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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

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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:

```
(\+|-)\p{Nd}{2}:\p{Nd}{2}
```

2. *Rationale: Correct the syntax.*

   Replace General Rule 7) k) iii) with:

   7) ...

      k) ...

         iii) Let the XML text ***TZ*** be:

              ```
              (\+|-)\p{Nd}{2}:\p{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

