Summary:

I utilized CentOS and Kali Linux to perform SQL injections. On CentOS, I setup a LAMP server, created a database and prepared an index.php file to connect the database to. On Kali Linux, I utilized the GUI to access the index.php and perform SQL injections. Finally, I perform countermeasures to safeguard from the injections.

1. Use one of the VMs as the target and install any application or service such as a web site, a database, a FTP server, a DHCP server, etc. (take screenshots of your set up).

This is the installation of the LAMP server and connection of the database to the index.php

Before installing the LAMP server, I executed 'sudo yum update -y' in order to make sure CentOS is up to date.

```
| Meritying | selinos-policy-targeted-3.13.1-229.e17.moarch | 122/129 | Meritying | 7: Non2.2.82.189-6.e17.286_64 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 | 122/129 |
```

Once everything is updated, I began by installing apache: 'Sudo yum install httpd -y'.

```
Size
installing:
httpd
installing for dependencies:
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(2/5): apr-util-1.5.2-6.e17.x86_64.rpm
(3/5): httpd-tools-2.4.6-89.e17.centos.x86_64.rpm
(4/5): apr-1.4.8-3.e17_4.1.x86_64.rpm
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Installing: apr-util-1.5.2-6.el7.x86.64
Installing: mailcap-2.1.41-2.el7.noarch
Installing: mailcap-2.1.41-2.el7.noarch
Installing: httpd-2.4.6-89.el7.centos.x86.64
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Verifying: mailcap-2.1.41-2.el7.noarch
Verifying: httpd-2.4.6-89.el7.centos.x86.64
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```

To check if apache was installed I needed to make sure the virtual machines were able to communicate with one another, so I added another network adapter to each and set them to vmnet2.

Then, on CentOS: 'Sudo vi /etc/sysconfig/network-scripts/ifcfg-ens37', to configure a static IP address. In this case I used 192.168.1.2.

```
DEVICE="ens37"
ONBOOT="yes"
BOOTFROTD="static"
IPADDR=192.168.1.2
NETMASK=255.255.25.8
```

On Kali Linux: 'Sudo vi /etc/network/interfaces', to configure a static IP address. For Kali I used 192.168.1.1.

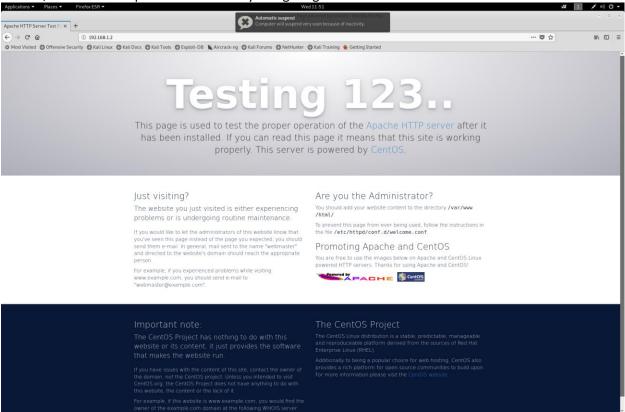


Once the networks are configured, restart each one to ensure the networks are updated. Then, on CentOS configure the firewall to allow apache through: 'sudo firewall-cmd –permanent –add-service=http'. Then, restart the firewall.

```
Service—Into : Intell, restait the lifewall.

Success
Success
Susadmin@server0 ~1$ sudo firewall-cmd --reload
Success
Susadmin@server0 ~1$ __
```

On Kali, confirm that apache is installed by navigating to the CentOS IP.



To ensure apache is activated on system startup: 'Sudo systemctl enable httpd.service'

[sysadmin@server@ ~1\$ sudo systemctl enable httpd.service Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service. [sysadmin@server@ ~1\$ Now, time to install the database: 'Sudo yum install maria-server mariadb –y'.

