

# ISO/IEC JTC 1/SC 32 N 0318

Date: 1999-07-08

REPLACES: --

<p style="text-align: center;"><b>ISO/IEC JTC 1/SC 32</b></p> <p style="text-align: center;"><b>Data Management and Interchange</b></p> <p style="text-align: center;"><b>Secretariat: United States of America (ANSI)</b></p> <p style="text-align: center;"><b>Administered by Pacific Northwest National Laboratory on behalf of ANSI</b></p>
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<b>DOCUMENT TYPE</b>	Meeting Report
<b>TITLE</b>	Minutes of the SQL/MM WG4 Meeting and Part 1 – Framework FCD Editing Meeting, May 22 - 27, 1999, Matsue, Japan.
<b>SOURCE</b>	Paul Scarponcini (USA)
<b>PROJECT NUMBER</b>	
<b>STATUS</b>	
<b>REFERENCES</b>	
<b>ACTION ID.</b>	FYI
<b>REQUESTED ACTION</b>	
<b>DUE DATE</b>	
<b>Number of Pages</b>	25
<b>LANGUAGE USED</b>	English
<b>DISTRIBUTION</b>	P & L Members SC Chair WG Conveners and Secretaries

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**ISO/IEC JTC1/SC32 WG4 Nxxxx**

**SQL/MM SAF-001**

**ANSI NCITS H2 97-198r1**

June 21, 1999

**ISO**

**International Organization for Standardization  
Organisation Internationale de Normalisation**

**ISO/IEC JTC 1/SC 32  
Data Management and Services  
WG3 Database Languages**

**Secretariat: USA (ANSI)**

**WG4  
SQL/MM**

**Project:** 1.21.64

**Title:** Minutes of the SQL/MM WG4 Meeting and Part 1 – Framework  
FCD Editing Meeting, May 22 - 27, 1999, Matsue, Japan.

**Author:** Paul Scarponcini (USA)

**Source:** SQL/MM WG4

**Status:** Output Document: SQL/MM Part 1 – Framework FCD Editing and  
WG4

**ISO/IEC FCD 13249-1 Framework Editing Meeting**  
**May 22, 1999**  
**Matsue, Japan**

The meeting was called to order at 9:00 AM on Saturday the 22nd of May, 1999 in Matsue, Japan. Kohji Shibano, ISO/IEC JTC1 SC32 WG4 Convenor, chaired the meeting.

**1. Introduction of Participants**

Paul Cotton (Canada)  
Hugh Darwen (UK)  
Krishna Kulkarni (USA)  
Mike Newton (UK)  
Peter Pistor (Germany)  
Paul Scarponcini (USA)  
Kohji Shibano (Japan)  
Shojiro Tanaka (Japan)

**2. Distribution of documents**

YGJ-001	Scarponcini	Minutes of the SQL/MM WG4 meeting, Brisbane, Australia
YGJ-003	Newton	Part 1: Framework (FCD Ballot Document)
YGJ-020	Consolidated	Consolidate Part 1 Ballot Comments

**3. Selection of Secretary and Drafting Committee**

Paul Scarponcini selected as secretary.

**4. Approval of agenda**

Item 5 not required as this is the first editing meeting for this part.

**5. Review of the Previous Meeting Minutes**

Not applicable.

**6. National Body Opening Comments**

**Canada:**

Canada has supplied 47 ballot comments on SQL/MM Part 1: Framework. Although a small number of these comments require technical alignment with the other SQL/MM FCD parts, many of the SQL/MM comments are editorial in nature and Canada looks forward to a successful and short editing meeting.

**Germany:**

Looking forward to a brief and successful edit meeting.

**Japan:**

Welcomes us to this small town and anticipates a high level of production.

**UK:**

Looking forward to a rapid, successful meeting.

**USA:**

Judging by the nature of National Body comments on the SQL/MM Framework FCD document, the USA is hopeful of resolving every comment to the satisfaction of respective national bodies. In the event this goal is achieved, the USA would be pleased to change its vote to YES.

**7. SQL/MM Part 1 Framework**

**7.1 FCD Part 1: Framework (YGJ-003) (SC 32 N 0188)**

**7.2 Summary of Voting (YGJ-017) (SC 32 N 0220)**

**7.3 German Ballot Comment (YGJ-016)**

**7.4 Consolidated Part 1 Ballot Comment (YGJ-020)**

Confirmation that all National Body comments have been included in YGJ-020.

