DOCKET A L A R M

| Related Functions | For information about | See |
|-------------------|---|------------------------------|
| | Discovering and listing values required to connect to a data source | SQLBrowseConnect (extension) |
| | Connecting to a data source | SQLConnect |
| | Returning data source names | SQLDataSources (extension) |
| | Connecting to a data source using a connection string or dialog box | SQLDriverConnect (extension) |

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truncated to cbErrorMsgMax

-1 bytes.

SQLError

ODBC 1.0

Core SQLError returns error or status information.

Syntax

RETCODE **SQLError**(*henv*, *hdbc*, *hstmt*, *szSqlState*, *pfNativeError*, *szErrorMsg*, *cbErrorMsgMax*, *pcbErrorMsg*)

The SQLError function accepts the following arguments.

| Туре | Argument | Use | Description |
|--------------|---------------|--------|---|
| HENV | henv | Input | Environment handle or SQL_NULL_HENV. |
| HDBC | hdbc | Input | Connection handle or SQL_NULL_HDBC. |
| HSTMT | hstmt | Input | Statement handle or SQL_NULL_HSTMT. |
| UCHAR FAR * | szSqlState | Output | SQLSTATE as null-terminated string. For a list of SQLSTATEs, see Appendix A, "ODBC Error Codes." |
| SDWORD FAR * | pfNativeError | Output | Native error code (specific to the data source). |
| UCHAR FAR * | szErrorMsg | Output | Pointer to storage for the error message text. |
| SWORD | cbErrorMsgMax | Input | Maximum length of the szErrorMsg buffer. This must be less than or equal to SQL_MAX_MESSAGE_ LENGTH – 1. |
| SWORD FAR * | pcbErrorMsg | Output | Pointer to the total number of bytes (excluding the null termination byte) available to return in <i>szErrorMsg</i> . If the number of bytes available to return is greater than or equal to <i>cbErrorMsgMax</i> , the error message text in <i>szErrorMsg</i> is |

Returns

SQL_SUCCESS, SQL_SUCCESS_WITH_INFO, SQL_NO_DATA_FOUND, SQL_ERROR, or SQL_INVALID_HANDLE.

Diagnostics

SQLError does not post error values for itself. **SQLError** returns SQL_NO_DATA_FOUND when it is unable to retrieve any error information, (in which case *szSqlState* equals 00000). If **SQLError** cannot access error values for

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any reason that would normally return SQL_ERROR, **SQLError** returns SQL_ERROR but does not post any error values. If the buffer for the error message is too short, **SQLError** returns SQL_SUCCESS_WITH_INFO but, again, does not return a SQLSTATE value for **SQLError**.

To determine that a truncation occurred in the error message, an application can compare *cbErrorMsgMax* to the actual length of the message text written to *pcbErrorMsg*.

An application typically calls **SQLError** when a previous call to an ODBC function returns SQL_ERROR or SQL_SUCCESS_WITH_INFO. However, any ODBC function can post zero or more errors each time it is called, so an application can call **SQLError** after any ODBC function call.

SQLError retrieves an error from the data structure associated with the rightmost non-null handle argument. An application requests error information as follows:

- To retrieve errors associated with an environment, the application passes the corresponding *henv* and includes SQL_NULL_HDBC and SQL_NULL_HSTMT in *hdbc* and *hstmt*, respectively. The driver returns the error status of the ODBC function most recently called with the same *henv*.
- To retrieve errors associated with a connection, the application passes the corresponding *hdbc* plus an *hstmt* equal to SQL_NULL_HSTMT. In such a case, the driver ignores the *henv* argument. The driver returns the error status of the ODBC function most recently called with the *hdbc*.
- To retrieve errors associated with a statement, an application passes the corresponding *hstmt*. If the call to **SQLError** contains a valid *hstmt*, the driver ignores the *hdbc* and *henv* arguments. The driver returns the error status of the ODBC function most recently called with the *hstmt*.
- To retrieve multiple errors for a function call, an application calls **SQLError** multiple times. For each error, the driver returns SQL_SUCCESS and removes that error from the list of available errors.

