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Minutes of the CD EDITING MEETING ISO/IEC CD 13249 SQL/MM

Part 1: Framework
Part 3: Spatial
Part 6: Data Mining

ISO/IEC JTC 1/SC 32
18th April – 22nd April 2005
Berlin, Germany

1 Introduction of Participants

Participants were:

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Baba Piprani (Canada)	babap@attglobal.net
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Takaaki Shiratori (Japan)	shirator@jp.ibm.com
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2 Distribution of Documents

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18-22, 2005, Takaaki Shiratori, May 2005.

<ftp://sqlstandards.org/SC32/WG4/Meetings/WLG-2005-11-Wellington-NZL/wlg001.pdf>

3 Selection of Secretary and Drafting Committee

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18 – 22, 2005, Takaaki Shiratori, May 2005.

<ftp://sqlstandards.org/SC32/WG4/Meetings/WLG-2005-11-Wellington-NZL/wlg001.pdf>

4 Approval of Agenda

Add a new agenda item 8.8, "Canadian response paper (TXL020)" to the editing meeting agenda. The agenda is approved unanimously.

5 Review of the previous meeting minutes (WG4: TXL-011)

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18 – 22, 2005, Takaaki Shiratori, May 2005.

<ftp://sqlstandards.org/SC32/WG4/Meetings/WLG-2005-11-Wellington-NZL/wlgl001.pdf>

6 National Body Opening Comments

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18 – 22, 2005, Takaaki Shiratori, May 2005.

<ftp://sqlstandards.org/SC32/WG4/Meetings/WLG-2005-11-Wellington-NZL/wlgl001.pdf>

7 SQL/MM Part 1: Framework

7.1 SQL/MM Part 1: Framework Text 3rd Edition CD Text (WG4 STX-002 Shiratori)

The editor, Takaaki Shiratori, remarked that a revised text (WD) is available as TXL-002 for this continuous CD editing meeting, and this document reflected one possible problem which was raised in the previous San Francisco CD editing meeting. The editor mentioned that this PP is not resolved until new features introduced during this CD and forthcoming FCD editing meetings are finalized.

7.2 Summary of voting Part 1 (WG4:STX-008 SC32)

Noted.

7.3 Consolidated National Body comments Part 1(WG4:STX-011 Shiratori)

Noted.

7.4 Interim Disposition about CD Ballot Comments Part 1 (WG4:TXL-008 Shiratori)

The editor mentioned that one remaining catch all comment is remarked as a PP and all ballot comments have been resolved.

8 SQL/MM Part 3: Spatial

8.1 SQL/MM-Part 3: Spatial 3rd Edition CD Text (WG4:STX-004 Ashworth)

Noted.

8.2 Summary of voting Part 3 (WG4:STX-009 SC32)

Noted.

8.3 Consolidated National Body comments Part 3 (WG4:STX-012 Ashworth)

Noted.

8.4 Interim Disposition about CD Ballot comments Part 3 (WG4:TXL-009)

Noted.

8.5 Topo-Geo and Topo-Net 2: Concepts, The Sequel (WG4:TXL-016)

Paul Scarponcini presented the paper, and mentioned that this paper addresses 11 points raised in the possible problem 3-303 and the 2 points (2nd through 3rd points) raised in the possible problem 3-304. Paul mentioned that for solving the Spatial CD Ballot Comments GBR-P03-001 and USA-P03-001, resolution of these possible problems by this paper, in conjunction with other two papers TXL-017 and TXL-018, is required.

Baba Piprani presented Canadian comments on TXL-016 according to section 1.1 in a Canadian response paper TXL-020r1 on behalf of Mark Ashworth, SQL/MM Spatial project editor. Paul Scarponcini, as the owner of TXL-016r1, clarified whether he agrees to the comments from the editor as follows:

