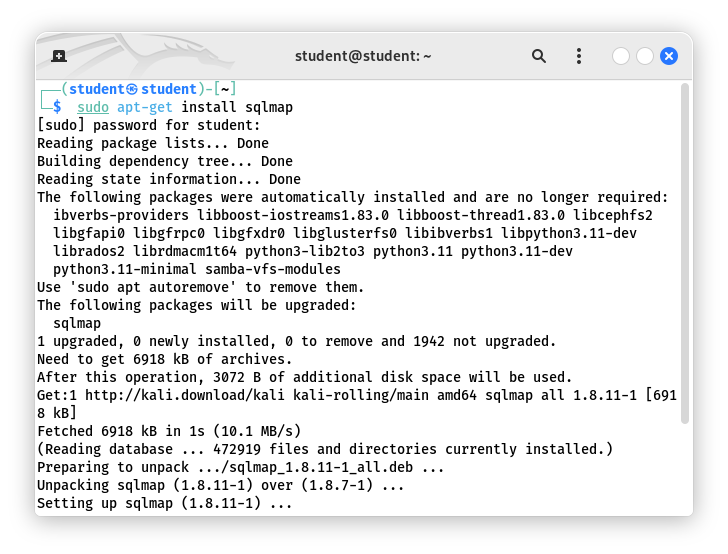
**Lab Practical: 5**

**Study SQL injection and perform SQL injection using DVWA**

**Step:1**

**Open terminal in Kali Linux.**

**Install Apache and PHP**

****

**Step:2**

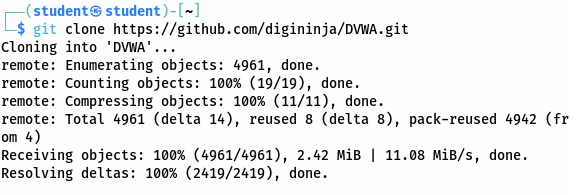
**Sudo apt update**



**Step:3**

**Download DVWA**

**git clone** [**https://github.com/digininja/DVWA.git**](https://github.com/digininja/DVWA.git)

****

**Step:4**

**Move DVWA to the webserver root directory**

**Sudo mv DVWA/var/www/html**



**Step:5**

**Set appropriate permissions:**

**sudo chown -R www-data:www-data /var/www/html/DVW**



**Step:6**

**sudo chmod -R 755 /var/www/html/DVW**



**Step:7**

**Create a database for DVWA:**

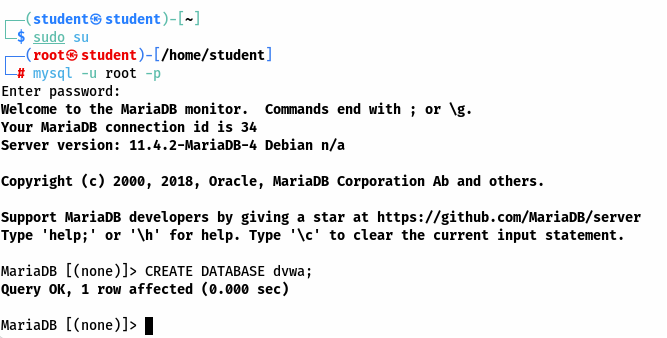