**#1 UK-P01-001**

Accepted as editorial. Closed.

Need a table of tables if Table 1 survives.

**#2 CAN-P01-001**

Agreed that there should be no indication of other future parts.

Closes 2 and 3. Closes Editors note 1-01.

Secretariat comment on Foreword: change reference to parts. Canada suggests it be patterned after 9075-1 style.

**#3 UK-P01-002**

Closed (see #1 and #7).

**#4 CAN-P01-002**

Accepted as editorial; closed

**#5 CAN-P01-003**

Accepted as editorial; closed

**#6 CAN-P01-004**

Accepted as editorial; closed

**#7 CAN-P01-005**

Editor instructed to remove all references to Part 4.  
Closes 7 and partial on 3.

**#8 CAN-P01-006**

Accepted as editorial; closed

**#9 CAN-P01-007**

Resolved with no action required

**#10 CAN-P01-008**

Peter to check this against SQL99. Pauls will check second half.  
Closed subject to checking.

**#11 CAN-P01-009**

3.1 should only include terms defined in Clause 3 of 9075-1 or 9075-2. All of the listed ones do exist in 9075. Need to add:

- cardinality
- column
- compilation unit
- constructor function
- declared type
- descriptor
- external routine
- identifier
- instance (of a value)
- null value
- row
- sequence
- subtype
- supertype
- table
- type-preserving function
- white space

Comment closed subject to any new contributions which can be shown to be used in some part of 13249 and described in 9075 Definitions.

## #12 CAN-P01-010

Add to Clause 4, Concepts:

### 4.1 Concepts taken from ISO/IEC 9075

This part of ISO/IEC 13249 makes use of the following concepts defined in ISO/IEC 9075, which are also used in other parts of ISO/IEC 13249:

The list should include:

- array
- base table
- character set
- distinct type
- exception condition
- false
- function invocation
- host language
- method
- ordering function
- predefined data type
- privilege
- source type
- SQL-data
- SQL-statement
- structured type
- transformation functions
- true
- unknown
- user-defined cast
- view

Comment closed subject to any later contributions if they can be shown to be used in some part of 13249 and described in 9075 Concepts section in *italics*.

## #13 CAN-P01-011

Closed with no action required.

## #14 UK-P01-005

Same as 12, 13 and therefore closed. Close Editor's Note 1-02.

## #15 CAN-P01-012

Accepted as editorial; closed

## #16 UK-P01-004

Accepted as editorial; closed

**#17 UK-P01-006**

Accepted as editorial; closed

**#18 CAN-P01-013**

Rejected; closed

**#19 CAN-P01-014**

Accepted as editorial change to use solution provided in comment.

**#20 CAN-P01-015**

- a) See c).
- b) closed with no action
- c) change the first paragraph of 4.2 to:  
“ISO/IEC 9075 includes facilities for defining user-defined types. A user-defined type can either be a distinct type or structured type. A distinct type is based on some predefined data type. A structured type has attributes specified as SQL data types or other user-defined types. A structured type may be defined as a subtype of another structured type, with inheritance of its attributes. A column of an SQL table can be defined as a user-defined type.”

**#21 CAN-P01-016**

Change title of 4.2 to “Use of ISO/IEC 9075”

**#22 CAN-P01-017**

4.2 paragraph 2, drop “is encapsulated, and”

**#23 DEU-P01-002**

4.2 paragraph 5, drop “, including ... type,”

Make second sentence begin a new paragraph which includes the last paragraph in the clause.

**#24 CAN-P01-018**

4.3 first paragraph: drop “all”. closed

**#25 CAN-P01-019**

closed (see #30)

**#26 CAN-P01-020**

4.4 Replace 6<sup>th</sup> paragraph with:

“An SQL-agent consists of one or more compilation units that interacts with an SQL-environment. An SQL-agent can only interact via predefined data types for which ISO/IEC 9075 defines a mapping for the host language or programming language used to create the SQL-agent.”

The definition of a user-defined type in a part of ISO/IEC 13249 can define transformation functions to convert between values of the user-defined type and predefined data types.”

Add the following to the end of subclause of 4.2:

“The definition of a user-defined type in a part of ISO/IES 13249 can also define user-defined cast functions to convert between the value of a user-defined type and another data type.

The definition of a user-defined type in a part of ISO/IES 13249 can define an ordering function to specify the order of two values of the user-defined type.”

Closed.

