Assignment-2

Team id	PNT2022TMID49642
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
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ROLL NO	950019106704

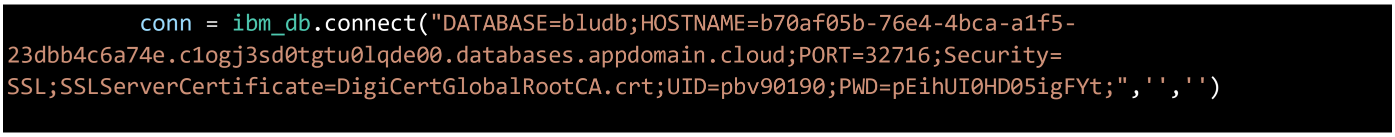
1. Create User table with user with email, username, roll number, password.

```
CREATE TABLE user(
                    username varchar(20) not null,
                     email varchar(50) not null,
                     password varchar(20) not null)
INSERT INTO user(username, email, password)
             VALUES(‘Hamthan’,’hamthan@gmail.com’, ‘12345’)
```

2. Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username='Hamthan' WHERE email= hamthan@gmail.com’DELETE
FROM user WHERE username = 'Hamthan'
```

3. Connect python code to db2.



```
        conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=
SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pbv90190;PWD=pEihUI0HD05igFYt;",'','')
```

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.

login.html

```
<html>
  <head>
  <meta charset="UTF-8">
  <title> Login </title>
  <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
  <div align="center">
  <div align="center" class="border">
  <div class="header">
  <h1 class="word">Login</h1>
  </div></br></br></br>
  <h2 class="word">
  <form action="{{ url_for('login') }}" method="post">
  <div class="msg">{{ msg }}</div>
  <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
 <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br></br>
 <input type="submit" class="btn" value="Sign In"></br></br>
 </form>
 </h2>
 <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
 </div>
 </div>
</body>
</html>
```

register.html:

