

ISO/IEC JTC 1/SC 32 N 0729

Date: 2001-11-07

REPLACES: --

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ISO/IEC JTC1/SC32 N00729

WG3 E3B-001

WG3 YYJ-013

Date: June 4th 2001

ISO

International Organization for Standardization

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

Secretariat: USA (ANSI)

Title: Minutes of the Editing Meeting in Perth, Western Australia, Australia,
April 30th - May 11th, 2001 on:

ISO/IEC CD 9075/1 — SQL/Framework

ISO/IEC CD 9075/2 — SQL/Foundation

ISO/IEC CD 9075/3 — SQL/CLI

ISO/IEC CD 9075/4 — SQL/PSM

ISO/IEC CD 9075/9 — SQL/MED

ISO/IEC CD 9075/10 — SQL/OLB

ISO/IEC CD 9075/11 — SQL/Schemata

Author: Phil Brown (UK)

Status: Output document from Ballot Resolution Meeting

1 Introduction Of Participants

Delegate	National Body
Mark Ashworth	Canada (April 30 th to May 8 th)
Don Bartley	Australia
Phil Brown	UK
Charles Campbell	USA (from May 3 rd)
Stephen Cannan	Netherlands -- WG3 Convenor
Hugh Darwen	UK
George Feuerlicht	Australia (April 30 th to May 2 nd)
Jutta Kreys	Germany
Takashi Kotera	Japan
Krishna Kulkarni	USA
Jim Melton	USA -- Project Editor
Jim Murray	Australia
Bill O'Connell	Canada (Monday April 30 th to Friday May 4 th)
Åke Persson	Sweden (Monday April 30 th to Monday May 7 th)
Baba Piprani	Canada (from Monday May 7 th)
Friedemann Schwenkreis	Germany (Monday April 30 th only)
Takaaki Shiratori	Japan (April 30 th to May 4 th)
Masashi Tsuchida	Japan
Fred Zemke	USA

2 Distribution Of Documents

All documents for the meeting, including those produced during the meeting, were placed in an electronic repository that was accessible to all participants.

The final document register, as at the end of the meeting, is attached as Annex B to these minutes.

3 Selection Of Secretary And Resolution Recorder

Phil Brown agreed to act as secretary.

Mark Ashworth agreed to take the minutes for the morning of the first day until Phil Brown arrived.

Krishna Kulkarni agreed to serve as Resolution Recorder (along with Jim Melton and Stephen Cannan)

Fred Zemke requested that it be recorded which PP are closed when a comment is closed.

4 Approval Of Agenda

A number of items and paper references for existing items were added to the final draft Agenda that had been published by the Convenor before the meeting:

PER-115 was added to Agenda items 9.37, 9.38 and 9.39.

PER--091 was added to Agenda item 9.88.

Hugh Darwen had been charged by WG4 to bring two papers containing ballot comments to WG3. The papers were added to the agenda as:

Item 9.381 Seq#159a (WG4-P09-001) (PER-124), A ballot comment to ISO/IEC 9075-2 from WG4

Item 12.50 Seq#526a (WG4-P02-001) (PER-123), Removing restrictions on DATALINK

The agenda was approved as amended. Further items were identified and papers referenced to items during the course of the meeting.

The order of items in the Agenda largely reflects the ordering of comments in relation to the CD documents. It does not represent the order in which items were discussed.

The final agenda is attached as Annex A to these minutes.

5 Administrative Matters

5.1 Calling notice for CD Editing Meeting (SC32 N00610) (PER-087)

Noted.

5.2 Meeting Arrangements for SC 32Editing Meeting, Perth, Australia (PER-014)

Noted.

5.3 ISO 9075-1 SQL/Framework CD Text (SC32 N00593) (PER-003)

Noted.

5.4 ISO 9075-2 SQL/Foundation CD Text (SC32 N00594) (PER-004, PER-022)

Noted.

5.5 ISO 9075-3 SQL/CLI CD Text (SC32 N00595) (PER-005)

Noted.

5.6 ISO 9075-4 SQL/PSM CD Text (SC32 N00596) (PER-006)

Noted.

5.7 ISO 9075-9 SQL/MED CD Text (SC32 N00597) (PER-008, PER-023)

Noted.

5.8 ISO 9075-10 SQL/OLB CD Text (SC32 N00598) (PER-009, PER-024)

Noted.

5.9 ISO 9075-11 SQL/Schemata CD Text (SC32 N00599) (PER-010, PER-025)

Noted.

5.10 Results of SC32 Ballot on CD 9075/1-SQL/Framework (SC32 N00621) (PER-080)

Noted.

5.11 Results of SC32 Ballot on CD 9075/2-SQL/Foundation (SC32 N00622, PER-081)

Noted.

5.12 Results of SC32 Ballot on CD 9075/3-SQL/CLI (SC32 N00623, PER-082)

Noted.

5.13 Results of SC32 Ballot on CD 9075/4-SQL/PSM (SC32 N00624, PER-083)

Noted.

5.14 Results of SC32 Ballot on CD 9075/9-SQL/MED (SC32 N00625, PER-084)

Noted.

5.15 Results of SC32 Ballot on CD 9075/10-SQL/OLB (SC32 N00626, PER-085)

Noted.

5.16 Results of SC32 Ballot on CD 9075/11-SQL/Schemata (SC32 N00627, PER-086)

Noted.

5.17 CD 9075 Consolidated Ballot Comments (PER-053R1)

Noted. The Editor issued further revisions of PER-053 during the course of the meeting, each of which recorded the disposition of comments decided up to the time of issue.

5.18 Convenor's Definition of Consensus

The convenor announced that his definition of consensus would be:

- Where the item corrected an error, a simple majority of Nation Bodies voting on the issue

- Where the item added or removed functionality, a clear majority of two National Bodies, but if not all present voted, then he would use his judgement.

6 National Body Opening Comments

6.1 Australia

Don Bartley repeated the Australian opening comments from the WG3 meeting.

6.2 Belgium

Not present.

6.3 Brazil

Not present.

6.4 Canada

(PER-036)
(PER-037)
(PER-038)
(PER-039)
(PER-040)
(PER-041)
(PER-042)

Mark Ashworth repeated the Canadian opening comments from the WG3 meeting.

6.5 China

Not present.

6.6 Czech Republic

Not present.

6.7 Denmark

Not present.

6.8 Finland

Not present.

6.9 France

Not present.

6.10 Germany

(PER-052R1)

Germany is looking forward to working with the other national body delegations in the CD editing meeting for the numerous parts of 9075. We maintain our position that the next version of the standard should focus on quality enhancements rather than new functionality. Given the significant amount of comments addressing problems in the current standard we strongly encourage the other national bodies to concentrate their work to solve that kind of comments rather than spending time for papers solving language opportunities.

6.11 Italy

Not present.

6.12 Japan

(PER-066)

In this meeting, there are a lot of challenging features, for example Data Warehousing, XML-related, EJB Query and materialized view topics. The importance of these enhanced features is well established. Japan supports these directions. But, Japan thinks that they will take much time to develop. Japan is going to prepare follow-on papers. We do make our best efforts to solve as many problems as possible. Japan thinks that these facilities should be pushed forward as soon as possible. Japan also thinks that it is very important to continue to develop the emerging SQL specification.

6.13 Netherlands (PER-035)

Stephen Cannan repeated the Netherlands opening comments from the WG3 meeting.

6.14 Norway

Not present.

6.15 Republic of Korea

Not present.

6.16 United Kingdom (PER-055)

We thank Friedemann Schwenkreis of Germany for his significant contribution to SC32 and wish him well in the future.

We are anxious to progress to FCD editing mode, in which the focus is even more concentrated on fixing bugs than on introducing new functionality. For that reason, we would very much prefer the next editing meeting (probably in Austria, 2002) to be the first (and possibly not the only) part of an FCD editing meeting, rather than a continued CD editing meeting.

Therefore we are very likely to be in favour of initiating an FCD ballot on the base documents resulting from the Perth meeting, even if that means closing a significant number of ballot comments as Possible Problems to reemerge as FCD ballot comments. Note that in principle we will not support proposals introducing new functionality in an FCD editing meeting, even if addressing requirements expressed in what were originally CD ballot comments.

Regarding new functionality at this meeting, a few of our CD ballot comments mentioned certain requirements we were interested in addressing, and we bring change proposals to address those requirements. None of these has a major impact on the base documents. The most significant ones, we think, are PER-054 on Universal Character Set support and PER-056 on “Generated Columns”.

6.17 United States (PER-043)

Krishna Kulkarni repeated the United States opening comments from the WG3 meeting.

6.18 Austria

Not present.

6.19 Russian Federation

Not present.

**6.20 Sweden (PER-026)
(PER-068)
(PER-069)**

Åke Persson repeated the Swedish opening comments from the WG3 meeting.