```
me to install the database: 'Sud

1:perl-parent-8.225-244.e17.noarch
4:perl-5.16.3-294.e17_6.x86_64

perl-Net-Dacmon-8.48-5.e17.noarch
4:perl-1ibs-5.16.3-294.e17_6.x86_64

perl-File-Temp-8.23.81-3.e17.noarch
1:perl-File-Temp-8.23.81-3.e17.noarch
1:perl-Fod-Simple-3.28-4.e17.noarch
1:perl-Fine-Local-1.2388-2.e17.noarch
1:perl-Fine-Local-1.2388-2.e17.noarch
1:perl-Fine-Local-1.2388-2.e17.noarch
1:perl-Fine-Local-1.2388-2.e17.86_64

perl-Socket-2.818-4.e17.x86_64

perl-Binode-2.51-7.e17.x86_64

perl-Fine-Hilbs-1.9725-3.e17.x86_64

perl-Fine-Hilbs-1.9725-3.e17.x86_64

perl-Fod-parent-5.14.e17.noarch
1:perl-Compress-8.au-Zii-2.961-4.e17.x86_64

perl-Fine-Hilbs-3.284.e17.noarch
1:mariadb-server-5.5.68-1.e17_5.x86_64

perl-Fine-Hilbs-3.284.e17.noarch
1:mariadb-server-5.5.68-1.e17_5.x86_64

perl-Fine-Perl-Roc-3.284.e17.noarch
1:perl-File-Fath-2.99-2.e17.noarch
1:perl-File-Fath-2.99-2.e17.noarch
1:perl-File-Fath-2.99-2.e17.noarch
1:perl-Filter-1.49-3.e17.x86_64

perl-Filter-1.49-3.e17.x86_64
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mariadb.x86_64 1:5.5.60-1.el7_5
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perl.x86.64 4:5.16.3-294.e17_6
perl-Compress-Rau-Z11b.x86.64 1:2.861-4.e17
perl-Data-Dumper.x86.64 8:2.145-3.e17
perl-File-Path. noarch 8:2.89-2.e17
perl-Getopt-Long. noarch 8:2.48-3.e17
perl-Hot-Daemon. noarch 8:8.48-5.e17
perl-Pod-Escapes. noarch 1:1.84-294.e17_6
perl-Pod-Lsage. noarch 1:1.84-294.e17_6
perl-Pod-Lsage. noarch 8:1.638-3.e17
perl-Time-Local. noarch 8:1.2898-2.e17
perl-Time-Local. noarch 8:1.2898-2.e17
perl-macros.x86.64 8:2.45-3.e17
perl-macros.x86.64 8:5.16.3-294.e17_6
perl-threads.x86_64 8:1.87-4.e17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       perl-Carp.noarch 8:1.26-244.e17
perl-DBD-MySQL.x86_64 8:4.823-6.e17
perl-Encode.x86_64 8:2.551-7.e17
perl-File-Temp.noarch 8:0.23.81-3.e17
perl-HTTP-Tiny.noarch 8:0.23.81-3.e17
perl-HTTP-Tiny.noarch 8:0.833-3.e17
perl-Pad-Trools.x86_64 8:3.48-5.e17
perl-Pod-Perldoc.noarch 8:3.28-4.e17
perl-Salar-List-Hitls.x86_64 8:1.27-248.e17
perl-Constant.noarch 8:1.27-2.e17
perl-pod-perl.noarch 8:1.27-2.e17
perl-pad-perl.noarch 1:8.252-244.e17
perl-parent.noarch 8:1.8.252-244.e17
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perl-DB1.x86_64 8:1.627-4.el7
perl-Exporter.moarch 8:5.68-3.el7
perl-Filter.x86_64 8:1.49-3.el7
perl-IO-Compress.moarch 8:2.861-2.el7
perl-PlRPC.moarch 8:8.2828-14.el7
perl-Focket.x86_64 8:2.818-4.el7
perl-Fine-HiRes.x86_64 8:2.818-4.el7
perl-Time-HiRes.x86_64 8:2.818-4.el7
perl-Time-HiRes.x86_64 8:2.818-4.el7
perl-Time-HiRes.x86_64 8:2.818-4.el7
perl-Ibs.x86_64 8:5.16.3-294.el7_6
```

Once mariadb is installed: 'sudo systemctl start mariadb', to start the it.

Then, execute: 'sudo mysql_secure_installation', to configure the mariadb settings.

Finally, execute: 'sudo systemctl enable mariadb.service', to enable activation upon system start up.

