Australian Standard™

Information technology—Database languages—SQL multimedia and application packages

Part 2: Full-Text

STANDARDS AUSTRALIA

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Part 2: Full-Text

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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 13249-2:2003, *Information technology—Database languages—SQL multimedia application packages*—Part 2: *Full Text*.

The objective of this Standard is to define full text types for use in SQL databases by software developers.

This Standard is Part 2 of AS 13249, *Information technology—Database languages—SQL multimedia and application packages*, which is published in parts as follows:

Part 1: Framework
Part 2: Full-Text (this Standard)
Part 3: Spatial
Part 5: Still image
Part 6: Data mining

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 13249' 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 ISO/IEC	
9075	Information technology—Database languages—SQL (all parts)	9075	Information technology—Database languages—SQL (all parts)
13249	Information technology—Database languages—SQL multimedia and application packages	13249	Information technology—Database languages—SQL multimedia and application packages
13249-1	Part 1: Framework	13249.1	Part 1: Framework

Only international references that have been adopted as Australian Standards have been listed.

CONTENTS

Page

Page

Page

Page

TABLES

Page

INTRODUCTION

The purpose of this International Standard is to define multimedia and application specific types and their associated routines using the user-defined features in ISO/IEC 9075.

This document is based on the content of ISO/IEC International Standard Database Language (SQL).

The organization of this part of ISO/IEC 13249 is as follows:

1) Clause 1, "Scope", specifies the scope of this part of ISO/IEC 13249.
2) Clause 2, "Normative references", identifies additional standards that, through reference in this part of ISO/IEC 13249, constitute provisions of this part of ISO/IEC 13249.
3) Clause 3, "Terms and definitions, notations and conventions", defines the notations and conventions used in this part of ISO/IEC 13249.
4) Clause 4, "Concepts", presents concepts used in the definition of this part of ISO/IEC 13249.
5) Clause 5, "Full-Text Types", defines the full-text user-defined types and associated routines.
6) Clause 6, "Structured Search Pattern Types", defines user-defined types to provide for the construction of structured search patterns.
7) Clause 7, "FullText_Token Type and Routines", defines the user-defined FullText_Token type.
8) Clause 8, "SQL/MM Full-Text Thesaurus Schema", defines the SQL/MM Full-Text thesaurus schema used to define the thesaurus related routines.
9) Clause 9, "SQL/MM Full-Text Information Schema", defines the SQL/MM Full-Text Information Schema.
10) Clause 10, "SQL/MM Full-Text Definition Schema", defines the SQL/MM Full-Text Definition Schema.
11) Clause 11, "Status Codes", defines the SQLSTATE codes used in this part of ISO/IEC 13249.
12) Clause 12, "Conformance", defines the criteria for conformance to this part of ISO/IEC 13249.
13) Annex A, "Implementation-defined elements", is an informative Annex. It lists those features for which the body of this part of ISO/IEC 13249 states that the syntax or meaning or effect on the database is partly or wholly implementation-defined, and describes the defining information that an implementer shall provide in each case.
14) Annex B, "Implementation-dependent elements", is an informative Annex. It list those features which the body of this part of ISO/IEC 13249 states explicitly that the syntax or meaning or effect on the database is implementation-dependent.

In the text of this part of ISO/IEC 13249, Clauses begin a new odd-numbered page, and in Clause 5, "Full-Text Types", through Clause 12, "Conformance", Subclauses begin a new page. Any resulting blank space is not significant.

AUSTRALIAN STANDARD

Information technology—Database languages—SQL multimedia and application packages

Part 2: Full-Text

1 Scope

This part of ISO/IEC 13249:

a) introduces the Full-Text part of ISO/IEC 13249 (all parts);

b) gives the references necessary for this part of ISO/IEC 13249;

c) defines notations and conventions specific to this part of ISO/IEC 13249;

d) defines concepts specific to this part of ISO/IEC 13249;

e) defines the full-text user-defined types and their associated routines.

The full-text user-defined types defined in this part of ISO/IEC 13249 adhere to the following.

— A full-text user-defined type is generic to text handling. It addresses the need to search and retrieve information based on aspects of full-text data using patterns such as words, phrases, proximity expansion, fuzzy expansion, and thesaurus based expansions. It also addresses the need to construct such search patterns for text identification facilities and text ranking facilities.

— A full-text user-defined type does not redefine the database language SQL directly or in combination with another full-text data type.

An implementation of this part of ISO/IEC 13249 may exist in environments that also support information and content management, decision support, data mining, and data warehousing systems.

Application areas addressed by implementations of this part of ISO/IEC 13249 include, but are not restricted to, library, newspaper, multimedia, and scientific research applications.