7 Ballot Comments already processed by the Editor

The Editor announced that he had accepted a number of comments as purely editorial, requiring no explicit action from the meeting. Acceptance as editorial resolved the comments in question. They are identified in these minutes by the notation “Editorial” against the relevant Agenda item.

8 SQL/Framework Topics

8.1 Seq#001 (DEU-P01-001) Editorial

Resolved

8.2 Seq#002 (GBR-P01-010)

Hugh Darwen suggested that the necessary review had already been done.

The Editor undertook to do a last-minute review of published versions of referenced standards.

On this understanding, the comment was closed.

8.3 Seq#002a (WG3-P01-001) Editorial
Resolved

8.4 Seq#002b (WG3-P01-002) (PER-054R1)
Resolved by PER-054R1. See 9.2

8.5 Seq#002c (WG3-P01-003)
The first half of the solution proposed in the comment was adopted, but not second part (“all its corrigenda and amendments”), as that is in conflict with ISO Directives.
Resolved.

8.6 Seq#002d (WG3-P01-004) (PER-054R1)
Resolved by PER-054R1. See 9.2

8.7 Seq#002e (WG3-P01-006) Editorial
It was agreed that International Standard and PAS references should be placed in separate sub-clauses of the Normative References clause. It was also agreed that the date 2001 should be included in the reference to ISO/IEC 14651; and that the phrase “and all its corrigenda and amendments” should not be included against any reference.
Resolved.

8.8 Seq#002f (WG3-P01-007)
Jim Melton asked whether the standard should refer to ISO/IEC 14651 or to UTS10. It was agreed that the Editor should include a reference to UTS10 in the PAS sub-clause of the Normative References clause.
Resolved.

8.9 Seq#002g (WG3-P01-008)
It was noted that there was a long-standing agreement within the Working Group that the SQL standard should not reference standards for arithmetic.
Resolved with no action.

8.10 Seq#002h (WG3-P01-009)
As with item 8.9, it was noted that there was a long-standing agreement within the Working Group that the SQL standard should not reference standards for arithmetic.
Resolved with no action.

8.11 Seq#002i (WG3-P01-010) Editorial
Resolved.

**8.12 Seq#002k (WG3-P01-011) (PER-146)
(PER-152)
(PER-160)**

Jim Melton introduced PER-146.

In the proposed disposition of Seq#064, the new text “associated with” was changed to “listed in”.

PER-146, as amended, accepted as resolving Seq#002k by conversion to a Language Opportunity.

PER-146 was also accepted as resolving Seq#064 (see 9.41) and Seq#492 (see 12.3) as editorial.

PER-146 was also accepted as resolving by conversion to Language Opportunities Seq#006b (see 8.18), Seq#029c (see 9.363), Seq#065a (see 9.365), Seq#076a (see 9.370) and Seq#420e (see 9.376).

PER-146 was also accepted as resolving with no action Seq#006a (see 8.17), Seq#011d (see 8.29) Seq#022 (see 8.37), Seq#023a (see 8.39), Seq#024a (see 9.356), Seq#026a (see 9.360), Seq#029a (see 9.361), Seq#029b (see 9.362), Seq#041 (see 9.18), Seq#045 (see 9.22), Seq#065b (see 9.366), Seq#070a (see

9.369), Seq#073 (see 9.50), Seq#118 (see 9.83), Seq#191 (see 9.154), Seq#193 (see 9.156), Seq#314 (see 9.263), Seq#317 (see 9.265), Seq#324 (see 9.272), Seq#335 (see 9.280), Seq#347 (see 9.286), Seq#354 (see 9.291), Seq#366 (see 9.303), Seq#380 (see 9.315), Seq#420c (see 9.374), Seq#420d (see 9.375), Seq#420g (see 9.378), Seq#420h (see 9.379), Seq#420i (see 9.380), Seq#475 (see 11.33), Seq#481 (see 11.39) and Seq#573 (see 13.23).

PER-146 was also accepted as closing the following Language Opportunities and Possible Problems: LO-609, LO-757, PP-643, PP-644, LO-082, LO-132, LO-341, LO-451, LO-461, LO-524, LO-620, LO-PSM-120, LO-PSM137 and LO-OLB-016.

PER-146 was also accepted as closing the following comments by acceptance of the solutions provided with the comments: Seq#024b (see 9.357) and Seq#025a (see 9.359).

PER-146 was also accepted as closing the following comments on the grounds that they are functional duplicates of other comments: Seq#326 (see 9.273), Seq#332, (see 9.278), Seq#383 (see 9.318)

PER-146 was also accepted as closing the following Language Opportunities on the grounds that they are duplicates of other Language Opportunities: LO 283 (duplicate of L.O. 725), LO 328 (duplicate of L.O. 706) and LO 623 (duplicate of L.O. 710)

Subsequent to approval of PER-146, Fred Zemke introduced PER-160, which challenges some of the resolutions of PER-146.

On comment Seq#045, it was agreed that this should give rise to a language opportunity that prescribed that any solution would state that interaction between transactions at isolation levels other than serializable would be implementation-dependent, and add that detailed specification was beyond the current state of the art.

In point 1.1, the second point was not removed from the LO.

In point 1.4 (Seq#045), the Editor will reword the LO.

PER-160 was accepted as modifying the resolution of the comments that it identifies.

Following disposition of PER-152 (see 9.71), it was recognised that Seq#332 had been included erroneously in the list of comments closed by PER-146. Seq#332 was returned to open status.

8.13 Seq#003 (DEU-P01-002) PER-132R1

Krishna Kulkarni introduced the paper.

PER-132R1 was accepted as resolving Seq#003.

8.14 Seq#004 (GBR-P01-020) Editorial

Resolved.

8.15 Seq#005 (DEU-P01-003) (PER-133)

PER-133 proposes that the comment should be rejected. PER-133 was accepted as resolving Seq#005.

**8.16 Seq#006 (NLD-P01-001) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

8.17 Seq#006a (WG3-P01-013) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**8.18 Seq#006b (WG3-P01-018) (PER-146)
(PER-160)**

Resolved by conversion to a Language Opportunity on acceptance of PER-146 (see 8.12).

8.19 Seq#007 (GBR-P01-030) Editorial

Resolved.

8.20 Seq#008 (DEU-P01-004) see comment

The UK proposed an alternate solution to that proposed in the comment, to remove "base" from the text in the draft.

The editor disliked this solution and proposed a further alternative, to change the sentence in question to: "No table can be null, although a table may have no rows."

The Editor's proposal was accepted and the comment resolved.

8.21 Seq#009 (DEU-P01-005) see comment

Fred Zemke suggested that in the text of the solution proposed with the comment, "supertype" should be replaced with "proper supertype". This suggestion was not accepted.

The solution proposed with the comment was accepted without change as resolution of the comment.

**8.22 Seq#009a (WG3-P01-020) (PER-095)
(PER-096)**

It was noted that PER-095 also addresses Seq#040 and Seq#077.

Hugh Darwen introduced PER-095 and PER-096. As well as addressing existing comments, the papers also identify a number of Possible Problems.

PER-095 was accepted as resolving comments Seq#009a, Seq#040 (see 9.17) and Seq#077 (see 9.54).

8.23 Seq#009b (WG3-P01-021) (PER-135)

Stephen Cannan introduced PER-135.

PER-135 was accepted as resolving Seq#009b.

8.24 Seq#010 (DEU-P01-006) (PER-138)

PER-138 was accepted as resolving Seq#010 and Seq#011 (see 8.25)

8.25 Seq#011 (DEU-P01-007) (PER-138)

See 8.24. Resolved.

8.26 Seq#011a (WG3-P01-014)

It was observed that the terms "exact numeric" and "approximate numeric" were defined in the SQL standard, and had been arrived at after substantial consideration several years ago. It was further observed that exact numeric types provided a uniform representation of values within the range of the type, whilst approximate provided a non-uniform representation of values within the range of the type.

The comment was rejected, resolved with no action.

**8.27 Seq#011b (WG3-P01-015) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**8.28 Seq#011c (WG3-P01-016) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

8.29 Seq#011d (WG3-P01-019) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**8.30 Seq#011e (WG3-P01-017) (PER-054R1)
(PER-095)
(PER-146)**

PER-146 identified that PER-054R1 and PER-095 had resolved this comment, Seq#011e, although it was not mentioned explicitly in those proposals.

8.31 Seq#012 (USA-P01-001)

8.32 Seq#013 (USA-P01-002)

(PER-171)

Krishna Kulkarni introduced PER-171. He stated that it proposed closure of a number of comments with no action.

It was agreed that the problem identified in section 1.1 of the proposal should be documented as a Language Opportunity and Seq#013 closed without further action.

In section 1.5, “SQL-statements other than SQL-statements that possibly modify SQL-data, that simply contain a <subquery>” was changed to “SQL-statements that simply contain a <subquery>, other than SQL-statements that possibly modify SQL-data”.