```
Set root password? [Y/n] Y
New password:
Ne-enter new password:
Ne-enter new password:
Neloading privilege tables..
... Success!
By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.
          e anonymous users? [Y/n] Y
Success!
 formally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network
 Disallow root login remotely? [Y/n] Y
... Success!
 By default, MariaDB comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.
   emove test database and access to it? [Y/n] Y
- Dropping test database...
... Success!
    Removing privileges on test database...
.. Success!
Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.
Reload privilege tables now? [Y/n] Y
... Success!
  leaning up...
All done! If you've completed all of the above steps, your MariaDB installation should now be secure.
Thanks for using MariaDB!
nams for asing mariago:
[sysadmin@server0 7]$ sudo systemctl enable mariadb.service
Created symlink from /etc/systemd/system/multi-user.target.wants/mariadb.service to /usr/lib/systemd/system/mariadb.service
[sysadmin@server0 7]$
```

Once mariadb is installed we can now create the database.

So, to login: 'mysql -u root -p', and once logged in create a database: 'CREATE DATABASE <NAME>'. For this assignment I simply named the database 'FinalProject'.

```
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 5.5.60-MariaDB MariaDB Server
 Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or 'Nh' for help. Type 'Nc' to clear the current input statement.
MariaDB [(none)]> CREATE DATABASE FinalProject;
Query DK, 1 row affected (0.00 sec)
MariaDB [(none)]> USE FinalProject;
Database changed
MariaDB [FinalProject]> SHOW TABLES;
Empty set (0.80 sec)
 ariaDB [FinalProject]>
```

To fill the database I created two files.

'CreateTables.sql' for the structure of the database

```
REATE TABLE User (
             MUSERID INT AUTO_INCREMENT,
Name VARCHAR(50),
Email VARCHAR(50),
CONSTRAINT PRUSER PRIMARY KEY (UserID)
```

'TestData.sql' to populate the database

```
INSERT INTO User (UserID, Name, Email) VALUES ("", "TestOne", "TestOne@TestOne.com");
INSERT INTO User (UserID, Name, Email) VALUES ("", "TestTwo", "TestTwo@TestTwo.com");
```

To import the files into the database:

```
'mysql –u root –p FinalProject < CreateTables.sql'
```

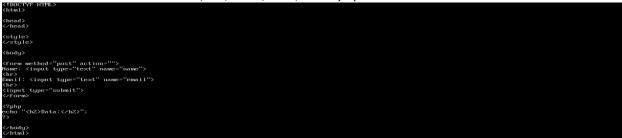
```
[sysadmin@server0 ~1$ mysql -u root -p FinalProject < CreateTables.sql
Enter password:
[sysadmin@server0 ~1$
```

```
'mysql —u root —p FinalProject < TestData.sql'
Enter password:
[sysadmin@server0 ~1$ _
```

Database confirmation

```
sysadmineservere 15 mysql -u root -p rinairroject
iter password:
sading table information for completion of table and column names
ou can turn off this feature to get a quicker startup with -A
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 15
Server version: 5.5.60-MariaDB MariaDB Server
 Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help:' or 'Nh' for help. Type 'Nc' to clear the current input statement.
 ariaDB [FinalProject]> SELECT * FROM User;
  UserID | Name | Email
          1 | TestOne | TestOne@TestOne.com |
2 | TestTwo | TestTwo@TestTwo.com |
  rows in set (0.00 sec)
MariaDB [FinalProject]>
```

Create a PHP file to test: 'Sudo vi /var/www/html/index.php'



PHP confirmation

Data:



Now, I will link 'index.php' to the database

