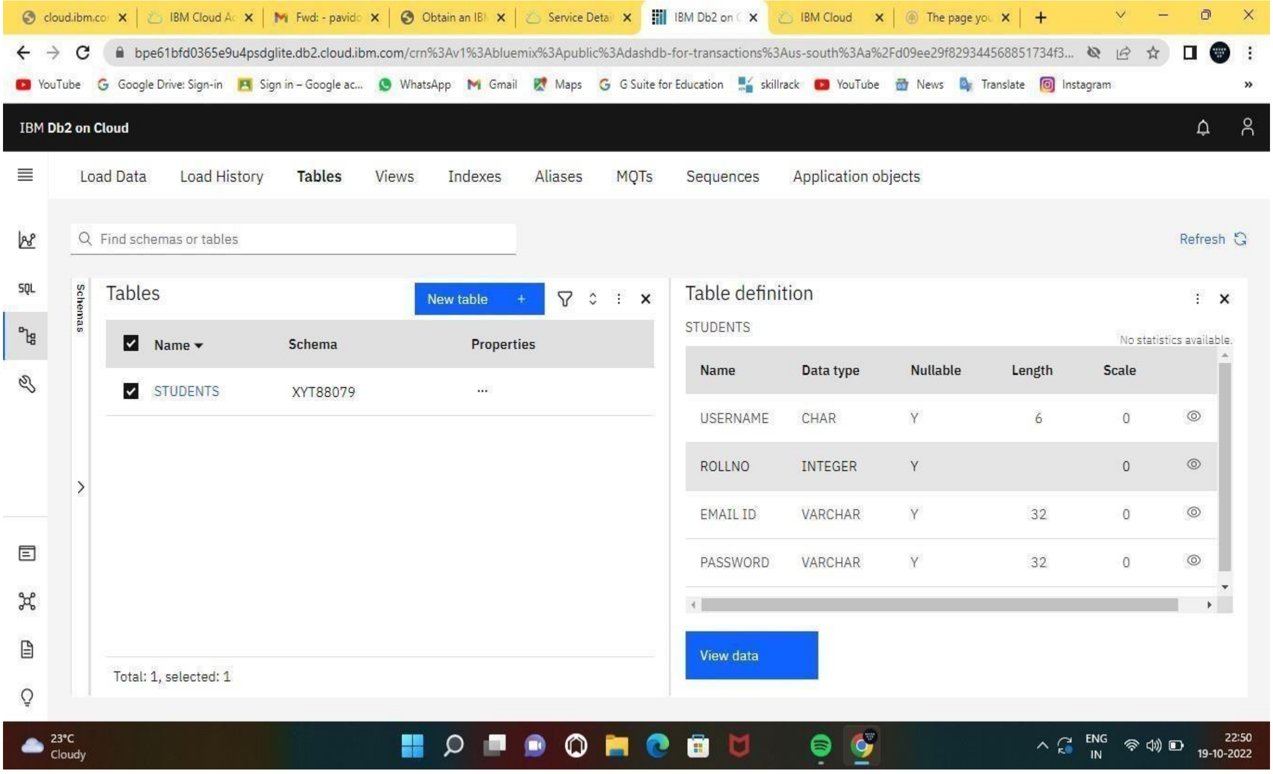
ASSIGNMENT-2

IBM CLOUD DBS

Student Name	S.Esvarapandiyan
Student Roll Number	951919CS022

Questions:

