

A. SQLSTATE

SQLSTATE codes & messages

In this Appendix are all of the **SQLSTATE** codes currently supported:

1. The 5-character **SQLSTATE** code returned by the status array consists of **SQL CLASS** (2 characters) and **SQL SUBCLASS** (3 characters).
2. Where existent and known, 1:1 mappings to the deprecated **SQLCODE** are included.
3. In many cases, **SQLCODE:SQLSTATE** mappings are not 1:1, which is intentional on the part of the SQL Standards committee. It has been their aim, for many years, that the use of the **SQLCODE** be deprecated entirely.

SQLSTATE code	Mapped message	Maps to SQLCODE..
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SQLCLASS 00 (Success)

0000	Success
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SQLCLASS 01 (Warning)

01000	General warning
01001	Cursor operation conflict
01002	Disconnect error
01003	NULL value eliminated in set function
01004	String data, right-truncated
01005	Insufficient item descriptor areas
01006	Privilege not revoked
01007	Privilege not granted
01008	Implicit zero-bit padding
01100	Statement reset to unprepared
01101	Ongoing transaction has been committed
01102	Ongoing transaction has been rolled back

SQLCLASS 02 (No data)

02000	No data found or no rows affected
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SQLCLASS 07 (Dynamic SQL error)

07000	Dynamic SQL error
07001	Wrong number of input parameters
07002	Wrong number of output parameters
07003	Cursor specification cannot be executed
07004	USING clause required for dynamic parameters
07005	Prepared statement not a cursor-specification

07006	Restricted data type attribute violation
07007	USING clause required for result fields
07008	Invalid descripto count
07009	Invalid descriptor index

SQLCLASS 08 (Connection exception)

08001	Client unable to establish connection
08002	Connection name in use
08003	Connection does not exist
08004	Server rejected the connection
08006	Connection failure
08007	Transaction resolution unknown

SQLCLASS 0A (Feature not supported)

0A000	Feature not supported
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SQLCLASS 0B (Invalid transaction initiation)

0B000	Invalid transaction initiation
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SQLCLASS 0L (Invalid grantor)

0L000	Invalid grantor
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SQLCLASS 0P (Invalid role specification)

0P000	Invalid role specification
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SQLCLASS 0U (Attempt to assign to non-updatable column)

0U000	Attempt to assign to non-updatable column
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SQLCLASS 0V (Attempt to assign to ordering column)

0V000	Attempt to assign to ordering column
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SQLCLASS 20 (Case not found for case statement)

20000	Case not found for case statement
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SQLCLASS 21 (Cardinality violation)

21000	Cardinality violation
21S01	Insert value list does not match column list
21S02	Degree of derived table does not match column list

SQLCLASS 22 (Data exception)

22000	Data exception	
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22001	String data, right truncation	
22002	Null value, no indicator parameter	
22003	Numeric value out of range	
22004	Null value not allowed	
2205	Error in assignment	
2206	Null value in field reference	
2207	Invalid datetime format	
22008	Datetime field overflow	
22009	Invalid time zone displacement value	
2200A	Null value in reference target	
2200B	Escape character conflict	
2200C	Invalid use of escape character	
2200D	Invalid escape octet	
2200E	Null value in array target	
2200F	Zero-length character string	
2200G	Most specific type mismatch	
22010	Invalid indicator parameter value	
22011	Substring error	
22012	Division by zero	
22014	Invalid update value	
22015	Interval field overflow	
22018	Invalid character value for cast	
22019	Invalid escape character	
2201B	Invalid regular expression	
2201C	Null row not permitted in table	
22020	Invalid limit value	
22021	Character not in repertoire	
22022	Indicator overflow	
22023	Invalid parameter value	
22024	Character string not properly terminated	
22025	Invalid escape sequence	
22026	String data, length mismatch	
22027	Trim error	
22028	Row already exists	
2202D	Null instance used in mutator function	
2202E	Array element error	
2202F	Array data, right truncation	
SQLCLASS 23 (Integrity constraint violation)	SQLCLASS 23 (Integrity constraint violation)	SQLCLASS 23 (Integrity constraint violation)
23000	Integrity constraint violation	

SQLCLASS 23 (Integrity constraint violation)

23000	Integrity constraint violation
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SQLCLASS 24 (Invalid cursor state)

24000	Invalid cursor state
24504	The cursor identified in the UPDATE, DELETE, SET, or GET statement is not positioned on a row

SQLCLASS 25 (Invalid transaction state)