**#27 CAN-P01-021**

Closed (see #26).

**#28 CAN-P01-022**

Closed (see #26).

**#29 DEU-P01-003**

Closed (see #26).

**#30 DEU-P01-014**

4.4, Paragraph 1:

Last sentence, add “at least” before “three”.

Change “ways.” to ways:

- as the basis of a column in a table,
- as the basis of an attribute of a user-defined type, or
- as the basis of a new derived subtype.”

4.4, Paragraph 2:

Change “the data” to “values of the user defined type.”

Change last sentence to “Invocation of these routines requires the EXECUTE privilege for the routines (see Clause 7.4).”

4.4 Paragraph 3:

Sentence 1: Change “...13249, with further” to “...13249. The new user-defined type may have additional”

Existing sentence 2: Replace “This” with “This use of user-defined types of ISO/IES 13249”

Replace the last two sentences with:

“New routines may be created for the new user-defined type. If these routines incorporate routines defined by ISO/IEC 13249 to manipulate values of the attribute that is one of the user-defined types of this standard, then the EXECUTE privilege is required for the incorporated routines in order to create the new routine (see Clause 7.4).”

4.4 Paragraph 4:

Change last sentence to “Invocation of these routines requires the EXECUTE privilege for the routines (see Clause 7.4).”

Comment closed.

**#31 UK-P01-007**

Closed (see #26). Close Editor’s Note 1-03.

**#32 CAN-P01-023**

Accepted as editorial; closed

**#33 US-P01-001**

Resolved with no action. closed

**#34 JAPAN-P01-002**

Accept comment solution. closed

**#35 CAN-P01-024**

Strike the word “structured”. closed

**#36 CAN-P01-025**

Replace “transforming” with “casting”. closed

**#37 DEU-P01-005**

Closed (see #36)

**#38 DEU-P01-009**

Accepted as editorial; closed

**#39 DEU-P01-006**

Replace 5.3 with:

“Part 3 of ISO/IEC 13249 specifies user-defined types for spatial data, specifically points, curves, surfaces, and collections of these. It also defines routines for manipulating, searching, and ordering spatial data. In addition, it defines transformation functions for converting user-defined types to and from character and binary representations.”

Editor to change 5.2 and 5.5 with regard to re-ordering the translation routines to the end of the sentence, after searching and manipulating.

**#40 CAN-P01-026**

To be symmetric with ISO/IEC 9075, solution proposed in the comment is accepted. closed

**#41 DEU-P01-010**

Replace all three occurrences of “Definitional variables” with “symbols”.  
Delete “used in a Definitional Rules section or in a Description section”.  
The editor may choose to further reword the sentence if deemed necessary without changing its meaning.

**#42 CAN-P01-027**

Closed (see #12).

**#43 CAN-P01-028**

Remove “on any assignment target and SQL descriptor area” and comma after “9075)”. closed

**#44 CAN-P01-029**

Delete the second paragraph which begins “The first two characters...” and delete Table 1 – SQLSTATE Class Values. Closed.

**#45 CAN-P01-030**

Closed (see #44). Close Editor’s Note 1-04.

**#46 DEU-P01-008**

Closed (same as #44)

**#47 UK-P01-008a**

Closed (same as #45)

**#48 UK-P01-008b**

Add the following paragraph to the end of 8.1 Implementations:

“In addition, a conforming implementation for a part of ISO/IEC 13249 shall support the Implementation requirements specified in Clause 7, “Implementation requirements.”

Comment closed.

**#49 DEU-P01-007**

Closed with no action taken. May require a TC for ISO/IEC 9075 and 13249-3.

**#50 CAN-P01-031**

Accept solution as proposed. Also change “view” to “views”. Closed.

**#51 CAN-P01-032**

Accept solution as proposed. Closed.

**#52 CAN-P01-033**

Accept solution as proposed. Closed.

**#53 CAN-P01-034**

Accept solution as proposed. Closed.

**#54 UK-P01-009**

Closed (see #48).

**#55 USA-P01-002**

Closed (see #57).

**#56 UK-P01-010**

Change “Definition section” to “Definition Rules sections”.

Change both instances of “Description Rules section” to “Description sections”.

Change “functions” to “routines”.

Change Subclause 12.5 to 11.49.

Closed.

**#57 CAN-P01-035**

Paragraph 2, first section should be replaced with:

“A conforming implementation for a part of ISO/IEC 13249 shall support the mandatory public user-defined types and routines. All mandatory and optional user defined types and routines shall be supported as specified in the Definition Rules sections and Description sections for that part.”