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



Tables

Name	Schema	Properties
☑ STUDENTS	XYT88079	···

Total: 1, selected: 1

Table definition

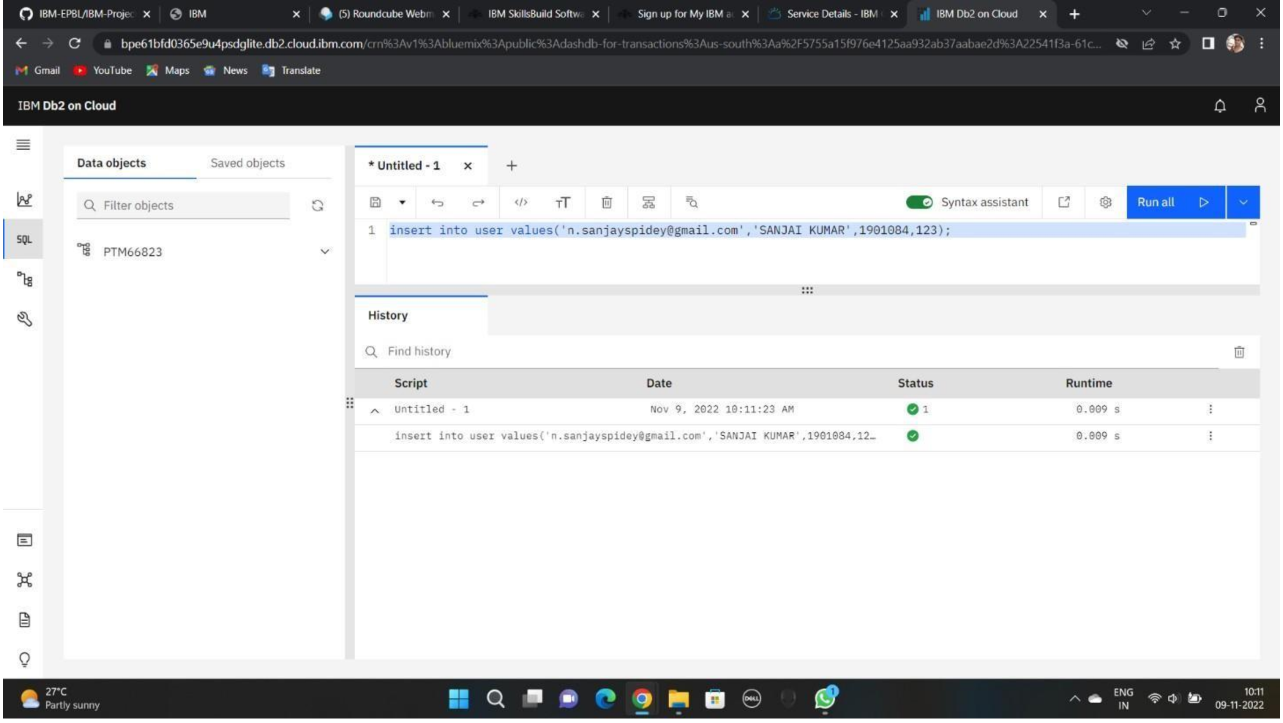
STUDENTS

No statistics available.

Name	Data type	Nullable	Length	Scale
USERNAME	CHAR	Y	6	0
ROLLNO	INTEGER	Y		0
EMAIL ID	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

