



Quick Reference Guide

Adaptive Server Enterprise
12.5

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Datatypes

Datatypes	Synonyms	Range
Exact numeric datatypes		
tinyint		0 to 255
smallint		-2^{15} (-32,768) to $2^{15}-1$ (32,767)
int	integer	-2^{31} (-2,147,483,648) to $2^{31}-1$ (2,147,483,647) bytes
numeric (<i>p, s</i>)		-10^{38} to $10^{38}-1$
decimal (<i>p, s</i>)	dec	-10^{38} to $10^{38}-1$
Approximate numeric datatypes		
float (<i>precision</i>)		Machine dependent
double precision		Machine dependent
real		Machine dependent
Money datatypes		
smallmoney		-214,748.3648 to 214,748.3647
money		-922,337,203,685,477.5808 to 922,337,203,685,477.5807
Date/time datatypes		
smalldatetime		January 1, 1900 to June 6, 2079
datetime		January 1, 1753 to December 31, 9999
Character datatypes		
char(<i>n</i>)	character	255 characters or fewer
varchar(<i>n</i>)	char[acter] varying	255 characters or fewer
nchar(<i>n</i>)	national char[acter]	255 characters or fewer
nvarchar(<i>n</i>)	nchar varying, national char[acter] varying	255 characters or fewer
Binary datatypes		
binary(<i>n</i>)		255 bytes or fewer
varbinary(<i>n</i>)		255 bytes or fewer
Bit datatype		
bit		0 or 1
Text and image datatype		
text		$2^{31}-1$ (2,147,483,647) bytes or fewer
image		$2^{31}-1$ (2,147,483,647) bytes or fewer

Reserved Words

Transact-SQL reserved words

A

add, all, alter, and, any, arith_overflow, as, asc, at, authorization, avg

B

begin, between, break, browse, bulk, by

C

cascade, case, char_convert, check, checkpoint, close, clustered, coalesce, commit, compute, confirm, connect, constraint, continue, controlrow, convert, count, create, current, cursor

D

database, dbcc, deallocate, declare, default, delete, desc, disk distinct, double, drop, dummy, dump

E

else, end, endtran, errlvl, errordata, errexit, escape, except, exclusive, exec, execute, exists, exit, exp_row_size, external

F

fetch, fillfactor, for, foreign, from

G

goto, grant, group

H

having, holdlock

I

identity, identity_gap, identity_insert, identity_start, if, in, index, insert, install, intersect, into, is, isolation

J

jar, join

K

key, kill

L

level, like, lineno, load, lock

M

max, max_rows_per_page, min, mirror, mirrorexit, modify

N

national, noholdlock, nonclustered, not, null, nullif, numeric_truncation

O

of, off, offsets, on, once, online, only, open, option, or, order, over

P

partition, perm, permanent, plan, precision, prepare, primary, print, privileges, proc, procedure, processexit, proxy_table, public

Q

quiesce

R

raiserror, read, readpast, readtext, reconfigure, references remove, reorg, replace, replication, reservepagegap, return, revoke, role, rollback, rowcount, rows, rule

S

save, schema, select, set, setuser, shared, shutdown, some, statistics, stripe, sum, syb_identity, syb_restree

T

table, temp, temporary, textsize, to, tran,
transaction, trigger, truncate, tsequal

U

union, unique, unpartition, update, use, user,
user_option, using

V

values, varying, view

W

waitfor, when, where, while, with, work,
writetext

SQL92 reserved words**A**

absolute, action, allocate, are, assertion

B

bit, bit_length, both

C

cascaded, case, cast, catalog, char,
char_length, character, character_length,
coalesce, collate, collation, column,
connection, constraints, corresponding, cross,
current_date, current_time, current_timestamp,
current_user

D

date, day, dec, decimal, deferrable, deferred,
describe, descriptor, diagnostics, disconnect,
domain

E

end-exec, exception, extract

F

false, first, float, found, full

G

get, global, go

H

hour

I

immediate, indicator, initially, inner, input,
insensitive, int, integer, interval

J

join

L

language, last, leading, left, local, lower

M

match, minute, module, month

N

names, natural, nchar, next, no, nullif, numeric

O

octet_length, outer, output, overlaps

P

pad, partial, position, preserve, prior

R

real, relative, restrict, right

S

scroll, second, section, session_user, size,
smallint, space, sql, sqlcode, sqlerror,
sqlstate, substring, system_user

T

then, time, timestamp, timezone_hour,
timezone_minute, trailing, translate,
translation, trim, true

Potential SQL92 reserved words

U
unknown, upper, usage

V
value, varchar

W
when, whenever, write, year

Z
zone

Potential SQL92 reserved words

A
after, alias, async

B
before, boolean, breadth

C
call, completion, cycle

D
data, depth, dictionary

E
each, elseif, equals

G
general

I
ignore

L
leave, less, limit, loop

M
modify

N
new, none

O
object, oid, old, operation, operators, others

P
parameters, pendant, preorder, private, protected

R
recursive, ref, referencing, resignal, return, returns, routine, row

S
savepoint, search, sensitive, sequence, signal, similar, sqlexception, structure

T
test, there, type

U
under

V
variable, virtual, visible

W
wait, without

Transact-SQL Functions

abs

`abs(numeric_expression)`

acos

`acos(cosine)`

ascii

`ascii(char_expr | uchar_expr)`

asin

`asin(sine)`

atan

`atan(tangent)`

atn2

`atn2(sine, cosine)`

avg

`avg([all | distinct] expression)`

ceiling

`ceiling(value)`

char

`char(integer_expr)`

charindex

`charindex(expression1, expression2)`

char_length

`char_length(char_expr | uchar_expr)`

col_length

`col_length(object_name, column_name)`

col_name

`col_name(object_id, column_id[, database_id])`

compare

`compare(char_expression1 | uchar_expression1),
(char_expression2 | uchar_expression2)
[, { collation_name | collation_ID }]`

convert

`convert(datatype [(length) |
(precision[, scale])]
[null | not null], expression [, style])`

cos

`cos(angle)`

cot

`cot(angle)`

count

`count([all | distinct] expression)`

curunreservedpgs

curunreservedpgs(*dbid*, *lstart*, *unreservedpgs*)

data_pgs

data_pgs(*object_id*,
{ *data_oam_pg_id* | *index_oam_pg_id* })

datalength

datalength(*expression*)

dateadd

dateadd(*date_part*, *integer*, *date*)

datediff

datediff(*datepart*, *date1*, *date2*)

datename

datename(*datepart*, *date*)

datepart

datepart(*date_part*, *date*)

db_id

db_id(*database_name*)

db_name

db_name([*database_id*])

degrees

degrees(*numeric*)

difference

difference(*char_expr1* | *uchar_expr1*),
(*char_expr2* | *char_expr2*)

exp

exp(*approx_numeric*)

floor

floor(*numeric*)

getdate

getdate()

hextoint

hextoint(*hexadecimal_string*)

host_id

host_id()

host_name

host_name()

index_col

index_col(*object_name*, *index_id*, *key_#*
[, *user_id*])

index_colorder

index_colorder(*object_name*, *index_id*, *key_#*
[, *user_id*])

inttohex

inttohex(*integer_expression*)

isnull

```
isnull(expression1, expression2)
```

is_sec_service_on

```
is_sec_service_on(security_service_nm)
```

lct_admin

```
lct_admin( { { "lastchance" | "logfull" },
            database_id
            | "reserve", {log_pages | 0 }
            | "abort", process-id[, database-id] } )
```

license_enabled

```
license_enabled( "ase_server" | "ase_ha" |
                 "ase_dtm" | "ase_java" | "ase_asm" )
```

log

```
log(approx_numeric )
```

log10

```
log10(approx_numeric )
```

lower

```
lower( char_expr | uchar_expr )
```

ltrim

```
ltrim( char_expr | uchar_expr )
```

max

```
max(expression)
```

min

```
min(expression)
```

mut_excl_roles

```
mut_excl_roles(role1, role2
               [ membership | activation ] )
```

object_id

```
object_id(object_name)
```

object_name

```
object_name(object_id[, database_id] )
```

patindex

```
patindex("%pattern%", char_expr | uchar_expr
         [, using { bytes | characters | chars } ] )
```

pi

```
pi( )
```

power

```
power(value, power)
```

proc_role

```
proc_role("role_name")
```

ptn_data_pgs

```
ptn_data_pgs(object_id, partition_id)
```

radians

```
radians(numeric)
```

rand

rand

rand([integer])

replicate

replicate(char_expr | uchar_expr, integer_expr)

reserved_pgs

reserved_pgs(object_id, { doampg | ioampg })

reverse

reverse(expression | uchar_expr)

right

right(expression, integer_expr)

role_contain

role_contain("role1", "role2")

role_id

role_id("role_name")

role_name

role_name(role_id)

round

round(number, decimal_places)