Closed.

**#58 CAN-P01-036**

Accept solution as proposed, adding the new paragraph to 8.1 before the one added by comment #48. Comma bracket the phrase “when defining the routine”.

Closed.

**#59 CAN-P01-037**

Accept solution as proposed. Closed.

**#60 JAPAN-P01-003**

Closed (see #58).

**#61 USA-P01-003**

Change 8.2 to:

“A conforming implementation shall support Core SQL as defined by ISO/IEC 9075. In addition it shall support the following features defined in ISO/IEC 9075:

- Feature S023, “Basic structured types”
- Feature S024, “Enhanced structured types”
- Feature S091, “Basic array support”
- Feature S092, “Arrays of user-defined types”
- Feature S211, “User-defined cast functions”
- Feature T322, “Overloading of SQL-invoked functions and procedures” ”

Closed.

**#62 CAN-P01-038**

In 8.4, paragraph 1:

Change “data” to “user-defined”.

Add “or implementation-defined, user-defined types” to the end of the first sentence.

In paragraph 2:

Change “An implementation remains a conforming implementation” to “A conforming implementation remains conforming”

Closed

**#63 CAN-P01-039**

Closed.

**#64 CAN-P01-040**

Closed.

**#65 CAN-P01-041**

Closed.

**#66 CAN-P01-042**

Closed.

**#67 CAN-P01-043**

Closed.

**#68 CAN-P01-044**

To be resolved by the editor. Closed.

**#69 CAN-P01-045**

Editorial

**#70 CAN-P01-046**

Closed. See comment #40.

**#71 CAN-P01-047**

Closed. See comment #40.

**#72 DEU-P01-001**

Closed by previous comments:

- #2 (Editor's Note 1-01),
- #14 (Editor's Note 1-02),
- #31 (Editor's Note 1-03), and
- #45 (Editor's Note 1-04).

**#73 JAPAN-P01-001**

Withdrawn.

**#74 JAPAN-P01-004**

Closed.

**#75 USA-P01-004**

Closed.

**#76 USA-P01-005**

Closed.

**#77 USA-P01-006**

Closed.

**(#78) Ref. SC32 N 0220 first UK Seq # 3:**

Replace "is concerned with" by "defines" in scope section. Closed

Globally change "data type" with "user-defined type"

**Summary:**

- 78 comments resolved:
  - 25 Major Technical
  - 21 minor technical
  - 19 Major Editorial
  - 13 minor editorial
- 4 Editor's Notes resolved

Seq	Comment	Disposition (Closed unless specified otherwise)	Addressed by C = comment ED = editorial EM = editing minutes
#1	UK-P01-001		ED
#2	CAN-P01-001		EM
#3	UK-P01-002		EM
#4	CAN-P01-002		C
#5	CAN-P01-003		C
#6	CAN-P01-004		C
#7	CAN-P01-005		EM
#8	CAN-P01-006		C
#9	CAN-P01-007		EM
#10	CAN-P01-008		EM
#11	CAN-P01-009		EM
#12	CAN-P01-010		EM
#13	CAN-P01-011		EM
#14	UK-P01-005		EM
#15	CAN-P01-012		C
#16	UK-P01-004		ED
#17	UK-P01-006		ED
#18	CAN-P01-013	REJECTED	EM
#19	CAN-P01-014		C
#20	CAN-P01-015		EM
#21	CAN-P01-016		EM
#22	CAN-P01-017		EM
#23	DEU-P01-002		EM
#24	CAN-P01-018		EM
#25	CAN-P01-019		EM
#26	CAN-P01-020		EM
#27	CAN-P01-021		EM
#28	CAN-P01-022		EM
#29	DEU-P01-003		EM
#30	DEU-P01-014		EM
#31	UK-P01-007		EM
#32	CAN-P01-023		ED
#33	US-P01-001		EM
#34	JAPAN-P01-002		C
#35	CAN-P01-024		EM
#36	CAN-P01-025		EM
#37	DEU-P01-005		EM
#38	DEU-P01-009		C
#39	DEU-P01-006		EM
#40	CAN-P01-026		C
#41	DEU-P01-010		EM

