

## Stored Procedures

When you create an application with Microsoft® SQL Server™ 2000, the Transact-SQL programming language is the primary programming interface between your applications and the SQL Server database. When you use Transact-SQL programs, two methods are available for storing and executing the programs. You can store the programs locally and create applications that send the commands to SQL Server and process the results, or you can store the programs as [stored procedures](#) in SQL Server and create applications that execute the stored procedures and process the results.

Stored procedures in SQL Server are similar to procedures in other programming languages in that they can:

- Accept input parameters and return multiple values in the form of output parameters to the calling procedure or batch.
- Contain programming statements that perform operations in the database, including calling other procedures.
- Return a status value to a calling procedure or batch to indicate success or failure (and the reason for failure).

You can use the Transact-SQL EXECUTE statement to run a stored procedure. Stored procedures are different from [functions](#) in that they do not return values in place of their names and they cannot be used directly in an expression.

The benefits of using stored procedures in SQL Server rather than Transact-SQL programs stored locally on client computers are:

- They allow modular programming.

You can create the procedure once, store it in the database, and call it any number of times in your program. Stored procedures can be created by a person who specializes in database programming, and they can be modified independently of the program source code.

- They allow faster execution.

If the operation requires a large amount of Transact-SQL code or is performed repetitively, stored procedures can be faster than batches of Transact-SQL code. They are parsed and optimized when they are created, and an in-memory version of the procedure can be used after the procedure is executed the first time. Transact-SQL statements repeatedly sent from the client each time they run are compiled and optimized every time they are executed by SQL Server.

- They can reduce network traffic.

An operation requiring hundreds of lines of Transact-SQL code can be performed through a single statement that executes the code in a procedure, rather than by sending hundreds of lines of code over the network.

- They can be used as a security mechanism.

Users can be granted permission to execute a stored procedure even if they do not have permission to execute the procedure's statements directly.

A SQL Server stored procedure is created with the Transact-SQL CREATE PROCEDURE statement and can be modified with the ALTER PROCEDURE statement. The stored procedure definition contains two primary components: the specification of the procedure name and its parameters, and the body of the procedure, which contains Transact-SQL statements that perform the procedure's operations.

## System Stored Procedures

Many administrative and informational activities in Microsoft® SQL Server™ can be performed through system stored procedures. The system stored procedures are grouped into these categories.

Category	Description
Active Directory Procedures	Used to register instances of SQL Server and SQL Server databases in Microsoft Windows® 2000 Active Directory™.
Catalog Procedures	Implements ODBC data dictionary functions and isolates ODBC applications from changes to underlying system tables.
Cursor Procedures	Implements cursor variable functionality.
Database Maintenance Plan Procedures	Used to set up core maintenance tasks necessary to ensure database performance.
Distributed Queries Procedures	Used to implement and manage Distributed Queries.
Full-Text Search Procedures	Used to implement and query full-text indexes.
Log Shipping Procedures	Used to configure and manage log shipping.
OLE Automation Procedures	Allows standard OLE automation objects to be used within a standard Transact-SQL batch.
Replication Procedures	Used to manage replication.
Security Procedures	Used to manage security.
SQL Mail Procedures	Used to perform e-mail operations from within SQL Server.
SQL Profiler Procedures	Used by SQL Profiler to monitor performance and activity.
SQL Server Agent Procedures	Used by SQL Server Agent to manage scheduled and event-driven activities.
System Procedures	Used for general maintenance of SQL Server.
Web Assistant Procedures	Used by the Web Assistant.
XML Procedures	Used for Extensible Markup Language (XML) text management.
General Extended Procedures	Provides an interface from SQL Server to external programs for various maintenance activities.

**Note** Unless specifically documented otherwise, all system stored procedures return a value of 0, which indicates success. To indicate failure, a nonzero value is returned.