rowcnt

rowcnt(sysindexes.doampg)

rtrim

rtrim(char_expr | uchar_expr)

show_role

show_role()

show_sec_services

show_sec_services()

sign

sign(numeric)

sin

sin(approx_numeric)

sortkey

sortkey(char_expression | uchar_expression
[, { collation_name | collation_ID }])

soundex

soundex(char_expr | uchar_expr)

space

space(integer_expr)

sqrt

sqrt(approx_numeric)

str

str(approx_numeric[, length [, decimal]])

stuff

```
stuff(char_expr1 | uchar_expr1, start, length,  
char_expr2 | uchar_expr2 )
```

substring

```
substring(expression, start, length)
```

sum

```
sum( [ all | distinct ] expression)
```

user_id

```
user_id( [server_user_name] )
```

user_name

```
user_name( [server_user_id] )
```

syb_sendmsg

```
syb_sendmsg ip_address, port_number, message
```

tan

```
tan(angle)
```

textptr

```
textptr(column_name)
```

textvalid

```
textvalid("table_name.column_name",  
textpointer)
```

tsequal

```
tsequal(browsed_row_timestamp,  
stored_row_timestamp)
```

upper

```
upper(char_expr)
```

used_pgs

```
used_pgs(object_id, doampg, ioampg)
```

user

```
user
```

user_id

```
user_id( [user_name] )
```

user_name

```
user_name( [user_id] )
```

valid_name

```
valid_name(character_expression)
```

valid_user

```
valid_user(server_user_id)
```

Transact-SQL Commands

alter database

```
alter database database_name
  [on { default | database_device } [= size]
  [, database_device [= size ] ] ... ]
  [ log on { default|database_device } [= size]
  [, database_device [= size ] ] ... ]
  [with override]
  [for load]
  [for proxy_update]
```

alter role

```
alter role role1 { add | drop } exclusive
  { membership | activation } role2
alter role role_name [add passwd "password " |
  drop passwd] [lock | unlock]
alter role { role_name | "all overrides" }
  set { passwd expiration | min_passwd length |
  max_failed_logins } option_value
```

alter table

```
alter table [database.[owner].]table_name
  { add column_name datatype
  { default {constant_expression|user|null } }
  { identity | null | not null }
  [ off row | in row ]
  [ [constraint constraint_name]
  { { unique | primary key }
  [ clustered | nonclustered ] [ asc|desc ]
  [with { fillfactor = pct,
  max_rows_per_page = num_rows,
  reservepagegap = num_pages }]}
  [on segment_name]
  | references [[database.]owner.]ref_table
  [ (ref_column) ]
  | check (search_condition) ] ... }
  [, next_column]...
  | add { [constraint constraint_name]
  { unique | primary key }
  [ clustered | nonclustered ]
  (column_name [ asc | desc ]
  [, column_name [ asc | desc ]... ] )
  [with { fillfactor = pct,
  max_rows_per_page = num_rows,
  reservepagegap = num_pages}]}
  [on segment_name]
  |foreign key (col_name[ {, col_name}...])
  references [[database.]owner.]ref_table
  [ (ref_column [ {, ref_column} ...])]
  | check (search_condition) }
  | drop {column_name [, column_name]...
  | constraint constraint_name }
  | modify col_name datatype [ null|not null ]
  [, next_column]...
  | replace column_name
  default { constant_expression|user|null }
  partition number_of_partitions
  unpartition
  { enable | disable } trigger
  lock { allpages | datarows | datapages } }
  with exp_row_size=num_bytes
```

begin...end

```
begin
  statement_block
end
```

begin transaction

```
begin tran[saction] [transaction_name]
```

break

```
while logical_expression
  statement
break
  statement
continue
```

case

```
case
  when search_condition then expression
  [when search_condition then expression]...
  [else expression]
end
```

case and values syntax:

```
case expression
  when expression then expression
  [when expression then expression]...
  [else expression]
end
```

checkpoint

```
checkpoint
```

close

```
close cursor_name
```

coalesce

```
coalesce(expression, expression
  [, expression]...)
```

commit

```
commit [ tran | transaction ] | work ]
  [transaction_name]
```

compute Clause

```
start_of_select_statement
compute row_aggregate ( column_name )
  [, row_aggregate( column_name )]...
[by column_name [, column_name] ...]
```

connect to...disconnect

Component Integration Services only

```
connect to server_name
disconnect
```

continue

```
while boolean_expression
  statement
break
  statement
continue
```

create database

```
create database database_name
  [on { default | database_device } [= size]
  [, database_device [= size] ]...]
  [log on database_device [= size]
  [, database_device [= size] ]...]
  [with {override|default_location =
  "pathname"}]
  [ for { load | proxy_update } ]
```

create default

```
create default [owner.] default_name
  as constant_expression
```

create existing table

create existing table

Component Integration Services only

```
create existing table table_name (column_list)
  [ on segment_name ]
  [ [ external {table|procedure } ] at pathname ]
```

create function

```
create function [owner.]sql_function_name
  ( [ sql_parameter_name sql_datatype
    [ (length) | (precision[, scale] ) ]
    [ [, sql_parameter_name sql_datatype
      [ (length) | (precision[, scale] ) ] ]
    ... ] ) ]
returns sql_datatype
  [ (length) | (precision[, scale] ) ]
[modifies sql data]
[ returns null on null input|called on null
  input ]
[ deterministic | not deterministic ]
[exportable]
language java
parameter style java
external name 'java_method_name
  [ ( [ java_datatype[, java_datatype
    ... ] ) ] ) '
```

create index

```
create [ unique ] [ clustered | nonclustered ]
  index index_name
on [ [ database.]owner. ]table_name
  ( column_name [ asc | desc ]
    [, column_name [ asc | desc ] ]...)
[ with { fillfactor = pct,
  max_rows_per_page = num_rows,
  reservepagegap = num_pages,
  consumers = x, ignore_dup_key, sorted_data,
  [ ignore_dup_row | allow_dup_row ],
  statistics using num_steps values } ]
[ on segment_name ]
```

create plan

```
create plan query plan
  [ into group_name ]
  [ and set @new_id ]
```

create procedure

```
create procedure
[owner.]procedure_name[;number]
  [ [ ( ) @parameter_name
    datatype [(length) | (precision [, scale])]
    [ = default ][ output ]
  [, @parameter_name
    datatype [(length)|(precision [, scale])]
    [ = default ][ output ] ]...[ ) ] ]
[ with recompile ]
as {SQL_statements | external name dll_name}
```

create procedure (SQLJ)

```
create procedure [owner.]sql_procedure_name
  ( [ [in | out | inout] sql_parameter_name
    sql_datatype [ (length) |
      (precision[, scale]) ]
  [, [ in | out | inout ] sql_parameter_name
    sql_datatype [ (length) |
      (precision[, scale]) ... ] ]
  [ modifies sql data ]
  [ dynamic result sets integer ]
  [ deterministic | not deterministic ]
language java
```



```
parameter style java
external name 'java_method_name
  [ ( [java_datatype[, java_datatype...]] ) ]'
```

create proxy_table

Component Integration Services only

```
create proxy_table table_name
  [ external table ] at pathname
```

create role

```
create role role_name [ with passwd "password"
  [, {"passwd expiration"|"min passwd length"|
  "max failed_logins"} option_value ] ]
```

create rule

```
create rule [[ and | or ] access]
  [owner.]rule_name
  as condition_expression
```

create schema

```
create schema authorization authorization_name
  create_object_statement
  [ create_object_statement ... ]
  [ permission_statement ... ]
```

create table

```
create table [database.[owner].]table_name
  (column_name datatype
  [ default {constant_expression|user|null}]
  [ [ { identity | null | not null } ]
  [off row | [in row [(size_in_bytes)]] ]
  [ [constraint constraint_name]
  { { unique | primary key }
  [ clustered | nonclustered ] [ asc | desc ]
  [with { fillfactor = pct,
  max_rows_per_page = num_rows, }
  reservepagegap = num_pages } ]
  [on segment_name]
  | references [[database.]owner.]ref_table
  [ (ref_column) ]
  | check (search_condition) } ] }...
| [constraint constraint_name]
{ { unique | primary key }
[ clustered | nonclustered ]
(column_name [ asc | desc ]
[ { , column_name [ asc | desc ] }... ] )
[with { fillfactor = pct
max_rows_per_page = num_rows ,
reservepagegap = num_pages } ]
[on segment_name]
| foreign key (col_name [{ , col_name}... ])
references [[database.]owner.]ref_table
[ (ref_column [ { , ref_column}... ])]
| check (search_condition) ... }
[ { , { next_column|next_constraint } }... ])
[ lock { datarows | datapages | allpages } ]
[ with { max_rows_per_page = num_rows,
exp_row_size = num_bytes,
reservepagegap = num_pages,
identity_gap = num_values } ]
[ on segment_name ]
[ [ external table ] at pathname ]
```