- a), b) Accepted the comments with the following amendments:
 - "a node" is to be "a common node" and "an edge" is to be "a common edge".
 - Making a "Note" to include "Heal is the reverse operation of split" and "Split is reverse operation of heal" under 3.1.2.24+1 and 3.1.2.40+1 respectively since these are descriptive text rather than definitive text.
- c) As for item 1), Paul suggested adding "topological complex" to Sub-clause 3.1.4, "Definitions taken from ISO 19107", to include a reference to TC211 definition about "topology complex".
As for item 5), Paul responded that the touches condition is covered by item 4) of 3.1.2.41+1 in section 2.1 of this paper.
As for item 11), deleted "same" from "the same topology".
- d) Accepted the comment.
- e) Accepted the comment, and Paul mentioned that another description is needed that states that a "<network-name> is an SQL-schema". Paul expressed his intention to handle these changes in XL-016r2.
- f) Paul didn't agree to this comment, since "known not nullable" and "possibly nullable" are consistent with ISO 9075-2.
- g) Paul didn't agree to this comment because of the following reasons:
 - Since Envelop in TC211 is a data type, it is inconsistent to "envelop" in SQL/MM Spatial.
 - MBR has a different meaning from Envelop in TC211.Paul expressed his intention to discuss this matter with Mark Ashworth during the FCD editing phase and suggested that the editor leave the existing text as it is in this progression.
- h) Krishna Kulkarni mentioned that this is an SQL issue, and suggested that the editor should come back after investigation, and therefore, the comment should be rejected in the mean time.

The convener requested Paul to revise his paper, TXL-016 and TXL-017, to incorporate all amendments discussed during this editing meeting. Paul accepted that as his action item.

The paper was accepted as amended with no objection.

8.6 Topo-Geo and Topo-Net 3: Routine Details (WG4:TXL-017)

Paul Scarponcini presented the paper, and mentioned that this paper details TXL-016 in order to resolve Spatial CD Ballot Comments, GBR-P03-001 and USA-P03-001, in conjunction with other two papers, TXL-016 and TXL-018.

Baba Piprani presented Canadian comments on TXL-016 according to section 1.2 in a Canadian response paper TXL-020r1 on behalf of Mark Ashworth, SQL/MM Spatial project editor. Paul Scarponcini, as the owner of TXL-017r1, clarified whether he agrees to the comments from the editor. The following discussions were made:

- a) Paul accepted the comment. Paul Scarpomcini mentioned that he reflected this editorial comment in TXL-017r1.
- b) Accepted the comment. Paul mentioned that he reflected the comment in TXL-017r1.
- c) Paul mentioned that his understanding about coverage of a base table in Topo-Geo topology schema is different from understanding by Mark.
Mike Newton asked Paul about this implication.
Paul responded that Mark assumes that there is a single base table that contains all primitives from a number of different topology schemes, but Paul's understanding is that each topology schema (such as topo_geo1, topo_geo2) has a base table individually.
Baba Piprani said he will check Mark on this matter.
- d) Paul responded that this is a normal execution error. He referred to Description 2)a) and added that SQL to cover the error.
- e) Paul responded that he intends to replace "the next available" with "a unique".
Krishna Kulkarni added his comment that using a word "automatically" is questionable.
Paul expressed his intention to revise Description 2)f)i) in X.3.1, "ST_AddIsoNode Function", as follows:
automatically generate ~~the next available~~ **a unique** node id INTEGER value anodeid,
Paul continued that Mark Ashworth suggests text for replacement and another alternative in TXL-020r1, and asked a Canadian delegation to propose a specific text in FCD phase.
- f) Accepted the comment. Paul mentioned that he replaced "function" with "routine" in TXL-016r1 to be consistent with TXL-017r1.
- g) Paul asked clarification of this comment. Krishna Kulkarni mentioned that lack of column names is acceptable since those names are identified according to the definition of ST_EDGE view in Sub-clause X.1.3.
- h) Paul responded that he wants to change the existing constraints about NEXT_LEFT_EDGE and NEXT_RIGHT_EDGE in page 10 of this paper to check these absolute values as follows:
CHECK (ABS(NEXT_LEFT_EDGE)) in (select EDGE_ID from ST_EDGE))
CHECK (ABS(NEXT_RIGHT_EDGE)) in (select EDGE_ID from ST_EDGE))
- i) Paul responded that as for X.3.4, points are covered by Descriptions, and rejected the comment.
- j) Paul responded that he added text to specify that the values are in ascending order and start from 1 in TXL-017r1.
- k) Paul responded that he intends to update the Description 2)c) accordingly.
- l) Accepted the comment that is editorial change.
- m) Accepted the comment, and Paul responded that he corrected this in TXL-017r1.
- n) Paul responded that this is not just a wording matter, and suggested this is handled as a new Possible Problem.
- p) Paul suggested this is also handled as a new Possible Problem.
- q) Accepted the comment.
- r) Baba Piprani suggested that the text should have consistent style with other rules. Paul responded that he wants to leave this as an Editing Opportunity.
- s) Paul responded that this paper intends to define consistent handling of topology with TC211, and that TC211 defines such a transformation that generates a Topo-Geo from a collection of polygon geometries, instead of topo primitives. Paul expressed his understanding that the current description in Subclause X.3.18, "ST_CREATETopoGeo Procedure", is enough with answering the comment item s)1) through s)4) in TXL-020r1 as follows:
— As for s)1) and s)2), he is overlapping what he want to mention about various geometry primitives in the text of Description 2)j)i), and therefore he doesn't think he needs to mention each geometry primitives individually in 2)j)ii) through 2)j) iv).
— As for s)3), the current description is complete in his understanding.