### Active Directory Procedures

<a href="#">sp_ActiveDirectory_Obj</a>	<a href="#">sp_ActiveDirectory_SCP</a>
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### Catalog Procedures

<a href="#">sp_column_privileges</a>	<a href="#">sp_special_columns</a>
<a href="#">sp_columns</a>	<a href="#">sp_sproc_columns</a>

<a href="#">sp_databases</a>	<a href="#">sp_statistics</a>
<a href="#">sp_fkeys</a>	<a href="#">sp_stored_procedures</a>
<a href="#">sp_pkeys</a>	<a href="#">sp_table_privileges</a>
<a href="#">sp_server_info</a>	<a href="#">sp_tables</a>

#### Cursor Procedures

<a href="#">sp_cursor_list</a>	<a href="#">sp_describe_cursor_columns</a>
<a href="#">sp_describe_cursor</a>	<a href="#">sp_describe_cursor_tables</a>

#### Database Maintenance Plan Procedures

<a href="#">sp_add_maintenance_plan</a>	<a href="#">sp_delete_maintenance_plan_db</a>
<a href="#">sp_add_maintenance_plan_db</a>	<a href="#">sp_delete_maintenance_plan_job</a>
<a href="#">sp_add_maintenance_plan_job</a>	<a href="#">sp_help_maintenance_plan</a>
<a href="#">sp_delete_maintenance_plan</a>	

#### Distributed Queries Procedures

<a href="#">sp_addlinkedserver</a>	<a href="#">sp_indexes</a>
<a href="#">sp_addlinkedsrvlogin</a>	<a href="#">sp_linkedservers</a>
<a href="#">sp_catalogs</a>	<a href="#">sp_primarykeys</a>
<a href="#">sp_column_privileges_ex</a>	<a href="#">sp_serveroption</a>
<a href="#">sp_columns_ex</a>	<a href="#">sp_table_privileges_ex</a>
<a href="#">sp_droplinkedsrvlogin</a>	<a href="#">sp_tables_ex</a>
<a href="#">sp_foreignkeys</a>	

#### Full-Text Search Procedures

<a href="#">sp_fulltext_catalog</a>	<a href="#">sp_help_fulltext_catalogs_cursor</a>
<a href="#">sp_fulltext_column</a>	<a href="#">sp_help_fulltext_columns</a>
<a href="#">sp_fulltext_database</a>	<a href="#">sp_help_fulltext_columns_cursor</a>
<a href="#">sp_fulltext_service</a>	<a href="#">sp_help_fulltext_tables</a>
<a href="#">sp_fulltext_table</a>	<a href="#">sp_help_fulltext_tables_cursor</a>
<a href="#">sp_help_fulltext_catalogs</a>	

#### Log Shipping Procedures

<a href="#">sp_add_log_shipping_database</a>	<a href="#">sp_delete_log_shipping_database</a>
<a href="#">sp_add_log_shipping_plan</a>	<a href="#">sp_delete_log_shipping_plan</a>
<a href="#">sp_add_log_shipping_plan_database</a>	<a href="#">sp_delete_log_shipping_plan_database</a>
<a href="#">sp_add_log_shipping_primary</a>	<a href="#">sp_delete_log_shipping_primary</a>
<a href="#">sp_add_log_shipping_secondary</a>	<a href="#">sp_delete_log_shipping_secondary</a>
<a href="#">sp_can_tlog_be_applied</a>	<a href="#">sp_get_log_shipping_monitor_info</a>
<a href="#">sp_change_monitor_role</a>	<a href="#">sp_remove_log_shipping_monitor</a>
<a href="#">sp_change_primary_role</a>	<a href="#">sp_resolve_logins</a>

<a href="#">sp_change_secondary_role</a>	<a href="#">sp_update_log_shipping_monitor_info</a>
<a href="#">sp_create_log_shipping_monitor_account</a>	<a href="#">sp_update_log_shipping_plan</a>
<a href="#">sp_define_log_shipping_monitor</a>	<a href="#">sp_update_log_shipping_plan_database</a>

#### OLE Automation Extended Stored Procedures

<a href="#">sp_OACreate</a>	<a href="#">sp_OAMethod</a>
<a href="#">sp_OADestroy</a>	<a href="#">sp_OASetProperty</a>
<a href="#">sp_OAGetErrorInfo</a>	<a href="#">sp_OAStop</a>
<a href="#">sp_OAGetProperty</a>	<a href="#">Object Hierarchy Syntax</a>