**Mysql start**



**Step:8**

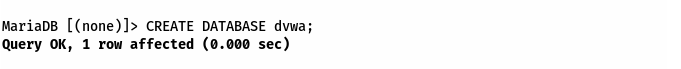
**Login to MySQL**

**Mysql -u root -p**



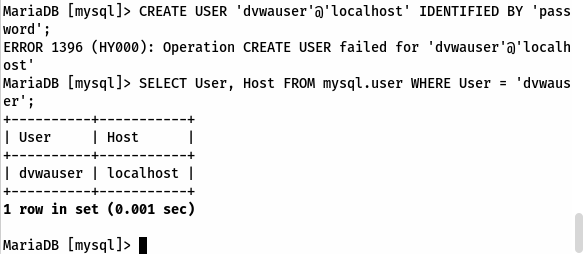
**Step:9**

**CREATE DATABASE dvwa:**



**Step:10**

**CREATE USER 'dvwauser'@'localhost' IDENTIFIED BY 'password'**



**Step:11**

**FLUSH PRIVILENGES**



**Step:12**

**EXIT**



**Configure DVWA:**

**Step:13**

**Edit the config.inc.php file in DVWA**

**Sudo nano/var/www/html/DVWA/config/config.inc.php**



**Step:14**

**Update the database credentials:**

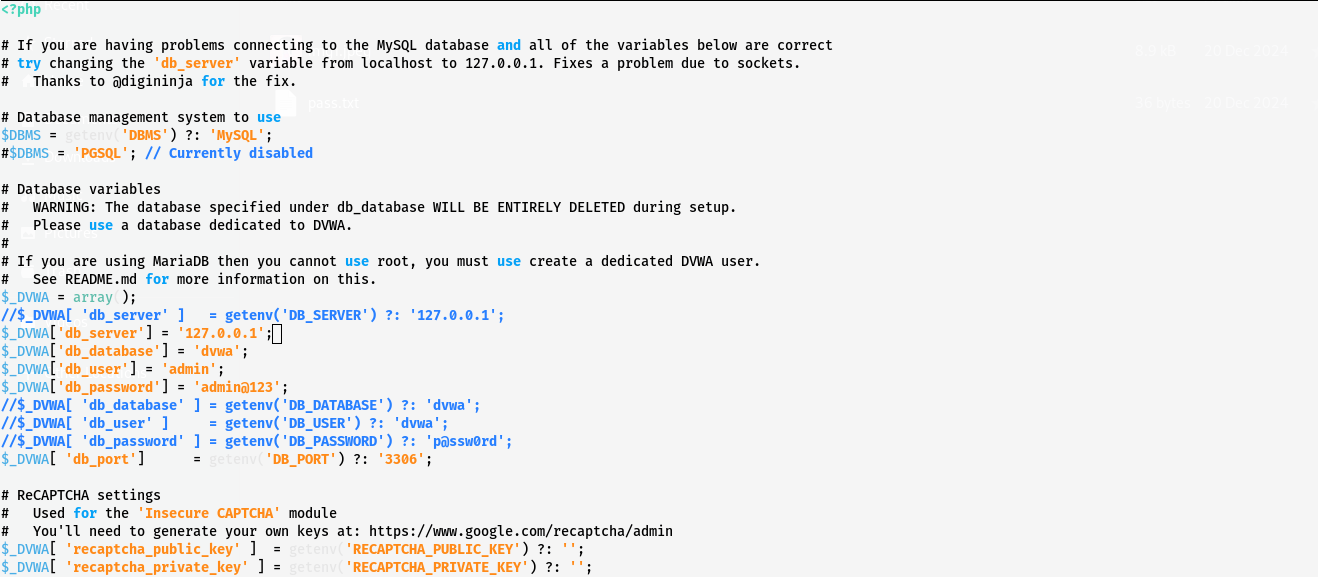