```
<!DOCTY!
<html>
<title>
Final Project
</title>
 <head>
 <style>
table, th, td {
border: 1px solid black;
table {
border-collapse: collapse;
 </style>
   (body)
danc= email
<input type="submit" name="submit">
</form>
<?php
// Database credentials
$dbhost = "localhost";
$dbusername = "root";
$dbpassname = "Fasdfzxcv17";
$dbname = "FinalProject";</pre>
 şadmame ilmiliş
// Create connection
$conn = new mysqli($dbhost, $dbusername, $dbpassword, $dbname);
 // Form to database
$name = $_POST['name'];
$email = $_POST['email'];
 <?php
// Database credentials
$dbhost = "localhost";
$dbhost = "most";
$dbpassword = "most";
$dbpassword = "most"zxcv17";
$dbpassword = "finalProject";
// Create commection
$conn = new mysqli($dbhost, $dbusername, $dbpassword, $dbname);</pre>
   // Form to database
|name = $_POSTI'name'l;
|cmail = $_POSTI'email'l;
  if (isset($_POSTI'submit'1)) {
    $insert = "INSERT INTO User (UserID, Name, Email) Values ('', '$name', '$email')";
    $conn->query($insert);
  echo "{hZ>Data:</hZ>";
$sql = "SELECT * FROM User";
$result = mysqli_query($conn, $sql);
// Output
if ($result->num_rows > 0) {
    echo "def ($result->num_rows > 0) {
        echo "def ($result->fetch assoc()) {
        echo "def ($row = $result->fetch assoc()] {
        echo "def ($row
     echo "";
                           echo "Ø results";
     conn->close();
   </body>
```

Index.php connection to database confirmation

The information in the database is printed to 'index.php' so the connection is successful



Manual submission example 1



Manual submission example 2



Manual submission confirmation

The information that was manually inputted from Kali is stored in the database.

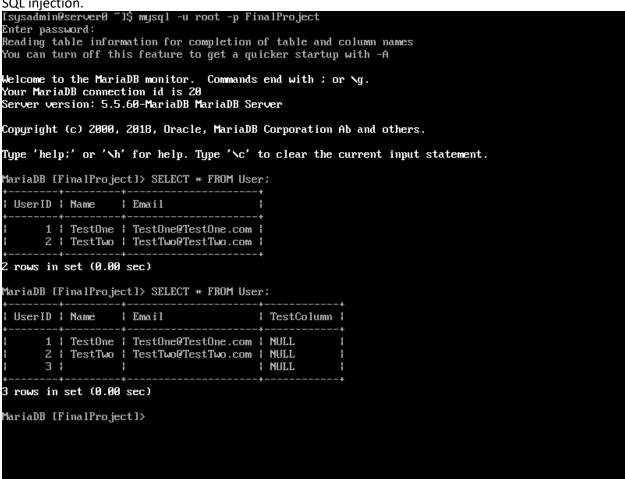
2. Use the second VM as the attacker and execute/extend any attack (that we did not cover in classes) such as Denial of Service Attack, SQL injection, Cross Site Scripting XSS, Form Tampering, etc. (take screenshots of your attacks).

Now that 'index.php' and the database are linked together it is time to perform SQL injections.

For the first injection I entered: "'); ALTER TABLE User ADD TestColumn VARCHAR(50);"



In the mariadb I include the previous table to ensure that SQL injection was performed on the Kali linux side and not within CentOS. So, as seen the table was altered and another column was added due to the SQL injection.



The second injection: "'); DELETE FROM User WHERE UserID=3;"



Again, the previous table and the following table after the SQL injection showing the row with UserID=3 being deleted.

```
[sysadmin@server0 ~1$ mysql -u root -p FinalProject
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 5.5.60-MariaDB MariaDB Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help:' or 'Nh' for help. Type 'Nc' to clear the current input statement.
MariaDB [FinalProject]> SELECT * FROM User:
 UserID | Name
                    : Email
                                           | TestColumn |
       1 | TestOne | TestOne@TestOne.com | NULL
         | TestTwo | TestTwo@TestTwo.com | NULL
       3 1
                                           I NULL
 rows in set (0.00 sec)
MariaDB [FinalProject]> SELECT * FROM User;
 UserID | Name
                    : Email
                                           | TestColumn |
       1 | TestOne | TestOne@TestOne.com | NULL
         | TestTwo | TestTwo@TestTwo.com | NULL
       2
 rows in set (0.00 sec)
MariaDB [FinalProject]>
```

The third injection: "'); ALTER TABLE User DROP COLUMN Email;" 'Index.php' still has the email table head due to it being hardcoded



However, in the database the column 'Email' is removed.