#### Replication Procedures

<a href="#">sp_add_agent_parameter</a>	<a href="#">sp_enableagentoffload</a>
<a href="#">sp_add_agent_profile</a>	<a href="#">sp_enumcustomresolvers</a>
<a href="#">sp_addarticle</a>	<a href="#">sp_enumsdn</a>
<a href="#">sp_adddistpublisher</a>	<a href="#">sp_enumfullsubscribers</a>
<a href="#">sp_adddistributiondb</a>	<a href="#">sp_expired_subscription_cleanup</a>
<a href="#">sp_adddistributor</a>	<a href="#">sp_generatefilters</a>
<a href="#">sp_addmergealternatepublisher</a>	<a href="#">sp_getagentoffloadinfo</a>
<a href="#">sp_addmergearticle</a>	<a href="#">sp_getmergedeletetype</a>
<a href="#">sp_addmergefilter</a>	<a href="#">sp_get_distributor</a>
<a href="#">sp_addmergepublication</a>	<a href="#">sp_getqueuedrows</a>
<a href="#">sp_addmergepullsubscription</a>	<a href="#">sp_getsubscriptiondtspackagename</a>
<a href="#">sp_addmergepullsubscription_agent</a>	<a href="#">sp_grant_publication_access</a>
<a href="#">sp_addmergesubscription</a>	<a href="#">sp_help_agent_default</a>
<a href="#">sp_addpublication</a>	<a href="#">sp_help_agent_parameter</a>
<a href="#">sp_addpublication_snapshot</a>	<a href="#">sp_help_agent_profile</a>
<a href="#">sp_addpublisher70</a>	<a href="#">sp_helparticle</a>
<a href="#">sp_addpullsubscription</a>	<a href="#">sp_helparticlecolumns</a>
<a href="#">sp_addpullsubscription_agent</a>	<a href="#">sp_helparticlelts</a>
<a href="#">sp_addscriptexec</a>	<a href="#">sp_helpdistpublisher</a>
<a href="#">sp_addsubscriber</a>	<a href="#">sp_helpdistributiondb</a>
<a href="#">sp_addsubscriber_schedule</a>	<a href="#">sp_helpdistributor</a>
<a href="#">sp_addsubscription</a>	<a href="#">sp_helpmergealternatepublisher</a>
<a href="#">sp_addsynctriggers</a>	<a href="#">sp_helpmergearticle</a>
<a href="#">sp_addtabletocontents</a>	<a href="#">sp_helpmergearticlecolumn</a>
<a href="#">sp_adjustpublisheridentityrange</a>	<a href="#">sp_helpmergearticleconflicts</a>
<a href="#">sp_article_validation</a>	<a href="#">sp_helpmergeconflictrows</a>
<a href="#">sp_articlecolumn</a>	<a href="#">sp_helpmergedeleteconflictrows</a>
<a href="#">sp_articlefilter</a>	<a href="#">sp_helpmergefilter</a>
<a href="#">sp_articlesynctranprocs</a>	<a href="#">sp_helpmergepublication</a>
<a href="#">sp_articleview</a>	<a href="#">sp_helpmergepullsubscription</a>