- As for s)4), programmers are responsible for calling ST_ValidateTopoGeom to make sure topo-geo is valid if needed, and users trust programmers.
- t) As for item i), Paul responded that he fixed the problem by revising text of Description 2)c)viii) in TXL-017r1. Paul also mentioned that he believes Mark's example in TXL-020r1 is not correct. As for item ii), Paul requested that the editor should propose appropriate text in FCD editing phase. This is regarded as an action item to the editor.
- u) Accepted the comment.
- v) Paul responded that he reflected the comment in TXL-018.
- w) Paul responded that the comment is addressed by TXL-018 based on acceptance of TXL-016 and TXL-017.

The convener requested Paul to reflect all amendments discussed into a revised paper TXL-017r2. Paul accepted that as his action item.

The CD editing meeting moved to the discussion of TXL-018. (See section 8.7 of this minutes.)

8.7 Topo-Geo and Topo-Net 4: The Rest of the Story (WG4:TXL-018)

Paul Scarponcini presented the paper, and mentioned that this paper, together with TXL-016r1 and TXL-017r1, addresses the possible problem 3-303 and 3-304 to resolve Spatial CD Ballot Comments, GBR-P03-001 and USA-P03-001.

Baba Piprani presented Canadian comments on TXL-018 according to a Canadian response paper TXL-021 on behalf of Mark Ashworth, SQL/MM Spatial project editor. Paul Scarponcini, as the owner of TXL-018, clarified whether he agrees to the comments from the editor.

In the following, bullet number 3.1 through 3.3 represent section number in TXL-021.

- 3.1 Paul Scarponcini mentioned that item 1 of PP 3-303 is resolved by revised text of Description 2)c)ii) and iii) of X.3.17 in TXL-017r2 and that item 2 of PP 3-303 is resolved in TXL-016r1 (See item "f" in section 8.6 of this meeting minutes). PP 3-303 is closed.
- 3.2 Accepted the comment.
- 3.3 Accepted the comment. Paul revises the paper as TXL—18r1 to enhance Subclause 17.2 and to incorporate suggested changes in Subclause 17.3 according to the comment.

The paper as amended was passed unanimously.

According to this, Spatial CD ballot comments GBR-P03-001 and USA-P03-001 are resolved.

8.8 Canadian response paper to TXL-016 and TXL-017 (TXL020)

Baba Piprani presented the paper, and the paper was discussed. See section 8.5 and 8.6 of this meeting minutes.

8.9 Canadian response paper to TXL-018 (TXL021)

Baba Piprani presented the paper, and the paper was discussed. See section 8.7 of this meeting minutes.

9 SQL/MM Part 6: DataMining

9.1 SQL/MM-Part 6: Data Mining 2nd Edition CD Text (WG4:STX-006 Lingenfelder)

Noted.

9.2 Summary of voting Part 6 (WG4:STX-010 SC32)

Noted.