**$\_DVWA=array();**

**$\_DVWA['db\_server'] = '127.0.0.1';**

**$\_DVWA['db\_database'] = 'dvwa';**

**$\_DVWA['db\_user'] = 'dvwauser';**

**$\_DVWA['db\_password'] = 'password'**

****

**Step:15**

**Start Apache:**

**sudo service apache2 star**

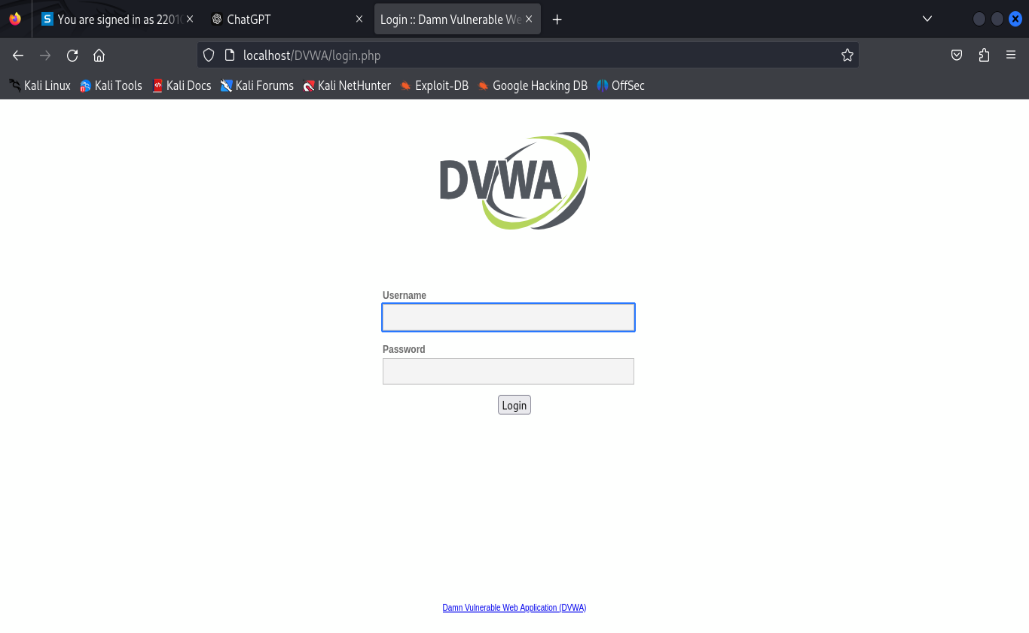


**Performing SQL Injection**

**Step:16**

**Open a browser and navigate to:**

**http://localhost/DVWA**

****

**Step:17**

**Login using the default credentials:**

**Username: admin**

**Password: password**

**Set the Security Level to Low in the DVWA Security tab.**

**Step:18**

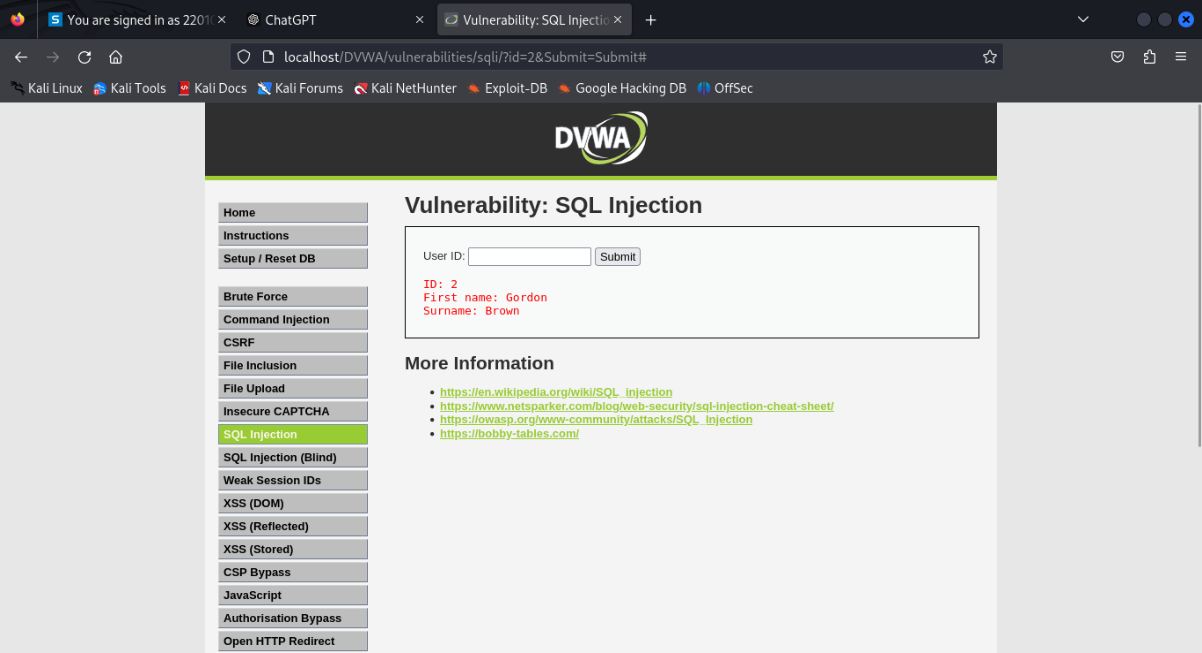
**Navigate to the SQL Injection tab in DVWA**