create trigger

```
create trigger [owner.]trigger_name
  on [owner.]table_name
  for { insert , update, delete }
  as SQL_statements
```

create view

Or, using the if update clause:

```
create trigger [owner.]trigger_name
  on [owner.]table_name
  for { insert , update }
  as
  [if update (column_name)
    [ { and|or } update (column_name)]... ]
  SQL_statements
  [if update (column_name)
    [ { and|or } update (column_name)]...
  SQL_statements]...
```

create view

```
create view [owner.]view_name
  [ (column_name [, column_name]...) ]
  as select [distinct] select_statement
  [with check option]
```

dbcc

```
dbcc checkalloc [ (db_name [, fix | nofix ] ) ]
dbcc checkcatalog [ (db_name) ]
dbcc checkdb [ (db_name [, skip_ncindex] ) ]
dbcc checkstorage [ (db_name) ]
dbcc checktable({table_name|table_id}
  [, skip_ncindex])
dbcc checkverify [ (db_name) ]
dbcc complete_xact (xid, { "commit" |
  "rollback" } )
dbcc forget_xact (xid)
dbcc dbrepair (db_name, dropdb)
dbcc engine({offline, [enginenum] | "online"})
dbcc fix_text ( { table_name | table_id } )
dbcc indexalloc ( { table_name | table_id },
  index_id [, { full | optimized | fast | null }
  [, fix | nofix] ] )
dbcc rebuild_text (table [, column
  [, text_page_number] ] )
dbcc reindex ( { table_name | table_id } )
dbcc tablealloc ( { table_name | table_id }
  [, { full | optimized | fast | null }
  [, fix | nofix] ] ) |
dbcc { traceon|traceoff } (flag [, flag ... ] )
dbcc tune ( { ascinserts, {0|1} , tablename |
  cleanup, { 0 | 1 } |
  cpuaffinity, start_cpu {, on| off } |
  des_greedyalloc, dbid, object_name,
  " { on | off }" |
  deviochar vdevno, "batch_size" |
  doneinproc { 0 | 1 } |
  maxwritedes, writes_per_batch } )
```

deallocate cursor

```
deallocate cursor cursor_name
```

declare

Variable declaration:

```
declare @variable_name datatype
  [, @variable_name datatype]...
```

Variable assignment:

```
select @variable = { expression |
  select_statement } [, @variable = {expression |
  select_statement } ...] [from table_list]
```

```
[where search_conditions]
[group by group_by_list]
[having search_conditions]
[order by order_by_list]
[compute function_list [by by_list] ]
```

declare cursor

```
declare cursor_name cursor
  for select_statement
  [for {read only|update [of col_name_list]]}
```

delete

```
delete [from]
  [[database.]owner.]{ view_name | table_name }
  [where search_conditions]
  [plan "abstract plan"]
delete [ [db.]owner.]{table_name | view_name }
  [from [ [db.]owner.]{view_name [ readpast ] |
  table_name [readpast]
  [ (index {index_name | table_name }
  [ prefetch size ] [lru|mru] ) ] }
  [, [ [database.]owner.]{view_name [readpast] |
  table_name [readpast]
  [ (index {index_name | table_name }
  [ prefetch size ] [ lru | mru ])}] ...]
  [where search_conditions] ]
  [plan "abstract plan"]

delete [from]
  [ [database.]owner.]{ table_name | view_name }
  where current of cursor_name
```

delete statistics

```
delete [shared] statistics table_name
  [(col_name
  [, col_name]... ) ]
```

disk init

```
disk init
  name = "device_name" ,
  physname = "physicalname" ,
  [vdevno = virtual_device_number] ,
  size = number_of_device
  [, vstart = virtual_address]
  cntrltype = controller_number ]
  [, dsync = { true | false } ]
```

disk mirror

```
disk mirror
  name = "device_name" ,
  mirror = "physicalname"
  [, writes = { serial | noserial } ]
  [, contiguous ] (OpenVMS only)
```

disk refit

```
disk refit
```

disk reinit

```
disk reinit
  name = "device_name",
  physname = "physicalname" ,
  [vdevno = virtual_device_number] ,
  size = size_of_device
  [, vstart = virtual_address]
  [, dsync = { true | false } ]
```

disk remirror

```
disk remirror name = "device_name"
```

disk unmirror

```
disk unmirror
  name = "device_name"
  [, side = { "primary" | secondary } ]
  [, mode = { retain | remove } ]
```

drop database

```
drop database database_name
  [, database_name]...
```

drop default

```
drop default [owner.]default_name
  [, [owner.]default_name]...
```

drop function

```
drop func[ction] [owner.]function_name
  [, [owner.]function_name] ...
```

drop index

```
drop index table_name.index_name
  [, table_name.index_name]...
```

drop procedure

```
drop proc[edure] [owner.]procedure_name
  [, [owner.]procedure_name]...
```

drop role

```
drop role role_name [with override]
```

drop rule

```
drop rule [owner.]rule_name
  [, [owner.]rule_name]...
```

drop table

```
drop table [ [database.]owner.]table_name
  [, [ [database.]owner.]table_name ]...
```

drop trigger

```
drop trigger [owner.]trigger_name
  [, [owner.]trigger_name]...
```

drop view

```
drop view [owner.]view_name
  [, [owner.]view_name]...
```

dump database

```
dump database database_name
  to
  [compress::[compress_level::]]stripe_device
  [at backup_server_name]
  [density = density_value,
  blocksize = number_bytes,
  capacity = number_kilobytes,
  dumpvolume = volume_name,
  file = file_name]
  [stripe on
  [compress::[compress_level::]]stripe_device
  [at backup_server_name]
  [density = density_value,
  blocksize = number_bytes,
  capacity = number_kilobytes,
  dumpvolume = volume_name,
  file = file_name] ]
  [[stripe on
  [compress::[compress_level::]]stripe_device
  [at backup_server_name]
  [density = density_value,
  blocksize = number_bytes,
```

```

    capacity = number_kilobytes,
    dumpvolume = volume_name,
    file = file_name] ]... ]
[with {
    density = density_value,
    blocksize = number_bytes,
    capacity = number_kilobytes,
    dumpvolume = volume_name,
    file = file_name,
    [ dismount | nodismount ],
    [ nounload | unload ],
    retaindays = number_days,
    [ noinit | init ],
    notify = { client | operator_console } } ]

```

dump transaction

Making a routine log dump:

```

dump tran[saction] dbname
to
[compress::[compress_level::]]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
capacity = number_kilobytes,
dumpvolume = volume_name,
file = file_name]
[stripe on
[compress::[compressilevel::]]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
capacity = number_kilobytes,
dumpvolume = volume_name,
file = file_name] ]
[ [stripe on
[compress::[compress_level::]]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
capacity = number_kilobytes,
dumpvolume = volume_name,
file = file_name] ]... ]
[with {
    density = density_value,
    blocksize = number_bytes,
    capacity = number_kilobytes,
    dumpvolume = volume_name,
    file = file_name,
    [ dismount | nodismount ],
    [ nounload | unload ],
    retaindays = number_days,
    [ noinit | init ],
    notify = { client | operator_console },
    standby_access } ]

```

Truncating log without making backup copy:

```
dump tran[saction] dbname with truncate_only
```

Backing up log after database device fails:

```

dump tran[saction] dbname
to
[compress::[compress_level::]]stripe_device
[density = density_value,
blocksize = number_bytes,
capacity = number_kilobytes,
dumpvolume = volume_name,
file = file_name]
[stripe on
[compress::[compress_level::]]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
capacity = number_kilobytes,
dumpvolume = volume_name,
file = file_name] ]

```

execute

```
[[stripe on
 [compress::compress_level::]]stripe_device
 [at backup_server_name]
 [density = density_value,
  blocksize = number_bytes,
  capacity = number_kilobytes,
  dumpvolume = volume_name,
  file = file_name] ]... ]
[with {
  density = density_value,
  blocksize = number_bytes,
  capacity = number_kilobytes,
  dumpvolume = volume_name,
  file = file_name,
  [ dismount | nodismount ],
  [ nounload | unload ],
  retaindays = number_days,
  [ noinit | init ],
  no_truncate,
  notify = { client | operator_console } } ]
```

execute

```
[exec[ute] ] [@return_status = ]
[[[server.]db.]owner.]procedure_name[;number]
 [ [@parameter_name =] value |
  [@parameter_name =] @variable [output]
  [, [@parameter_name =] value |
  [@parameter_name =] @variable
  [output]...] ]
[with recompile]
or
  exec[ute] ("string " | char_variable
  [+ "string" | char_variable ]...)
```

fetch

```
fetch cursor_name [ into fetch_target_list ]
```

goto label

```
label:
  goto label
```

grant

Granting permission to access database objects:

```
grant { all [privileges] | permission_list }
  on { table_name [ (column_list) ]
      | view_name [ (column_list) ]
      | stored_procedure_name }
  to { public | name_list | role_name }
  [with grant option]
```