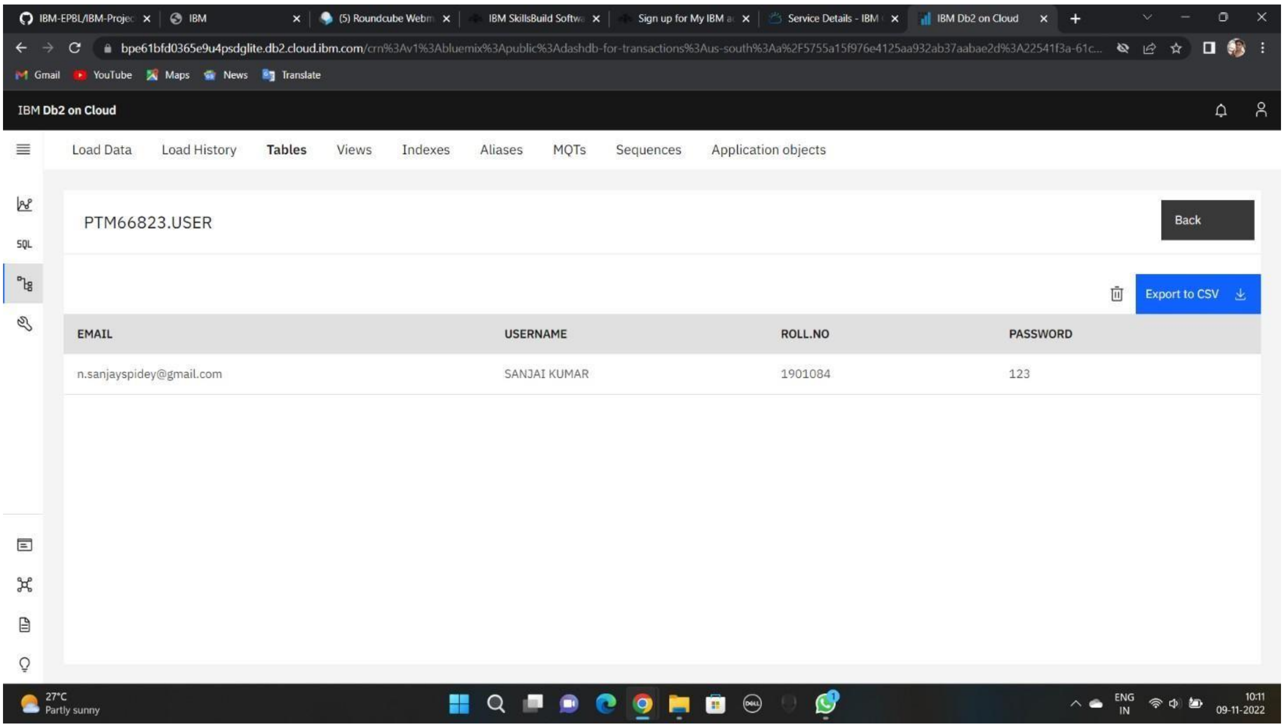
2. Perform UPDATE, DELETE Queries with user table.

INSERT TABLE:-



```
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,123);
```

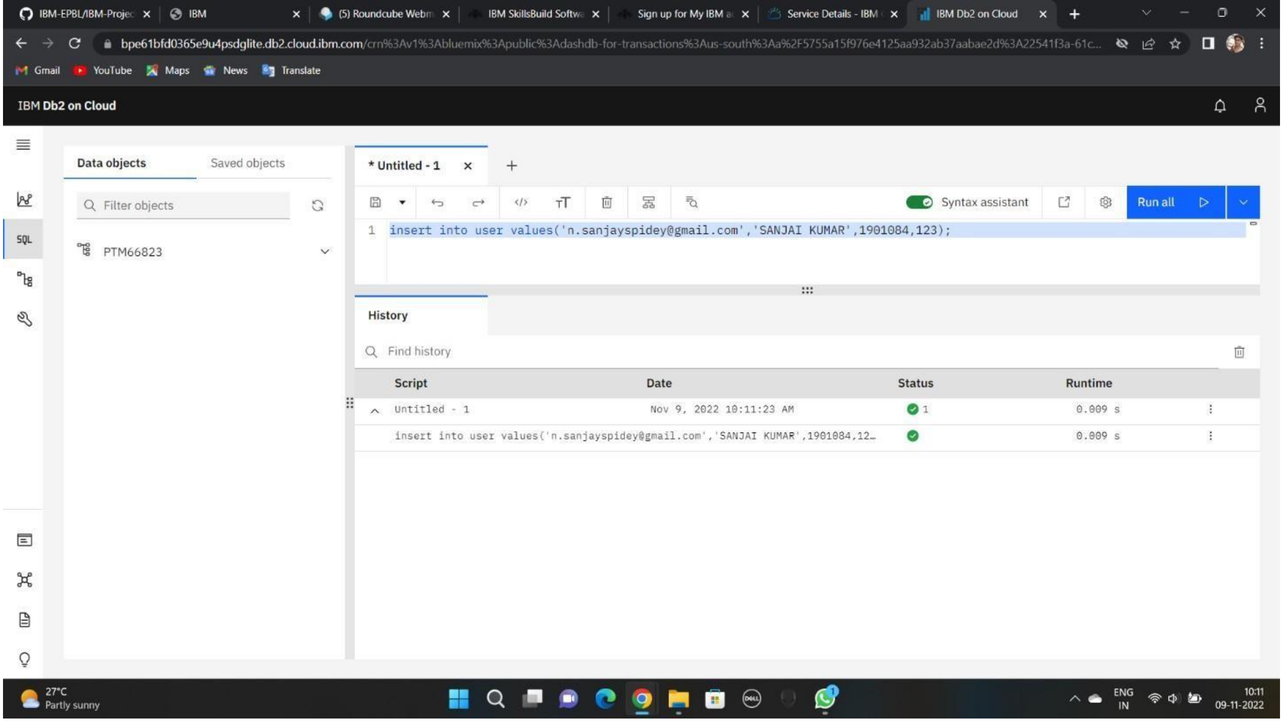
Script	Date	Status	Runtime
Untitled - 1	Nov 9, 2022 10:11:23 AM	✓ 1	0.009 s
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,12…		✓	0.009 s



