

ASSIGNMENT 2

Python Programming

Assignment Date	2 nd November 2022
Student Name	T.Srihari
Student Roll Number	2019103586
Maximum Marks	2 marks

Question 1:

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

Solution 1:

Create new table

New table within SJT38003 schema

Table name

Users

Email	CHAR	N	30	--
Password	CHAR	N	30	--
Reg	CHAR	N	12	--

Add column +

Cancel

Generate DDL

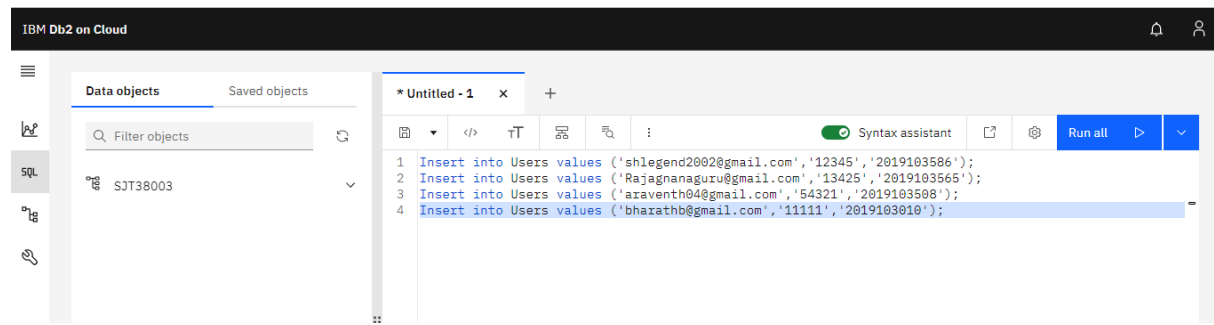
Create

Question 2:

Perform UPDATE, DELETE Queries with user table

Solution 2:

Insert:



Output:

IBM Db2 on Cloud

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

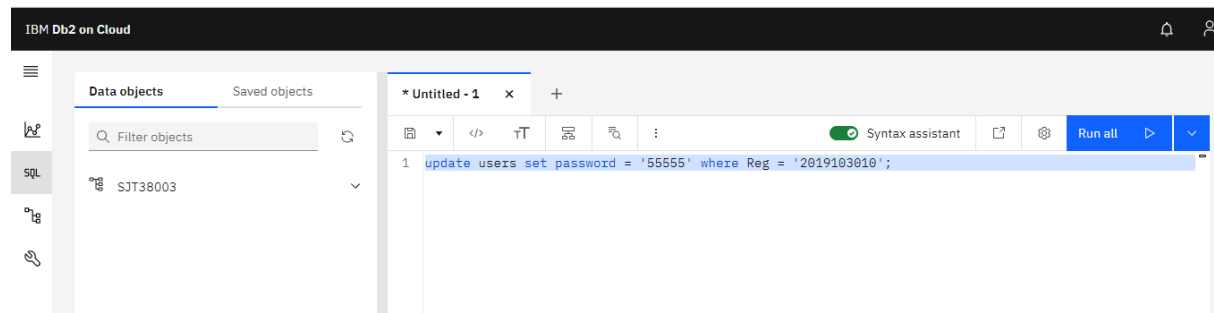
SJT38003.USERS

Back

Export to CSV

EMAIL	PASSWORD	REG
Rajagnanaguru@gmail.com	13425	2019103565
araventh04@gmail.com	54321	2019103508
bharathb@gmail.com	11111	2019103010
shlegend2002@gmail.com	12345	2019103586

