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Part 5: Row pattern recognition

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

Partie 5: Reconnaissance de formes de lignes

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Foreword

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— ISO/IEC 9075-3, sixth edition or later;

— ISO/IEC 9075-4, seventh edition or later;

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

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Introduction

This document discusses the syntax and semantics for recognizing patterns in rows of a table, as defined in ISO/IEC 9075-2.

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, "Row pattern recognition: FROM clause", discusses Feature R010, "Row pattern recognition: FROM clause".

5) Clause 5, "Expressions in MEASURES and DEFINE", discusses scalar expression syntax in row pattern matching.

6) Clause 6, "Row pattern recognition: WINDOW clause", discusses Feature R020, "Row pattern recognition: WINDOW clause". Clause 6, "Row pattern recognition: WINDOW clause", does not duplicate material already presented in Clause 4, "Row pattern recognition: FROM clause" and Clause 5, "Expressions in MEASURES and DEFINE", which should be read even if the reader is only interested in Feature R020, "Row pattern recognition: WINDOW clause".

7) Clause 7, "Pattern matching rules", discusses the formal rules of pattern matching.

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

Part 5:
Row pattern recognition

1 Scope

This document discusses the syntax and semantics for recognizing patterns in rows of a table, as defined in ISO/IEC 9075-2, commonly called “SQL/RPR”.

SQL/RPR defines two features regarding row pattern recognition:

— Feature R010, “Row pattern recognition: FROM clause”

— Feature R020, “Row pattern recognition: WINDOW clause”

These two features have considerable syntax and semantics in common, the principle difference being whether the syntax is placed in the FROM clause or in the WINDOW clause.

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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)*

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 9075-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

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