PTM66823.USER

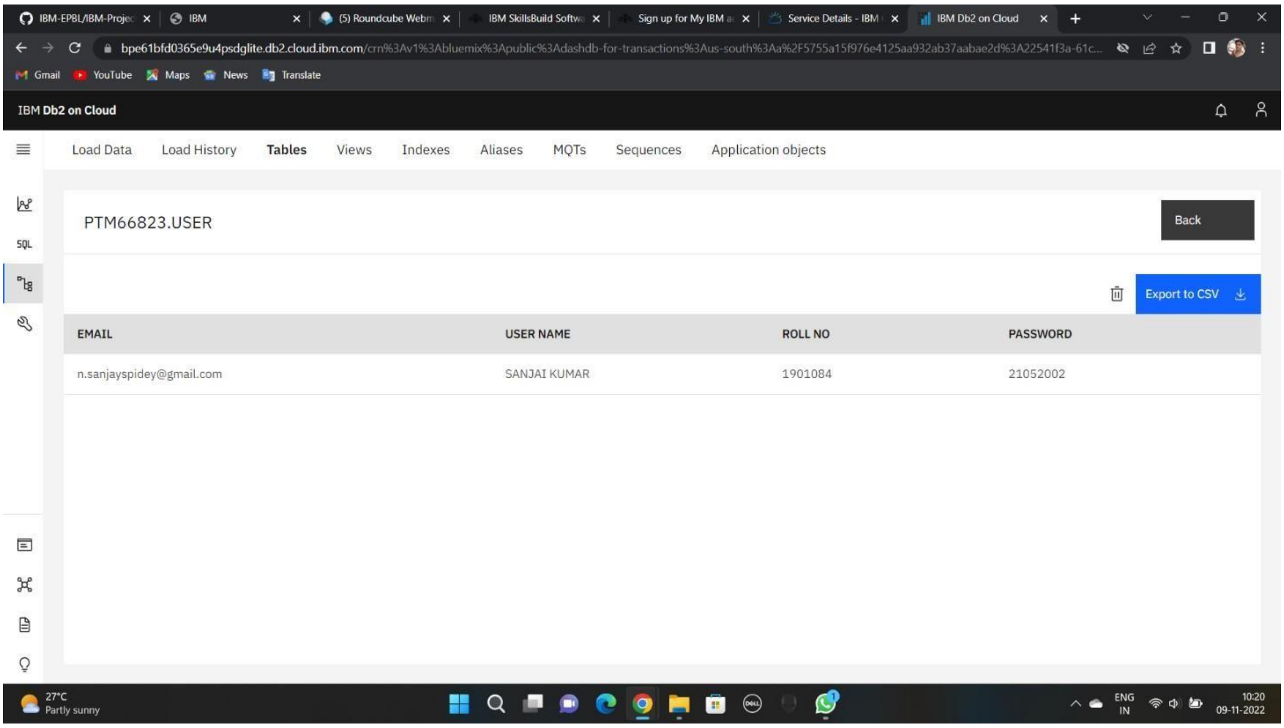
EMAIL	USERNAME	ROLL.NO	PASSWORD
n.sanjayspidey@gmail.com	SANJAI KUMAR	1901084	123

UPDATE TABLE:-



```
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,123);
```