<a href="#">sp_attachsubscription</a>	<a href="#">sp_helpmergesubscription</a>
<a href="#">sp_browsesnapshotfolder</a>	<a href="#">sp_helppublication</a>
<a href="#">sp_browsemergesnapshotfolder</a>	<a href="#">sp_help_publication_access</a>
<a href="#">sp_browsereplcmds</a>	<a href="#">sp_helppullsubscription</a>
<a href="#">sp_change_agent_parameter</a>	<a href="#">sp_helpreplfailovermode</a>
<a href="#">sp_change_agent_profile</a>	<a href="#">sp_helpreplicationdboption</a>
<a href="#">sp_changearticle</a>	<a href="#">sp_helpreplicationoption</a>
<a href="#">sp_changedistpublisher</a>	<a href="#">sp_helpsubscriberinfo</a>
<a href="#">sp_changedistributiondb</a>	<a href="#">sp_helpsubscription</a>
<a href="#">sp_changedistributor_password</a>	<a href="#">sp_ivindexhasnullcols</a>
<a href="#">sp_changedistributor_property</a>	<a href="#">sp_helpsubscription_properties</a>
<a href="#">sp_changemergearticle</a>	<a href="#">sp_link_publication</a>
<a href="#">sp_changemergefilter</a>	<a href="#">sp_marksubscriptionvalidation</a>
<a href="#">sp_changemergepublication</a>	<a href="#">sp_mergearticlecolumn</a>
<a href="#">sp_changemergepullsubscription</a>	<a href="#">sp_mergecleanupmetadata</a>
<a href="#">sp_changemergesubscription</a>	<a href="#">sp_mergedummyupdate</a>
<a href="#">sp_changepublication</a>	<a href="#">sp_mergesubscription_cleanup</a>
<a href="#">sp_changesubscriber</a>	<a href="#">sp_publication_validation</a>
<a href="#">sp_changesubscriber_schedule</a>	<a href="#">sp_refreshsubscriptions</a>
<a href="#">sp_changesubscriptiondtsinfo</a>	<a href="#">sp_reinitmergepullsubscription</a>
<a href="#">sp_changesubstatus</a>	<a href="#">sp_reinitmergesubscription</a>
<a href="#">sp_change_subscription_properties</a>	<a href="#">sp_reinitpullsubscription</a>
<a href="#">sp_check_for_sync_trigger</a>	<a href="#">sp_reinitsubscription</a>
<a href="#">sp_copymergesnapshot</a>	<a href="#">sp_removedbreplication</a>
<a href="#">sp_copysnapshot</a>	<a href="#">sp_repladdcolumn</a>
<a href="#">sp_copysubscription</a>	<a href="#">sp_replcmds</a>
<a href="#">sp_deletemergeconflictrow</a>	<a href="#">sp_replcounters</a>
<a href="#">sp_disableagentoffload</a>	<a href="#">sp_repldone</a>
<a href="#">sp_drop_agent_parameter</a>	<a href="#">sp_repldropcolumn</a>
<a href="#">sp_drop_agent_profile</a>	<a href="#">sp_replflush</a>
<a href="#">sp_droparticle</a>	<a href="#">sp_replicationdboption</a>
<a href="#">sp_dropanonymousagent</a>	<a href="#">sp_replication_agent_checkup</a>
<a href="#">sp_dropdistpublisher</a>	<a href="#">sp_replqueuemonitor</a>
<a href="#">sp_dropdistributiondb</a>	<a href="#">sp_replsetoriginator</a>
<a href="#">sp_dropmergealternatepublisher</a>	<a href="#">sp_replshowcmds</a>
<a href="#">sp_dropdistributor</a>	<a href="#">sp_repltrans</a>
<a href="#">sp_dropmergearticle</a>	<a href="#">sp_restoredbreplication</a>
<a href="#">sp_dropmergefilter</a>	<a href="#">sp_revoke_publication_access</a>
	<a href="#">sp_scriptsubconflicttable</a>
<a href="#">sp_dropmergepublication</a>	<a href="#">sp_script_synctran_commands</a>
<a href="#">sp_dropmergepullsubscription</a>	<a href="#">sp_setreplfailovermode</a>

	<a href="#">sp_showrowreplicainfo</a>
<a href="#">sp_dropmergesubscription</a>	<a href="#">sp_subscription_cleanup</a>
<a href="#">sp_droppublication</a>	<a href="#">sp_table_validation</a>
<a href="#">sp_droppullsubscription</a>	<a href="#">sp_update_agent_profile</a>
<a href="#">sp_dropsubscriber</a>	<a href="#">sp_validatemergepublication</a>
<a href="#">sp_dropsubscription</a>	<a href="#">sp_validatemergesubscription</a>
<a href="#">sp_dsninfo</a>	<a href="#">sp_vupgrade_replication</a>
<a href="#">sp_dumpparamcmd</a>	

