Nederlandse norm

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(en)

Information technology - Database languages - SQL - Part 11: Information and Definition Schemas (SQL/Schemata) (ISO/IEC 9075-11:2011,IDT)

Vervangt NEN-ISO/IEC 9075-11:2008

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INTERNATIONAL STANDARD

ISO/IEC 9075-11

Third edition
2011-12-15

Information technology — Database languages — SQL —

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

Technologies de l'information — Langages de base de données — SQL —

Partie 11: Schémas des informations et des définitions (SQL/Schemata)

Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 9075-11 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This third edition of ISO/IEC 9075-11 cancels and replaces the second edition (ISO/IEC 9075-11:2008), which has been technically revised.

ISO/IEC 9075 consists of 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 9: Management of External Data (SQL/MED)

— Part 10: Object Language Bindings (SQL/OLB)

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

— Part 13: SQL Routines and Types Using the Java™ Programming Language (SQL/JRT)

— Part 14: XML-Related Specifications (SQL/XML)

NOTE 1 — The individual parts of multi-part standards are not necessarily published together. New editions of one or more parts may be published without publication of new editions of other parts.

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, "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.

11) Annex D, "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.

12) Annex E, "Incompatibilities with ISO/IEC 9075:2008", is an informative Annex. It lists incompatibilities with the previous version of this part of ISO/IEC 9075.

13) Annex F, "SQL feature taxonomy", is an informative Annex. It identifies features of the SQL language specified in this part of ISO/IEC 9075 by an identifier and a short descriptive name. This taxonomy is used to specify conformance.

14) Annex G, "Defect reports not addressed in this edition of this part of ISO/IEC 9075", is an informative Annex. It describes the Defect Reports that were known at the time of publication of this part of this International Standard. Each of these problems is a problem carried forward from the previous edition of ISO/IEC 9075. No new problems have been created in the drafting of this edition of this International Standard.

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

INTERNATIONAL STANDARD **ISO/IEC 9075-11:2011**

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 describe:

— The structure and integrity constraints of SQL-data.

— The security and authorization specifications relating to SQL-data.

— The features and subfeatures 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.

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2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

2.1 ISO and IEC standards

[ISO9075-1] ISO/IEC 9075-1:2011, *Information technology — Database languages — SQL — Part 1: Framework (SQL/Framework).*

[ISO9075-2] ISO/IEC 9075-2:2011, *Information technology — Database languages — SQL — Part 2: Foundation (SQL/Foundation).*

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