On proposal section 1.6, item 1, there was considerable discussion of the text of the proposed new paragraph. The proposed text was considered unsatisfactory, but no acceptable alternative could be agreed on immediately, so section 1.6 was withdrawn.

In section 1.7, in the text of the proposed Language Opportunity, “substring [Ed. Does this mean “subarray”?]” was changed to “subarray”.

Section 1.8 was withdrawn.

Section 1.9 was withdrawn.

PER-171, as modified, was accepted as resolving comments Seq#013, Seq#014 (see 8.33), Seq#039 (see 9.16), Seq#056 (see 9.33), Seq#059 (see 9.36), Seq#108 (see 9.74), Seq#251 (see 9.209), Seq#404 (see 9.338), Seq#463 (see 11.23), Seq#474 (see 11.32), Seq#477 (see 11.35), Seq#479 (see 11.37), Seq#488 (see 11.44) and Seq#489 (see 11.45).

Acceptance of PER-171, as modified, deletes Possible Problems PP736, PP737, PP742, PP-PSM030, PP-PSM110, PP-PSM118, PP-PSM126, PP-PSM128 and PP-PSM134

8.33 Seq#014 (USA-P01-003)

(PER-171)

Resolved. See 8.32.

8.34 Seq#015 (USA-P01-004)

see comment

Hugh Darwen said that he disagreed with the comment. Fred Zemke said that he felt that both definitions should be together in the same document.

Jim Melton proposed that the opposite solution to that proposed with the comment should be adopted: that the definition of “directly contains” should be moved from foundation to framework.

This alternative proposal was adopted as resolving the comment.

8.35 Seq#016 (GBR-P01-040)

(PER-021)

The Editor introduced PER-021 and the state of discussions with ITTF regarding presentation of the incremental parts of ISO/IEC 9075. Presentation of the topic to this meeting satisfied his statement to ITTF that he would consult with the group on the topic.

The Editor commended the solution outlined in PER-021, which involved the removal of Table 1 from each of the incremental parts and its replacement by comments in the body of the document.

Steve Cannan said that he would assist the Editor with the changes needed to SQL/Framework.

The Editor said that he would follow the spirit of comment Seq#016, but might adopt a solution that differed in detail. SD-004 would be updated to describe the new requirements. The Convenor undertook to execute the update changes to SD-004.

It was agreed that the Editor would implement the changes as soon as possible and in particular would attempt to implement it in one or more of the output documents from this meeting.

It was agreed that the comment should be marked as resolved.

8.36 Seq#021 (NLD-P01-002)

(PER-067)

Closed by acceptance of PER-067.

Language Opportunity deleted.

8.37 Seq#022 (USA-P01-006) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

8.38 Seq#023 (USA-P01-007) (PER-106)

Fred Zemke introduced PER-106.

PER-106 was accepted without modification as resolution of Seq#023.

8.39 Seq#023a (WG3-P01-012) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9 SQL/Foundation Topics

9.1 Seq#024 (GBR-P02-000)

Determined to be editorial. Resolved.

9.2 Seq#025 (USA-P02-001)

Seq#095 (NLD-P02-022)

Seq#297 (NLD-P02-182)

Seq#306 (GBR-P02-500)

Seq#409 (NLD-P02-183)

Seq#410 (NLD-P02-184)

(PER-054R1)

Hugh Darwen introduced the paper. The Editor undertook to add references to definitions of “normalisation” and other terms that are used in text introduced by the proposal but are not defined.

Paper PER-054R1 was accepted 7-0-1, with Japan requesting that their abstention be recorded. Acceptance resolves the above comments and also resolves Seq#002b (see 8.4), Seq#2d (see 8.6) and Seq#9b. It partially addresses Seq#95a and Seq#420b.

9.3 Seq#026 (NLD-P02-001) (PER-067)

It was noted during discussion that the proposal did not change keywords, so the syntax remained unchanged. No action was taken upon the suggestion that parts of feature F691 might be deprecated.

PER-067 was adopted as resolution of Seq#026.

9.4 Seq#027 (NLD-P02-002) (PER-201)

PER-201 argues that Seq#027 should be resolved without action.

On investigation, it was found that a change was required: In SQL/Foundation, subclause 11.49, “<sql invoked routine>”, Syntax Rule 4) a) iii), change “schema descriptor of S” to “S”.

Acceptance of PER-201 as modified was accepted as resolution of Seq#027.

9.5 Seq#028 (GBR-P02-010) (PER-128)

PER-128 was accepted as resolving Seq#028.

9.6 Seq#029 (USA-P02-002) see comment

The change suggested with the comment was accepted as resolution of the comment.

9.7 Seq#030 (GBR-P02-020) see comment

Jim Melton expressed the view that the solution proposed with the comment would lose the statement that some character sets had an open repertoire whilst others have a closed repertoire, but said that he did not oppose the comment. Hugh Darwen responded that the proposed text makes the statement implicitly.

It was agreed that a new sentence should be added to the text of the solution proposed with the comment:

“The SQL_TEXT and SQL_IDENTIFIER character sets must contain all the characters that are supported by the SQL implementation (for SQL-data and for <identifier>s, respectively) but are not constrained to contain only those characters.

The amended solution was accepted as resolution of the comment.

9.8 Seq#031 (NLD-P02-003)

9.9 Seq#032 (USA-P02-003)

see comment

The solution proposed with the comment was accepted as resolution of the comment

9.10 Seq#033 (CAN-P02-002)

(PER-116)

Jutta Kreys introduced PER-116.

There was discussion about the possibility of distinguishing between the nullity of an object as a whole and the nullity of one or more of its components. It was agreed that the distinction should not be pursued by modification of PER-116.

Hugh Darwen suggested that we have a definition of the null predicate that is circular rather than recursive. This suggestion was disputed.

PER-116 was accepted as resolving Seq#033, and also Seq#138 (see 9.101), Seq#139 (see 9.102), Seq#143 (see 9.106), Seq#146 (see 9.109), Seq#147 (see 9.110), Seq#148 (see 9.111) and Seq#149 (see 9.112) and Seq#150 (see 9.113)

9.11 Seq#034 (USA-P02-004)

see comment

An amendment was proposed to modify the solution proposed with the comment by modifying the change to eleventh paragraph to “where *N* is implementation-defined”. The amendment was accepted and the modified solution was accepted as resolving the comment.

9.12 Seq#035 (USA-P02-005)

(PER-098R1)

Resolved. See 9.13.

9.13 Seq#036 (USA-P02-006)

Seq#098 (NLD-P02-023)

Seq#099 (NLD-P02-024)

Seq#100 (USA-P02-030)

Seq#102 (USA-P02-031)

Seq#107 (USA-P02-034)

Seq#109 (USA-P02-035)

Seq#209 (NLD-P02-050)

Seq#346 (NLD-P02-116)

Seq#368 (NLD-P02-138)

(PER-098R1)

(PER-114)

Fred Zemke introduced the PER-098 and reviewed the comments addressed by the paper. In addition to those noted in the Agenda, the paper also resolves comments #350 and #371.

In item 7.3, lead-in, correct the spelling of “Locators”. In section 8.18, move the words “COLLECT”, “FUSION” and “INTERSECTION” from item 2, Reserved Words to item 1, non-reserved words.

PER-098, as amended, accepted as resolution of the comments identified above and partial resolution of #035 and #289. It also clears LO 456 and LO604.

9.14 Seq#037 (NLD-P02-004)

9.15 Seq#038 (NLD-P02-005)

(PER-195R1)

(PER-197)

Closed with no action. See 18.3.

9.16 Seq#039 (USA-P02-007)

(PER-171)

Resolved. See 8.32.

9.17 Seq#040 (GBR-P02-030) (PER-095)
(PER-096)

Resolved. See 8.22.

9.18 Seq#041 (USA-P02-008) (PER-146)
(PER-160)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.19 Seq#042 (GBR-P02-040) see comment

Krishna Kulkarni identified a PP in <view definition> and Schemata, that IS REFERENCEABLE is not supported.

The solution proposed with the comment was accepted as resolution of the comment.

9.20 Seq#043 (USA-P02-009)

Hugh Darwen proposed that the comment should be closed with no action.

After discussion, it was agreed that the comment should be closed with no action, but it was recognised that there was a problem regarding the identity of the row that is deleted by a <delete statement: positioned>.

9.21 Seq#044 (GBR-P02-050) see comment

The solution proposed with the comment was accepted as resolution of the comment.

9.22 Seq#045 (USA-P02-010) (PER-146)
(PER-160)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.23 Seq#046 (NLD-P02-006)

9.24 Seq#047 (USA-P02-011) (PER-151)

Fred Zemke introduced PER-151.

In proposal section 3, item 1, the spelling of “deterministic” was corrected.

PER-151, as amended, was accepted as resolution of Seq#047, Seq#048 (see 9.25) and Seq#049 (see 9.26)

9.25 Seq#048 (USA-P02-012) (PER-151)

Resolved by acceptance of PER-151 (see 9.24).