Seq	Comment	Disposition (Closed unless specified otherwise)	Addressed by C = comment ED = editorial EM = editing minutes
#42	CAN-P01-027		EM
#43	CAN-P01-028		EM
#44	CAN-P01-029		EM
#45	CAN-P01-030		EM
#46	DEU-P01-008		EM
#47	UK-P01-008a		EM
#48	UK-P01-008b		EM
#49	DEU-P01-007		EM
#50	CAN-P01-031		C, EM
#51	CAN-P01-032		C
#52	CAN-P01-033		C
#53	CAN-P01-034		C
#54	UK-P01-009		EM
#55	USA-P01-002		EM
#56	UK-P01-010		EM
#57	CAN-P01-035		EM
#58	CAN-P01-036		C,EM
#59	CAN-P01-037		C
#60	JAPAN-P01-003		C
#61	USA-P01-003		EM
#62	CAN-P01-038		EM
#63	CAN-P01-039		EM
#64	CAN-P01-040		EM
#65	CAN-P01-041		EM
#66	CAN-P01-042		EM
#67	CAN-P01-043		EM
#68	CAN-P01-044		EM
#69	CAN-P01-045		ED
#70	CAN-P01-046		EM
#71	CAN-P01-047		EM
#72	DEU-P01-001		EM
#73	JAPAN-P01-001	WITHDRAWN	EM
#74	JAPAN-P01-004		EM
#75	USA-P01-004		EM
#76	USA-P01-005		EM
#77	USA-P01-006		EM
#78	UK-P01-003a		EM

## **8. SQL3 Issues**

No issues.

## **9. National Body Closing Comments**

### **USA**

Pleased with successful completion of editing meeting; happy that all of its comments have been addressed satisfactorily; pleased to change its vote to yes.

### **UK**

Satisfied that all comments are resolved; looks forward to revised document; and will be happy to change its vote to yes.

### **Japan**

Regards part one as important to comprehending the rest of the parts so would like to see fast progress to FDIS status.

### **Germany**

Very relieved that editing meeting could be successfully concluded without any written change proposals and will recommend to its National Body to change its vote to yes.

### **Canada**

Satisfied that all comments are resolved; looks forward to revised document; and will be happy to change its vote to yes.

## **10. Editing Meeting Recommendations to SC32**

Unanimously support

## **11. Action items**

Shibano-san will draft recommendations

Paul Scarponcini will do the minutes

Mike Newton will do final disposition of comments

Mike Newton will provide FDIS document, incorporating changes herein, with a sneak peak to be distributed by end of June to last until end of July or else distributed by the end of July to last until mid-September.

## **12. Adjourn**

The editing meeting was adjourned at 6 PM.

Thanks to Japan for its fine hospitality and excellent meeting arrangements and to Mike Newton for his editorial work on the FCD document.

**ISO/IEC SC 32/ WG 4 SQL/MM Meeting  
May 26 (Working Session) to 27 (Plenary), 1999  
Matsue, Japan**

The meeting was called to order at 9:00 AM on Wednesday, the 26th of May, 1999 in Matsue, Japan. Kohji Shibano, ISO/IEC JTC1 SC32 WG4 Convenor, chaired the meeting.

**1. Introduction of Participants**

Paul Cotton (Canada)  
Hugh Darwen (UK)  
Krishna Kulkarni (USA)  
Mike Newton (UK)  
Peter Pistor (Germany)  
Paul Scarponcini (USA)  
Kohji Shibano (Japan)  
Shojiro Tanaka (Japan)

**2. Distribution of documents**

All relevant documents were distributed.

**4. Selection of Secretary and Drafting Committee**

Paul Scarponcini selected as secretary.

**4. Approval of agenda**

Approved.

**5. Review of the Previous (Brisbane) Meeting Minutes (YGJ-001)**

Approved.

**6. National Body Opening Comments**

**Canada**

Canada is pleased to note the success of the SQL/MM Part 2: Full-Text and Part 3: Spatial editing meetings held in late 1998. Canada is also pleased to note the progress of the Spatial part to FDIS ballot.

Canada must apologize for Paul Cotton's tardiness in producing the ballot text for the FCD Still Image and FDIS Full-Text ballots. Canada understands that Paul's

workload problems have now been resolved and looks forward to the availability of these documents in the next month.

Mark Ashworth (SQL/MM Part 3: Editor) joined the CAC SC32 committee after the 1998 interim meeting (ending his membership in the corresponding ANSI committee). Mark has become an active member within the CAC SC32 committee. Mark has successfully completed the FCD Spatial sneak peek and is working on completing the FDIS ballot with the ISO Secretariat.