```
<html>

 <head>

 <meta charset="UTF-8">

 <title> Register </title>

 <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">

 </head>

 <body></br></br></br></br></br>

 <div align="center">
 <div align="center" class="border">
 <div class="header">
 <h1 class="word">Register</h1>
 </div></br></br></br>
 <h2 class="word">
 <form action="{{ url_for('register') }}" method="post">
 <div class="msg">{{ msg }}</div>
 <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
 <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br>
 <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox"/></br></br>
 <input type="submit" class="btn" value="Sign Up"></br>
 </form>
 </h2>
 <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
 </div>
 </div>
 </body>
</html>
```

index.html:

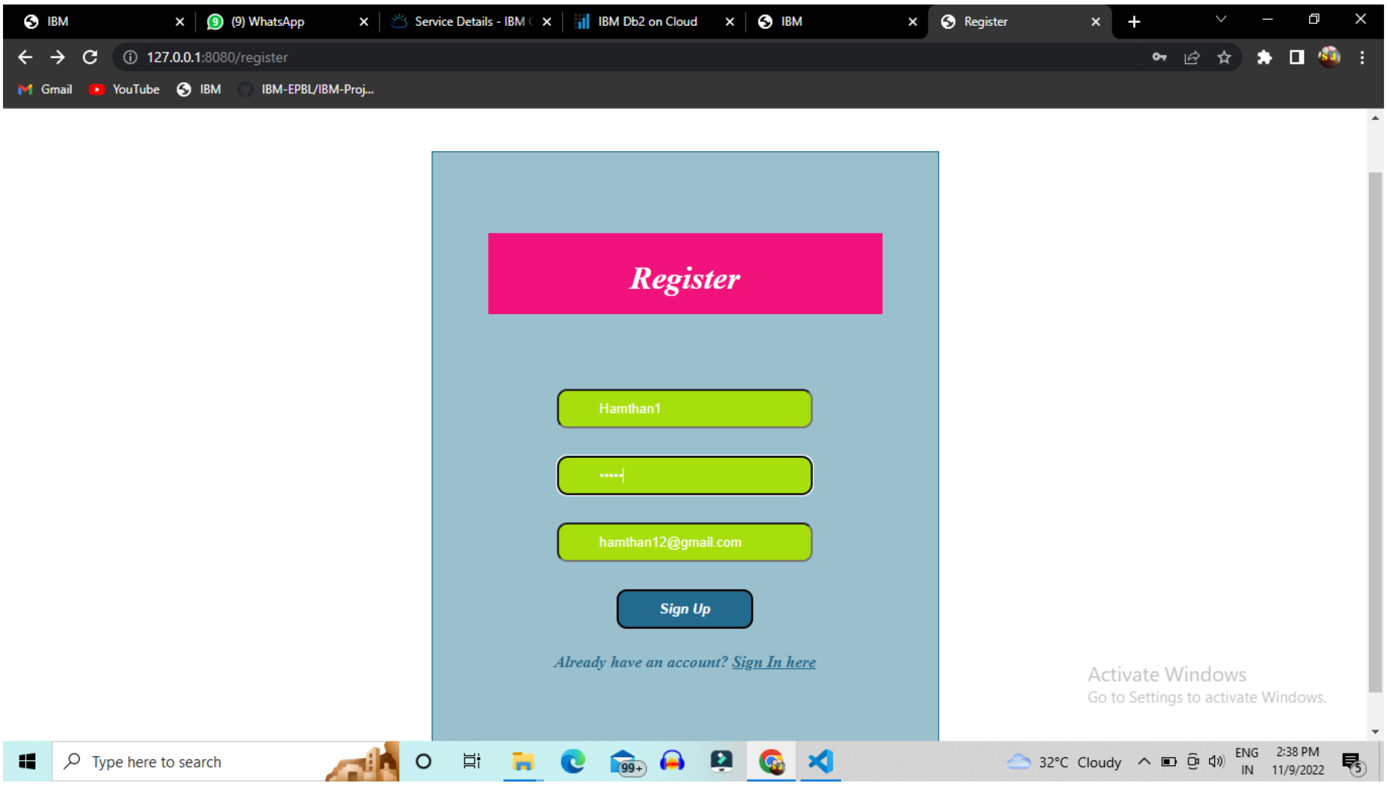
```
<html>
  <head>
  <meta charset="UTF-8">
  <title> Index </title>
  <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
  <div align="center">
  <div align="center" class="border">
  <div class="header">
  <h1 class="word">Index</h1>
  </div></br></br></br>
  <h1 class="bottom">
   Hi {{session.username}}!!</br></br> Welcome to the index page...
 </h1></br></br></br>
```

```
   <a href="{{ url_for('logout') }}" class="btn">Logout</a>
   </div>
   </div>
   </body>
</html>
```

app.py:

```
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=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=
SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pbv90190;PWD=pEihUI0HD05igFYt;",'','')

@app.route('/')
@app.route('/login', methods =['GET', 'POST'])
def login():
   msg = ''
   if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
      username = request.form['username']
      password = request.form['password']
      stmt = ibm_db.prepare(conn,'SELECT * FROM user WHERE username = ? AND password = ?')
      ibm_db.bind_param(stmt,1,username)
      ibm_db.bind_param(stmt,2,password)
      ibm_db.execute(stmt)
      account = ibm_db.fetch_assoc(stmt)
      if account:
         session['loggedin'] = True
         session['username'] = account['USERNAME']
         msg = 'Logged in successfully !'
         return render_template('index.html', msg = msg)
      else:
         msg = 'Incorrect username / password !'
   return render_template('login.html', msg = msg)

@app.route('/logout')
def logout():
  session.pop('loggedin', None)
  session.pop('id', None)
  session.pop('username', None)
  return redirect(url_for('login'))