9.26 Seq#049 (USA-P02-013) (PER-151)

Resolved by acceptance of PER-151 (see 9.24).

9.27 Seq#050 (NLD-P02-009)

9.28 Seq#051 (USA-P02-014)

9.29 Seq#052 (USA-P02-015)

9.30 Seq#053 (NLD-P02-007)

Seq#484 (NLD-P04-028)

(PER-020R2)

Stephen Cannan introduced PER-020R2.

The change to subclause 13.5 was modified to make it explicit that the new rule is a General Rule and to remove the comma immediately after “Syntax Rules”.

Hugh Darwen suggested that a change similar to that proposed for SR18 of Foundation subclause 11.49, <SQL-invoked routine> was also needed in SR19. A proposal item was added to change SR19a, “<SQL routine body>” to “<SQL routine spec>” in SR19a.

A new proposal item was added to modify SQL/Foundation subclause 15.2 by changing “that is” to “simply contained in”.

On a vote, The Netherlands, Canada, Japan, Australia and UK were in favour of the proposal, Germany against, and USA abstained.

The modified proposal was accepted as resolving comments Seq#053 and Seq#484.

Language Opportunities LO697 and LO-PSM-145 were deleted.

**9.31 Seq#054 (NLD-P02-008) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.32 Seq#055 (USA-P02-016) (PER-016)

In proposal section 4.1, item 1, last sentence, “may not” was changed to “cannot”. The modified proposal was accepted as resolving Seq#055.

9.33 Seq#056 (USA-P02-017) (PER-171)

Resolved. See 8.32.

**9.34 Seq#057 (NLD-P02-010) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.35 Seq#058 (DEU-P02-002) (PER-130)

PER-130 was accepted as resolving Seq#058.

9.36 Seq#059 (USA-P02-018) (PER-171)

Resolved. See 8.32.

9.37 Seq#060 (NLD-P02-011) (PER-115)

Jutta Kreyss introduced PER-115.

PER-115 was accepted as resolving comments Seq#060, Seq061 (see 9.38) and Seq#062 (see 9.39).

9.38 Seq#061 (DEU-P02-001) (PER-115)

Resolved. See 9.37

9.39 Seq#062 (GBR-P02-060) (PER-115)

Resolved. See 9.37

9.40 Seq#063 (NLD-P02-013)

9.41 Seq#064 (GBR-P02-070) (PER-146)

Resolved as Editorial. See 8.12.

9.42 Seq#065 (NLD-P02-012) (PER-171)

During discussion of PER-171, section 1.6, which addressed Seq#065, was withdrawn, see 8.32.

Acceptance of PER-171, as modified, therefore did not resolve Seq#065.

**9.43 Seq#066 (GBR-P02-080) (PER-157)
(PER-157R1)
(PER-174)**

Jutta Kreyss introduced PER-157.

During discussion, it was identified that the problem addressed by the paper and the comment was an instance of a more general problem. It was agreed that a common revision of PER-157 and PER-174 should be developed.

Because of time constraints, PER-157R1 was developed without merging with PER-174.

Fred Zemke introduced PER-174.

Hugh Darwen proposed that the text introduced by section 3.1, item 1 should be changed in part to "... character set of any character-string appearing in SQL data". The author of PER-174 accepted this amendment.

PER-174 as amended was accepted as further resolution of Seq#070a (see 9.369).

Jutta Kreyss introduced PER-157R1.

In the proposed new text for the introduction to SR13, "<source language character set>" was changed to "character in the source language character set". The Editor undertook to make analogous changes to subrules a) and b) of Syntax Rule 7 of subclause 5.3, <literal>.

PER-157R1, as amended, was accepted as resolution of Seq#066.

9.44 Seq#067 (SWE-P02-001) (PER-027)

As "CONTAINS" is used as a user-defined name in SQL/MM, it was agreed that it should be deleted from the proposal. It was agreed that a PP concerning use of "CONTAINS" as a reserved word should be raised against SQL/Temporal.

PER-027 as modified was accepted resolving Seq#067.

9.45 Seq#068 (NLD-P02-014) (PER-034)

Krishna Kulkarni requested that the names of built-in data types be removed from the list of words to be reclassified. This change was accepted.

PER-0334, as modified was accepted as resolving Seq#068.

Language opportunities LO61 and LO777 were deleted.

**9.46 Seq#069 (USA-P02-019)
Seq#229 (USA-P02-092) (PER-107)**

Fred Zemke introduced PER-107. It was noted that it also addresses #101, LO761.

PER-107 was accepted without change as resolving Seq#069, Seq#229 and Seq#101 (see 9.69).

Acceptance of PER-107 closes Language Opportunity LO761.

9.47 Seq#070 (USA-P02-020) (PER-198)

Jim Murray introduced PER-198.

It was agreed that Seq#070 should be left open.

The reference to "P9" in the proposal was corrected to "SQL/Foundation"

Proposal section 2.1.2 was withdrawn.

Proposal section 2.1.1 was accepted and a corresponding change to the TC was accepted.

9.48 Seq#071 (USA-P02-021) (PER-103)

A number of minor editorial changes were identified.

PER-103, with editorial changes, was accepted as resolving Seq#071.

The Editor agreed to consider factoring out frequently repeated text and to consider imposing a consistent ordering of references to data types when applying the changes.

- 9.49** **Seq#072 (NLD-P02-015)**
Seq#232 (NLD-P02-053)
Seq#264 (NLD-P02-065)
Seq#273 (NLD-P02-069)
Seq#315 (NLD-P02-085)
Seq#325 (NLD-P02-095)
Seq#329 (NLD-P02-099)
Seq#333 (NLD-P02-103)
Seq#339 (NLD-P02-109)
Seq#340 (NLD-P02-110)
Seq#341 (NLD-P02-111)
Seq#342 (NLD-P02-112)
Seq#345 (NLD-P02-115)
Seq#351 (NLD-P02-121)
Seq#352 (NLD-P02-122)
Seq#367 (NLD-P02-137)
Seq#400 (NLD-P02-172)
Seq#467 (NLD-P04-009)
Seq#470 (NLD-P04-012)
Seq#485 (NLD-P04-005) **(PER-117)**

Krishna Kulkarni introduced PER-117. He said that the paper proposed that no changes were needed to resolve the comments addressed by the paper and that a number of Language Opportunities could be dropped. LO608 was deleted from the list of Language Opportunities to be dropped, and thus the LO is retained.

PER-117 accepted as resolution of the comments identified above and deletion of all referenced Language Opportunities except LO608.

Acceptance of PER-117 deletes Language Opportunities LO092, LO275, LO311, LO334, LO365, LO373, LO397, LO425, LO442, LO457, LO458, LO536, LO583, LO727, LO749, LO750, LO-PSM092, LO-PSM093 and LO-PSM096.

- 9.50** **Seq#073 (NLD-P02-016)** **(PER-146)**
Resolved with no action by acceptance of PER-146 (see 8.12)

- 9.51** **Seq#074 (NLD-P02-017)** **(PER-195R1)**
(PER-197)

Closed with no action. See 18.3.

- 9.52** **Seq#075 (NLD-P02-018)**

- 9.53** **Seq#076 (NLD-P02-019)**

Fred Zemke introduced a discussion of the comment. He asserted that, although the comment states that it identifies a Possible Problem, in fact it describes a Language Opportunity.

It was agreed that Seq#076 should be closed as a Language Opportunity.

- 9.54** **Seq#077 (USA-P02-022)** **(PER-095)**
(PER-096)

Resolved. See 8.22.

- 9.55** **Seq#078 (NLD-P02-020)** **(PER-195R1)**
(PER-197)

Closed with no action. See 18.3.

- 9.56** **Seq#079 (USA-P02-023)** **(PER-155R2)**
Resolved. See 11.11.

**9.66 Seq#094 (USA-P02-028) (PER-015)
(PER-112)**

Fred Zemke presented PER-015 and Phil Brown presented the counter-proposal PER-112. There was discussion of the relative merits of the approaches taken in the two papers. On a vote, USA, The Netherlands, Germany, Canada, Japan and Sweden voted in favour of PER-015, UK voted in favour of PER-112 and Australia abstained.

The editorial changes to PER-015 identified in PER-112 were accepted as modifications to PER-015. PER-015, as amended, was accepted as resolving Seq#094.

**9.67 Seq#096 (GBR-P02-170) See Comment
(PER-187)**

Hugh Darwen introduced the comment. Fred Zemke and others identified that a wider solution might be needed. Further discussion and disposition of the comment were deferred.

Fred Zemke introduced PER-187, which provides an alternative to the solution proposed with the comment.

PER-187 was accepted as resolving Seq#096.

9.68 Seq#097 (USA-P02-029) See Comment

Accepted as editorial.

9.69 Seq#101 (NLD-P02-025) (PER-107)

Resolved by PER-107 (see 9.46).

9.70 Seq#103 (USA-P02-032) (PER-099)

Fred Zemke introduced PER-099.

