

Task	Function Name	Conformance	Purpose
Obtaining information about the data source's system tables (catalog functions)	SQLColumnPrivileges	Level 2	Returns a list of columns and associated privileges for one or more tables.
	SQLColumns	Level 1	Returns the list of column names in specified tables.
	SQLForeignKeys	Level 2	Returns a list of column names that comprise foreign keys, if they exist for a specified table.
	SQLPrimaryKeys	Level 2	Returns the list of column name(s) that comprise the primary key for a table.
	SQLProcedureColumns	Level 2	Returns the list of input and output parameters, as well as the columns that make up the result set for the specified procedures.
	SQLProcedures	Level 2	Returns the list of procedure names stored in a specific data source.
	SQLSpecialColumns	Level 1	Returns information about the optimal set of columns that uniquely identifies a row in a specified table, or the columns that are automatically updated when any value in the row is updated by a transaction.
	SQLStatistics	Level 1	Returns statistics about a single table and the list of indexes associated with the table.
	SQLTablePrivileges	Level 2	Returns a list of tables and the privileges associated with each table.
	SQLTables	Level 1	Returns the list of table names stored in a specific data source.
Terminating a Statement	SQLFreeStmt	Core	Ends statement processing and closes the associated cursor, discards pending results, and, optionally, frees all resources associated with the statement handle.
	SQLCancel	Core	Cancels an SQL statement.
	SQLTransact	Core	Commits or rolls back a transaction.
Terminating a Connection	SQLDisconnect	Core	Closes the connection.
	SQLFreeConnect	Core	Releases the connection handle.
	SOLFreeEnv	Core	Releases the environment handle.

Setup DLL Function Summary

The following table describes setup DLL functions. For more information about the syntax and semantics for each function, see Chapter 23, “Setup DLL Function Reference.”

Task	Function Name	Purpose
Setting up data sources and translators	ConfigDSN	Adds, modifies, or deletes a data source.
	ConfigTranslator	Returns a default translation option.

Installer DLL Function Summary

The following table describes the functions in the Installer DLL. For more information about the syntax and semantics for each function, see Chapter 24, “Installer DLL Function Reference.”

Task	Function Name	Purpose
Installing ODBC	SQLGetAvailableDrivers	Returns a list of drivers in the ODBC.INF file.
	SQLGetInstalledDrivers	Returns a list of installed drivers.
	SQLInstallDriver	Adds a driver to the ODBCINST.INI file (or registry).
	SQLInstallDriverManager	Returns the target directory for the Driver Manager.
	SQLInstallODBC	Installs the ODBC software interactively or silently.
Configuring data sources	SQLConfigDataSource	Calls the driver-specific setup DLL.
	SQLCreateDataSource	Displays a dialog box to add a data source.
	SQLGetPrivateProfileString	Writing a value to the ODBC.INI file or the registry
	SQLGetTranslator	Displays a dialog box to select a translator.
	SQLManageDataSources	Displays a dialog box to configure data sources and drivers
	SQLRemoveDefaultDataSource	Removes the default data source.
	SQLRemoveDSNFromIni	Removes a data source.
	SQLWriteDSNToIni	Adds a data source.
SQLWritePrivateProfileString	Getting a value from the ODBC.INI file or the registry	

Translation DLL Function Summary

The following table describes translation DLL functions. For more information about the syntax and semantics for each function, see Chapter 25, “Translation DLL Function Reference.”

Task	Function Name	Purpose
Translating data	SQLDriverToDataSource	Translates all data flowing from the driver to the data source.
	SQLDataSourceToDriver	Translates all data flowing from the data source to the driver.

CHAPTER 22

ODBC Function Reference

The following pages describe each ODBC function in alphabetic order. Each function is defined as a C programming language function. Descriptions include the following:

- Purpose
- ODBC version
- Conformance level
- Syntax
- Arguments
- Return values
- Diagnostics
- Comments about usage and implementation
- Code example
- References to related functions

Error handling is described in the **SQLERROR** function description. The text associated with **SQLSTATE** values is included to provide a description of the condition, but is not intended to prescribe specific text.

Arguments

All function arguments use a naming convention of the following form:

`[[prefix...]tag[qualifier][suffix]`

Optional elements are enclosed in square brackets ([]). The following prefixes are used:

Prefix	Description
c	Count of
h	Handle of
i	Index of
p	Pointer to
rg	Range (array) of

The following tags are used:

Tag	Description
b	Byte
col	Column (of a result set)
dbc	Database connection
env	Environment
f	Flag (enumerated type)
par	Parameter (of an SQL statement)
row	Row (of a result set)
stmt	Statement
sz	Character string (array of characters, terminated by zero)
v	Value of unspecified type

Prefixes and tags combine to correspond roughly to the ODBC C types listed below. Flags (f) and byte counts (cb) do not distinguish between SWORD, UWORD, SDWORD, and UDWORD.

Combined	Prefix	Tag	ODBC C Type(s)	Description
cb	c	b	SWORD, SDWORD, UDWORD	Count of bytes
crow	c	row	SDWORD, UDWORD, UWORD	Count of rows
f	-	f	SWORD, UWORD	Flag
hdbc	h	dbc	HDBC	Connection handle
henv	h	env	HENV	Environment handle
hstmt	h	stmt	HSTMT	Statement handle
hwnd	h	wnd	HWND	Window handle

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