@app.route('/register', methods =['GET', 'POST'])
def register():
   msg = ''
   if request.method == 'POST' and 'username' in request.form and 'password' in request.form and 'email'
in request.form :
      username = request.form['username']
      password = request.form['password']
      email = request.form['email']
      stmt = ibm_db.prepare(conn,'SELECT * FROM user WHERE username = ?')
      ibm_db.bind_param(stmt,1,username)
      ibm_db.execute(stmt)
      account = ibm_db.fetch_assoc(stmt)
      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 = 'Username must contain only characters and numbers !'
      elif not username or not password or not email:
      msg = 'Please fill out the form !'
      else:
         prep_stmt = ibm_db.prepare(conn,"INSERT INTO user VALUES(?, ?, ?)")
         ibm_db.bind_param(prep_stmt, 1, username)
         ibm_db.bind_param(prep_stmt, 2, email)
         ibm_db.bind_param(prep_stmt, 3, password)
         ibm_db.execute(prep_stmt)
         msg = 'You have successfully registered !'
   elif request.method == 'POST':
      msg = 'Please fill out the form !'
   return render_template('register.html', msg = msg)

if __name__ == '__main__':
   app.debug = True
   app.run(host='0.0.0.0',port=8080)
```

Output:



Register

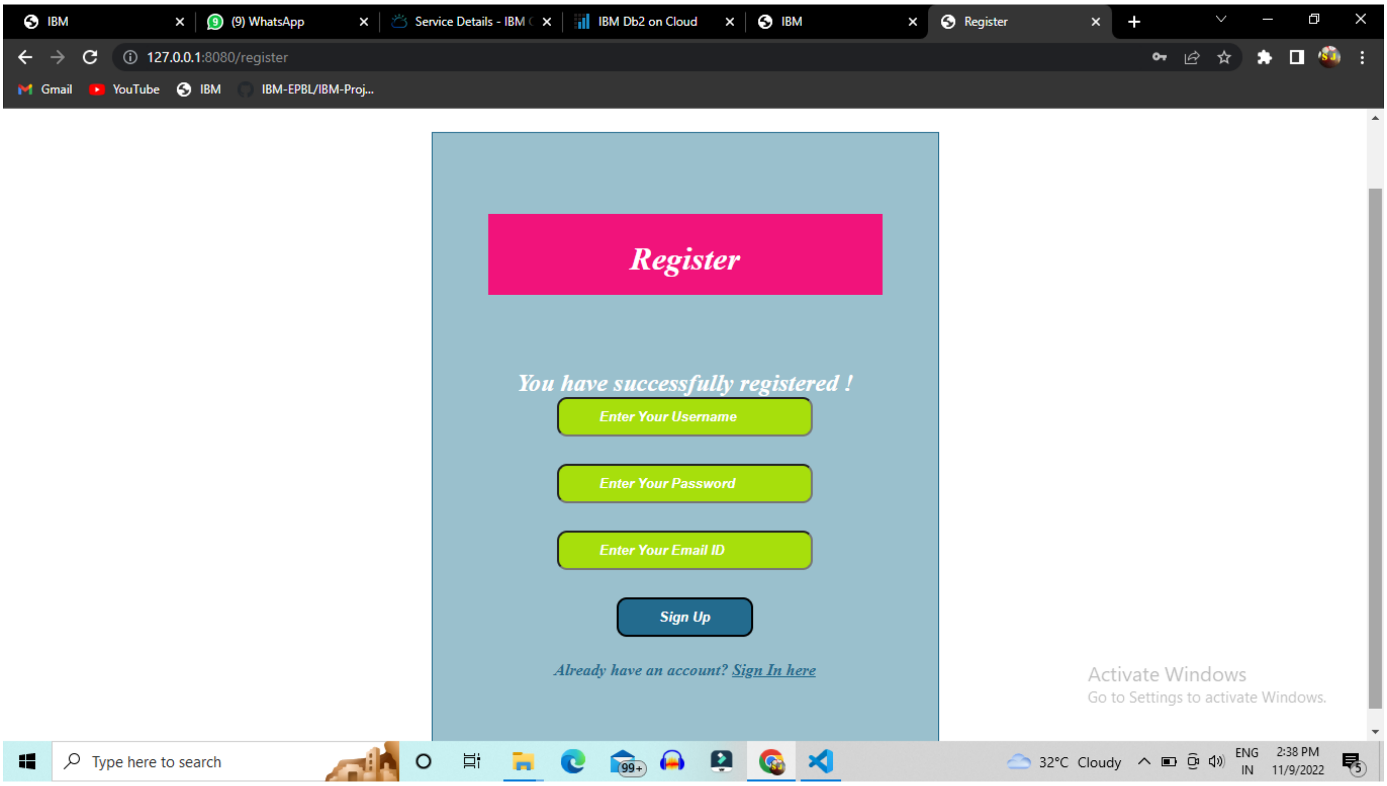
Hamthan1

•••••

hamthan12@gmail.com

