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Information technology — Guidance for the use of database language SQL —

Part 1: XQuery regular expressions

Technologies de l'information — Recommandations pour l'utilisation du langage de base de données SQL —

Partie 1: Expressions régulières de XQuery en SQL

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This first edition of ISO/IEC 19075-1 cancels and replaces ISO/IEC TR 19075-1:2011.

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— ISO/IEC 9075-1, sixth edition or later;

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— ISO/IEC 9075-9, fifth edition or later;

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Introduction

The organization of this document is as follows:

1) Clause 1, "Scope", specifies the scope of this document.
2) Clause 2, "Normative references", identifies additional standards that, through reference in this document, constitute provisions of this document.
3) Clause 3, "Terms and definitions", defines the terms and definitions used in this document.
4) Clause 4, "XQuery regular expressions", explains how XQuery regular expressions are formed.
5) Clause 5, "Operators using regular expressions", explains how the SQL operators use regular expressions.

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Information technology — Guidance for the use of database language SQL —

Part 1:
XQuery regular expressions

1 Scope

This document describes the regular expression support in SQL (ISO/IEC 9075-2) adopted from the regular expression syntax of XQuery and XPath Functions and Operators 3.1, which is derived from Perl. This document discusses five operators using this regular expression syntax:

— LIKE_REGEX predicate, to determine the existence of a match to a regular expression.

— OCCURRENCES_REGEX numeric function, to determine the number of matches to a regular expression.

— POSITION_REGEX function, to determine the position of a match.

— SUBSTRING_REGEX function, to extract a substring matching a regular expression.

— TRANSLATE_REGEX function, to perform replacements using a regular expression.

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2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

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

ISO/IEC 9075-14, *Information technology — Database languages — SQL — Part 14: XML-Related Specifications (SQL/XML)*

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