PER-099 was accepted without modification as resolution of Seq#103.

9.71 Seq#104 (NLD-P02-026) (PER-152)

Krishna Kulkarni introduced PER-152.

The proposed new text for subclause 6.24, “<subtype treatment>”, General Rule 2)b)I) was modified by deletion of the first sentence and replacement of “an element of *ST*” with “a sub-type of *DT*”.

PER-152, as modified, was accepted as resolution of Seq#104.

Acceptance of PER-152 deletes Possible Problem PP170.

9.72 Seq#105 (USA-P02-033) (PER-126R2)

Fred Zemke introduced a discussion of the issues raised by the comment, with a request for direction on the approach to be adopted in completing PER-126.

Later in the meeting, Fred Zemke introduced PER-126R1. The proposal in PER-046 touches the same areas as PER-126, so for clarity the changes introduced by PER-046 are merged into the changes introduced by PER-126. PER-126R1 also modifies some of the changes introduced by PER-098, and in those cases PER-126 includes total replacement of the relevant sub-clauses. Notes to the Editor identify these places.

Two possible problems are identified.

Fred also identified two items for inclusion in the TC and agreed to supply appropriate text to the TC editor. Two minor editorial changes were identified. These will all be incorporated in a second revision of the proposal

PER-126R1 also resolves the following comments: Seq#106 (see 9.73), Seq#110 (see 9.75), Seq#136 (see 9.99), Seq#140 (see 9.103) and Seq#145 (see 9.108).

9.73 Seq#106 (DEU-P02-014) (PER-126R2)

Resolved by acceptance of PER-126R2 (see 9.72).

9.74 Seq#108 (NLD-P02-027) (PER-171)
Resolved. See 8.32.

9.75 Seq#110 (USA-P02-036) (PER-046)
(PER-126R2)

Resolved by acceptance of PER-046 and PER-126R2 (see 9.72).

9.76 Seq#111 (NLD-P02-028) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.77 Seq#112 (NLD-P02-029)

9.78 Seq#113 (USA-P02-037)

9.79 Seq#114 (USA-P02-038)

9.80 Seq#115 (USA-P02-039)

9.81 Seq#116 (GBR-P02-180) See Comment
(PER-057R1)

Comment accepted. Resolved.

It was noted during discussion that this comment addressed same area as PER-057.

During discussion under Agenda item 9.58, it was recognised that the changes proposed in PER-057 subsumed the solution proposed in this comment. It was agreed that the comment should be treated as closed by PER-057.

9.82 Seq#117 (GBR-P02-190) Editorial
Resolved.

9.83 Seq#118 (NLD-P02-030) (PER-146)
(PER-160)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.84 Seq#119 (USA-P02-040) (PER-044R1)

Fred Zemke presented the proposal. Page 12, antepenultimate line, change “/*” to “/* BSL_i */”.

Acceptance of PER-044 as modified resolved Seq#119.

Fred Zemke subsequently introduced a revised paper, PER-044R1, explaining that he now considered that the solution provided by the original version was unsatisfactory.

The marking of comment Seq#119 was changed to indicate that it was resolved by PER-044R1

9.85 Seq#120 (USA-P02-041)

9.86 Seq#121 (NLD-P02-031) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.87 Seq#122 (GBR-P02-200) See Comment

The solution proposed with the comment was accepted as resolving the comment.

9.88 Seq#124 (GBR-P02-220) (PER-091)
(PER-134R2)

Hugh Darwen introduced PER-091, but stated that the UK would be supporting the USA counter-proposal.

Fred Zemke introduced PER-134R1. It was agreed that the incompatibility introduced by this proposal should be documented in the standard under consideration rather than as a TC to ISO/IEC 9075:1999.

PER-134R1 was accepted as resolving Seq#124.

PER-091 was withdrawn.

9.89 Seq#125 (GBR-P02-230)
Seq#126 (NLD-P02-033) **(PER-059R1)**

Hugh Darwen introduced PER-059R1.

PER-059R1 was accepted as resolving comments Seq#125 and Seq#126.

Acceptance of PER-059R1 deleted Possible Problem PP762.

9.90 Seq#127 (NLD-P02-032) **(PER-195R1)**
(PER-197)

Closed with no action. See 18.3.

9.91 Seq#128 (USA-P02-042) **(PER-158)**

Krishna Kulkarni introduced PER-158.

The paper proposes that the comment should be closed with no action.

The US proposed that the paper be amended to modify SQL/Foundation subclause 7.12, Syntax Rule 22c, by changing “contain a” to “contain an explicit or implicit”.

PER-158, as amended, was accepted as resolving Seq#128.

9.92 Seq#129 (USA-P02-043) **(PER-171)**

During discussion of PER-171, section 1.8, which addressed Seq#129, was withdrawn, see 8.32.

Acceptance of PER-171, as modified, therefore did not resolve Seq#129.

9.93 Seq#130 (DEU-P02-015) **See Comment**

The solution proposed with the comment was accepted as resolving Seq#130.

9.94 Seq#131 (USA-P02-044) **(PER-156)**

Krishna Kulkarni introduced PER-156.

PER-156 was accepted as resolving comments Seq#131 and Seq#134 (see 9.97).

Acceptance of PER-156 deleted Language Opportunity LO708A.

9.95 Seq#132 (USA-P02-045)

9.96 Seq#133 (GBR-P02-240) **(PER-159)**

Hugh Darwen introduced PER-159. He stated that the proposal did not change the semantics of the language, and the authors of the comment that it addresses had not investigated the existence of any related semantic problems.

PER-159 was accepted as resolution of Seq#133.

It was agreed that research was needed before full resolution of any related semantic problems could be achieved.

9.97 Seq#134 (NLD-P02-034) **(PER-156)**

Resolved by acceptance of PER-156, see 9.94

9.98 Seq#135 (USA-P02-046)

9.99 Seq#136 (USA-P02-047) **(PER-126R2)**

Resolved by acceptance of PER-126R1, see 9.72.

9.100 Seq#137 (DEU-P02-003) **See Comment**

Resolved by comment

9.101 Seq#138 (DEU-P02-004) **(PER-116)**

Resolved by acceptance of PER-116, see 9.10

- 9.102 Seq#139 (DEU-P02-005) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.103 Seq#140 (USA-P02-048) (PER-126R2)**
Resolved by acceptance of PER-126R1, see 9.72.
- 9.104 Seq#141 (USA-P02-049) (PER-018)**
PER-018 was amended by adding an ellipsis between the closing brace and bracket in proposal part 3.1.
PER-018, as amended, was accepted as resolving Seq#141.
- 9.105 Seq#142 (DEU-P02-007)**
- 9.106 Seq#143 (DEU-P02-008) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.107 Seq#144 (DEU-P02-006) Editorial**
Resolved.
- 9.108 Seq#145 (NLD-P02-035) (PER-126R2)**
Resolved by acceptance of PER-126R1, see 9.72.
- 9.109 Seq#146 (DEU-P02-009) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.110 Seq#147 (USA-P02-050) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.111 Seq#148 (USA-P02-051) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.112 Seq#149 (DEU-P02-010) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.113 Seq#150 (USA-P02-052) (PER-116)**
Resolved by acceptance of PER-116, see 9.10
- 9.114 Seq#151 (USA-P02-053) (PER-176)**
Fred Zemke introduced PER-176, which proposes closing the comment with no action, and also identifies a possible problem.
Hugh Darwen suggested that the Possible Problem identified during discussion of comment Seq#421 (see 9.353) should be merged. This was accepted.
PER-176 was accepted as resolving Seq#151, and also Seq#152 (see 9.115), Seq#227 (see 9.189), Seq#228 (see 9.190) and Seq#421 (see 9.353)
- 9.115 Seq#152 (USA-P02-054) (PER-176)**
Resolved by acceptance of PER-176, see 9.114.
- 9.116 Seq#153 (USA-P02-055)**
- 9.117 Seq#154 (USA-P02-056)**
- 9.118 Seq#155 (USA-P02-057) (PER-181)**
Krishna Kulkarni introduced PER-181.
PER-181 was accepted as resolving Seq#155.

9.119 Seq#156 (NLD-P02-036) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.120 Seq#157 (JPN-P02-003) Editorial

9.121 Seq#158 (GBR-P02-250) (PER-060)
(PER-089)

Although PER-060 had been allocated as reference for a paper that would address Seq#158, that paper was not produced.

Hugh Darwen proposed that the problem should be converted to a Possible Problem, as specified in PER-089.

Acceptance of PER-089 resolved Seq#158.

9.122 Seq#159 (USA-P02-058) (PER-143)

Krishna Kulkarni introduced PER-143.

After some discussion, it was agreed that consideration of PER-143 should be suspended to allow detailed study of the proposal.

At a later session of the meeting, PER-143 was accepted as resolution of Seq#159.