### Security Procedures

<a href="#">sp_addalias</a>	<a href="#">sp_droprolemember</a>
<a href="#">sp_addapprole</a>	<a href="#">sp_dropserver</a>
<a href="#">sp_addgroup</a>	<a href="#">sp_dropsvrolemember</a>
<a href="#">sp_addlinkedsrvlogin</a>	<a href="#">sp_dropuser</a>
<a href="#">sp_addlogin</a>	<a href="#">sp_grantdbaccess</a>
<a href="#">sp_addremotelogin</a>	<a href="#">sp_grantlogin</a>
<a href="#">sp_addrole</a>	<a href="#">sp_helpdbfixedrole</a>
<a href="#">sp_addrolemember</a>	<a href="#">sp_helpgroup</a>
<a href="#">sp_addserver</a>	<a href="#">sp_helplinkedsrvlogin</a>
<a href="#">sp_addsvrolemember</a>	<a href="#">sp_helplogins</a>
<a href="#">sp_adduser</a>	<a href="#">sp_helpntgroup</a>
<a href="#">sp_approlepassword</a>	<a href="#">sp_helpremotelogin</a>
<a href="#">sp_changedbowner</a>	<a href="#">sp_helprole</a>
<a href="#">sp_changegroup</a>	<a href="#">sp_helprolemember</a>
<a href="#">sp_changeobjectowner</a>	<a href="#">sp_helpprotect</a>
<a href="#">sp_change_users_login</a>	<a href="#">sp_helpsrvrole</a>
<a href="#">sp_dbfixedrolepermission</a>	<a href="#">sp_helpsvrolemember</a>
<a href="#">sp_defaultdb</a>	<a href="#">sp_helpuser</a>
<a href="#">sp_defaultlanguage</a>	<a href="#">sp_MShasdbaccess</a>
<a href="#">sp_denylogin</a>	<a href="#">sp_password</a>
<a href="#">sp_dropalias</a>	<a href="#">sp_remoteoption</a>
<a href="#">sp_dropapprole</a>	<a href="#">sp_revokedbaccess</a>
<a href="#">sp_dropgroup</a>	<a href="#">sp_revokelogin</a>
<a href="#">sp_droplinkedsrvlogin</a>	<a href="#">sp_setapprole</a>
<a href="#">sp_droplogin</a>	<a href="#">sp_srvrolepermission</a>
<a href="#">sp_dropremotelogin</a>	<a href="#">sp_validatelogins</a>
<a href="#">sp_droprole</a>	

### SQL Mail Procedures

<a href="#">sp_processmail</a>	<a href="#">xp_sendmail</a>
<a href="#">xp_deletemail</a>	<a href="#">xp_startmail</a>

<a href="#">xp_findnextmsg</a>	<a href="#">xp_stopmail</a>
<a href="#">xp_readmail</a>	

**SQL Profiler Procedures**

<a href="#">sp_trace_create</a>	<a href="#">sp_trace_setfilter</a>
<a href="#">sp_trace_generateevent</a>	<a href="#">sp_trace_setstatus</a>
<a href="#">sp_trace_setevent</a>	