Granting permission to execute certain commands:

```
grant { all [privileges] | command_list }
  to { public | name_list | role_name }
```

Granting a role to a user or a role:

```
grant {role role_granted [, role_granted ...]}
  to grantee [, grantee...]
```

group by and having Clauses

```
Start of select statement
[group by [all] aggregate_free_expression
 [, aggregate_free_expression]...]
[having search_conditions]
End of select statement
```

if...else

```
if logical_expression [plan "abstract plan"]
  statements
[else
```

```
[if logical_expression]
[plan "abstract plan"]
statement]
```

insert

```
insert [into]
[database.[owner.]] {table_name|view_name}
[ (column_list) ]
{ values (expression [, expression]...) |
select_statement [plan "abstract plan"] }
```

kill

```
kill spid
```

load database

```
load database database_name
from [compress::]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name]
[stripe on [compress::]stripe_device
[at backup_server_name ]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name]
[ [stripe on [compress::]stripe_device
[at backup_server_name ]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name] ]... ]
[with {
density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name,
[ dismount | nodismount ],
[ nounload | unload ],
listonly [= full],
headeronly,
notify = { client | operator_console }
} ] ]
```

load transaction

```
load tran[saction] database_name
from [compress::]stripe_device
[at backup_server_name]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name]
[stripe on [compress::]stripe_device
[at backup_server_name ]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name]
[ [stripe on [compress::]stripe_device
[at backup_server_name ]
[density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name]]... ]
[with {
density = density_value,
blocksize = number_bytes,
dumpvolume = volume_name,
file = file_name,
[dismount | nodismount],
```

lock table

```
[nounload | unload],
listonly [= full],
headeronly,
notify = { client | operator_console }
until_time = datetime} ] ]
```

lock table

```
lock table table_name in {share|exclusive} mode
[ wait [ numsecs ] | nowait ]
```

nullif

```
nullif(expression, expression)
```

online database

```
online database database_name [for
standby_access]
```

open

```
open cursor_name
```

order by Clause

```
[Start of select statement]
[order by {[table_name.| view_name.]col_name
| select_list_number | expression} [ asc |
desc ] [, { [table_name.| view_name.]col_name
select_list_number|expression}
[asc|desc]]...
[End of select statement]
```

prepare transaction

```
prepare tran[saction]
```

print

```
print
{format_string | @local_variable |
@global_variable}
[, arg_list]
```

quiesce database

```
quiesce database tag_name hold dbname
[, dbname]
[for external dump]
quiesce database tag_name release
```

raiserror

```
raiserror error_number
[format_string | @local_variable]
[, arg_list]
[with errordata restricted_select_list]
```

readtext

```
readtext [
[database.]owner.]table_name.column_name
text_pointer offset size
[ holdlock | noholdlock ] [readpast]
[ using {bytes | chars | characters} ]
[at isolation {
[ read uncommitted | 0 ] |
[ read committed | 1 ] |
[ repeatable read | 2 ] |
[ serializable | 3 ] } ] ]
```

reconfigure

```
reconfigure
```


remove java

```
remove java
  class class_name [, class_name]...
  | package package_name [, package_name]...
  | jar jar_name [, jar_name]...[retain classes]
```

reorg

```
reorg reclaim_space tablename [indexname]
  [with { resume, time = no_of_minutes } ]
reorg forwarded_rows tablename
  [with { resume, time = no_of_minutes } ]
reorg compact tablename
  [with { resume, time = no_of_minutes } ]
reorg rebuild [ tablename [ indexname ]
```

return

```
return [integer_expression] [plan "abstract
plan"]
```

revoke

Revoking permissions to access database objects:

```
revoke [grant option for]
  { all [privileges] | permission_list }
  on { table_name [ (column_list) ]
      | view_name [ (column_list) ]
      | stored_procedure_name }
  from { public | name_list | role_name }
  [cascade]
```

Revoking permissions to create database objects, execute set proxy, or execute set session authorization:

```
revoke { all [privileges] | command_list }
  from { public | name_list | role_name }
```

Revoking a role from a user or another role:

```
revoke role { role_name [, role_name ...] }
  from { grantee [, grantee ...] }
```

rollback

```
rollback [ tran[saction] | work ]
  [ transaction_name | savepoint_name ]
```

rollback trigger

```
rollback trigger
  [with raiserror_statement]
```

save transaction

```
save transaction savepoint_name
```

select

```
select ::=
  select [ all | distinct ] select_list
  [into_clause]
  [from_clause]
  [where_clause]
  [group_by_clause]
  [having_clause]
  [order_by_clause]
  [compute_clause]
  [read_only_clause]
  [isolation_clause]
  [browse_clause]
  [plan_clause]
  select_list ::=
```

For details on *select_list*, see “Parameters” in the *Reference Manual*.

```
into_clause ::=
  into [[database.]owner.]table_name
  [ lock { datarows | datapages | allpages } ]
  [ with into_option [, into_option] ...]
```

```

into_option ::=
    max_rows_per_page = num_rows
    exp_row_size = num_bytes
    reservepagegap = num_pages
    identity_gap = gap
    [ existing table table_name ]
    [ [ external type ] at "path_name"
    [ column delimiter delimiter ] ]

from_clause ::=
    from table_reference [, table_reference]...

table_reference ::=
    table_view_name | ANSI_join

table_view_name ::=
    [[database.]owner.]
    { { table_name | view_name }
    [as] [correlation_name]
    [index { index_name | table_name } ]
    [parallel [degree_of_parallelism] ]
    [prefetch size] [ lru | mru ] }
    [holdlock | noholdlock ]
    [readpast]
    [shared]

ANSI_join ::=
    table_reference join_type join
    table_reference join_conditions
    join_type ::= inner|left [outer]|right
    [outer]
    join_conditions ::= on search_conditions

where_clause ::=
    where search_conditions

group_by_clause ::=
    group by [all] aggregate_free_expression
    [, aggregate_free_expression]...

having_clause ::=
    having search_conditions

order_by_clause ::=
    order by sort_clause [, sort_clause]...

sort_clause ::=
    { [ [ [database.]owner.]{ table_name.
    | view_name. } ]column_name
    | select_list_number [ expression ]
    | asc | desc ]

compute_clause ::=
    compute row_aggregate(column_name)
    [, row_aggregate(column_name) ]...
    [by column_name [, column_name]...]

read_only_clause ::=
    for {read only | update [of col_name_list]}

isolation_clause ::=
    at isolation
    { read uncommitted | 0 }
    { read committed | 1 }
    { repeatable read | 2 }
    { serializable | 3 }

browse_clause ::=
    for browse

plan_clause ::=
    plan "abstract plan"

```

set

```

set ansinull { on | off }
set ansi_permissions { on | off }
set arithabort [ arith_overflow |
  numeric_truncation ] { on | off }
set arithignore [arith_overflow] { on | off }
set {chained, close on endtran, nocount,
  noexec, parseonly, procid, self_recursion,
  showplan, sort_resources} {on | off}
set char_convert {off | on [with {error |
  no_error}]} |
  charset [with { error | no_error } ] }
set cis_rpc_handling { on | off }
set [clientname client_name | clienthostname
  host_name | clientapplname application_name]
set cursor rows number for cursor_name
set {datefirst number, dateformat format,
  language language}
set fipsflagger { on | off }
set flushmessage { on | off }
set forceplan { on | off }
set identity_insert
  [database.[owner.]]table_name
  { on | off }
set jtc { on | off }
set lock { wait [ numsecs ] | nowait }
set offsets {select, from, order, compute,
  table, procedure, statement, param, execute}
  { on | off }
set parallel_degree number
set plan { dump|load } [group_name] { on|off }
set plan exists check { on | off }
set plan replace { on | off }
set prefetch [ on | off ]
set process_limit_action {abort|quiet|warning}
set proxy login_name
set quoted_identifier { on | off }
set role {"sa_role" | "sso_role" | "oper_role"
  | role_name [with passwd "password"]} {on|off}
set {rowcount number, textsize number}
set scan_parallel_degree number
set session authorization login_name
set sort_merge { on | off }
set statistics {io, subquerycache, time}
  {on|off}
set statistics simulate { on | off }
set strict_dtm_enforcement { on | off }
set string_rtruncation { on | off }
set stringsize number
set table count number
set textsize {number}

