# Lab 9.1 SQLi Review

You were exposed to basic SQL Injection in SEC260 - Web and Application Security. It is a very common method of exploitation and deserves some consideration and review in this class.

## Preparation

Mysqld configuration on Kali

```
sudo systemctl enable mysqld
sudo systemctl start mysqld
sudo mysql_secure_installation
```

Note, current root password for mysql is nothing so hit [Enter]

```
Switch to unix_socket authentication [Y/n] n
Change the root password? [Y/n] Y
Remove anonymous users?
Disallow root login remotely? [Y/n] y[Y/n] y
Remove test database and access to it? [Y/n] y
Reload privilege tables now? [Y/n] y
```

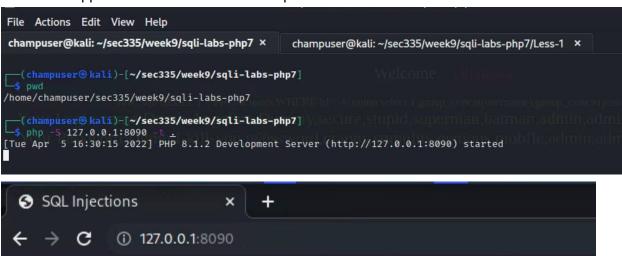
clone the sqli-labs-php git repository

```
mkdir -p ~/sec335/week9
cd ~/sec335/week9
git clone https://github.com/skyblueee/sqli-labs-php7.git
cd sqli-labs-php7
```

#### edit sql-connections/db-creds.inc

### start the application

access the application and click on the Setup/reset Database for labs link.



# <u>SQLi-LABS Page-1(Basic Challenges)</u>

Setup/reset Database for labs

Page-2 (Advanced Injections)

Page-3 (Stacked Injections)

Page-4 (Challenges)



#### **Deliverables**

Add increased error handling and a debug statement for the raw sql as shown below. By default php8 will suppress many of the error messages.

Go through the following SQLi walk through Capture and label screenshots for:

- 1. Display the Login name and password for arbitrary user
- 2. Error condition when number of columns are exceeded
- 3. A Union select that displays your own value for login name and password
- 4. Another union that displays the mysql user and database
- 5. A union that dumps all the tables in the current database
- 6. A union that dumps all the usernames and passwords

Deliverable 7. Figure out how to run sqlmap against the vulnerable uri: http://127.0.0.1:8090/Less-1?id=1

- Run this using Medium Difficulty and Intermediate Enumeration.
- Figure out how to dump the contents of the users table in the security database.
- Provide a screenshot showing the results of dumping the user's table.