Sign Up

Already have an account? Sign In here

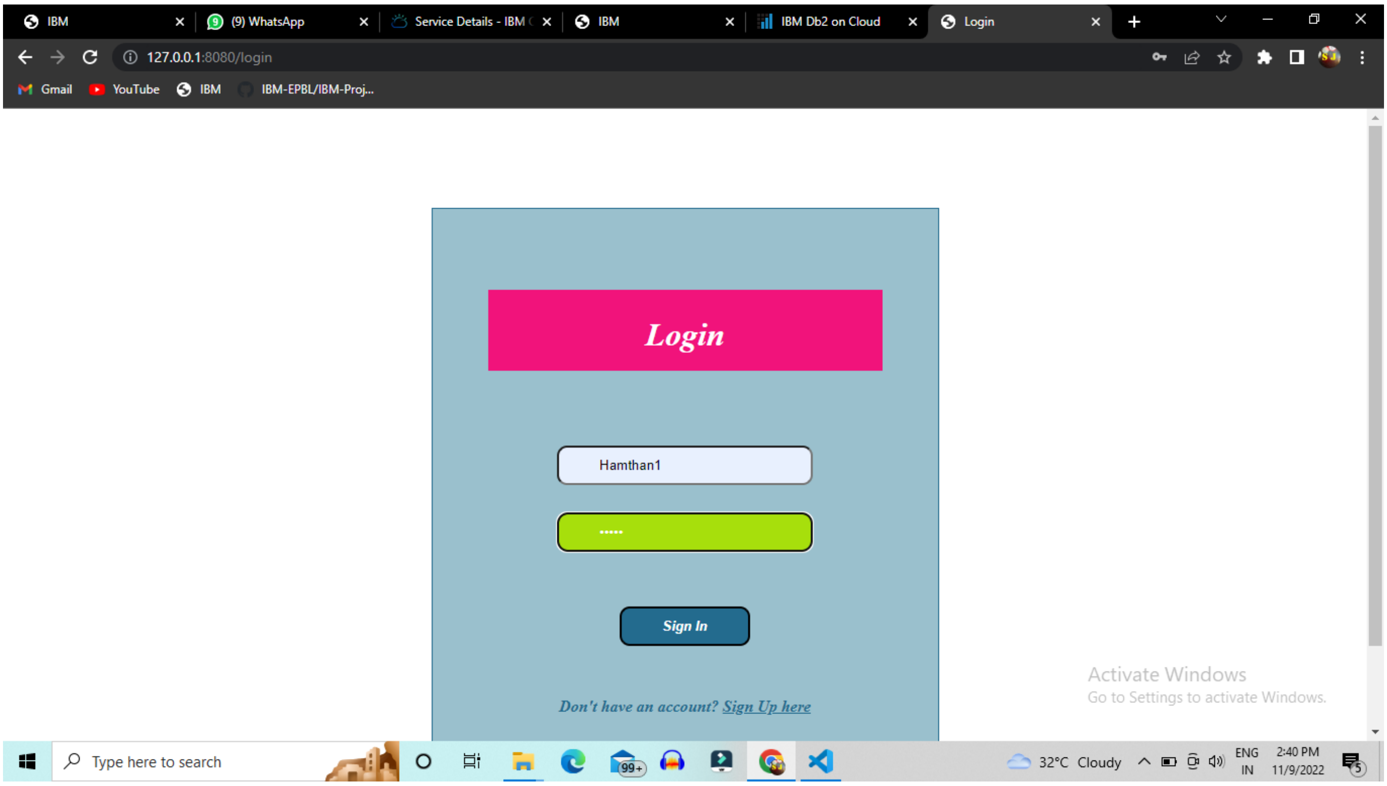


127.0.0.1:8080/register

Register

You have successfully registered !

Already have an account? Sign In here



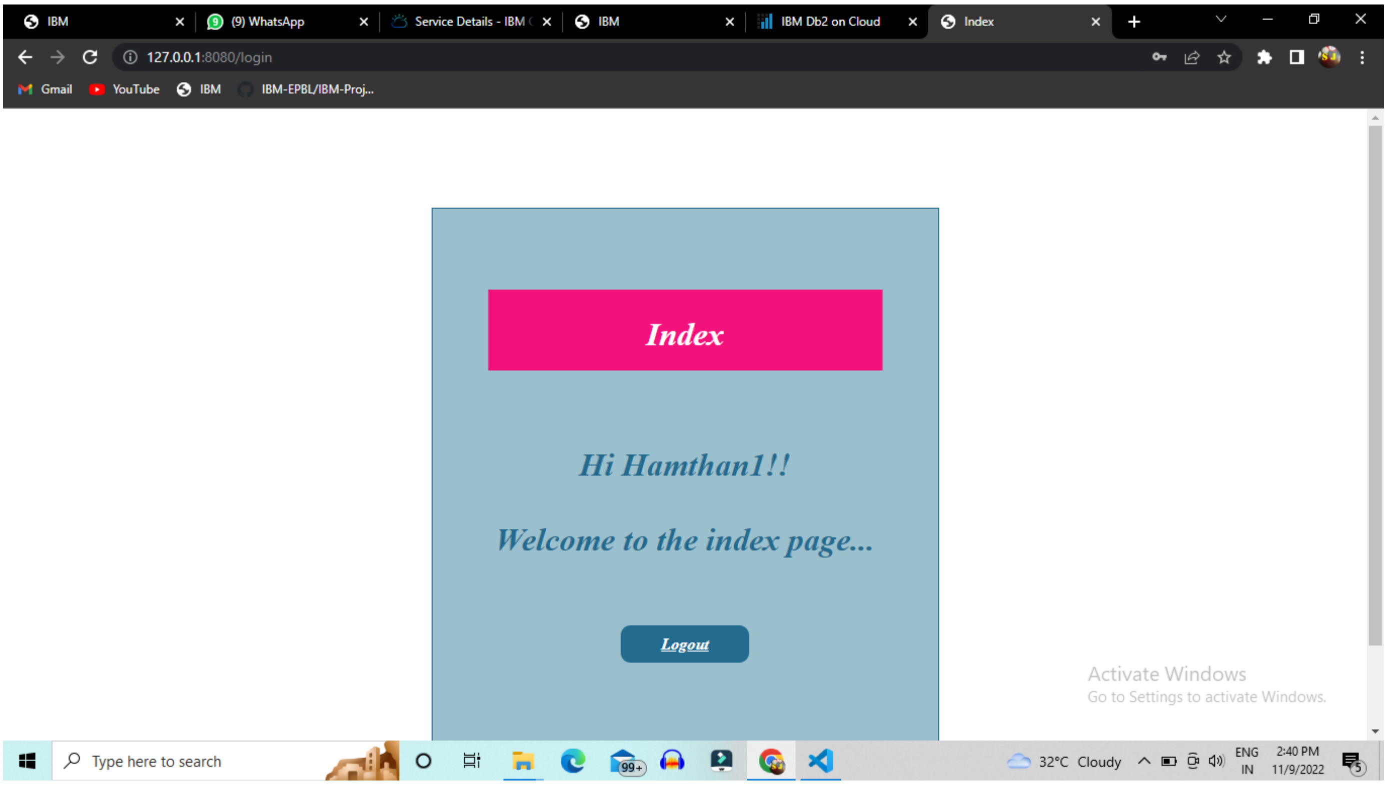
127.0.0.1:8080/login

Login

Hamthan1

•••••

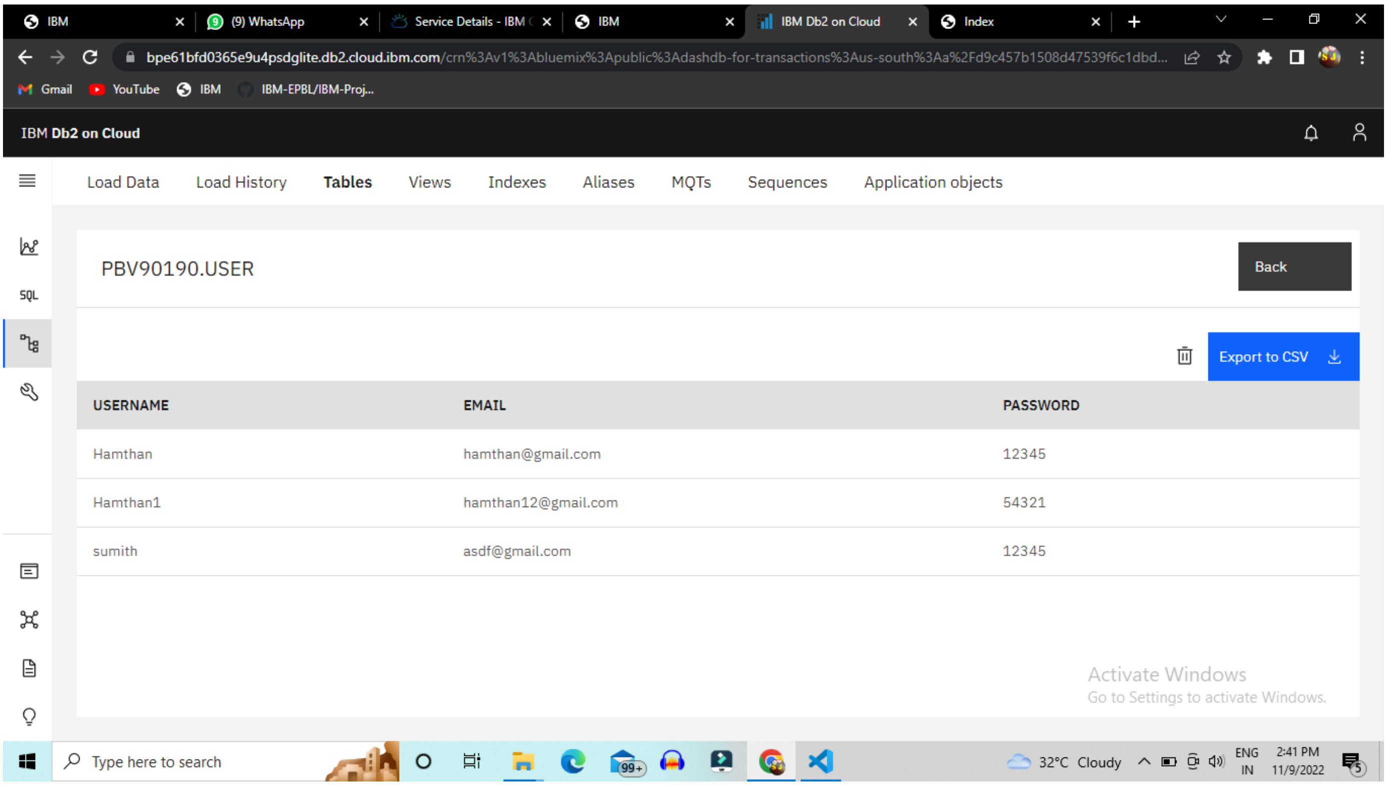
Don't have an account? Sign Up here



Index

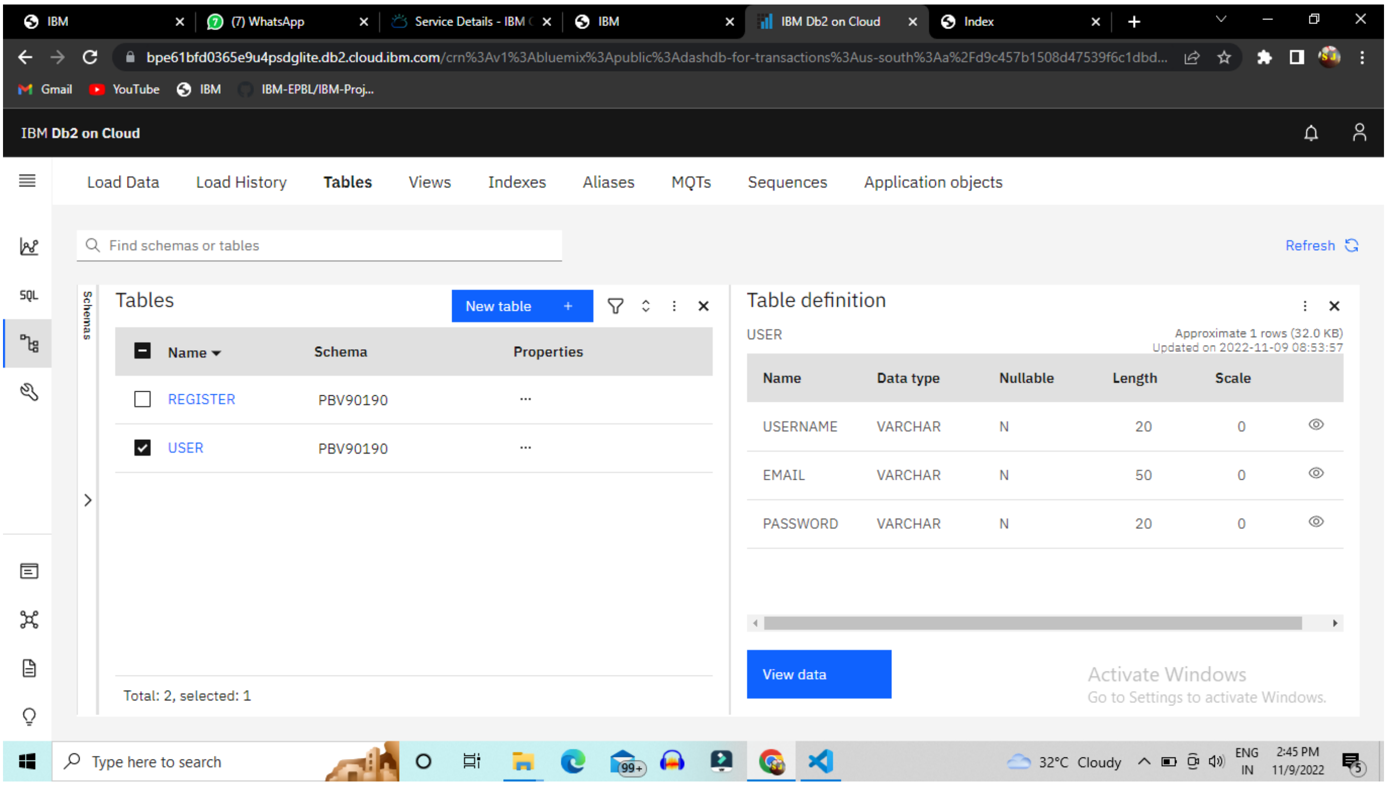
Hi Hamthan1!!

Welcome to the index page...



PBV90190.USER

USERNAME	EMAIL	PASSWORD
Hamthan	hamthan@gmail.com	12345
Hamthan1	hamthan12@gmail.com	54321
sumith	asdf@gmail.com	12345



Tables

☐	Name ▾	Schema	Properties
☐	REGISTER	PBV90190	···
☑	USER	PBV90190	···

Total: 2, selected: 1

Table definition

USER

Approximate 1 rows (32.0 KB)
Updated on 2022-11-09 08:53:57

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	20	0
EMAIL	VARCHAR	N	50	0
PASSWORD	VARCHAR	N	20	0