```

setuser

```
set transaction isolation level {
  [ read uncommitted | 0 ] |
  [ read committed | 1 ] |
  [ repeatable read | 2 ] |
  [ serializable | 3 ] }
set transactional_rpc { on | off }
```

setuser

```
setuser ["user_name"]
```

shutdown

```
shutdown [srvname] [with { wait | nowait } ]
```

truncate table

```
truncate table [ [database.]owner.]table_name
```

union

```
select select_list [into clause]
  [from clause] [where clause]
  [group by clause] [having clause]
[union [all]]
  select select_list
  [from clause] [where clause]
  [group by clause] [having clause] ]...
[order by clause]
[compute clause]
```

update

```
update [[db.]owner.]{table_name|view_name}
  set [[db.]owner.]{table_name.|view_name.}
    column_name1 =
      {expression1|NULL|(select_statement)} |
    variable_name1 =
      {expression1|NULL|(select_statement)}
  [, column_name2 =
      {expression2|NULL|
      (select_statement)}]... |
  [, variable_name2 =
      {expression2 | NULL |
      (select_statement) } ]...
```

```
[from [ [db.]owner.]{view_name [readpast] |
  table_name [readpast]
  [ (index { index_name | table_name }
  [prefetch size][ lru | mru ] ) ] }
  [, [ [db.]owner.]{view_name [readpast] |
  table_name [readpast]
  [ (index { index_name | table_name }
  [prefetch size ][lru|mru] ) ] } ]
...]
```

```
[where search_conditions]
```

```
[plan "abstract plan"]
```

```
update [ [db.]owner.]{table_name|view_name}
  set [[db.]owner.]{table_name.|view_name.}
    column_name1 =
      {expression1|NULL|(select_statement)} |
    variable_name1 =
      {expression1|NULL|(select_statement)}
  [, column_name2 =
      {expression2 |NULL|
      (select_statement)}]... |
  [, variable_name2 =
      {expression2 | NULL |
      (select_statement) } ]...
where current of cursor_name
```

update all statistics

```
update all statistics table_name
```

update partition statistics

```
update partition statistics table_name
  [partition_number]
```

update statistics

```
update statistics table_name
  [ [index_name] | [ (column_list) ] ]
  [using step values]
  [With consumers = consumers ]
update index statistics table_name [index_name]
  [using step values]
  [With consumers = consumers ]
```

use

```
use database_name
```

waitfor

```
waitfor { delay time | time time | erreorexit |
  | processexit | mirrorexit }
```

where Clause

```
where [not] expression comparison_operator
  expression
where [not] expression [not] like
  "match_string"
  [escape "escape_character"]
where [not] expression is [not] null
where [not]
  expression [not] between expression and
  expression
where [not]
  expression [not] in ({value_list|subquery})
where [not] exists (subquery)
where [not]
  expression comparison_operator
  {any|all} (subquery)
where [not] col_name join_operator col_name
where [not] logical_expression
where [not] expression {and|or} [not]
  expression
```

while

```
while logical_expression
  [plan "abstract plan"] statement
```

writetext

```
writetext [[db.]owner.]table_name.col_name
  text_pointer [readpast] [with log] data
```


sp_addsegment

```
sp_addsegment segname, dbname, devname
```

sp_addserver

```
sp_addserver lname [, class [, pname] ]
```

sp_addthreshold

```
sp_addthreshold dbname, segname, free_space,  
proc_name
```

sp_add_time_range

```
sp_add_time_range name, startday, endday,  
starttime, endtime
```

sp_addtype

```
sp_addtype typename,  
phystype [ (length) | (precision [, scale] ) ]  
[, "identity" | nulltype ]
```

sp_addumpdevice

```
sp_addumpdevice { "tape" | "disk" },  
logicalname, physicalname [, tapesize ]
```

sp_adduser

```
sp_adduser loginame  
[, name_in_db [, grpname ] ]
```

sp_altermessage

```
sp_altermessage message_id, parameter,  
parameter_value
```

sp_audit

```
sp_audit option, login_name, object_name  
[, setting ]
```

sp_autoconnect

Component Integration Services only

```
sp_autoconnect server, { true | false }  
[, loginame]
```

sp_bindcache

```
sp_bindcache cachename, dbname  
[, [ownername.]tablename  
[, indexname | "text only" ] ]
```

sp_bindefault

```
sp_bindefault defname, objname [, futureonly]
```

sp_bindexclass

```
sp_bindexclass "object_name", "object_type",  
"scope", "classname"
```

sp_bindmsg

```
sp_bindmsg constrname, msgid
```

sp_bindrule

```
sp_bindrule rulename, objname [, futureonly]
```

sp_cacheconfig

```
sp_cacheconfig [cachename  
[, "cache_size[P|K|M|G]" ] [, logonly|mixed]  
[, strict | relaxed ] ]  
[, "cache_partition=[1|2|4|8|16|32|64]" ]
```

sp_cachestrategy

sp_cachestrategy

```
sp_cachestrategy dbname, [ownername.]tablename
  [, indexname | "text only" | "table only"
  [, { prefetch | mru }, { "on" | "off" } ] ]
```

sp_changedbowner

```
sp_changedbowner loginame [, true ]
```

sp_changegroup

```
sp_changegroup grpname, username
```

sp_checknames

```
sp_checknames
```

sp_checkreswords

```
sp_checkreswords [user_name_param]
```

sp_checksourc

```
sp_checksourc [objname
  [, tablename [, username] ] ]
```

sp_chgattribute

```
sp_chgattribute objname, {"max_rows_per_page" |
  "fillfactor" | "reservepagegap" |
  "exp_row_size" concurrency_opt_threshold },
  optvalue
```

sp_clearpsex

```
sp_clearpsex spid, exeattr
```

sp_clearstats

```
sp_clearstats [loginame]
```

sp_cmp_all_qplans

```
sp_cmp_all_qplans group1, group2 [, mode]
```

sp_cmp_qplans

```
sp_cmp_qplans id1, id2
```

sp_commonkey

```
sp_commonkey tabaname, tabbname, colla, collb
  [, col2a, col2b, ..., col8a, col8b]
```

sp_companion

```
sp_companion
  { server_name
  { ,configure
    [, { with_proxydb | NULL } ]
    [, srvlogin ]
    [, server_password ]
    [, cluster_login ]
    [, cluspassword ] ]
  | drop
  | suspend
  | resume
  | prepare_failback
  | do_advisory }
  { , all
  | help
  | group attribute_name
  | base attribute_name}
```

sp_configure

```
sp_configure [configname [, configvalue] |
  group_name | non_unique_parameter_fragment]
  [ "p|P|k|K|m|M|g|G" ] ]
```


or

```
sp_configure "configuration file", 0, {"write"
|"read"|"verify"|"restore"} "file_name"
```

sp_copy_all_qplans

```
sp_copy_all_qplans src_group, dest_group
```

sp_copy_qplan

```
sp_copy_qplan src_id, dest_group
```

sp_countmetadata

```
sp_countmetadata "configname" [, dbname]
```

sp_cursorinfo

```
sp_cursorinfo [{cursor_level|NULL}]
[, cursor_name]
```

sp_dboption

```
sp_dboption [dbname, optname, { true|false } ]
```

sp_dbrecovery_order

```
sp_dbrecovery_order
[database_name [, rec_order [, force] ] ]
```

sp_dbremap

```
sp_dbremap dbname
```

sp_defaultloc

Component Integration Services only

```
sp_defaultloc dbname, { "defaultloc" | NULL }
[, "defaulttype"]
```

sp_depends

```
sp_depends objname
```

sp_deviceattr

```
sp_deviceattr logicalname, optname, optvalue
```

sp_diskdefault

```
sp_diskdefault logicalname,
{defaulton|defaultoff}
```

sp_displayaudit

```
sp_displayaudit ["procedure"|"object"|"login"|
"database" | "global" | "default_object" |
"default_procedure" [, name] ]
```

sp_displaylevel

```
sp_displaylevel [loginame [, level] ]
```

sp_displaylogin

```
sp_displaylogin [loginame [, expand_up |
expand_down ] ]
```

sp_displayroles

```
sp_displayroles [ grantee_name [, mode ] ]
```

sp_dropalias

```
sp_dropalias loginame
```

sp_drop_all_qplans

```
sp_drop_all_qplans name
```

sp_dropdevice

sp_dropdevice

sp_dropdevice *logicalname*

sp_dropengine

sp_dropengine *engine_number*, *engine_group*

sp_dropexeclass

sp_dropexeclass *classname*

sp_dropextendedproc

sp_dropextendedproc *esp_name*

sp_dropexternlogin

Component Integration Services only

sp_dropexternlogin *remote_server* [, *login_name*]

sp_droplockpromote

sp_droplockpromote { "database" | "table" },
objname

sp_dropgroup

sp_dropgroup *grpname*

sp_dropkey

sp_dropkey *keytype*, *tablename* [, *deptabname*]

sp_droplanguage

sp_droplanguage *language* [, *dropmessages*]

sp_droplogin

sp_droplogin *loginame*

sp_dropmessage

sp_dropmessage *message_num* [, *language*]

sp_drop_qpgroup

sp_drop_qpgroup *group*

sp_drop_qplan

sp_drop_qplan *id*

sp_dropobjectdef

Component Integration Services only

sp_dropobjectdef "*object_name*"