When there is no additional information for the rightmost non-null handle, SQLError returns SQL_NO_DATA_FOUND. In this case, *szSqlState* equals 00000 (Success), *pfNativeError* is undefined, *pcbErrorMsg* equals 0, and *szErrorMsg* contains a single null termination byte (unless *cbErrorMsgMax* equals 0).

The Driver Manager stores error information in its *henv*, *hdbc*, and *hstmt* structures. Similarly, the driver stores error information in its *henv*, *hdbc*, and *hstmt* structures. When the application calls **SQLError**, the Driver Manager checks if there are any errors in its structure for the specified handle. If there are errors for the specified handle, it returns the first error; if there are no errors, it calls **SQLError** in the driver.

Comments

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The Driver Manager can store up to 64 errors with an *henv* and its associated *hdbcs* and *hstmts*. When this limit is reached, the Driver Manager discards any subsequent errors posted on the Driver Manager's *henv*, *hdbcs*, or *hstmts*. The number of errors that a driver can store is driver-dependent.

An error is removed from the structure associated with a handle when **SQLError** is called for that handle and returns that error. All errors stored for a given handle are removed when that handle is used in a subsequent function call. For example, errors on an *hstmt* that were returned by **SQLExecDirect** are removed when **SQLExecDirect** or **SQLTables** is called with that *hstmt*. The errors stored on a given handle are not removed as the result of a call to a function using an associated handle of a different type. For example, errors on an *hdbc* that were returned by **SQLExecDirect** or **SQLTables** is called with that *hdbc*.

For more information about error codes, see Appendix A, "ODBC Error Codes."

Related Functions

DOCKE

None.

SQLExecDirect

ODBC 1.0

Core

SQLExecDirect executes a preparable statement, using the current values of the parameter marker variables if any parameters exist in the statement. **SQLExecDirect** is the fastest way to submit an SQL statement for one-time execution.

Syntax RETCODE **SQLExecDirect**(*hstmt*, *szSqlStr*, *cbSqlStr*)

The **SQLExecDirect** function uses the following arguments.

| Туре | Argument | Use | Description |
|-------------|----------|-------|-------------------------------|
| HSTMT | hstmt | Input | Statement handle. |
| UCHAR FAR * | szSqlStr | Input | SQL statement to be executed. |
| SDWORD | cbSqlStr | Input | Length of szSqlStr. |

Returns

SQL_SUCCESS, SQL_SUCCESS_WITH_INFO, SQL_NEED_DATA, SQL_STILL_EXECUTING, SQL_ERROR, or SQL_INVALID_HANDLE.

Diagnostics

DOCKE

When **SQLExecDirect** returns either SQL_ERROR or

SQL_SUCCESS_WITH_INFO, an associated SQLSTATE value may be obtained by calling **SQLError**. The following table lists the SQLSTATE values commonly returned by **SQLExecDirect** and explains each one in the context of this function; the notation "(DM)" precedes the descriptions of SQLSTATEs returned by the Driver Manager. The return code associated with each SQLSTATE value is SQL_ERROR, unless noted otherwise.

| SQLSTATE | Error | Description |
|----------|-----------------|---|
| 01000 | General warning | Driver-specific informational message. (Function returns SQL_SUCCESS_WITH_INFO.) |
| 01004 | Data truncated | The argument <i>szSqlStr</i> contained an SQL statement that contained a character or binary parameter or literal and the value exceeded the maximum length of the associated table column. |
| • | | The argument <i>szSqlStr</i> contained an SQL statement that contained a numeric parameter or literal and the fractional part of the value was truncated. |
| | | The argument <i>szSqlStr</i> contained an SQL statement that contained a date or time parameter or literal and a timestamp value was truncated. |

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