```
MariaDB [FinalProject]> SELECT * FROM User;

! UserID | Name | Email | TestColumn |

! 1 | TestOne | TestOneOTestOne.com | NULL |

! 2 | TestTwo | TestTwoOTestTwo.com | NULL |

3 rows in set (0.00 sec)

MariaDB [FinalProject]> SELECT * FROM User;

! UserID | Name | TestColumn |

! 1 | TestOne | NULL |

2 | TestTwo | NULL |

3 rows in set (0.00 sec)

MariaDB [FinalProject]> NULL |

4 | NULL |

5 | NULL |

4 | Tows in set (0.00 sec)

MariaDB [FinalProject]> ___
```

3. After that, implement countermeasures in the target system to prevent/stop the attack that you perform previously. (take screenshots of the implemented countermeasures, and of the new attempt of attack showing that it failed).

Now it is time to enable countermeasures to prevent the SQL injections that have just occurred.

Lines 26 and 28 I ensured that the Name and Email forms were required to prevent blank submissions.

Lines 43 and 44 I utilize mysqli_real_escape_string() to escape an special characters in the string.

It is always important to sanitize input. In addition to mysqli_real_escape_string() I could have also used trim() or htmlspecialchars() for the \$name variable to remove white spaces or numbers for this variable as names typically do not have spaces or numbers.

Lines 47-50 is input validation for the email to ensure a valid email format is inputted.

It is also important to validate input as well. In addition to validating the email, I could have also validated overlapping usernames if the website were more than just for testing purposes as usernames should typically be unique.

Lines 52-54 is the utilization of prepared statements rather than the previously used execution of SQL statements. Prepared statements transfer the variables using a different protocol than mysqli so the user input does not need to be escaped correctly as before.

```
<!DOCTYPE HTML>
     2 <html>
     3
     4 <title>
     5 Final Project
     6 </title>
     8 <head>
     9 </head>
    10
    11 (style)
    13 table, th, td {
                 border: 1px solid black;
    15 }
    17 table {
                 border-collapse: collapse:
    19 }
    21 </style>
    23 (body)
    25 <form method="post" action="">
    26 Name: <input type="text" name="name" required>
    28 Email: <input type="text" name="email" required>
     29 <br>
     30 <input type="submit" name="submit">
    31 </form>
    33 <?php
    34 // Database credentials
35 $dbhost = "localhost";
36 $dbusername = "root";
set number
```

```
<mark>37</mark> $dbpassword = "Asdfzxc∨17";
38 $dbname = "FinalProject";
    // Create connection
40 $conn = new mysqli($dbhost, $dbusername, $dbpassword, $dbname);
43 $name = $conn->real_escape_string($_POSTI'name']);
44 $email = $conn->real_escape_string($_POSTI'email']);
45
46
47
48
49
50
51
    if (isset($_POST['submit'])) {
             // Email validation
             if(!filter_var($email, FILTER_VALIDATE_EMAIL)) {
    exit;
             $stmt = $conn->prepare("INSERT INTO User (UserID, Name, Email) UALUES (?, ?, ?)");
$stmt->bind_param("iss", $userid, $name, $email);
52
53
             $stmt->execute();
55 }
56
57 echo "<h2>Data:</h2>";
58 $sq1 = "SELECT * FROM User";
59 $result = mysqli_query($conn, $sql);
61 // Output
62 if ($result->num_rows > 0) {
63
             echo "UserIdNameEmail";
             while($row = $result->fetch_assoc()) {
    echo "cho "".$row["UserID"]. "".$row["Name"]. "".$row["Name"]. "
64
65
    w["Email"]. "";
66
             echo "";
67
68
69
70
71
    } else {
             echo "0 results";
```

Execution of the same SQL injections from step 2.



The database for each time an attempt of SQL injection occurs and that it remains the same.

```
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 87
Server version: 5.5.60-MariaDB MariaDB Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or 'Nh' for help. Type 'Nc' to clear the current input statement.
MariaDB [FinalProject]> SELECT * FROM User:
 UserID | Name
                     l Email
       1 | TestOne | TestOne@TestOne.com |
       2 | TestTwo | TestTwo@TestTwo.com |
 rows in set (0.00 sec)
MariaDB [FinalProject]> SELECT * FROM User:
 UserID | Name
                     : Email
       1 | TestOne | TestOne@TestOne.com | 2 | TestTwo | TestTwo@TestTwo.com |
 rows in set (0.00 sec)
MariaDB [FinalProject]> SELECT * FROM User:
                     | Email
 UserID | Name
       1 | TestOne | TestOne@TestOne.com |
       2 | TestTwo | TestTwo@TestTwo.com |
 rows in set (0.00 sec)
MariaDB [FinalProject]>
```