

ISO/IEC 9075-02:2016 Database languages — SQL — Part 2: Foundation (SQL/Foundation)

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Table 1: Data sheet for Database languages — SQL — Part 2: Foundation (SQL/Foundation)

Title	Database languages — SQL — Part 2: Foundation
Acronym	SQL/Foundation
Version	2016
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Note: The following is an excerpt from the official ISO catalog. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

Scope

This part of ISO/IEC 9075 defines the [data structures](#) and basic operations on [SQL-data](#). It provides functional capabilities for creating, accessing, maintaining, controlling, and protecting SQL-data.

This part of ISO/IEC 9075 specifies the syntax and semantics of a database language:

- *For specifying and modifying the structure and the integrity constraints of SQL-data.*
- *For declaring and invoking operations on SQL-data and cursors.*
- *For declaring database language procedures.*
- *For embedding SQL-statements in a compilation unit that is otherwise written in a particular [programming language](#) (host language).*
- *For deriving an equivalent compilation unit in the host language. In that equivalent compilation unit, each embedded SQL-statement has been replaced by one or more statements in the host language, some of which invoke an SQL externally-invoked procedure that, when executed, has an effect equivalent to executing the SQL-statement.*
- *For direct invocation of SQL-statements.*
- *To support dynamic preparation and execution of SQL-statements.*

This part of ISO/IEC 9075 provides a vehicle for [portability](#) of data definitions and compilation units between SQL-implementations.

This part of ISO/IEC 9075 provides a vehicle for interconnection of SQL-implementations.

Implementations of this part of ISO/IEC 9075 can exist in environments that also support application programming languages, end-user query languages, report generator systems, data dictionary systems, program library systems, and distributed communication systems, as well as various tools for database design, data administration, and [performance](#) optimization.

See Also

- [ISO/IEC 9075-01:2016 Database languages — SQL — Part 1: Framework \(SQL/Framework\)](#)
- [ISO/IEC 9075-03:2016 Database languages — SQL — Part 3: Call-Level Interface \(SQL/CLI\)](#)
- [ISO/IEC 9075-04:2016 Database languages — SQL — Part 4: Persistent stored modules \(SQL/PSM\)](#)
- [ISO/IEC 9075-09:2016 Database languages — SQL — Part 9: Management of External Data \(SQL/MED\)](#)
- [ISO/IEC 9075-10:2016 Database languages — SQL — Part 10: Object language bindings \(SQL/OLB\)](#)
- [ISO/IEC 9075-11:2016 Database languages — SQL — Part 11: Information and definition schemas \(SQL/Schemata\)](#)
- [ISO/IEC 9075-13:2016 Database languages — SQL — Part 13: SQL Routines and types using the Java TM programming language \(SQL/JRT\)](#)
- [ISO/IEC 9075-14:2016 Database languages — SQL — Part 14: XML-Related Specifications \(SQL/XML\)](#)

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