sp_dropremotelogin

sp_dropremotelogin *remoteserver* [, *loginame*
[, *remotename*]]

sp_drop_resource_limit

sp_drop_resource_limit { *name*, *appname* }
[, *rangename*, *limittype*, *enforced*, *action*,
scope]

sp_droprowlockpromote

sp_droprowlockpromote {"database" | "table"},
objname

sp_dropsegment

sp_dropsegment *segname*, *dbname* [, *device*]

sp_dropserver

sp_dropserver *server* [, *droplogins*]

sp_droptreshold

sp_droptreshold *dbname, segname, free_space*

sp_drop_time_range

sp_drop_time_range *name*

sp_droptype

sp_droptype *typename*

sp_dropuser

sp_dropuser *name_in_db*

sp_dumpoptimize

```
sp_dumpoptimize [ "archive_space =
  { maximum | minimum | default }" ]
sp_dumpoptimize [ "reserved_threshold =
  { nnn | default }" ]
sp_dumpoptimize [ "allocation_threshold =
  { nnn | default }" ]
```

sp_estspace

```
sp_estspace table_name, no_of_rows [,
  fill_factor [, cols_to_max
  [, textbin_len [, iosec] ] ] ]
```

sp_export_qpgroup

sp_export_qpgroup *usr, group, tab*

sp_extendsegment

sp_extendsegment *segname, dbname, devname*

sp_extengine

```
sp_extengine 'ejb_server', '{start | stop |
status}'
```

sp_familylock

```
sp_familylock [fpid1 [, fpid2] ]
```

sp_find_qplan

```
sp_find_qplan pattern [, group ]
```

sp_flushstats

sp_flushstats *objname*

sp_forceonline_db

```
sp_forceonline_db dbname,
  { "sa_on" | "sa_off" | "all_users" }
```

sp_forceonline_object

```
sp_forceonline_object dbname, objname, indid,
  { sa_on | sa_off | all_users } [, no_print]
```

sp_forceonline_page

```
sp_forceonline_page dbname, pgid,
  {"sa_on" | "sa_off" | "all_users"}
```

sp_foreignkey

```
sp_foreignkey tablename, pktabname, coll
  [, col2] ... [, col8]
```

sp_freedll

sp_freedll *dll_name*

sp_getmessage

sp_getmessage

sp_getmessage *message_num*, *result* output
[, *language*]

sp_grantlogin

Windows NT only

sp_grantlogin { *login_name* | *group_name* }
["*role_list*" | default]

sp_ha_admin

sp_ha_admin [*cleansessions* | help]

sp_help

sp_help [*objname*]

sp_helppartition

sp_helppartition [*table_name*]

sp_helpcache

sp_helpcache { *cache_name* |
"*cache_size*[P|K|M|G]" }

sp_helpconfig

sp_helpconfig "*configname*", ["*size*"]

sp_helpconfig "number of ccbs"

sp_helpconfig "caps per ccb"

sp_helpconfig "average cap size"

sp_helpconstraint

sp_helpconstraint [*objname*] [, detail]

sp_helpdb

sp_helpdb [*dbname*]

sp_helpdevice

sp_helpdevice [*devname*]

sp_helpextendedproc

sp_helpextendedproc [*esp_name*]

sp_helpexternlogin

Component Integration Services only

sp_helpexternlogin [*remote_server*
[, *login_name*]]

sp_helpgroup

sp_helpgroup [*grpname*]

sp_helpindex

sp_helpindex *objname*

sp_helpjava

sp_helpjava ["class" [, *java_class_name*
[, "detail" | "depends"]] | "jar"
[, *jar_name* [, "depends"]]]

sp_helpjoins

sp_helpjoins *lefttab*, *righttab*

sp_helpkey

sp_helpkey [*tabname*]

sp_listsuspect_page

sp_listsuspect_page

```
sp_listsuspect_page [dbname]
```

sp_lock

```
sp_lock [spid1 [, spid2]]
```

sp_locklogin

```
sp_locklogin [loginame, "{ lock|unlock }"]
```

sp_logdevice

```
sp_logdevice dbname, devname
```

sp_loginconfig

Windows NT only

```
sp_loginconfig ["parameter_name"]
```

sp_logininfo

Windows NT only

```
sp_logininfo [ "login_name" | "group_name" ]
```

sp_logiosize

```
sp_logiosize [ "default" | "size" | "all" ]
```

sp_modifylogin

```
sp_modifylogin account, column, value
```

sp_modify_resource_limit

```
sp_modify_resource_limit {name, appname }  
    , rangename , limittype , limitvalue  
    , enforced , action , scope
```

sp_modifystats

```
sp_modifystats [database].[owner][table_name],  
    column_name,  
    REMOVE_SKEW_FROM_DENSITY
```

or

```
sp_modifystats [db].[owner][table_name],  
    {column_name} [, column_name] [,...] ] },  
    MODIFY_DENSITY,  
    {range | total},  
    {absolute | total},  
    "value"
```

sp_modify_time_range

```
sp_modify_time_range name, startday, endday,  
    starttime, endtime
```

sp_modifythreshold

```
sp_modifythreshold dbname, segname, free_space  
    [, new_proc_name] [, new_free_space]  
    [, new_segname]
```

sp_monitor

```
sp_monitor
```

sp_monitorconfig

```
sp_monitorconfig "configname"
```

sp_object_stats

```
sp_object_stats interval [, top_n  
    [, dbname, objname [, rpt_option ] ] ]
```

sp_passthru

Component Integration Services only

```
sp_passthru server, command, errcode, errmsg,
rowcount
[, arg1, arg2, ... argn]
```

sp_password

```
sp_password caller_passwd, new_passwd
[, loginame]
```

sp_placeobject

```
sp_placeobject segname, objname
```

sp_plan_dbccdb

```
sp_plan_dbccdb [dbname]
```

sp_poolconfig

Creating a memory pool in an existing cache, or changing pool size:

```
sp_poolconfig cache_name
[, "mem_size[P|K|M|G]", "config_poolK"
[, "affected_poolK" ] ]
```

Changing a pool's wash size:

```
sp_poolconfig cache_name, "io_size",
"wash=size[P|K|M|G]"
```

Changing a pool's asynchronous prefetch percentage:

```
sp_poolconfig cache_name, "io_size",
"local async prefetch limit=percent"
```

sp_primarykey

```
sp_primarykey tablename, col1
[, col2, col3, ..., col8]
```

sp_processmail

Windows NT only

```
sp_processmail [subject] [, originator
[, dbuser [, dbname [, filetype
[, separator] ] ] ] ] ]
```

sp_procqmode

```
sp_procqmode [object_name [, detail] ]
```

sp_procxmode

```
sp_procxmode [procname [, tranmode] ]
```

sp_recompile

```
sp_recompile objname
```

sp_remap

```
sp_remap objname
```

sp_remoteoption

```
sp_remoteoption [remoteserver [, loginame
[, remotename [, optname [, optvalue]]]]]
```

sp_remotesql

Component Integration Services only

```
sp_remotesql server, query
[, query2, ... , query254]
```

sp_rename

```
sp_rename objname, newname
```

sp_renamedb

```
sp_renamedb dbname, newname
```

sp_rename_qpgroup

sp_rename_qpgroup

`sp_rename_qpgroup old_name, new_name`

sp_reportstats

`sp_reportstats [loginame]`

sp_revokelgin

Windows NT only

`sp_revokelgin { login_name | group_name }`

sp_role

`sp_role {"grant"|"revoke"}, rolename, loginame`

sp_sendmsg

`sp_sendmsg ip_address, port_number, message`

sp_serveroption

`sp_serveroption [server, optname, optvalue]`

sp_setlangalias

`sp_setlangalias language, alias`

sp_setpglockpromote

`sp_setpglockpromote {"database"|"table"},
objname, new_lwm, new_hwm, new_pct
sp_setpglockpromote server, NULL, new_lwm,
new_hwm, new_pct`

sp_setpsex

`sp_setpsex spid, exeattr, value`

sp_set_qplan

`sp_set_qplan id, plan`

sp_setrowlockpromote

`sp_setrowlockpromote "server", NULL, new_lwm,
new_hwm, new_pct
sp_setrowlockpromote {"database" | "table"},
objname, new_lwm, new_hwm, new_pct`

sp_setsuspect_granularity

`sp_setsuspect_granularity [dbname
[, "database" | "page" [, "read_only"]]]`

sp_setsuspect_threshold

`sp_setsuspect_threshold [dbname [, threshold]]`

sp_showcontrolinfo

`sp_showcontrolinfo
[object_type, object_name, spid]`

sp_showexeclass

`sp_showexeclass [execlassname]`

sp_showplan

`sp_showplan spid, batch_id output, context_id
output, stmt_num output`

Displaying the showplan output for the current SQL statement without specifying the batch_id, context_id, or stmt_num:

`sp_showplan spid, null, null, null`

sp_showpsex

`sp_showpsex [spid]`

sp_spaceused

```
sp_spaceused [objname [,1] ]
```

sp_ssladmin

```
sp_ssladmin { [addcert, certificate_path,
password]
[dropcert, certificate_path]
[ls-cert]
[help] }
```

sp_sysmon

```
sp_sysmon begin_sample
sp_sysmon { end_sample | interval }
[, section [, applmon] ]
sp_sysmon {end_sample|interval} [, applmon]
```

sp_thresholdaction

```
sp_thresholdaction @dbname,
@segment_name,
@space_left,
@status
```

sp_unbindcache

```
sp_unbindcache dbname [, [owner.]tablename
[, indexname | "text only" ] ]
```

sp_unbindcache_all

```
sp_unbindcache_all cache_name
```

sp_unbindefault

```
sp_unbindefault objname [, futureonly]
```

sp_unbindexclass

```
sp_unbindexclass object_name, object_type,
scope
```

sp_unbindmsg

```
sp_unbindmsg constrname
```

sp_unbindrule

```
sp_unbindrule objname [, futureonly]
```

sp_volchanged

```
sp_volchanged session_id, devname, action
[, fname [, vname] ]
```

sp_who

```
sp_who [loginame | "spid"]
```

Catalog Stored Procedures

sp_column_privileges

```
sp_column_privileges table_name [, table_owner  
    [, table_qualifier [, column_name] ] ]
```

sp_columns

```
sp_columns table_name [, table_owner ]  
    [, table_qualifier] [, column_name]
```

sp_databases

```
sp_databases
```

sp_datatype_info

```
sp_datatype_info [data_type]
```

sp_fkeys

```
sp_fkeys phtable_name [, phtable_owner]  
    [, phtable_qualifier] [, fhtable_name]  
    [, fhtable_owner] [, fhtable_qualifier]
```

sp_pkeys

```
sp_pkeys table_name [, table_owner]  
    [, table_qualifier]
```

sp_server_info

```
sp_server_info [attribute_id]
```

sp_special_columns

```
sp_special_columns table_name [, table_owner]  
    [, table_qualifier] [, col_type]
```

sp_sproc_columns

```
sp_sproc_columns procedure_name  
    [, procedure_owner] [, procedure_qualifier]  
    [, column_name]
```

sp_statistics

```
sp_statistics table_name [, table_owner]  
    [, table_qualifier] [, index_name]  
    [, is_unique]
```

sp_stored_procedures

```
sp_stored_procedures [sp_name [, sp_owner  
    [, sp_qualifier] ] ]
```

sp_table_privileges

```
sp_table_privileges table_name [, table_owner  
    [, table_qualifier] ]
```

sp_tables

```
sp_tables [table_name] [, table_owner]  
    [, table_qualifier] [, table_type]
```

System Extended Stored Procedures

xp_cmdshell

```
xp_cmdshell command [, no_output]
```

xp_deletemail

Windows NT only

```
xp_deletemail [msg_id]
```

xp_enumgroups

Windows NT only

```
xp_enumgroups [domain_name]
```

xp_findnextmsg

Windows NT only

```
xp_findnextmsg @msg_id = @msg_id output [,  
type] [, unread_only = { true|false }]
```

xp_logevent

Windows NT only

```
xp_logevent error_number, message [, type]
```

xp_readmail

Windows NT only

```
xp_readmail [msg_id][, recipients output]  
[, sender output]  
[, date_received output]  
[, subject output]  
[, cc output]  
[, message output]  
[, attachments output]  
[, suppress_attach = { true | false } ]  
[, peek = { true | false } ]  
[, unread = { true | false } ]  
[, msg_length output]  
[, bytes_to_skip [output] ]  
[, type [output] ]
```

xp_sendmail

Windows NT only

```
xp_sendmail recipient [; recipient]...  
[, subject]  
[, cc_recipient]...  
[, bcc_recipient]...  
[, { query | message } ]  
[, attachname]  
[, attach_result = { true | false } ]  
[, echo_error = { true | false } ]  
[, include_file [, include_file]...]  
[, no_column_header = { true | false } ]  
[, no_output = { true | false } ]  
[, width]  
[, separator]  
[, dbuser]  
[, dbname]  
[, type]  
[, include_query = { true | false } ]
```

xp_startmail

Windows NT only

```
xp_startmail [mail_user] [, mail_password]
```

xp_stopmail

Windows NT only

```
xp_stopmail
```

dbcc Stored Procedures

sp_dbcc_alterws

```
sp_dbcc_alterws dbname, wsname, "wssize[K|M]"
```

sp_dbcc_configreport

```
sp_dbcc_configreport [dbname]
```

sp_dbcc_createws

```
sp_dbcc_createws dbname, segname, [wsname],  
  wstype, "wssize[ K | M ]"
```

sp_dbcc_deletedb

```
sp_dbcc_deletedb [dbname]
```

sp_dbcc_deletehistory

```
sp_dbcc_deletehistory [cutoffdate [, dbname] ]
```

sp_dbcc_differentialreport

```
sp_dbcc_differentialreport [dbname  
  [, objectname]], [db_op]  
  [, "date1" [, "date2"]]
```

sp_dbcc_evaluatedb

```
sp_dbcc_evaluatedb [dbname]
```

sp_dbcc_faultreport

```
sp_dbcc_faultreport [report_type [, dbname  
  [, objectname [, date] ] ]]
```

sp_dbcc_fullreport

```
sp_dbcc_fullreport [dbname [, objectname  
  [, date] ] ]
```

sp_dbcc_runcheck

```
sp_dbcc_runcheck dbname [, user_proc]
```

sp_dbcc_statisticsreport

```
sp_dbcc_statisticsreport [dbname [, objectname  
  [, date] ] ]
```

sp_dbcc_summaryreport

```
sp_dbcc_summaryreport [dbname [, op_name] ]
```

sp_dbcc_updateconfig

```
sp_dbcc_updateconfig dbname, type, "str1"  
  [, "str2"]
```

Utilities

backupserver

bcksvr.exe in Windows NT

```
backupserver [ -A ] [ -D ] [ -m ] [ -p ] [ -s ]
[ -ctape_config_file ]
[ -Cserver_connections ]
[ -eerror_log_file ]
[ -Iinterfaces_file ]
[ -JSybase_character_set_name ]
[ -LSybase_language_name ]
[ -Msybmultbuf_binary ]
[ -Nnetwork_connections ]
[ -Pactive_service_threads ]
[ -Sb_servername ]
[ -Ttrace_value ]
[ -Vversion_number ]
```

or

```
backupserver -v
```

bcp

Also use for bcp_r, bcp_dce

```
bcp [ [dbame.]owner.]table_name[:slice_number]
{in | out} datafile
[ -labeled ]
[ -c ] [ -E ] [ -n ] [ -N ] [ -Q ] [ -X ]
[ -a display_charset ]
[ -A packet_size ]
[ -b batchsize ]
[ -e errfile ]
[ -f formatfile ]
[ -F firstrow ]
[ -g id_start_value ]
[ -I interfaces_file ]
[ -J client character set ]
[ -K keytab_file ]
[ -L lastrow ]
[ -m maxerrors ]
[ -M LabelName LabelValue ]
[ -P password ]
[ -r row_terminator ]
[ -R remote_server_principal ]
[ -q datafile_charset ]
[ -S server ]
[ -t field_terminator ]
[ -T text_or_image_size ]
-U username
[ -V [security_options] ]
[ -z language ]
[ -Z security_mechanism ]
```

or

```
bcp -v
```

Note: [-N] is for Windows NT only

certauth

```
certauth [-r]
[-C caCert_file]
[-Q request_filename]
[-K caKey_filename]
[-O SignedCert_filename]
[-P caPassword]
[-T valid_time]
```

or

```
certauth -v
```

certpk12

```
certpk12 { -O Pkcs12_file | -I Pkcs12_file }  
[ -C Cert_file ]  
[ -E Pkcs12_password ]  
[ -K Key_file ]  
[ -P key_password ]
```

or

```
certpk12 -v
```

certreq

```
certreq  
[ -F input_file ]  
[ -K PK_filename ]  
[ -P password ]  
[ -R request_filename ]
```

or

```
certreq -v
```

charset

```
charset  
[ -I interface ]  
[ -P password ]  
[ -S server ]  
sort_order  
[ charset ]
```

