<body>
<h2 style="color:blue">{{msg}}</h2>
<form action="/" method="POST">
<fieldset>
<legend>User Information</legend>
<h2>Username:<h2> <input type="text" name="username"
placeholder="Enter username
"><br/><br/>
<h2>Password:<h2> <input type="password" name="password"><br/><br/>
<h2>Email:<h2> <input type="email" name="email" placeholder="Enter
email"><br/><br/>
<h2>Roll number:<h2> <input type="text" name="rollno"</pre>
placeholder="Enter roll
number"><br/><br/>
<input type="submit" value="Register">
</fieldset>
</form>
</body>
</html>
login.html
<html>
<body>
<h2 style="color:blue">{{msg}}</h2>
```

welcome.html

```
<h1 style="color:blue">Welcome {{username}}!</h1> <h2>{{msg}}</h2>
```

Output:

register.html



login.html (correct login)

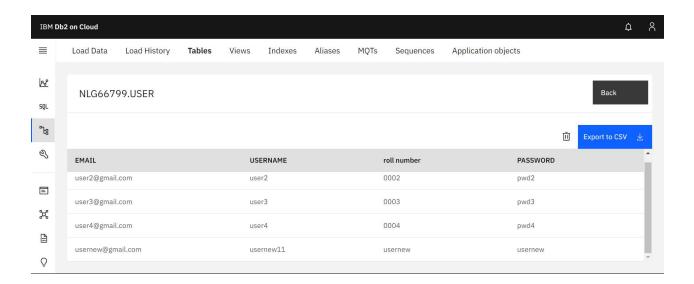
Login



welcome.html

Welcome usernew!

Logged in successfully



login.html (incorrect login)

Login



Incorrect username/password

User Login:		
Username:		
Enter username		
Password:		
Login		