
**Information technology — Database
languages — SQL —**

**Part 3:
Call-Level Interface (SQL/CLI)**

*Technologies de l'information — Langages de base de données — SQL —
Partie 3: Interface de niveau d'appel (SQL/CLI)*
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

International Standard ISO/IEC 9075-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This second edition of this part of ISO/IEC 9075 cancels and replaces the first edition, ISO/IEC 9075-3:1995.

ISO/IEC 9075 comprises the following parts, under the general title *Information technology — Database languages — SQL*:

- *Part 1: Framework (SQL/Framework)*
- *Part 2: Foundation (SQL/Foundation)*
- *Part 3: Call-Level Interface (SQL/CLI)*
- *Part 4: Persistent Stored Modules (SQL/PSM)*
- *Part 5: Host Language Bindings (SQL/Bindings)*

Annexes A, B, C, D, E, F, and G of this part of ISO/IEC 9075 are for information only.

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Introduction

The organization of this part of ISO/IEC 9075 is as follows:

- 1) Clause 1, "Scope", specifies the scope of this part of ISO/IEC 9075.
- 2) Clause 2, "Normative references", identifies additional standards that, through reference in this part of ISO/IEC 9075, constitute provisions of this part of ISO/IEC 9075.
- 3) Clause 3, "Definitions, notations, and conventions", defines the notations and conventions used in this part of ISO/IEC 9075.
- 4) Clause 4, "Concepts", presents concepts used in the definition of the Call-Level Interface.
- 5) Clause 5, "Call-Level Interface specifications", defines facilities for using SQL through a Call-Level Interface.
- 6) Clause 6, "SQL/CLI routines", defines each of the routines that comprise the Call-Level Interface.
- 7) Clause 7, "Definition Schema", specifies extensions to the Definition Schema required for support of the Call-Level Interface.
- 8) Clause 8, "Conformance", defines the criteria for conformance to this part of ISO/IEC 9075.
- 9) Annex A, "Typical header files", is an informative Annex. It provides examples of typical definition files for application programs using the SQL Call-Level Interface.
- 10) Annex B, "Sample C programs", is an informative Annex. It provides examples of using the SQL Call-Level Interface from the C programming language.
- 11) Annex C, "Implementation-defined elements", is an informative Annex. It lists those features for which the body of this part of ISO/IEC 9075 states that the syntax, the meaning, the returned results, the effect on SQL-data and/or schemas, or any other behavior is partly or wholly implementation-defined.
- 12) Annex D, "Implementation-dependent elements", is an informative Annex. It lists those features for which the body of this part of ISO/IEC 9075 states that the syntax, the meaning, the returned results, the effect on SQL-data and/or schemas, or any other behavior is partly or wholly implementation-dependent.
- 13) Annex E, "Incompatibilities with ISO/IEC 9075-3:1995", is an informative Annex. It identifies incompatibilities with ISO/IEC 9075-3:1995.
- 14) Annex F, "Deprecated features", is an informative Annex. It lists features that the responsible Technical Committee intends will not appear in a future revised version of ISO/IEC 9075.
- 15) Annex G, "SQL feature and package taxonomy", is an informative Annex. It contains a taxonomy of features of the SQL language that are specified in this part of ISO/IEC 9075.

In the text of this part of ISO/IEC 9075, Clauses begin a new odd-numbered page, and in Clause 5, “Call-Level Interface specifications”, through Clause 8, “Conformance”, Subclauses begin a new page. Any resulting blank space is not significant.

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Information technology — Database languages — SQL — Part 3: Call-Level Interface (SQL/CLI)

1 Scope

This part of ISO/IEC 9075 defines the structures and procedures that may be used to execute statements of the database language SQL from within an application written in a standard programming language in such a way that procedures used are independent of the SQL statements to be executed.

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