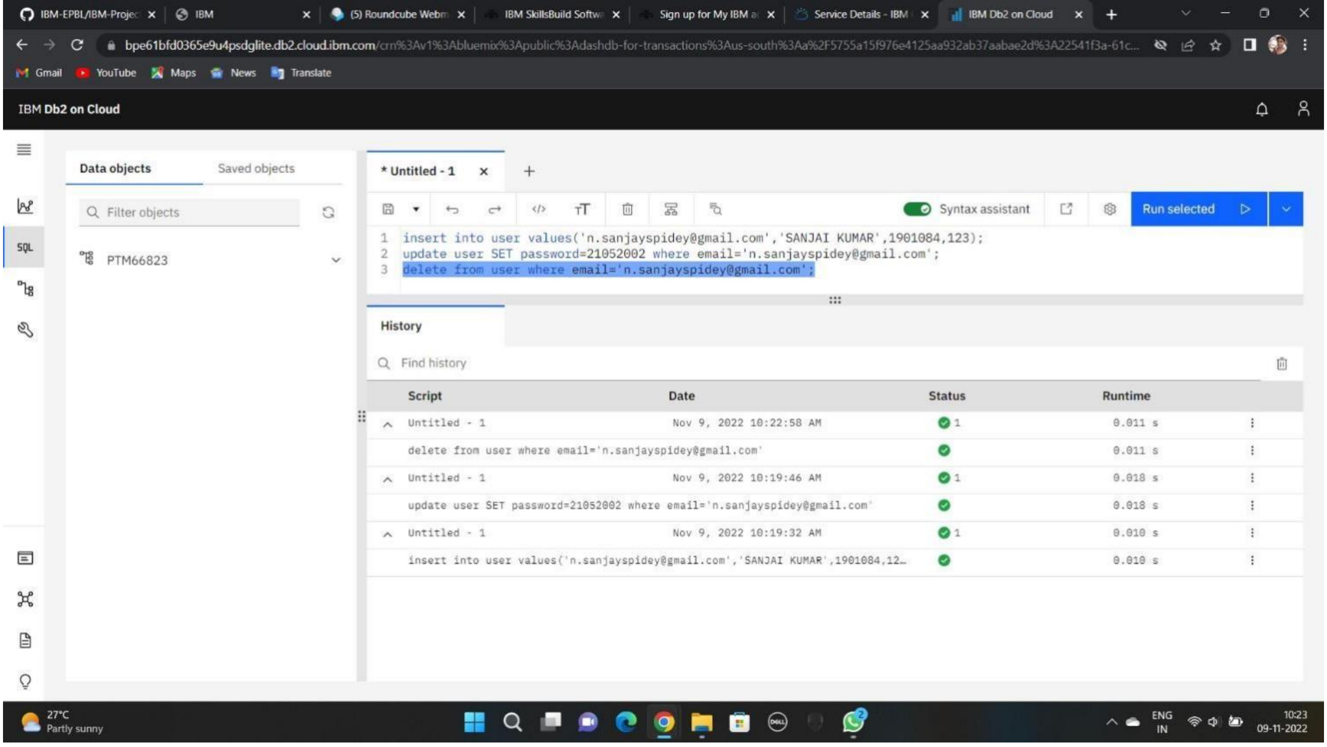
Script	Date	Status	Runtime
Untitled - 1	Nov 9, 2022 10:11:23 AM	1	0.009 s
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,12…			0.009 s