On May 5, Mark informed the CAC SC32 that he will be resigning his role of Editor for Part 3: Spatial Later Progression project. Since this information was conveyed so late to Canada, we have hardly had a chance to react to this situation. For the interim, Canada proposes Paul Cotton as the Editor of SQL/MM Part 3: Spatial (Later Progression).

With the eminent completion of the first round of SQL/MM Parts 2 and 3, Canada would like to recommend that WG4 review the material in the two Later Progression Working Drafts to determine if some or all of that material should be retained or removed from the Working Drafts. Canada is very concerned with the quality (re the final SQL-99 syntax) and content of this material.

On this topic, I come directed to request that WG4 see a liaison statement to ISO TC 211 to request their feedback on the current content of the Spatial (Later Progression) Working Draft. The next ISO TC 211 Plenary is in September, 1999 in Kyoto, Japan and Canada hopes that we could obtain feedback from ISO TC 211 in time for our next meeting.

### **Germany**

Though Germany has wanted the SQL/MM Spatial standard to be different at points from what we finally got in Heidelberg, we are happy that this standard is largely aligned with OGIS and TC211 work and is going to FDIS very soon. Regarding further development, we will stick with the cautious approach we have taken in the past.

Germany is very disappointed that the progression of SQL/MM Full-Text standard has become to a temporary halt, and expects that the ballot process will get going again as soon as possible. Regarding further development, we are anxious to see that evolving XML is being reflected in a new version of Full-Text; we are not sure yet whether cautious attempts of reacting to the XML challenge are the right answer, nor, whether the existing "later progression" proposals are the right way to proceed.

With respect to Still-Image, see our comments on Full-Text.

Germany has no resources to offer for SQL/MM General Purpose Facilities

but welcomes other NB to actively progress this part. If no such NB will show up, we suggest to reconsider a consolidation of MM's project plans.

### **Japan**

Japan hopes you enjoy your stays in this small town where you can find quite a few Japanese traditions in their original shape, but does expect constructive consequences in a business-first manner to produce substantive outputs from WG4 Matsue Meeting.

### **UK**

Considers it necessary to review the direction and content for later progression for Parts 2 and 3 . Particularly in Part 2, support for SGML and XML and for Part 3 would like consideration as to the direction of the later progression, specifically whether it should be just to support GIS as in the FDIS document or whether it should be in accordance with the previous UK position to be in full support of all spatial requirements. Once those agreements are achieved, then appropriate liaison agreements should be developed to support these. Part 4 should be withdrawn.

### **USA**

USA is pleased with the successful outcome of FCD ballots on SQL/MM Parts 2 and 3. USA has already informed SC32 about changing its vote to YES on the both these FCD ballots. USA is also pleased with the recent successful Editing meeting for SQL/MM Part 1: Framework.

USA is also pleased that the FDIS ballot on Part 3: Spatial has already been announced. However, USA is concerned about the delay in the start of FDIS ballot on Part 2: Full Text and the FCD ballot on Part 5: Still Image, due to the Editor's inability to produce the necessary documents. USA would like to request the Editor to complete the work as soon as possible, so that we can look forward to respective ballots on these parts starting soon.

On SQL/MM Part 4: General Purpose Facilities, USA regrets not having had resources to work on the part. In the event it is withdrawn, USA may bring proposals to add some of its features to other parts.

USA looks forward to continuing the work on both Part 2 and Part 3 later progressions, although USA has not established any position on the current contents of these parts. USA has actually submitted one change proposal and one discussion paper for Part 2. Going forward, USA hopes the committee will devote some time to discuss what we should be standardizing in later progression of both Parts 2 and 3 that is relevant to the international market place.

## **7. SQL/MM Part 1: Framework –**

**Part 1: Framework - (FCD ballot document) (SC 32 N 0188) (YGJ-003)**

**German Ballot on Part 1: Framework (YGJ-016)**

**Summary of Voting Part 1: Framework (SC 32 N 0220) (YGJ-017)**

**Consolidated Part 1 Ballot Comment (YGJ-020)**

Successful FCD Editing Meeting has been held and all comments have been resolved. Recommendation to progress to FDIS status.

## **8. SQL/MM Part 2: Full-Text WD (Later Progression) (YGJ-005)**

**FCD Status:**

**Minutes of the SQL/MM editing meetings, Heidelberg, Germany (YGJ-011);**

**Full-Text FCD Ballot Disposition of Comments (output from FRA editing meeting) (YGJ-012)**

Full text editing successfully completed in Heidelberg.