9.123 Seq#160 (USA-P02-059) See Comment

The solution proposed with the comment was accepted. Resolved.

9.124 Seq#161 (USA-P02-060)

9.125 Seq#162 (GBR-P02-260) Editorial
Resolved.

9.126 Seq#163 (GBR-P02-270) (PER-182)

Krishna Kulkarni introduced PER-182.

The word “called” was deleted from the first line of the text proposed in sections 3.1 and 4.1

PER-182 as modified was accepted as resolving Seq#163.

9.127 Seq#164 (USA-P02-061) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.128 Seq#165 (USA-P02-062) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.129 Seq#166 (JPN-P02-005) (PER-092)
(PER-149)

Resolved by PER-092 and PER-149 (see 9.199).

9.130 Seq#167 (USA-P02-063) See Comment

The solution proposed with the comment accepted. Resolved.

9.131 Seq#168 (USA-P02-064) (PER-177)

Krishna Kulkarni introduced PER-177.

Hugh Darwen proposed changes to PER-177. The change to CR 1 of subclause 14.8 in SQL/Foundation was changed to: “Without Feature F781, “Self-referencing operations”, **the <table name> of no leaf generally underlying table of *T* shall be generally contained in the <query expression> immediately contained in the <insert columns and source> except as the <table or query name> or <correlation name> **table name of a qualifying table** of a column reference.**

PER-177 as amended was accepted as resolution of Seq#168, Seq#237 (see 9.195) and Seq#239 (see 9.197).

9.132 Seq#169 (NLD-P02-037) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.133 Seq#170 (NLD-P02-038) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.134 Seq#171 (USA-P02-065)

9.135 Seq#172 (GBR-P02-280)
Seq#234 (CAN-P02-004)
Seq#236 (USA-P02-095) (PER-090)

Hugh Darwen introduced PER-090.

In section 2.3 of the proposal, changes to subclause 14.3, “<insert statement>”, in the text of the proposed Syntax Rule 10)b), insert “the” after “contained in”.

PER-090, as modified, was accepted as resolving Seq#172, Seq#234 and Seq#236.

Following approval of PER-090, the Editor accepted further minor editorial corrections.

9.136 Seq#173 (USA-P02-066) (PER-104)

The proposal was modified by deleting the word COLUMN from both options in the production for <column default option> in section 3.2, item 2, and from references elsewhere in the proposal to that production.

PER-104, as amended, was accepted as resolving Seq#173.

9.137 Seq#174 (USA-P02-067)

9.138 Seq#175 (GBR-P02-290) See Comment

The solution proposed in the comment was accepted as resolving the comment, and accepted also for application to the TC.

It was noted that this restores the text to what was originally approved.

9.139 Seq#176 (NLD-P02-039) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.140 Seq#177 (USA-P02-068)

Proposal: In SQL/Foundation, Subclause 11.3, “<table definition>”, Syntax Rule 11)d)ii), delete from the beginning of the rule through the word “otherwise,” and then replace “creation of AD” with “creation of the data type descriptor included in AD”

The proposal was accepted. Application of this amendment was accepted as resolving the comment.

9.141 Seq#178 (USA-P02-069)

Proposal: In SQL/Foundation, Subclause 11.3, “<table definition>”, Syntax Rules 11)a) and 11)b), replace “TEL1” with “TEL” in Syntax Rule 11)d), replace “TEL1 TEL2, defined” with “TEL1 TEL2, where TEL1 and TEL2 are defined”.

The proposal was accepted. Application of this amendment was accepted as resolving the comment.

9.142 Seq#179 (JPN-P02-004) Editorial

Resolved

9.143 Seq#180 (GBR-P02-300)

Closed with no action.

9.144 Seq#181 (USA-P02-070)

9.145 Seq#182 (GBR-P02-310)

(PER-105)

Fred Zemke introduced PER-105, which presents arguments that the comment should be rejected.

PER-105 was accepted as (the negative) resolution of Seq#182.

9.146 Seq#183 (USA-P02-071)

See Comment

The solution accompanying the comment was accepted as resolving the comment.

9.147 Seq#184 (NLD-P02-040)

(PER-195R1)

(PER-197)

Closed with no action. See 18.3.

9.148 Seq#185 (USA-P02-072)

Proposal: In SQL/Foundation, sub-clause 11.8, GR 9, replace “the same SQL statement” with “the same innermost SQL statement”

The proposal was accepted. Application of this amendment was accepted as resolving the comment.

9.149 Seq#186 (GBR-P02-320)

(PER-169)

Hugh Darwen introduced PER-169.

PER-169 was accepted as resolving Seq#186.

9.150 Seq#187 (NLD-P02-041)

(PER-195R1)

(PER-197)

Closed with no action. See 18.3.

9.151 Seq#188 (USA-P02-073)

9.152 Seq#189 (USA-P02-074)

(PER-019)

PER-019 was accepted as resolving Seq#189.

9.153 Seq#190 (USA-P02-075)

Hugh Darwen asserted that the comment was misconceived and should be closed with no action.

After brief investigation the assertion was accepted.

The comment was close with no action.

9.154 Seq#191 (NLD-P02-042)

(PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.155 Seq#192 (GBR-P02-325)

Withdrawn

The UK confirmed that the comment was withdrawn. However, the Editor said that the editorial changes identified in the comment would be applied.

9.156 Seq#193 (NLD-P02-043)

(PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.157 Seq#194 (NLD-P02-044)

(PER-195R1)

(PER-197)

Closed with no action. See 18.3.

9.158 Seq#195 (NLD-P02-045)

9.159 Seq#196 (DEU-P02-011)

Hugh Darwen proposed that the comment should be resolved by adopting the solution tentatively proposed in the comment.

Seq#196 was resolved by adopting the solution tentatively proposed in the comment.

9.160 Seq#197 (GBR-P02-330) (PER-127)

PER-127 was accepted as resolving Seq#197.

9.161 Seq#198 (NLD-P02-046) (PER-142)

Krishna Kulkarni introduced PER-142.

Hugh Darwen pointed out that as an intermediate syntax production was being introduced, all parts of the standard should be checked to ensure that there was no impact on any instances of “immediately contained”. It was determined that the productions concerned were not referenced in any part other than SQL/Foundation. It was also determined that there was no problem with immediate containment.

It was established that a Conformance Rule was required, as a requirement of the previous version of the standard was being relaxed. The wording of the Conformance Rule was left to the discretion of the Editor.

PER-142, with its virtual amendment, was accepted as resolution of Seq#198.

Acceptance of PER-142 deletes Language Opportunity LO602.

**9.162 Seq#199 (NLD-P02-047) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.163 Seq#200 (NLD-P02-048) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.164 Seq#201 (USA-P02-076) (PER-145)

Jutta Kreyss introduced PER-145.

The proposal was amended by the deletion of “UDTD” from the proposed new Syntax Rule 10 for subclause 11.40 <user-defined type definition>. The positioning of the new rule among the Syntax Rules of the subclause was left to the discretion of the Editor.

PER-145, as amended, was accepted as resolving Seq#201.

**9.165 Seq#202 (USA-P02-077) (PER-131)
(PER-131R1)**

Krishna Kulkarni introduced PER-131. On initial discussion, the proposed solution was rejected and an alternative suggested. Krishna undertook to produce a revised proposal.

Krishna Kulkarni introduced a revised proposal, PER-131R1.

The proposed new text was modified to: “If UDT is a distinct type or INSTANTIABLE is specified or implicit, an indication of instantiable; otherwise, an indication of not instantiable.”

PER-131R1, as amended, accepted as resolution of Seq#202.

9.166 Seq#203 (USA-P02-078) See Comment

Solution proposed in the comment accepted. Resolved.

9.167 Seq#204 (USA-P02-079)

9.168 Seq#205 (USA-P02-080) (PER-045)

PER-045 was accepted without modification as resolving Seq#205.

**9.169 Seq#206 (SWE-P02-002) (PER-028)
(PER-183)**

After a brief discussion, a decision on PER-028 was deferred.

Later, Hugh Darwen introduced PER-183, which addresses the issues that caused disposition of PER-028 to be deferred when it was initially addressed.

Acceptance of PER-028 as amended by PER-183 resolved comment Seq#206.

9.170 Seq#207 (USA-P02-081)

(PER-108)
(PER-108R1)

Krishna Kulkarni introduced PER-108.

Phil Brown raised the issue of the initial values of output parameters, now that they can be used as a source of values. Decision deferred for investigation of the possibility of setting output parameters to initial null values.

Later in the meeting, Krishna introduced the revised paper, PER-108R1.

PER-108R1 was accepted as resolving #207.

9.171 Seq#208 (NLD-P02-049)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.172 Seq#210 (NLD-P02-051)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.173 Seq#211 (USA-P02-082)

(PER-171)
(PER-189R1)

During discussion of PER-171, section 1.9, which addressed Seq#211, was withdrawn, see 8.32.

Acceptance of PER-171, as modified, therefore did not resolve Seq#211.

