



INTERNATIONAL STANDARD ISO/IEC 9075-14:2016
TECHNICAL CORRIGENDUM 2

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

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Langages de base de données — SQL — Partie 14: Spécifications relatives au XML (SQL/XML)

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 9075-14:2016 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

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4 Concepts

4.2 XML

4.2.3 Characteristics of XML values

1. *Rationale: Replace non-normative text with required normative text.*

Add the following paragraph to the end of the Subclause.

Two XML values are regarded as equivalent as specified in Subclause 10.7, “Determination of equivalent XML values”.

6 Scalar expressions

6.6 <XML cast specification>

1. *Rationale: Correct an ambiguity.*

Replace General Rule 4) g) with:

4) ...

- g) Let **XSC** and **XDC** be augmented with an XQuery variable **\$TEMP** whose XQuery formal type notation is “**xs:anyAtomicType+**” and whose value is **AV**.

2. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of General Rule 4) i) viii) 2) with:

4) ...

i) ...

viii) ...

- 2) If *SQLT* is TIME WITH TIME ZONE, then:

Case:

7 Query expressions

7.1 <table reference>

1. *Rationale: Correct an incorrect syntactic transformation.*

Replace Syntax Rule 5) h) with:

5) ...

- h) *TP* is equivalent to the <table primary>

```
LATERAL
  ( XNDC
    SELECT SLI1 AS CN1, SLI2 AS CN2, . . . , SLINC AS CNNC
    FROM XMLITERATE ( XMLQUERY ( XTRP XQAL
                                RETURNING SEQUENCE BY REF EMPTY ON EMPTY ) )
    AS I ( V, N )
  ) AS CORR DCLP
```

8 Predicates

8.1 <predicate>

1. *Rationale: Supply missing definition.*

Insert the following Syntax Rules:

- 1) Insert after SR 1) f) *P* contains a <XML valid predicate> *XVP* that satisfies one of the following:
 - a) *XVP* does not specify <XML valid according to clause>.
 - b) *XVP* specifies an <XML valid according to clause> that identifies a non-deterministic registered XML Schema and *XVP* does not specify an <XML valid element name specification> of an <XML valid element namespace specification>.
 - c) *XVP* specifies an <XML valid according to clause> that identifies a non-deterministic XML namespace and *XVP* does not specify an <XML valid element name specification>.
 - d) *XVP* specifies an <XML valid element clause> that identifies a non-deterministic global element declaration schema component of a registered XML Schema.
- 2) Insert after SR 1) f) *P* contains a <XML exists predicate> that does not conform to implementation-defined rules enabling the SQL-implementation to deduce that the result of the <XML exists predicate> is deterministic.

9 Mappings

9.5 Mapping SQL data types to XML Schema data types

1. *Rationale: Correct the syntax.*

Replace General Rule 7) i) ii) with:

- 7) ...
 - i) ...
 - ii) Let the XML text ***TZ*** be:

$$(\backslash+|-)\backslash\mathbf{P}\{\mathbf{Nd}\}\{2\}:\backslash\mathbf{P}\{\mathbf{Nd}\}\{2\}$$

2. *Rationale: Correct the syntax.*

Replace General Rule 7) k) iii) with:

- 7) ...
 - k) ...
 - iii) Let the XML text **TZ** be:
 $(\backslash+|-)\backslash\mathbf{Nd}\{2\}:\backslash\mathbf{Nd}\{2\}$

9.10 Mapping an SQL table to an XML element or a sequence of XML elements

1. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of General Rule 5) a) with:

- 5) ...
 - a) If XSL is not the zero-length string, then:
Case:

9.13 Mapping an SQL schema to an XML element

1. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of General Rule 6) a) with:

- 6) ...
 - a) If XSL is not the zero-length string, then:
Case:

9.16 Mapping an SQL catalog to an XML element

1. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of General Rule 6) a) with:

- 6) ...
 - a) If XSL is not the zero-length string, then:
Case:

10 Additional common rules

10.7 Determination of equivalent XML values

1. *Rationale: Replace non-normative text with required normative text.*

Delete Note 80.

10.21 Determination of an XQuery formal type notation

1. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of Syntax Rule 5) c) with:

- 5) ...
 - c) If *SD* is XML(DOCUMENT(XMLSCHEMA)), then:
Case:

2. *Rationale: Correct an error in the rule structuring.*

Replace the lead text of Syntax Rule 5) f) with:

- 5) ...
 - f) If *SD* is XML(CONTENT(XMLSCHEMA)), then:
Case:

21 Information Schema

21.15 Short name views

1. *Rationale: Add missing Conformance Rules.*

Insert the following Conformance Rules:

- 5) Insert this CR Without Feature X160, “Basic Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.ATTRIBUTES_S:
 - a) XML_SCHEMA_CATALOG
 - b) XML_SCHEMA_SCHEMA
 - c) XML_SCHEMA_NAME
- 6) Insert this CR Without Feature X161, “Advanced Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.ATTRIBUTES_S:

- a) XML_SCHEMA_NAMESPACE
- b) XML_SCHEMA_ELEMENT
- 7) Insert this CR Without Feature X160, “Basic Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.COLUMNS_S:
 - a) XML_SCHEMA_CATALOG
 - b) XML_SCHEMA_SCHEMA
 - c) XML_SCHEMA_NAME
- 8) Insert this CR Without Feature X161, “Advanced Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.COLUMNS_S:
 - a) XML_SCHEMA_NAMESPACE
 - b) XML_SCHEMA_ELEMENT
- 9) Insert this CR Without Feature X160, “Basic Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.DOMAINS_S:
 - a) XML_SCHEMA_CATALOG
 - b) XML_SCHEMA_SCHEMA
 - c) XML_SCHEMA_NAME
- 10) Insert this CR Without Feature X161, “Advanced Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.DOMAINS_S:
 - a) XML_SCHEMA_NAMESPACE
 - b) XML_SCHEMA_ELEMENT
- 11) Insert this CR Without Feature X160, “Basic Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.ELEMENT_TYPES_S:
 - a) XML_SCHEMA_CATALOG
 - b) XML_SCHEMA_SCHEMA
 - c) XML_SCHEMA_NAME
- 12) Insert this CR Without Feature X161, “Advanced Information Schema for registered XML Schemas”, conforming SQL language shall not reference the following columns in the view INFORMATION_SCHEMA.ELEMENT_TYPES_S:
 - a) XML_SCHEMA_NAMESPACE
 - b) XML_SCHEMA_ELEMENT