**SQL Server Agent Procedures**

<a href="#">sp_add_alert</a>	<a href="#">sp_help_jobhistory</a>
<a href="#">sp_add_category</a>	<a href="#">sp_help_jobschedule</a>
<a href="#">sp_add_job</a>	<a href="#">sp_help_jobserver</a>
<a href="#">sp_add_jobschedule</a>	<a href="#">sp_help_jobstep</a>
<a href="#">sp_add_jobserver</a>	<a href="#">sp_help_notification</a>
<a href="#">sp_add_jobstep</a>	<a href="#">sp_help_operator</a>
<a href="#">sp_add_notification</a>	<a href="#">sp_help_targetserver</a>
<a href="#">sp_add_operator</a>	<a href="#">sp_help_targetservergroup</a>
<a href="#">sp_add_targetservergroup</a>	<a href="#">sp_helptask</a>
<a href="#">sp_add_targetsvrgrp_member</a>	<a href="#">sp_manage_jobs_by_login</a>
<a href="#">sp_addtask</a>	<a href="#">sp_msx_defect</a>
<a href="#">sp_apply_job_to_targets</a>	<a href="#">sp_msx_enlist</a>
<a href="#">sp_delete_alert</a>	<a href="#">sp_post_msx_operation</a>
<a href="#">sp_delete_category</a>	<a href="#">sp_purgehistory</a>
<a href="#">sp_delete_job</a>	<a href="#">sp_purge_jobhistory</a>
<a href="#">sp_delete_jobschedule</a>	<a href="#">sp_reassigntask</a>
<a href="#">sp_delete_jobserver</a>	<a href="#">sp_remove_job_from_targets</a>
<a href="#">sp_delete_jobstep</a>	<a href="#">sp_resync_targetserver</a>
<a href="#">sp_delete_notification</a>	<a href="#">sp_start_job</a>
<a href="#">sp_delete_operator</a>	<a href="#">sp_stop_job</a>
<a href="#">sp_delete_targetserver</a>	<a href="#">sp_update_alert</a>
<a href="#">sp_delete_targetservergroup</a>	<a href="#">sp_update_category</a>
<a href="#">sp_delete_targetsvrgrp_member</a>	<a href="#">sp_update_job</a>
<a href="#">sp_droptask</a>	<a href="#">sp_update_jobschedule</a>
<a href="#">sp_help_alert</a>	<a href="#">sp_update_jobstep</a>
<a href="#">sp_help_category</a>	<a href="#">sp_update_notification</a>
<a href="#">sp_help_downloadlist</a>	<a href="#">sp_update_operator</a>
<a href="#">sp_helphistory</a>	<a href="#">sp_update_targetservergroup</a>
<a href="#">sp_help_job</a>	<a href="#">sp_updatetask</a>
	<a href="#">xp_sqlagent_proxy_account</a>

**System Procedures**

<a href="#">sp_add_data_file_recover_suspect_db</a>	<a href="#">sp_helpconstraint</a>
<a href="#">sp_addextendedproc</a>	<a href="#">sp_helpdb</a>
<a href="#">sp_addextendedproperty</a>	<a href="#">sp_helpdevice</a>
<a href="#">sp_add_log_file_recover_suspect_db</a>	<a href="#">sp_helpextendedproc</a>
<a href="#">sp_addmessage</a>	<a href="#">sp_helpfile</a>
<a href="#">sp_addtype</a>	<a href="#">sp_helpfilegroup</a>
<a href="#">sp_addumpdevice</a>	<a href="#">sp_helpindex</a>
<a href="#">sp_altermessage</a>	<a href="#">sp_helplanguage</a>
<a href="#">sp_autostats</a>	<a href="#">sp_helpserver</a>
<a href="#">sp_attach_db</a>	<a href="#">sp_helpsort</a>
<a href="#">sp_attach_single_file_db</a>	<a href="#">sp_helpstats</a>
<a href="#">sp_bindefault</a>	<a href="#">sp_helptext</a>
<a href="#">sp_bindrule</a>	<a href="#">sp_helptrigger</a>
<a href="#">sp_bindsession</a>	<a href="#">sp_indexoption</a>
<a href="#">sp_certify_removable</a>	<a href="#">sp_invalidate_textptr</a>
<a href="#">sp_configure</a>	<a href="#">sp_lock</a>
<a href="#">sp_create_removable</a>	<a href="#">sp_monitor</a>
<a href="#">sp_createstats</a>	<a href="#">sp_procoption</a>
<a href="#">sp_cycle_errorlog</a>	<a href="#">sp_recompile</a>
<a href="#">sp_datatype_info</a>	<a href="#">sp_refreshview</a>
<a href="#">sp_dbcmptlevel</a>	<a href="#">sp_releaseapplock</a>
<a href="#">sp_dboption</a>	<a href="#">sp_rename</a>
<a href="#">sp_dbremove</a>	<a href="#">sp_renamedb</a>
<a href="#">sp_delete_backuphistory</a>	<a href="#">sp_resetstatus</a>
<a href="#">sp_depends</a>	<a href="#">sp_serveroption</a>
<a href="#">sp_detach_db</a>	<a href="#">sp_setnetname</a>
<a href="#">sp_dropdevice</a>	<a href="#">sp_settriggerorder</a>
<a href="#">sp_dropextendedproc</a>	<a href="#">sp_spaceused</a>
<a href="#">sp_dropextendedproperty</a>	<a href="#">sp_tableoption</a>
<a href="#">sp_dropmessage</a>	<a href="#">sp_unbindefault</a>
<a href="#">sp_droptype</a>	<a href="#">sp_unbindrule</a>
<a href="#">sp_executesql</a>	<a href="#">sp_updateextendedproperty</a>
<a href="#">sp_getapplock</a>	<a href="#">sp_updatestats</a>
<a href="#">sp_getbindtoken</a>	<a href="#">sp_validname</a>
<a href="#">sp_help</a>	<a href="#">sp_who</a>

