

Australian Standard™

**Information technology—Database
languages—SQL**

**Part 11: Information and Definition
Schemas (SQL Schemata)**



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languages—SQL**

**Part 11: Information and Definition
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PREFACE

This Standard was prepared by the Standards Australia Committee IT-027, Data Management and Interchange.

This Standard is identical with, and has been reproduced from ISO/IEC 9075-11:2003, *Information technology—Database languages—SQL—Part 11: Information and Definition Schemas (SQL/Schemata)*.

The objective of this Standard is to provide database designers, administrators and developers with an information schema and definition schema that describes: SQL object identifier, structure and integrity constraints and security and authorization specifications relating to SQL data.

This Standard is Part 11 of AS 9075, *Information technology—Database languages—SQL*, which is published in parts as follows:

- 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)
- Part 9: Management of External Data (SQL/MED)
- Part 10: Object Language Bindings (SQL/OLB)
- Part 11: Information and Definition Schemas (SQL/Schemata) (This Standard)
- Part 13: SQL Routines and Types Using the Java™ Programming Language (SQL/JRT)
- Part 14: XML-Related Specifications (SQL/XML)

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- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of ISO/IEC 9075’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO/IEC		AS	
9075	Information technology—Database languages—SQL	9075	Information technology—Database languages—SQL
9075-1	Part 1: Framework (SQL/Framework)	9075.1	Part 1: Framework (SQL/Framework)
9075-2	Part 2: Foundation (SQL/Foundation)	9075.2	Part 2: Foundation (SQL/Foundation)

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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 Persistent SQL modules.
- 5) **Clause 5, “Information Schema”**, defines viewed tables that contain schema information.
- 6) **Clause 6, “Definition Schema”**, defines base tables on which the viewed tables containing schema information depend.
- 7) **Clause 7, “Conformance”**, defines the criteria for conformance to this part of ISO/IEC 9075.
- 8) **Annex A, “SQL Conformance Summary”**, is an informative Annex. It summarizes the conformance requirements of the SQL language.
- 9) **Annex B, “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.
- 10) **Annex C, “Deprecated features”**, is an informative Annex. It lists features that the responsible Technical Committee intend will not appear in a future revised version of this part of ISO/IEC 9075.
- 11) **Annex D, “Incompatibilities with ISO/IEC 9075:1999”**, is an informative Annex. It lists the incompatibilities between this edition of this part of ISO/IEC 9075 and ISO/IEC 9075:1999.
- 12) **Annex E, “SQL feature taxonomy”**, is an informative Annex. It identifies features of the SQL language specified in this part of ISO/IEC 9075 by a numeric identifier and a short descriptive name. This taxonomy is used to specify conformance and may be used to develop other profiles involving the SQL language.

In the text of this part of ISO/IEC 9075, Clauses begin a new odd-numbered page, and in **Clause 5, “Information Schema”**, through **Clause 7, “Conformance”**, Subclauses begin a new page. Any resulting blank space is not significant.

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NOTES

AUSTRALIAN STANDARD

Information technology — Database languages — SQL —

Part 11:

Information and Definition Schemas (SQL/Schemata)

1 Scope

This part of ISO/IEC 9075 specifies an Information Schema and a Definition Schema that describes:

- The SQL object identifier of ISO/IEC 9075.
- The structure and integrity constraints of SQL-data.
- The security and authorization specifications relating to SQL-data.
- The features, subfeatures, and packages of ISO/IEC 9075, and the support that each of these has in an SQL-implementation.
- The SQL-implementation information and sizing items of ISO/IEC 9075 and the values supported by an SQL-implementation.