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Australian Standard™

Information technology—Database languages—SQL

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

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee IT-027, Data Management and Interchange. It was approved on behalf of the Council of Standards Australia on 16 May 2005. This Standard was published on 16 June 2005.

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Information technology—Database languages—SQL

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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 Sschemas (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 contraints 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)

As this Standard is reproduced from an international standard, the following applies:

(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:

Reference to International Standard		*Australian Standard*	
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.

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.