Krishna Kulkarni introduced PER-189R1.

PER-189R1 was accepted as resolution of Seq#211.

9.174 Seq#212 (USA-P02-083)

Hugh Darwen proposed that the Note referenced in the comment, SQL/Foundation, Note 325, following sub clause 11.52 Syntax Rule 10f, should be deleted.

The proposal was accepted as resolution of the comment.

9.175 Seq#213 (DEU-P02-012)

See Comment

Solution from comment accepted. Resolved.

9.176 Seq#214 (DEU-P02-013)

See Comment

Solution from comment accepted. Resolved.

9.177 Seq#215 (USA-P02-084)

See Comment

In the proposed solution, two instances of “contains” were changed to “includes”. Adopted as amended. Resolved.

9.178 Seq#216 (USA-P02-085)

(PER-173R1)

Stephen Cannan introduced PER-173R1.

A need to amend the change to subclause 12.2, General Rule 7 was identified. The word “and” was deleted from the fourth line, a semicolon was changed to a comma, and the Editor undertook to wordsmith the necessary changes to the remaining text.

In the proposed changes to Rules 22 and 23, in sub-rule a.0 in both places, “SELECT” was changed to “REFERENCES”.

In a number of places in new and established text, there were instances of “privileges” that should be singular. Correction was left to the discretion of the Editor.

PER-173R1, as amended, was accepted as resolving Seq#216, Seq#219 (see 9.181), Seq#220 (see 9.182) and Seq#221 (see 9.183).

- 9.179 Seq#217 (NLD-P02-052)**
- 9.180 Seq#218 (USA-P02-086)**
- 9.181 Seq#219 (USA-P02-087)** (PER-173R1)
Resolved. See 9.178.
- 9.182 Seq#220 (USA-P02-088)** (PER-173R1)
Resolved. See 9.178.
- 9.183 Seq#221 (USA-P02-089)** (PER-173R1)
Resolved. See 9.178.
- 9.184 Seq#222 (JPN-P02-002)** (PER-194)
Kotera-san introduced PER-194, which gave arguments why Seq#222 should be closed with no action.
PER-194 was accepted as resolving Seq#222.
- 9.185 Seq#223 (GBR-P02-360)** (PER-163R1)
Hugh Darwen introduced PER-163R1.
Proposal section 2.1, item 1, was amended by adding <return statement>, <execute statement> and <execute immediate statement> to the list of non-atomic SQL statements.
Proposal section 3.3, item 1, was amended by adding <assignment statement>, to the list of non-atomic SQL statements.
The preceding amendments were also applied to the corresponding places in section 4, changes to the TC.
Acceptance of PER-163R1 resolved comment Seq#223 and also Seq#443 (see 11.9)
- 9.186 Seq#224 (GBR-P02-340)** See Comment
Solution from comment accepted. Resolved.
- 9.187 Seq#225 (GBR-P02-350)** (PER-062)
(PER-062R2)
Hugh Darwen introduced PER-062.
In section 2.1, in the changed paragraph beginning “An SQL agent may ...”, delete the words “enough for”.
During discussion, a problem was found with the changes proposed to sub-clause 16.3 of SQL/PSM.
Discussion was suspended to permit creation of a revised proposal.
Hugh Darwen introduced PER-062R2, which addresses the issues identified in earlier discussion and related additional issues identified by the author during revision of PER-062. The Editor announced that he had identified some minor changes that he would make editorially.
PER-062R1, with editorial changes, was accepted as resolving Seq#225.
Acceptance of PER-062R1 also resolves the following comments: Seq#226 (see 9.188), Seq#444 in part (see 11.10), Seq#451 (see 11.16) and Seq#454 (see 11.19).
- 9.188 Seq#226 (GBR-P02-370)** (PER-062R2)
Resolved. See 9.187.
- 9.189 Seq#227 (USA-P02-090)** (PER-176)
Resolved by acceptance of PER-176, see 9.114.
- 9.190 Seq#228 (USA-P02-091)** (PER-176)
Resolved by acceptance of PER-176, see 9.114.
- 9.191 Seq#230 (USA-P02-093)** See Comment
The solution proposed with the comment was accepted. Resolved.

- 9.192 Seq#231 (USA-P02-094)**
- 9.193 Seq#233 (NLD-P02-054)**
- 9.194 Seq#235 (GBR-P02-380)** (PER-056)
Resolved by PER-056, see 9.245.
- 9.195 Seq#237 (USA-P02-096)** (PER177)
Resolved by acceptance of PER-177, see 9.131.
- 9.196 Seq#238 (NLD-P02-055)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.197 Seq#239 (USA-P02-097)** (PER-177)
Resolved by acceptance of PER-177, see 9.131.
- 9.198 Seq#240 (GBR-P02-390)** Withdrawn
The UK confirmed that this comment was withdrawn.
- 9.199 Seq#241 (GBR-P02-400)**
Seq#445 (GBR-P04-070) (PER-092)
(PER-149)
Hugh Darwen presented PER-092, and introduced a minor amendment: in section 3.1, point 1, delete the braces. Also, the new feature should be of class Txxx rather than Fxxx. Germany regards this an enhancement of functionality, and objects on that principle. For CAN, USA AUS UK, JPN, SWE, NETH, Against DEU, Abstain, 0.
Resolved. Also resolves Japanese comment Seq#166
However, subsequent to acceptance of PER-092, Japan submitted PER-149, which identifies omissions in the coverage of PER-092.
Shiratori-san introduced PER-149. Hugh Darwen endorsed PER-149.
With the correction of a typographical error, “terget” to “target”, PER-149 was accepted as completing the resolution of Seq#166, Seq#241 and Seq#445.
- 9.200 Seq#242 (USA-P02-098)** (PER-175)
Hugh Darwen introduced PER-175.
The proposal was changed by the addition of the words “or an underlying column of the column identified by *OC*” to the end of the proposed revised text.
PER-175 as amended was accepted as resolving Seq#242.
- 9.201 Seq#243 (GBR-P02-410)** See Comment
Change proposed in comment accepted. Resolved.
- 9.202 Seq#244 (NLD-P02-056)**
- 9.203 Seq#245 (NLD-P02-057)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.204 Seq#246 (NLD-P02-058)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.205 Seq#247 (NLD-P02-059)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

9.206 Seq#248 (NLD-P02-060) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.207 Seq#249 (NLD-P02-061) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.208 Seq#250 (NLD-P02-062) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.209 Seq#251 (NLD-P02-063) (PER-171)

Resolved. See 8.32.

9.210 Seq#252 (USA-P02-099) See Comment

The change proposed with the comment was accepted.

9.211 Seq#253 (USA-P02-100)

Krishna Kulkarni reported that the solution of comment Seq#254 could be applied to the rule referenced in this comment.

Seq#253 was resolved by application of the solution provided with Seq#254 to the rule referenced in the comment.

9.212 Seq#254 (GBR-P02-420) See Comment

It was noted that the situation identified in the comment also existed in preceding rule and in 14.5, <merge statement>, GR6a)i)1. The solution proposed with the comment was accepted as resolving the comment.

9.213 Seq#255 (JPN-P02-001)

9.214 Seq#256 (USA-P02-101)

9.215 Seq#257 (USA-P02-102) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.216 Seq#258 (NLD-P02-064) PER-190

Jutta Kreys introduced PER-190.

Several minor editorial changes were identified that the Editor said were within the normal range of Editorial discretion. It was also determined that the proposal introduced a new feature. The Editor undertook to identify the new feature and insert an appropriate Conformance Rule.

PER-190, with the editorial changes and additions, was accepted as resolving Seq#258.

9.217 Seq#259 (GBR-P02-430)
Seq#260 (GBR-P02-440) (PER-061)

Hugh Darwen introduced PER-061. During discussion, an error of labelling in one of the examples was noted.

A number of changes to the proposal were identified, withdrawing the additional syntax for the <savepoint statement>. The details are as follows:

Delete section 2.3 completely. Delete point 1 of section 2.4. In point 2 of section 2.4, delete all except the replacement of “SQL-transaction” by “savepoint level”. Delete point 4 of section 2.4. Delete section 2.9. In section 2.10 point 1, delete the words “and if UNIQUE ... existing one.” Delete section 2.11.

Acceptance of PER-061 as amended resolves comments Seq#259 and Seq#260.

On subsequent review, the group determined that PER-061 did not fully resolve Seq#259. The disposition of Seq#259 was reversed, to remain open.

9.218 Seq#261 (USA-P02-103) (PER-102)

It was agreed that <attribute variable> should be allowed to be a literal. In section 2.2.2, delete the change to SR1. Amend change to SR2 to “The declared types of <SQL statement variable> and <attributes variable> shall each be character string.”

Acceptance of PER-102 as modified resolves Seq#261.

9.219 Seq#262 (USA-P02-104) See Comment

The solution proposed in the comment was accepted as resolving the comment.