9.3 Consolidated National Body comments Part 6 (WG4:STX-013 Lingenfelder)

Noted.

9.4 Interim Disposition about CD Ballot comments Part 6 (WG4:TXL-010)

Christoph Lingenfelder presented the status of the interim comment resolution after San Francisco meeting and mentioned that there are 10 comments retained unresolved including PP. Christoph mentioned that he checked the document thoroughly and couldn't find implementation-defined elements that are not meta-variables although he detected other implementation-defined elements. So, he added "Other Implementation-defined Elements" in Annex and closed PP 6-204 (Seq #077). Further, Germany withdraws comments Seq #033 and #081.

9.5 Additional Data Mining Concepts in the 2nd Edition (WG4:TXL-019)

Christoph Lingenfelder presented the paper and mentioned that this paper addresses Seq #017, #018, #041, #067, and #068 and texts are added in Concept sections. The following discussions were made:

- A) Mike Newton commented that in Subclause 4.1, context style of item 1)a) and 1)b) is not aligned with item 2), 3), and 4) that describe abstract information in the original document. Mike recommended simple descriptions for 1)a) and 1)b) to be aligned with them.
Krishna Kulkarni agreed to Mike, and proposed that the style difference should be resolved in FCD.
- B) Mike Newton asked clarification about the meaning of SUPPORT column value and CONFIDENCE column value in Table 1 of Subclause 4.2.2.
Christoph explained the meaning of them, and mentioned his intention to add an additional paragraph for Table 1 and to replace "BODY" with "BODY ID".
- C) Additionally, the following editorial amendments were made:
 - Add "(who have left the company)" after "customer" in a paragraph right below Figure 2.
 - Add "DM" after "SQL/MM" in a paragraph of item 5 (green color).
 - Replace the statement "Implementation-dependent internal representations of data mining models are allowed, but it must be possible to export them as PMML and to create them from PMML when a model is imported." with "The internal representation of data mining models is implementation-dependent, but it must be possible to export a model to a PMML format and to import a model from a PMML format" in a paragraph of item 5 (green color).
 - In item 6 (green color), correct the 2nd sentence appropriately, and replace "only suitable rules are kept" with "only rules that satisfy the filter conditions are kept" in the last sentence of a paragraph,

The paper was, as amended, accepted unanimously.

9.6 Solving DataMining PPs (WG4:TXL-023)

Christoph Lingenfelder presented the paper and mentioned that this paper addresses two possible problems, 6-202 and 6-203.

The paper was accepted unanimously, and all PPs and all catch-all comments (Seq #089, #090, #091) are closed.

10 National Body Closing Comments

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18-22, 2005, Takaaki Shiratori, May 2005.

[ftp:// sqlstandards.org/SC32/WG4/Meetings/wlg-2005-11-NZL/txl001.pdf](ftp://sqlstandards.org/SC32/WG4/Meetings/wlg-2005-11-NZL/txl001.pdf)

11 Liaison Issues

See WG4 meeting minutes: WLG-001, Minutes of the WG4 Meeting in Berlin, Germany, April 18-22, 2005, Takaaki Shiratori, May 2005.

<ftp://sqlstandards.org/SC32/WG4/Meetings/WLG-2005-11-Wellington-NZL/wlg001.pdf>

12 Editing meeting Recommendation to SC 32

WG4 CD editing meeting in Berlin recommends FCD progressions of SQL/MM Part 1, Part 3, and Part 6 by completion of the CD editing, and FCD ballot for all 3 parts start from May 15, 2005.

According to the project plan, FCD editing meeting for all 3 parts is planned in November in New Zealand, together with WG4 meeting for progress of Part 7. FDIS ballot for all 3 Parts will be held after the WG4 FCD meeting.

13 Action Items

- 1) Paul Scarponcini reflects all amendments discussed during this CD editing meeting in his revised paper TXL-016r2 and TXL-017r2.
- 2) SQL/MM Spatial project editor is to propose appropriate text for item t)ii) of TXL-020r1 in FCD editing phase. (See Section 8.6 of this meeting minutes.)

14 Adjourn

The meeting is adjourned at 18:00 on Thursday, April 21, 2005.