**Web Assistant Procedures**

<a href="#">sp_dropwebtask</a>	<a href="#">sp_makewebtask</a>
<a href="#">sp_enumcodepages</a>	<a href="#">sp_runwebtask</a>

**XML Procedures**



<a href="#">sp_xml_preparedocument</a>	<a href="#">sp_xml_removedocument</a>
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### General Extended Procedures

<a href="#">xp_cmdshell</a>	<a href="#">xp_logininfo</a>
<a href="#">xp_enumgroups</a>	<a href="#">xp_msver</a>
<a href="#">xp_findnextmsg</a>	<a href="#">xp_revokelogin</a>
<a href="#">xp_grantlogin</a>	<a href="#">xp_sprintf</a>
<a href="#">xp_logevent</a>	<a href="#">xp_sqlmaint</a>
<a href="#">xp_loginconfig</a>	<a href="#">xp_sscanf</a>

### API System Stored Procedures

Users running SQL Profiler against ADO, OLE DB, ODBC, and DB-Library applications may notice the use of system stored procedures that are not covered in the Transact-SQL Reference. These stored procedures are used by the Microsoft OLE DB Provider for SQL Server, the SQL Server ODBC driver, and the DB-Library dynamic-link library (DLL) to implement the functionality of a database API. These stored procedures are simply the mechanism the provider or drivers use to communicate user requests to SQL Server. They are intended only for the internal use of the OLE DB Provider for SQL Server, the SQL Server ODBC driver, and the DB-Library DLL. Calling them explicitly from an SQL Server application is not supported.

The complete functionality from these stored procedures is made available to SQL Server applications through the API functions they support. For example, the cursor functionality of the **sp\_cursor** system stored procedures is made available to OLE DB applications through the OLE DB API cursor properties and methods, to ODBC applications through the ODBC cursor attributes and functions, and to DB-Library applications through the DB-Library Cursor Library.

These system stored procedures support the cursor functionality of ADO, OLE DB, ODBC, and the DB-Library Cursor Library:

<b>sp_cursor</b>	<b>sp_cursorclose</b>	<b>sp_cursorexecute</b>
<b>sp_cursorfetch</b>	<b>sp_cursoropen</b>	<b>sp_cursoroption</b>
<b>sp_cursorprepare</b>	<b>sp_cursorunprepare</b>	

These system stored procedures support the prepare/execute model of executing Transact-SQL statements in ADO, OLE DB, and ODBC:

<b>sp_execute</b>	<b>sp_prepare</b>	<b>sp_unprepare</b>
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The **sp\_createorphan** and **sp\_droporphans** stored procedures are used for ODBC **ntext**, **text**, and **image** processing.

The **sp\_reset\_connection** stored procedure is used by SQL Server to support remote stored procedure calls in a transaction.

The **sp\_sdebug** stored procedure is used by SQL Server for debugging Transact-SQL statements.