### **8.1 Fuzzy (YGJ-018)**

accepted unanimously

### **8.2 User-defined sections (YGJ-019)**

discussion paper

### **8.2 Query Language for XML (SC32 Action Item 17))**

discussion

### **8.4 Base documents (YGJ-004, YGJ-005)**

Editor for SQL/MM Part 2: Full-Text volunteered to provide two candidate base documents for the next meeting for Full-Text. One candidate base document (XXX-007) will include the FDIS material and the changes approved in YGJ-018. The other candidate base document (XXX-008) will include the FDIS material, the changes approved in YGJ-018 and the material currently in Later Progression.

The meeting accepted this proposal so that this will facilitate the subsequent WG4 meeting to decide which candidate document to adopt. This will permit that subsequent meeting to decide if it wishes to maintain the current Later Progression material or to delete it. Of course, the WG4 meeting will entertain change proposals on either document at its next meeting.

## **9. SQL/MM Part 3 Spatial WD (Later Progression) (YGJ-007)**

**FCD Status:**

**Minutes of the SQL/MM editing meetings, Heidelberg, Germany (YGJ-011);**

**Spatial FCD Ballot Disposition of Comments (output from FRA editing meeting) (YGJ-013)**

### **9.1 Topology Requirements (YGJ-023)**

Action Item: Paul Cotton will write language opportunities for SQL'99 limitations 1 (deeply nested references) and 2 (bi-directional referencing); 3 (nested referents) already is LO621.

Suggestion to author to try to work example with existing capabilities in SQL'99 to address limitation 2.

### **9.2 Liaison statement to TC211 (YGJ-024)**

Ok to add items not in Working Draft, e.g., linear referencing, representative points, angles.

Liaison statement to go to both OGC and TC211 with CC's to the other.

Action Item: Pauls to jointly draft the liaison statement for TC211 and OGC for review by all on the reflector.

Action Items: Paul Cotton will contact Vince Kawalski re: POSC material in Spatial Later Progression.

### **9.3 UK View on SQL/MM Part 3 (Later Progression) (YGJ-025)**

Agreement in principle that scope of work for Part 3 (later progression) should not be limited to the requirements of TC211 but should take into account more general spatial requirements. Other liaisons are welcomed to help achieve this.

### **10. SQL/MM Part 4 General Purpose Facilities (YGJ-008)**

Agreement to withdraw part but US has expressed interest in re-proposing some of its content to some other parts.

### **11. SQL/MM Part 5 Still-Image CD (BBN-007) (YGJ-009)**

### **12. SQL3 Issues (YGJ-014)**

none

### **13. National Body Closing Comments**

#### **USA**

USA is quite pleased that the FCD Editing meeting on SQL/MM Framework succeeded in resolving all the ballot comments to the satisfaction of each national body that submitted the comments. USA looks forward to the early start for FDIS ballot for Part 2, Full Text and FCD ballot on Part 5: Still Image. USA is happy with the discussions on later progression versions Parts 2 Full Text and Part 3 Spatial and hopes to contribute on both parts in future meetings. Finally, USA thanks Kohji Shibano for chairing all the editing

meetings and making sure that the meetings were run smoothly and productively. We also thank the hosts, Japan standards body and in particular, Dr. Shojiro Tanaka, for the excellent meeting arrangements and for their gracious and attentive care of all the delegates.

## **UK**

Pleased with satisfactory progress on Part 1 and looks forward to later progression of Full-Text and Spatial and progression of Still-Image. Thanks to host for a very enjoyable meeting.

## **Japan**

Anticipates larger MM roles to capture industry needs and happy to devote further effort towards this standard.

## **Germany**

Germany agrees with the cautious approach taken in the progression of Full-Text "Later Progression".

We are pleased to see attempts to solicit opinions from outside WG4 on the contents of Spatial "Later Progression".

To both documents we are willing to contribute to our best abilities.

We are pleased with the swift completion of the Framework Editing Meeting and look forward for an expedited completion of all MM Ballots.

Germany extends its appreciation to the Japanese hosts for all their efforts and hospitality that helped to make the meeting successful and enjoyable.

## **Canada**

Canada is pleased to note the success of the SQL/MM Framework FCD editing meeting.