PTM66823.USER

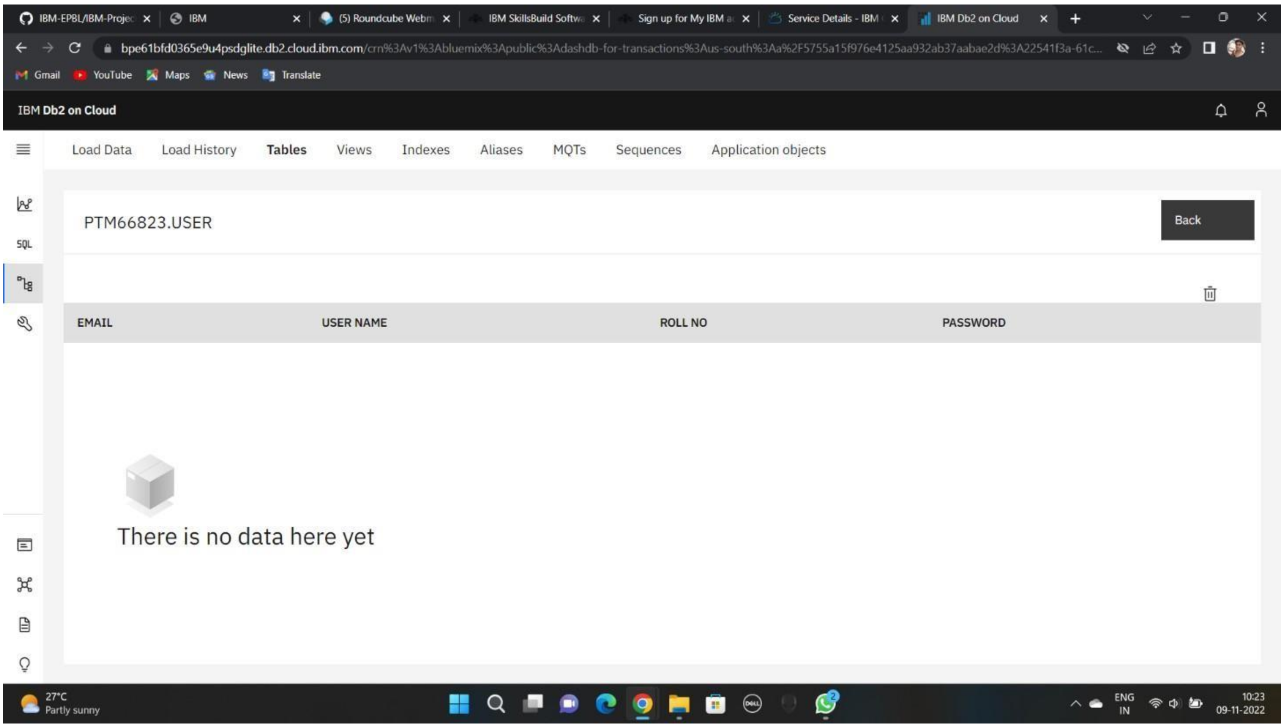
EMAIL	USER NAME	ROLL NO	PASSWORD
n.sanjayspidey@gmail.com	SANJAI KUMAR	1901084	21052002

DELETE TABLE:-



```
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,123);
update user SET password=21052002 where email='n.sanjayspidey@gmail.com';
delete from user where email='n.sanjayspidey@gmail.com';
```

Script	Date	Status	Runtime
Untitled - 1	Nov 9, 2022 10:22:58 AM	✓ 1	0.011 s
delete from user where email='n.sanjayspidey@gmail.com'		✓	0.011 s
Untitled - 1	Nov 9, 2022 10:19:46 AM	✓ 1	0.018 s
update user SET password=21052002 where email='n.sanjayspidey@gmail.com'		✓	0.018 s
Untitled - 1	Nov 9, 2022 10:19:32 AM	✓ 1	0.010 s
insert into user values('n.sanjayspidey@gmail.com','SANJAI KUMAR',1901084,12…		✓	0.010 s



