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

**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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## Contents

Page

Foreword.....	vii
Introduction.....	ix
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>2</b>
<b>3 Terms and definitions.....</b>	<b>3</b>
<b>4 Row pattern recognition: FROM clause.....</b>	<b>4</b>
4.1 Context of row pattern recognition.....	4
4.2 Introduction to the FROM clause in row pattern recognition.....	4
4.3 Example of ONE ROW PER MATCH.....	4
4.4 Example of ALL ROWS PER MATCH.....	7
4.5 Summary of the syntax.....	9
4.6 The row pattern input table.....	10
4.6.1 Introduction to the row pattern input table.....	10
4.6.2 The row pattern input name.....	11
4.6.3 The row pattern input declared column list.....	12
4.7 MATCH_RECOGNIZE.....	13
4.8 PARTITION BY.....	13
4.9 ORDER BY.....	13
4.10 Row pattern variables.....	13
4.11 MEASURES.....	14
4.12 ONE ROW PER MATCH vs ALL ROWS PER MATCH.....	15
4.12.1 Introduction to use of ROWS PER MATCH.....	15
4.12.2 Handling empty matches.....	15
4.12.3 Handling unmatched rows.....	19
4.13 AFTER MATCH SKIP.....	21
4.14 PATTERN.....	22
4.14.1 Introduction to the PATTERN syntax.....	22
4.14.2 PERMUTE.....	23
4.14.3 Excluding portions of the pattern.....	24
4.15 SUBSET.....	25
4.16 DEFINE.....	26
4.17 The row pattern output table.....	27
4.17.1 Introduction to the row pattern output table.....	27
4.17.2 Row pattern output name.....	28
4.17.3 Row pattern output declared column list.....	28
4.18 Prohibited nesting.....	29
4.18.1 Introduction to prohibited nesting.....	29
4.18.2 Row pattern recognition nested within another row pattern recognition.....	30

4.18.3	Outer references within a row pattern recognition query. . . . .	30
4.18.4	Conventional query nested within row pattern recognition query. . . . .	31
4.18.5	Recursion. . . . .	32
4.18.6	Concatenated row pattern recognition. . . . .	32
<b>5</b>	<b>Expressions in MEASURES and DEFINE. . . . .</b>	<b>33</b>
5.1	Introduction to the use of expressions in MEASURES and DEFINE. . . . .	33
5.2	Row pattern column references. . . . .	33
5.3	Running vs. final semantics. . . . .	34
5.4	RUNNING vs.FINAL keywords. . . . .	38
5.5	Aggregates. . . . .	39
5.6	Row pattern navigation operations. . . . .	39
5.6.1	The four operations. . . . .	39
5.6.2	PREV and NEXT. . . . .	39
5.6.3	FIRST and LAST. . . . .	41
5.6.4	Nesting FIRST and LAST within PREV or NEXT . . . . .	42
5.7	Ordinary row pattern column references reconsidered. . . . .	43
5.8	MATCH_NUMBER function. . . . .	44
5.9	CLASSIFIER function. . . . .	44
<b>6</b>	<b>Row pattern recognition: WINDOW clause. . . . .</b>	<b>48</b>
6.1	Introduction to the WINDOW clause. . . . .	48
6.2	Example of row pattern recognition in a window. . . . .	48
6.3	Summary of the syntax. . . . .	50
6.3.1	Syntax components. . . . .	50
6.3.2	Syntactic comparison to windows without row pattern recognition. . . . .	51
6.3.3	Syntactic comparison to MATCH_RECOGNIZE. . . . .	52
6.4	Row pattern input table. . . . .	52
6.5	Row pattern variables and other range variables. . . . .	52
6.6	Windows defined on windows. . . . .	54
6.7	PARTITION BY. . . . .	55
6.8	ORDER BY. . . . .	55
6.9	MEASURES. . . . .	55
6.10	Full window frame and reduced window frame. . . . .	55
6.10.1	Introduction to window framing . . . . .	55
6.10.2	ROWS BETWEEN CURRENT ROW AND . . . . .	56
6.10.3	EXCLUDE NO OTHERS. . . . .	56
6.11	AFTER MATCH SKIP. . . . .	56
6.12	INITIAL vs SEEK. . . . .	57
6.13	PATTERN. . . . .	57
6.14	SUBSET. . . . .	57
6.15	DEFINE. . . . .	57
6.16	Empty matches and empty reduced window frames. . . . .	57
6.17	Prohibited nesting. . . . .	59
6.17.1	Restrictions on nesting. . . . .	59
6.17.2	Row pattern recognition nested within another row pattern recognition. . . . .	60
6.17.3	Outer references within a row pattern recognition query. . . . .	60
6.17.4	Conventional query nested within row pattern recognition query. . . . .	61
6.17.5	Recursion. . . . .	61

6.17.6	Concatenated row pattern recognition. ....	61
<b>7</b>	<b>Pattern matching rules. ....</b>	<b>63</b>
7.1	Regular expression engines. ....	63
7.2	Parenthesized language and preferment. ....	64
7.2.1	Introduction to parenthesized language and preferment. ....	64
7.2.2	Alternation. ....	65
7.2.3	Concatenation. ....	65
7.2.4	Quantification. ....	66
7.2.5	Exclusion. ....	67
7.2.6	Anchors. ....	68
7.2.7	The empty pattern. ....	68
7.2.8	Infinite repetitions of empty matches. ....	68
7.3	Pattern matching in theory and practice. ....	70
<b>Index. ....</b>		<b>73</b>

## Tables

Table	Page
1 Sample data. ....	7
2 Results of ONE ROW PER MATCH. ....	7
3 Results of ALL ROWS PER MATCH. ....	8
4 Row pattern recognition syntax summary. ....	9
5 Analysis of sample data permitting empty matches. ....	16
6 Result of query permitting empty matches. ....	16
7 Results of query using SHOW EMPTY ROWS. ....	18
8 Results of query using OMIT EMPTY ROWS. ....	18
9 Results of ALL ROWS PER MATCH. ....	20
10 Original and renamed column names. ....	29
11 Ordered row pattern partition of data. ....	35
12 RUNNING and FINAL in MEASURES. ....	36
13 Ordered row pattern partition of data. ....	37
14 Ordered row pattern partition of data. ....	37
15 Example data set and mappings for FIRST and LAST. ....	41
16 Data set and mappings for nesting example. ....	43
17 Window example query results. ....	50
18 Row pattern recognition in windows — syntax summary. ....	51
19 Results for empty match and no match. ....	58
20 Computation of matches and window function results. ....	59
21 Input data. ....	71
22 Mapping of first element. ....	71
23 Mapping of second element. ....	72
24 Mapping of third element. ....	72

## 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.

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This first edition of ISO/IEC 19075-5 cancels and replaces ISO/IEC TR 19075-5:2016.

This document is intended to be used in conjunction with the following editions of the parts of the ISO/IEC 9075 series:

- ISO/IEC 9075-1, sixth edition or later;
- ISO/IEC 9075-2, sixth edition or later;
- ISO/IEC 9075-3, sixth edition or later;
- ISO/IEC 9075-4, seventh edition or later;
- ISO/IEC 9075-9, fifth edition or later;
- ISO/IEC 9075-10, fifth edition or later;
- ISO/IEC 9075-11, fifth edition or later;
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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

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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.



**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.

## 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)*