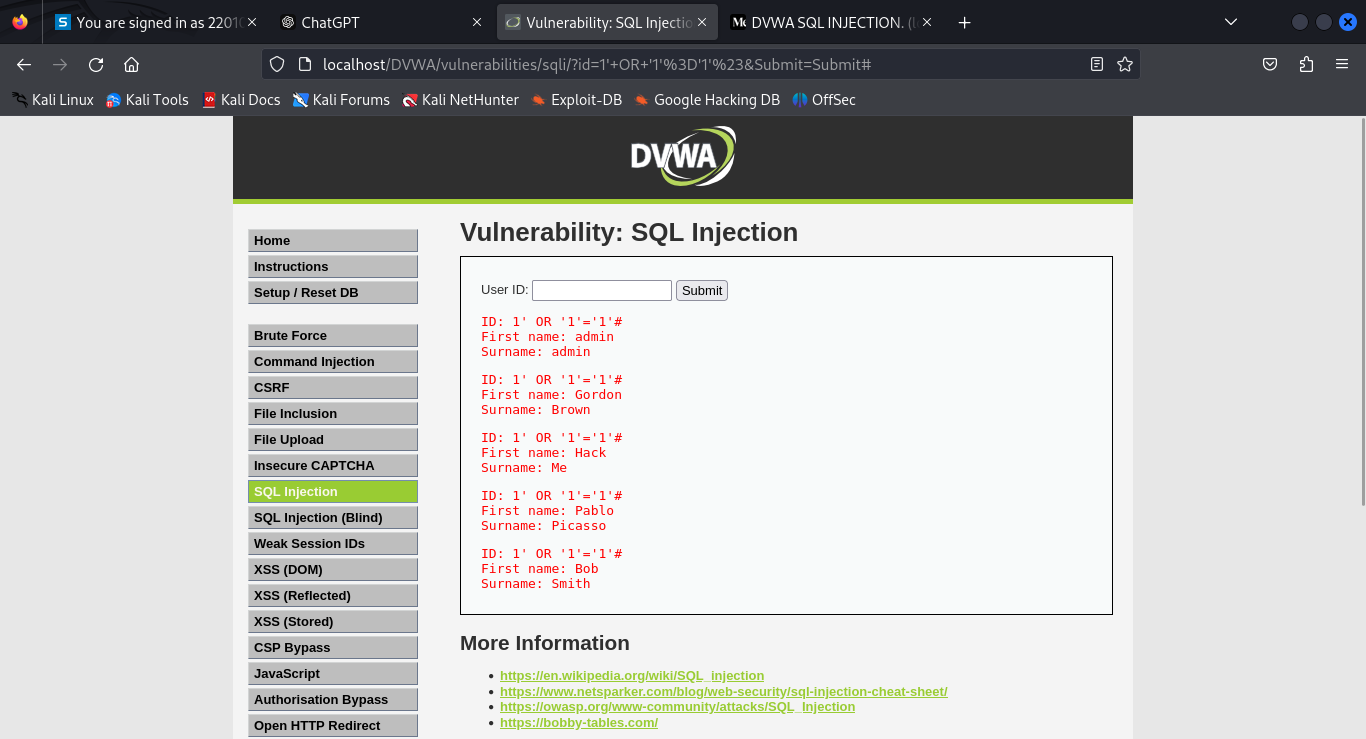
**Use the following SQL payload in the input box**

**For example:**

**ID : 2**

**ID : 1’ OR ‘1’=’1’#**

****

****