Canada is pleased that the meeting adopted its proposal to gather input on the requirements for SQL/MM Part 3: Spatial from such organizations as ISO TC 211. Canada is also pleased with the plan to permit a review of the material in SQL/MM Part 2: Full-Text Later Progression.

Canada thanks our hosts especially Dr. Tanaka for the excellent support of the WG4 meeting.

## **14. Liaison Issues**

**14.1 NWI proposals for WG1 - N 0271**

**14.2 NWI proposals for WG2 - N 0272**

**14.3 OLAP**

An opportunity exists for OLAP to be developed partly in DBL and partly in MM. Further joint discussion will be scheduled for Santa Fe SC32 meeting.

#### **14.4 SQL/MM (YGJ-024)**

(see 9.2)

#### **15. WG4 Recommendations to SC 32 and review of project plan - Project Plan (YGJ-002)**

**Draft Resolution of editing meeting of Part 1: Framework (YGJ-021)**

**Draft Resolution WG 4 Matsue (YGJ-022)**

#### **Resolution 1**

Passed

#### **Resolution 2**

TC211 Shibano (temp)

OGC Cotton

TC 184 Newton

TC 204 Scarponcini

SC2 Shibano (continuing)

(TRB can request a category C liaison)

#### **Resolution 3**

WG4 mtg in Santa Fe Jan 25-26

Part 5 edit meeting Jan 31-Feb 2

#### **Resolution 5**

Withdraw Part 4

#### **Resolution 8**

Still Image FCD

#### **Acclamations**

All resolutions and acclamations accepted unanimously.

#### **16. Action Items**

1. Paul Cotton will write language opportunities for SQL'99 limitations 1 (deeply nested references) and 2 (bi-directional referencing); 3 (nested referents) already is LO621.

2. Pauls to jointly draft the liaison statement for TC211 and OGC for review by all on the reflector.

3. Paul Cotton will contact Vince Kawalski re: POSC material in Spatial Later Progression.

### **17 Adjourn**

The meeting was adjourned at 2 PM.

Document register of SC32/WG4 SQL/MM Matsue meeting as of 1999-05-21

SQL/MM YGJ-001	Scarponcini	Minutes of the SQL/MM WG4 meeting, Brisbane, Australia (also FRA-002)
SQL/MM YGJ-002	Cotton	SQL/MM Project Plan
SQL/MM YGJ-003	Newton	Part 1: Framework (FCD ballot document) (SC 32 N 0188)
SQL/MM YGJ-004	Cotton	Part 2: Full-Text
SQL/MM YGJ-005	Cotton	Part 2: Full-Text (Later Progression)
SQL/MM YGJ-006	Ashworth	Part 3: Spatial
SQL/MM YGJ-007	Ashworth	Part 3: Spatial (Later Progression)
SQL/MM YGJ-008	Ashworth	Part 4: General Purpose Facilities
SQL/MM YGJ-009	Cotton	Part 5: Still Image (FCD ballot document)
SQL/MM YGJ-010	SQL/MM	Mailing List
SQL/MM YGJ-011	SQL/MM	Minutes of the SQL/MM editing meetings, Heidelberg, Germany
SQL/MM YGJ-012	Cotton	Full-Text FCD Ballot Disposition of Comments (output from FRA editing meeting)
SQL/MM YGJ-013	Ashworth	Spatial FCD Ballot Disposition of Comments (output from FRA editing meeting)
SQL/MM YGJ-014	Cotton	SQL3 Impacts on SQL/MM
SQL/MM YGJ-015	Shibano	SQL/MM Brisbane, Australia Recommendations (also BBN-020) (SC 32 N 0155)
SQL/MM YGJ-016	Germany	German Ballot on Part 1: Framework
SQL/MM YGJ-017	SC32	Summary of Voting Part 1: Framework (SC 32 N 0220)
SQL/MM YGJ-018	US	Fuzzy (Full Text)
SQL/MM YGJ-019	US	User-defined sections (Full Text)
SQL/MM YGJ-020	Newton	Consolidate Part 1 Ballot Comment
SQL/MM YGJ-021	Shibano	Draft Resolution of editing meeting of Part 1: Framework
SQL/MM YGJ-022	Shibano	Draft Resolution WG 4 Matsue
SQL/MM YGJ-023	Scarponcini	Topology Requirements
SQL/MM YGJ-024	Cotton	Liaison statement to TC211
SQL/MM YGJ-025	Newton	UK View on SQL/MM Part 3 (Later Progression)