or

```
charset -v
```

cobpreAlso use for `cobpre_r` and `cobpre_dce`.

```
cobpre [ -a ] [ -b ] [ -c ] [ -d ] [ -e ]  
[ -f ] [ -h ] [ -m ] [ -p ] [ -q ] [ -r ]  
[ -v ] [ -w ] [ -x ]  
[ -B compatibility_mode ]  
[ -C compiler ]  
[ -D database ]  
[ -F fips_level ]  
[ -G [isql_file_name] ]  
[ -I include_path_name ]  
[ -J charset_locale_name ]  
[ -K syntax_level ]  
[ -L [listing_file_name] ]  
[ -N interfacefile_name ]  
[ -O target_file_name ]  
[ -P password ]  
[ -S server_name ]  
[ -T tag ]  
[ -U userid ]  
[ -V version_number ]  
[ -X application_name ]  
[ -Z language_locale_name ]  
[ @options_file ]  
filename[.ext] ...
```

cpreAlso use for `cpre_r` and `cpre_dce`.

```
cpre [ -a ] [ -b ] [ -c ] [ -d ] [ -f ] [ -h ]  
[ -l ] [ -m ] [ -p ] [ -r ] [ -s ] [ -v ]  
[ -w ] [ -x ]  
[ -B compatibility_mode ]  
[ -C compiler ]  
[ -D database ]  
[ -F fips_level ]  
[ -G [isql_file_name] ]  
[ -I include_path_name ]  
[ -J charset_locale_name ]  
[ -K syntax_level ]  
[ -L [listing_file_name] ]  
[ -N interfacefile_name ]  
[ -O target_file_name ]
```

```
[ -P password ]
[ -S server_name ]
[ -T tag ]
[ -U userid ]
[ -V version_number ]
[ -X application_name ]
[ -Z language_locale_name ]
[ @options_file ]
filename[.ext]
```

dataserver

UNIX platforms only

```
dataserver [ -f ] [ -g ] [ -G ] [ -h ] [ -H ]
[ -m ] [ -P ] [ -q ] [ -v ] [ -X ]
[ -a path_to_CAPs_directive_file ]
[ -b master_device_size [k|K|m|M|g|G]]
[ -c config_file_for_server ]
[ -d device_name ]
[ -e path_to_error_log ]
[ -i interfaces_file_directory ]
[ -r mastermirror ]
[ -K keytab_file ]
[ -L config_file_name_for_connectivity]
[ -M shared_memory_repository_directory ]
[ -p sa_login_name ]
[ -r mirror_disk name ]
[ -s servername ]
[ -T trace_flag ]
[ -u { login_name | role_name }
[ -w master | model database ]
[ -y [password] ]
[ -z page_size [ k | K ] ]
```

dataxtr

dataxtr

ddlgen

```
ddlgen
-Uuser_name
-Ppassword
-Shost_name:port_number
[ -Tobject_type ]
```

For a list of valid object types, see Table 6-3 in the *Utility Guide*.

```
[ -Nobject_name ]
[ -Ddb_name ]
[ -Xextended_object_type ]
[ -Ooutput_file_name ]
[ -Error_log_file ]
```

or

```
ddlgen -v
```

defncopy

Also use for defncopy_r, defncopy_dce

UNIX platforms

```
defncopy [ -X ]
[ -a display_charset ]
[ -I interfaces_file ]
[ -J [client_charset] ]
[ -K key_tab ]
[ -P password ]
[ -R remote_server_principal ]
[ -S [server] ]
[ -U username ]
[ -V security_options ]
[ -z language ]
[ -Z security_mechanism ]
{ in filename dbname | out filename dbname
[owner.]objectname [[owner.]objectname...]}
```

dscp

```
or
  defncopy -v
Windows NT:
defncopy
  [ -X ]
  [ -a display_charset ]
  [ -I sqlini_file ]
  [ -J [client_charset] ]
  [ -P password ]
  [ -S server ]
  [ -U username ]
  [ -z language ]
  { in filename dbname | out filename dbname
    [owner.]objectname [ [owner.]objectname].... }
or
  defncopy -v
```

dscp

Also use for `dscp_r`, `dscp_dce`

```
dscp [ -p ]
```

```
or
  dscp -v
```

dsedit

Also use for `dsedit_r`, `dsedit_dce`

```
dsedit
```

```
or
  dsedit -v
```

extractjava

`extrjava.exe` in Windows NT

```
extractjava
  -j jar_name
  -f file_name
  [ -h ] [ -v ]
  [ -a display_charset ]
  [ -D database_name ]
  [ -I interfaces_file ]
  [ -J client_charset ]
  [ -P password ]
  [ -S server_name ]
  [ -t timeout ]
  [ -U user_name ]
  [ -z language ]
```

installjava

`instjava.exe` in Windows NT

```
installjava
  -f file_name
  [ -new ] [ -update ]
  [ -h ] [ -v ]
  [ -a display_charset ]
  [ -D database_name ]
  [ -I interfaces_file ]
  [ -j jar_name ]
  [ -J client_charset ]
  [ -P password ]
  [ -S server_name ]
  [ -t timeout ]
  [ -U user_name ]
  [ -z language ]
```

isql

Also use for `isql_r`, `isql_dce`

```
isql [ -b ] [ -e ] [ -F ] [ -p ] [ -n ] [ -X ]
  [ -Y ] [ -Q ]
  [ -a display_charset ]
  [ -A packet_size ]
  [ -c cmdend ]
```



```

[ -D database ]
[ -E editor ]
[ -h header ]
[ -H hostname ]
[ -i inputfile ]
[ -I interfaces_file ]
[ -J client_charset ]
[ -K keytab_file ] (UNIX only)
[ -l login_timeout ]
[ -m errorlevel ]
[ -M labelname labelvalue ] (UNIX only)
[ -o outputfile ]
[ -P password ]
[ -R remote_server_principal ]
[ -s col_separator ]
[ -S server_name ]
[ -t timeout ]
-U username
[ -V [security_options] ] (UNIX only)
[ -w column_width ]
[ -z localename ]
[ -Z security_mechanism ]

```

or

```
isql -v
```

To terminate a command: go

To clear the query buffer: reset

To call the default editor: vi

To execute an operating system command: !! command

To exit from isql: quit or exit

langinstall

langinst.exe in Windows NT

```

langinstall
[ -I path_to_interfaces_file ]
[ -P password ]
[ -R release_number ]
[ -S server ]
[ -U user ]
language
charset

```

or

```
langinstall -v
```

optdiag

```

optdiag [ binary ] [ simulate ] statistics
{ -i input_file |
  database[.owner[.[table[.column ] ] ] ]
  [ -o output_file ] }
[ -h ] [ -s ] [ -v ]
[ -a display_charset ]
[ -I interfaces_file ]
[ -J client_character_set ]
[ -P password ]
[ -S server ]
[ -T trace_value ]
[ -U username ]
[ -z language ]

```

pwdcrypt

```
pwdcrypt
```

showserver

```
showserver
```

sqldbgr

```

sqldbgr
-U username
-P password
-S host_name:port_number

```

sqlloc

sqlloc

```
sqlloc
[ -I Interfaces_file ]
[ -P Password ]
[ -r Resource_file ]
[ -s Sybase_Dir ]
[ -S Server ]
[ -U User ]
```

or

```
sqlloc -v
```

sqllocres

```
sqllocres
[ -I Interfaces_file ]
[ -P Password ]
[ -r Resource_file ]
[ -s Sybase_Dir ]
[ -S Server ]
[ -U User ]
```

or

```
sqlloc -v
```

sqlsrvr

Windows NT only

```
sqlsrvr
[ -f ] [ -g ] [ -G ] [ -h ] [ -H ] [ -m ]
[ -P ] [ -q ] [ -v ] [ -X ]
[ -a path to CAPS directive file ]
[ -b master_device_size ]
[ -c configuration_file_for_server ]
[ -d device_name ]
[ -e path_to_error_log ]
[ -i sql.ini_file_directory ]
[ -K keytab_file ]
[ -L config_file_name_for_connectivity ]
[ -M shared_memory_repository_directory ]
[ -p sa_login_name ]
[ -r mirror_disk_name ]
[ -s server_name ]
[ -T trace_flag ]
[ -u sa/sso_name ]
[ -w master | model_database ]
[ -y [password] ]
[ -z page_size ]
```

sqlupgrade

```
sqlupgrade
[ -r Resource_File ]
[ -s Sybase_Dir ]
```

or

```
sqlupgrade -v
```

sqlupgraderes

```
sqlupgraderes
[ -r Resource_File ]
[ -s Sybase_Dir ]
```

or

```
sqllocres -v
```

srvbuild

```
srvbuild
[ -I interfaces_file ]
[ -r resource_file ]
[ -s sybase_dir ]
```

or

```
srvbuild -v
```

srvbuildres

```

srvbuildres
  [ -I interfaces_file ]
  [ -r resource_file ]
  [ -s sybase_dir ]

```

or

```

  srvbuildres -v

```

startserver

```

startserver
  [ [ -f runserverfile ] [ -m ] ] ...

```

xpserver

```

xpserver
  -SXP_Server
  [ -u ] [ -v ] [ -x ]
  [ -Iinterfaces_file ]
  [ -ppriority ]
  [ -sstack_size ]

```