25000	Invalid transaction state
25	xxxx
25S01	Transaction state
25S02	Transaction is still active
25S03	Transaction is rolled back

SQLCLASS 26 (Invalid SQL statement name)

26000	Invalid SQL statement name
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SQLCLASS 27 (Triggered data change violation)

27000	Triggered data change violation
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SQLCLASS 28 (Invalid authorization specification)

28000	Invalid authorization specification
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SQLCLASS 2B (Dependent privilege descriptors still exist)

2B000	Dependent privilege descriptors still exist
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SQLCLASS 2C (Invalid character set name)

2C000	Invalid character set name
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SQLCLASS 2D (Invalid transaction termination)

2D000	Invalid transaction termination
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SQLCLASS 2E (Invalid connection name)

2E000	Invalid connection name
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SQLCLASS 2F (SQL routine exception)

2F000	SQL routine exception
2F002	Modifying SQL-data not permitted
2F003	Prohibited SQL-statement attempted
2F004	Reading SQL-data not permitted
2F005	Function executed no return statement

SQLCLASS 33 (Invalid SQL descriptor name)

33000	Invalid SQL descriptor name
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SQLCLASS 34 (Invalid cursor name)

34000	Invalid cursor name
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SQLCLASS 35 (Invalid condition number)

35000	Invalid condition number
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SQLCLASS 36 (Cursor sensitivity exception)

36001	Request rejected
36002	Request failed

SQLCLASS 37 (Invalid identifier)

37000	Invalid identifier
37001	Identifier too long

SQLCLASS 38 (External routine exception)

38000	External routine exception
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SQLCLASS 39 (External routine invocation exception)

39000	External routine invocation exception
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SQLCLASS 3B (Invalid save point)

3B000	Invalid save point
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SQLCLASS 3C (Ambiguous cursor name)

3C000	Ambiguous cursor name
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SQLCLASS 3D (Invalid catalog name)

3D000	Invalid catalog name
3D001	Catalog name not found

SQLCLASS 3F (Invalid schema name)

3F000	Invalid schema name
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SQLCLASS 40 (Transaction rollback)

40000	Ongoing transaction has been rolled back
40001	Serialization failure
40002	Transaction integrity constraint violation
40003	Statement completion unknown

SQLCLASS 42 (Syntax error or access violation)

40000	Ongoing transaction has been rolled back
40001	Serialization failure
40002	Transaction integrity constraint violation
40003	Statement completion unknown

SQLCLASS 44 (With check option violation)

44000	WITH CHECK OPTION violation
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SQLCLASS 45 (Unhandled user-defined exception)

45000	Unhandled user-defined exception
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SQLCLASS 54 (Program limit exceeded)

54000	Program limit exceeded
54001	Statement too complex
54011	Too many columns
54023	Too many arguments

SQLCLASS HY (CLI-specific condition)

HY000	CLI-specific condition
HY001	Memory allocation error
HY003	Invalid data type in application descriptor
HY004	Invalid data type
HY007	Associated statement is not prepared
HY008	Operation canceled
HY009	Invalid use of null pointer
HY010	Function sequence error
HY011	Attribute cannot be set now
HY012	Invalid transaction operation code
HY013	Memory management error
HY014	Limit on the number of handles exceeded
HY015	No cursor name available
HY016	Cannot modify an implementation row descriptor
HY017	Invalid use of an automatically allocated descriptor handle
HY018	Server declined the cancellation request
HY019	Non-string data cannot be sent in pieces
HY020	Attempt to concatenate a null value
HY021	Inconsistent descriptor information
HY024	Invalid attribute value
HY055	Non-string data cannot be used with string routine
HY090	Invalid string length or buffer length
HY091	Invalid descriptor field identifier
HY092	Invalid attribute identifier

HY095	Invalid FunctionId specified
HY096	Invalid information type
HY097	Column type out of range
HY098	Scope out of range
HY099	Nullable type out of range
HY100	Uniqueness option type out of range
HY101	Accuracy option type out of range
HY103	Invalid retrieval code
HY104	Invalid LengthPrecision value
HY105	Invalid parameter type
HY106	Invalid fetch orientation
HY107	Row value out of range
HY109	Invalid cursor position
HY110	Invalid driver completion
HY111	Invalid bookmark value
HYC00	Optional feature not implemented
HYT00	Timeout expired
HYT01	Connection timeout expired

SQLCLASS XX (Internal error)

XX000	Internal error
XX001	Data corrupted
XX002	Index corrupted

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