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**Information technology — Database  
languages — SQL multimedia and  
application packages —**

**Part 1:  
Framework**

**iTeh STANDARD PREVIEW**  
*Technologies de l'information — Langages de bases de données —  
Multimédia SQL et paquetages d'application —  
(standards.iteh.ai)*  
*Partie 1: Cadre général*

ISO/IEC 13249-1:2002

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of the joint technical committee is to prepare International Standards. 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 part of ISO/IEC 13249 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 13249-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This second edition cancels and replaces the first edition (ISO/IEC 13249-1:2000), which has been technically revised.

ISO/IEC 13249 consists of the following parts, under the general title *Information technology — Database languages — SQL multimedia and application packages*:

- Part 1: Framework
- Part 2: Full-Text
- Part 3: Spatial
- Part 5: Still Image
- Part 6: Data mining

Parts other than this part specify requirements, and all are dependent on various parts of ISO/IEC 9075 and also on this part of ISO/IEC 13249.

Annex A of this part of ISO/IEC 13249 is for information only.

## Introduction

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 ISO/IEC 13249, constitute provisions of this part of ISO/IEC 13249, and hence to all parts of ISO/IEC 13249.
- 3) Clause 3, "Terms and definitions", specifies terms and definitions used in ISO/IEC 13249.
- 4) Clause 4, "Concepts", describes the concepts used in ISO/IEC 13249.
- 5) Clause 5, "Parts of ISO/IEC 13249", summarises the content of each of the parts of ISO/IEC 13249.
- 6) Clause 6, "Notation and conventions used in other parts", defines the notation and conventions used in other parts of ISO/IEC 13249.
- 7) Clause 7, "Implementation requirements", describes the requirements relating to the implementation of ISO/IEC 13249.
- 8) Clause 8, "Conformance", specifies the conformance requirements for all or some of the parts of ISO/IEC 13249.
- 9) Annex A, "ISO/IEC JTC1 formal procedure" is an informative Annex. It describes the formal procedures for maintenance and interpretation of ISO/IEC 13249.

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# Information technology — Database languages — SQL multimedia and application packages —

## Part 1: Framework

### 1 Scope

ISO/IEC 13249 defines a number of packages of generic data types common to various kinds of data used in multimedia and application areas, to enable that data to be stored and manipulated in an SQL database. The package in each subject area is defined as a part of ISO/IEC 13249. Clause 1, "Scope", of that part defines its subject area.

This part of ISO/IEC 13249 defines those concepts, notations and conventions that are common to two or more other parts of ISO/IEC 13249. In particular it describes the way ISO/IEC 9075 is used in other parts to define the user-defined types and their behaviour appropriate to each subject area.

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## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 13249. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 13249 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 9075-1:1999, *Information technology — Database languages — SQL — Part 1: Framework (SQL/Framework)*

ISO/IEC 9075-2:1999, *Information technology — Database languages — SQL — Part 2: Foundation (SQL/Foundation)*

ISO/IEC 9075-4:1999, *Information technology — Database languages — SQL — Part 4: Persistent Stored Modules (SQL/PSM)*

ISO/IEC 9075-11:—<sup>1</sup>, *Information technology — Database languages — SQL — Part 11: Information and definition schemas (SQL/schemata)*

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### 3 Terms and definitions

#### 3.1 Definitions taken from ISO/IEC 9075

The following terms defined in ISO/IEC 9075 are used either in this part of ISO/IEC 13249 or in other parts of ISO/IEC 13249.

- a) assignment
- b) attribute
- c) cardinality
- d) compilation unit
- e) constructor function
- f) data type
- g) declared type
- h) definition schema
- i) descriptor
- j) external routine
- k) identifier
- l) implementation-defined
- m) implementation-dependent
- n) information schema
- o) instance (of a value)
- p) mutator function
- q) null value
- r) observer function
- s) row
- t) sequence
- u) signature (of an SQL-invoked routine)
- v) SQL-environment
- w) SQL-implementation
- x) SQL-invoked method
- y) SQL-invoked routine

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