PTM66823.USER

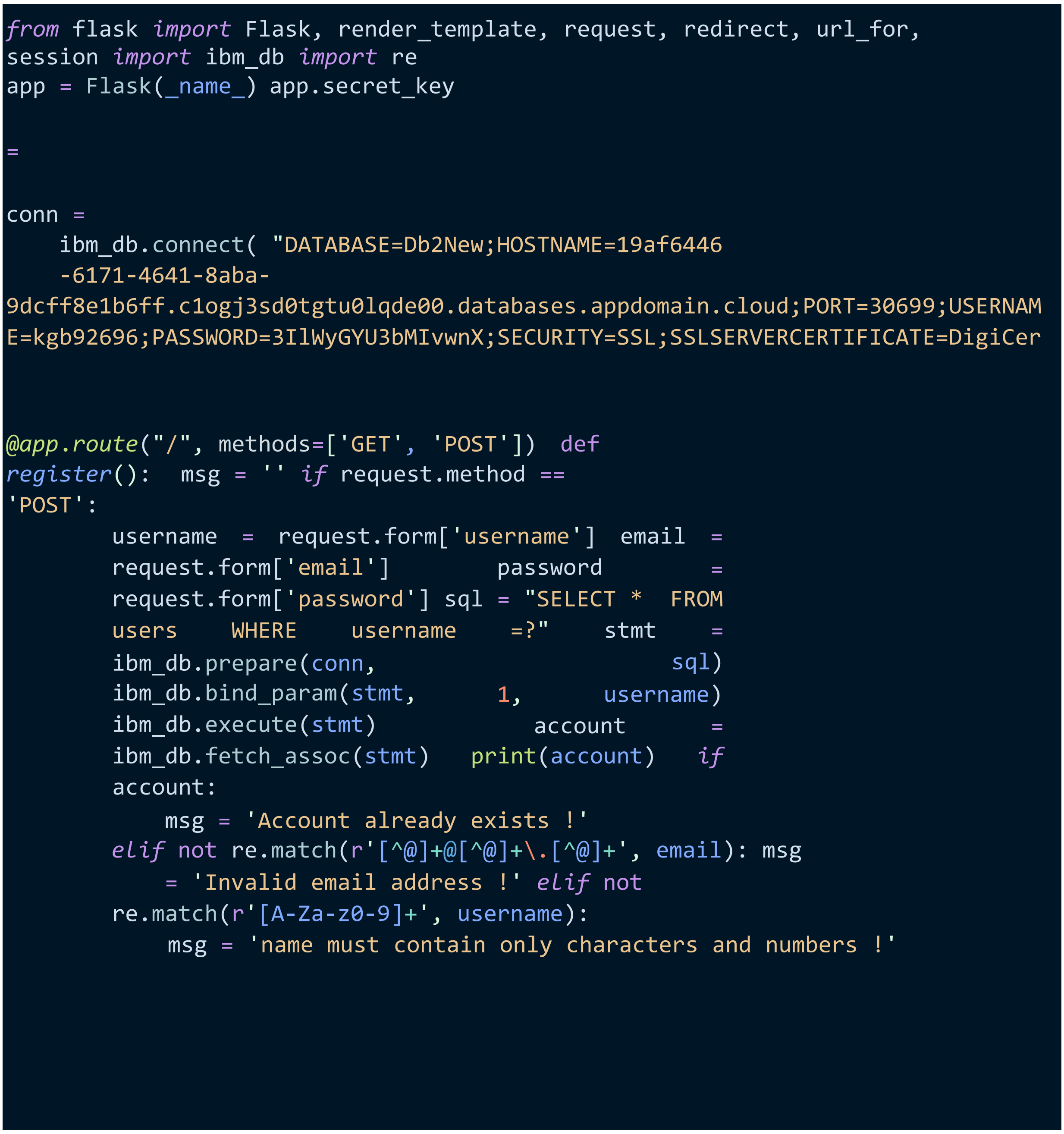
EMAIL	USER NAME	ROLL NO	PASSWORD

There is no data here yet

3. CONNECT PYTHON CODE TO DB2.
NOTE:- Question 4 contains Question 3 answer

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

Answers App.py



```
from flask import Flask, render_template, request, redirect, url_for,
session import ibm_db import re
app = Flask(_name_) app.secret_key


=


conn =
    ibm_db.connect( "DATABASE=Db2New;HOSTNAME=19af6446
    -6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;USERNAM
E=kgb92696;PASSWORD=3IlWyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer



@app.route("/", methods=['GET', 'POST'])  def
register():  msg = '' if request.method ==
'POST':
        username  =  request.form['username']  email  =
        request.form['email']        password        =
        request.form['password'] sql = "SELECT *  FROM
        users    WHERE    username    =?"    stmt    =
        ibm_db.prepare(conn,                       sql)
        ibm_db.bind_param(stmt,      1,      username)
        ibm_db.execute(stmt)           account       =
        ibm_db.fetch_assoc(stmt)   print(account)   if
        account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email): msg
            = 'Invalid email address !' elif not
        re.match(r'[A-Za-z0-9]+', username):
            msg = 'name must contain only characters and numbers !'
```