



BSI Standards Publication

Information technology — Guidance for the use of database language SQL

Part 1: XQuery regular expressions

National foreword

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

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- ISO/IEC 9075-9, fifth edition or later;
- ISO/IEC 9075-10, 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.

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.