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TECHNICAL CORRIGENDUM 1

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Information technology — Database languages — SQL —

Part 5:
Host Language Bindings (SQL/Bindings)

AMENDMENT 1: On-Line Analytical Processing (SQL/OLAP)

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Langages de base de données — SQL —

Partie 5: Liants de langage d'hôte (SQL/Liants)

AMENDEMENT 1: Traitement analytique en ligne (SQL/OLAP)

RECTIFICATIF TECHNIQUE 1

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Introduction

1. Rationale: Add description of new Annex.

Insert the following point:

21) Annex F, ''Incompatibilities with ISO/IEC 9075:1992'', is an informative Annex. It lists incompatibilities with the previous version of ISO/IEC 9075.

3.3.2.1 Clause, Subclause, and Table relationships

1. Rationale: Add relationship for new Annex.

Insert the following row into Table 1 "Clause, Subclause, and Table relationships":

Clause, Subclause, or Table in this part of ISO/IEC 9075	Corresponding Clause, Subclause, or Table from another part	Part containing correspondence
Annex F, ''Incompatibilities with ISO/IEC 9075:1992''	*(none)*	*(none)*

4.1.1 Operations involving numbers

1. Rationale: Editorial.

Replace the 7th bullet of the 1st paragraph with:

— <width bucket function> is a function of four arguments, returning an integer between 0 (zero) and the value of the final argument plus 1 (one), by assigning the first argument to an equi-width partitioning of the range of numbers between the second and third arguments. Values outside the range between the second and third arguments are assigned to either 0 (zero) or the value of the final argument plus 1 (one).
NOTE 2 – The semantics of <width bucket function> are illustrated in Figure 1, ''Illustration of WIDTH_BUCKET Semantics''.

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5.1 <token> and <separator>

1. Rationale: Correct the BNF of <non-reserved word> and <reserved word>.

Replace the productions for <nonreserved word> and <reserved word> with:

```
<non-reserved word> ::=
  !! All alternatives from ISO/IEC 9075-2
| !! All alternatives from ISO/IEC 9075-5
| EXCLUDE
| FOLLOWING
| NULLS
| OTHERS
| PRECEDING
| TIES
| UNBOUNDED

<reserved word> ::=
    !! All alternatives from ISO/IEC 9075-2
  | !! All alternatives from ISO/IEC 9075-5
  | CEIL | CEILING | CORR | COVAR_POP | COVAR_SAMP | CUME_DIST
  | DENSE_RANK
  | EXP
  | FILTER | FLOOR
  | LN
  | OVER
  | PARTITION | PERCENTILE_CONT | PERCENTILE_DISC | PERCENT_RANK | POWER
  | RANGE | RANK | REGR_AVGX | REGR_AVGY | REGR_COUNT | REGR_INTERCEPT
  | REGR_R2 | REGR_SLOPE | REGR_SXX | REGR_SXY | REGR_SYY | ROW_NUMBER
  | SQRT | STDDEV_POP | STDDEV_SAMP
  | VAR_POP | VAR_SAMP
  | WIDTH_BUCKET | WINDOW | WITHIN
```

6.1 <set function specification>

1. Rationale: The definition of aggregated argument must overlay the definition in ISO/IEC 9075-2:1999 introduced by a correction elsewhere in this TC.

Replace Syntax Rule 5) with:

5) Replace SR 3.1) A <value expression> *VE* simply contained in a <set function specification> *SFE* is an aggregated argument of *SFE* if either *SFE* is not an <ordered set function> or *VE* is simply contained in a <within group specification>; otherwise, *VE* is a non-aggregated argument of *SFE*.

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