

Assignment 2 – Personal Expense Tracker

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

INSERTION:

WYM47343.ASSIGNMENT2

Back

Export to CSV

EMAIL	USERNAME	ROLLNO	PASSWD
a@gmail.com	user1	abc124	passwd
b@gmail.com	aa	bb	pass

1

2

```
insert into assignment2 values ('b@gmail.com', 'aa', 'bb', 'pass');
```

History

Find history

Script	Date	Status	Runtime
^ Untitled - 1	Nov 1, 2022 1:01:04 PM	✓ 1	0.008 s
insert into assignment2 values ('b@gmail.com', 'aa', 'bb', 'pass')		✓	0.008 s

2 Perform UPDATE,DELETE Queries with user table

The screenshot shows the SQL Studio application window. At the top is a menu bar with icons for file operations, editing, running queries, and help. Below the menu bar is a toolbar with various icons. The main area contains a script editor with the following SQL code:

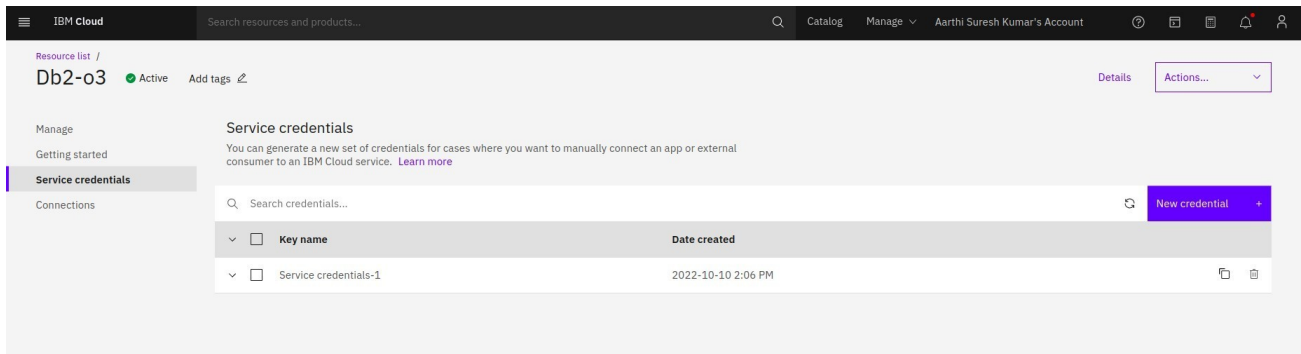
```
1 update assignment2  
2 set passwd = 'newpass'  
3 where email = 'b@gmail.com';  
4 select * from assignment2;  
5
```

Below the script editor is a "History" tab which lists previous query executions. It has a search icon and the text "Find history". There are two entries in the history table:

	Script	Date	Status	Runtime	
^	Untitled - 1	Nov 1, 2022 1:03:18 PM	✓ 2	0.630 s	:
	update assignment2 set passwd = 'newpass' where email = 'b@gmail.com'		✓	0.006 s	:
	select * from assignment2		✓	0.624 s	:
^	Untitled - 1	Nov 1, 2022 1:02:58 PM	✓ 1	0.008 s	:
	update assignment2 set passwd = 'newpass' where email = 'b@gmail.com'		✓	0.008 s	:

A bottom toolbar contains several icons for database management tasks like connecting, refreshing, saving, etc.

3 Connect python code to db2.



```
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;Security=SSL;SSLS\nserverCertificate=DigiCertGlobalRootCA.crt;UID=wym47343;PWD=RfUrGhT3TSiZ6ZWY;","","")
```

4 Flask registration page :

```
#!/usr/bin/env python3\n# -*- coding: utf-8 -*-\n''''''
```

```
from flask import Flask, render_template, url_for,session,request, redirect\nimport ibm_db
```

```
app=Flask(__name__, template_folder='templates')\napp.secret_key='hello'
```

```
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;Security=SSL;SSLS\nserverCertificate=DigiCertGlobalRootCA.crt;UID=wym47343;PWD=RfUrGhT3TSiZ6ZWY;","","")
```

```
@app.route('/', methods=['GET','POST'])\ndef register():\n    msg=""
```

```
    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 out the form'
    return render_template('register.html',msg=msg)
```

```
@app.route("/login",methods=['GET','POST'])
```

```
def login():
```

```
    global userid
```

```
    msg=" "
```

```
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>  
    <h6 style="color:red">{{ msg }}</h6>  
    <form action="/" method="POST">  
        Username* <input type="text" name="username" placeholder="Enter username "><br/><br/>  
        Password* <input type="password" name="password"><br/><br/>  
        Email* <input type="email" name="email" placeholder="Enter email"><br/><br/>  
        Roll number*<input type="number" name="rollno" placeholder="Enter roll no."><br/><br/>  
        <input type="submit" value="Register">  
    </form>  
</body>  
</html>
```

login.html

```
<html>  
<body>  
    <h5 style="color:red">{{ msg }}</h5>  
    <form action="/login" method="POST">  
        Username <input type="text" name="username" placeholder="Enter username"><br/><br/>  
        Password <input type="password" name="password" placeholder="*****"><br/><br/>  
        <input type="submit" value="Login">  
    </form>  
</body>  
</html>
```

welcome.py

```
<h1>Welcome {{username}}!</h1>  
  
<h6>{{ msg }}</h6>
```

REGISTRATION PAGE

Please fill out the form

Username*

Password*

Email*

Roll number*