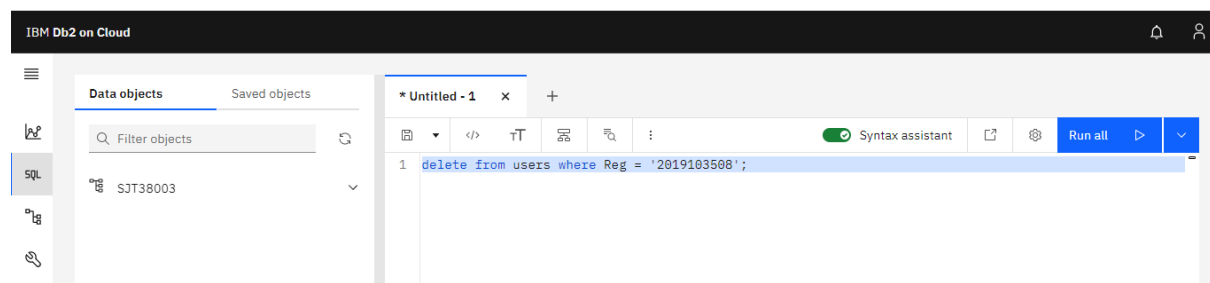
Update:



Output:

EMAIL	PASSWORD	REG
Rajagnanaguru@gmail.com	13425	2019103565
araventh04@gmail.com	54321	2019103508
bharathb@gmail.com	55555	2019103010
shlegend2002@gmail.com	12345	2019103586

Delete:



Output:

EMAIL	PASSWORD	REG
Rajagnanaguru@gmail.com	13425	2019103565
bharathb@gmail.com	55555	2019103010
shlegend2002@gmail.com	12345	2019103586

Question 3:

Connect python code to db2.

Solution 3:

from flask import Flask, render_template, request, redirect, url_for, session

```

import ibm_db

import re

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-
ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3037
6;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=lfx34122;PWD=jmQDS9wCaxqRII
Qd",",")

stmt = ibm_db.prepare(conn,sql)

ibm_db.execute(stmt)

acc = ibm_db.fetch_assoc(stmt)

print(acc)

if __name__ == '__main__':

    app.run()

```

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 user username and password. If the user is valid show the welcome page

Solution 4:

```

from flask import Flask, render_template, request, redirect, url_for, session

```

```

import ibm_db

import re

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-
ba32-

21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3037
6;SECURITY=SSL;SSLSe

rverCertificate=DigiCertGlobalRootCA.crt;UID=lfx34122;PWD=jmQDS9wCaxqRII
Qd",",")

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

def login():

    global userid

    msg = ""

    if request.method == 'POST':

        email = request.form['email']

        password = request.form['password']

        sql = "SELECT * FROM USERS WHERE EMAIL=? AND PASSWORD=?"

        stmt = ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,email)

        ibm_db.bind_param(stmt,2,password)

        ibm_db.execute(stmt)

        acc = ibm_db.fetch_assoc(stmt)

        print(acc)

```

```
if acc:

    session['loggedin'] = True

    session['id'] = acc['Email']

    userid = acc['Email']

    session['username'] = acc['Email']

    msg = acc['Email']

    return render_template('dashboard.html', msg = msg)

else:

    msg = "Incorrect Email/password!!"

    return render_template('login.html', msg = msg)

@app.route('/register',methods =['GET', 'POST'])

def register():

    msg = ""

    if request.method == 'POST':

        email = request.form['email']

        password = request.form['password']

        reg = request.form['Reg']

        sql = "SELECT * FROM USERS WHERE Email=?"

        stmt = ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,email)

        ibm_db.execute(stmt)

        acc = ibm_db.fetch_assoc(stmt)
```

```

print(acc)

if acc:

    msg = "Account already exists !!"

elif not re.match(r'^@]+@[^@]+\.[^@]+' ,email):

    msg = "Invalid Email address"

else:

    sql = "INSERT INTO USERS VALUES (?, ?, ?)"

    stmt = ibm_db.prepare(conn,sql)

    ibm_db.bind_param(stmt,1,email)

    ibm_db.bind_param(stmt,2,password)

    ibm_db.bind_param(stmt,1,reg)

    ibm_db.execute(stmt)

    msg = "Successgully registered !!Login to continue"

    return render_template('login.html', msg = msg)

elif request.method == 'POST':

    msg = "Please fill out the form !"

    return render_template('register.html', msg = msg)

if __name__ == '__main__':

    app.run()

```

Output:

Register Page:

← → ↻ localhost:5000/register.html


Email

Password

Registration number

Login Page:

← → ↻ localhost:5000/login.html

Email 

Password

Home Page:

← → ↻ localhost:5000

Welcome araventh04@gmail.com
