



INTERNATIONAL STANDARD ISO/IEC 9075-2:2016
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**Information technology — Database languages — SQL —
Part 2: Foundation (SQL/Foundation)**

TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Langages de base de données — SQL —
Partie 2: Fondations (SQL/Fondations)*

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 9075-2:2016 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

2 Normative references

2.2 Other international standards

1. *Rationale: Replace invalid URI.*

Replace the normative reference for RFC 7159 with:

[RFC7159] Internet Engineering Task Force, RFC 7159, *The JavaScript Object Notation (JSON) Data Interchange Format*, March 2014; <https://datatracker.ietf.org/doc/rfc7159/>

4 Concepts

4.23 Integrity constraints

4.23.3 Table constraints

4.23.3.2 Unique constraints

1. *Rationale: Clarify uniqueness in the presence of nulls.*

Replace the 2nd, 3rd and 4th paragraphs with:

Let *T* be a table and let *R1* and *R2* be two rows of *T*. If there is some column for which the corresponding values from *R1* and *R2* are not equal, *R1* and *R2* are *unique with nulls distinct*. If there is some column for which the corresponding values from *R1* and *R2* are distinct, *R1* and *R2* are *unique with nulls not distinct*. If all column values of both *R1* and *R2* are the null value, it is implementation-defined whether *R1* and *R2* are unique with nulls distinct, or unique with nulls not distinct. It is implementation-defined whether the *implementation uniqueness rule* is unique with nulls distinct or unique with nulls not distinct.

If the table descriptor for base table *T* includes a unique constraint descriptor indicating that the unique constraint was defined with PRIMARY KEY, then the columns of that unique constraint constitute the *primary key* of *T*. A table that has a primary key cannot have a proper supertable.

Let *T* be a base table and let *R1* and *R2* be two rows of *T*. Let *UC* be a unique constraint on *T*. If *T* is a system-versioned table, let *R1* and *R2* be two current system rows of *T*. If *UC* includes a <without overlap specification> *WOS*, let *ATPN* be the <application time period name> contained in *WOS*; *R1* and *R2* must additionally be such that the *ATPN* period values of *R1* and *R2* overlap. Let *UR1* and *UR2* be rows containing only the unique columns of *R1* and *R2* respectively.

UC is satisfied if and only if for every such *UR1* and *UR2*, the implementation uniqueness rule holds.