9.220 Seq#263 (SWE-P02-003) (PER-029)

It was noted that Conformance Rules 1, 2, 3,4 and 5 in 14.1, <declare cursor> need to be changed to support reference to the syntax defined in 14.1 from 19.14, <allocate cursor statement>.

With editorial changes to 14.1, PER-029 was accepted as resolving Seq#262.

9.221 Seq#265 (NLD-P02-066)

**9.222 Seq#266 (GBR-P02-450) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.223 Seq#267 (USA-P02-105)

**9.224 Seq#268 (NLD-P02-067) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.225 Seq#269 (NLD-P02-068)

9.226 Seq#270 (GBR-P02-460) (PER-162)

Hugh Darwen introduced PER-162.

A new proposal item was added to remove CONDITION from the set of keywords defined in SQL/PSM.

The modified proposal was accepted as resolving Seq#270.

9.227 Seq#271 (SWE-P02-004) (PER-030)

After some discussion, it was agreed that research was needed to determine why the apparent problem existed. Investigation failed to determine any documentation in records of earlier meetings or other correspondence for the change that had introduced the problem.

PER-030 was accepted as resolving Seq#271.

9.228 Seq#272 (USA-P02-106)

Accepted as editorial. Resolved.

- 9.229 Seq#274 (NLD-P02-070)**
- 9.230 Seq#275 (NLD-P02-071)**
- 9.231 Seq#276 (NLD-P02-072)**
- 9.232 Seq#277 (NLD-P02-073)**
- 9.233 Seq#278 (NLD-P02-074)**
- 9.234 Seq#279 (NLD-P02-075)**
- 9.235 Seq#280 (NLD-P02-076)**
- 9.236 Seq#281 (USA-P02-107)**
- 9.237 Seq#282 (GBR-P02-470)** **See Comment**
- The US reported that there was at least one vendor among their membership who had implemented the feature, so they were directed to oppose the solution. A Swedish vendor has also implemented the predicate.
- On a vote, UK, Japan and Sweden were in favour of the proposed change; USA, Australia and The Netherlands against, with Canada and Germany abstaining.
- The proposed solution was rejected. The comment was marked as resolved with no action.
- 9.238 Seq#283 (SWE-P02-005)** **(PER-031)**
- PER-031 was accepted as resolution of Seq#283
- 9.239 Seq#284 (USA-P02-108)**
- 9.240 Seq#285 (USA-P02-109)** **See Comment**
- Resolved by solution proposed in #285
- 9.241 Seq#286 (USA-P02-110)**
- 9.242 Seq#287 (USA-P02-111)** **See Comment**
- Resolved by solution proposed in #287
- 9.243 Seq#288 (GBR-P02-480)** **Editorial**
- Resolved.
- 9.244 Seq#289 (CAN-P02-001)** **(PER-098R1)**
- This comment was addressed but not fully resolved by PER-098R1. See 9.13.
- 9.245 Seq#293 (GBR-P02-490)** **(PER-056)**
- Germany requested that a vote on the disposition of PER-056 should be recorded. The result of the vote was: For: USA, Canada Australia, UK, Japan, The Netherlands. Against: Germany
- PER-056 was adopted as resolution of #293.
- Acceptance of PER-056 also resolves Seq#235 (see 9.194) and Seq#388 (see 9.323).
- 9.246 Seq#294 (NLD-P02-164)**
- 9.247 Seq#295 (NLD-P02-170)** **(PER-195R1)**
(PER-197)
- Closed with no action. See 18.3.
- 9.248 Seq#296 (NLD-P02-180)**
- 9.249 Seq#298 (NLD-P02-193)** **Withdrawn**
- The Netherlands withdrew the comment, which is thereby closed.

9.250 Seq#299 (SWE-P02-006) (PER-032)

There was some discussion of the way that white space characters should be identified and the degree to which reference to the Unicode classes would be sufficient.

There was discussion of the changes proposed to the identification of characters allowed in identifiers.

It was agreed that the proposal be adopted as written, with the editor to add such informative notes as he considered useful. Accepted that PER-032 resolves the comment.

9.251 Seq#301 (USA-P02-113)

9.252 Seq#302 (USA-P02-114)

9.253 Seq#303 (USA-P02-115)

**9.254 Seq#304 (USA-P02-116) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.255 Seq#305 (USA-P02-117)

**9.256 Seq#307 (NLD-P02-077) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.257 Seq#308 (NLD-P02-078) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.258 Seq#309 (NLD-P02-079) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.259 Seq#310 (NLD-P02-080) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.260 Seq#311 (NLD-P02-081) (PER-034)

Resolved by acceptance of PER-034. See 9.45

**9.261 Seq#312 (NLD-P02-082) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.262 Seq#313 (NLD-P02-083) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.263 Seq#314 (NLD-P02-084) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**9.264 Seq#316 (NLD-P02-086) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

9.265 Seq#317 (NLD-P02-087) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**9.266 Seq#318 (NLD-P02-088) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

- 9.267 Seq#319 (NLD-P02-089)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.268 Seq#320 (NLD-P02-090)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.269 Seq#321 (NLD-P02-091)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.270 Seq#322 (NLD-P02-092)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.271 Seq#323 (NLD-P02-093)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.272 Seq#324 (NLD-P02-094)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12).
- 9.273 Seq#326 (NLD-P02-096)** (PER-146)
Closed by PER-146 as a duplicate of Seq#054 (Language Opportunity LO725). See 8.12
- 9.274 Seq#327 (NLD-P02-097)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.275 Seq#328 (NLD-P02-098)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.276 Seq#330 (NLD-P02-100)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.277 Seq#331 (NLD-P02-101)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.278 Seq#332 (NLD-P02-102)** (PER-146)
(PER-152)
(PER-195R1)
(PER-197)
Closed by PER-146 as a duplicate of Seq#104 (Language Opportunity LO706), but subsequently re-opened following the disposition of PER-152. See 8.12 and 9.71.
Later still, the comment was close with no action by acceptance of PER-195R1 as modified by PER-197)
- 9.279 Seq#334 (NLD-P02-104)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.280 Seq#335 (NLD-P02-105)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12)
- 9.281 Seq#336 (NLD-P02-106)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

- 9.282 Seq#337 (NLD-P02-107)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.283 Seq#338 (NLD-P02-108)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.284 Seq#343 (NLD-P02-113)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.285 Seq#344 (NLD-P02-114)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.286 Seq#347 (NLD-P02-117)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12)
- 9.287 Seq#348 (NLD-P02-118)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.288 Seq#349 (NLD-P02-119)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.289 Seq#350 (NLD-P02-120)** (PER-098R1)
Resolved by acceptance of PER-098R1, see 9.13.
- 9.290 Seq#353 (NLD-P02-123)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.291 Seq#354 (NLD-P02-124)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12)
- 9.292 Seq#355 (NLD-P02-125)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.293 Seq#356 (NLD-P02-126)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.294 Seq#357 (NLD-P02-127)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.295 Seq#358 (NLD-P02-128)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.296 Seq#359 (NLD-P02-129)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.297 Seq#360 (NLD-P02-130)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

- 9.298 Seq#361 (NLD-P02-131)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.299 Seq#362 (NLD-P02-132)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.300 Seq#363 (NLD-P02-133)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.301 Seq#364 (NLD-P02-134)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.302 Seq#365 (NLD-P02-135)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.303 Seq#366 (NLD-P02-136)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12)
- 9.304 Seq#369 (NLD-P02-139)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.305 Seq#370 (NLD-P02-140)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.306 Seq#371 (NLD-P02-141)** (PER-098R1)
Resolved by acceptance of PER-098R1, see 9.13.
- 9.307 Seq#372 (NLD-P02-142)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.308 Seq#373 (NLD-P02-143)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.309 Seq#374 (NLD-P02-144)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.310 Seq#375 (NLD-P02-145)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.311 Seq#376 (NLD-P02-146)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.312 Seq#377 (NLD-P02-147)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.313 Seq#378 (NLD-P02-148)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

- 9.314 Seq#379 (NLD-P02-149)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.315 Seq#380 (NLD-P02-150)** (PER-146)
Resolved with no action by acceptance of PER-146 (see 8.12)
- 9.316 Seq#381 (NLD-P02-151)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.317 Seq#382 (NLD-P02-152)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.318 Seq#383 (NLD-P02-153)** (PER-146)
Closed by PER-146 as a duplicate of Seq#396 (Language Opportunity LO710). See 8.12.
- 9.319 Seq#384 (NLD-P02-154)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.320 Seq#385 (NLD-P02-155)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.321 Seq#386 (NLD-P02-156)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.322 Seq#387 (NLD-P02-157)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.323 Seq#388 (NLD-P02-158)** (PER-056)
The comment was resolved by acceptance of PER-056. See 9.245.
- 9.324 Seq#389 (NLD-P02-159)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.325 Seq#390 (NLD-P02-160)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.326 Seq#391 (NLD-P02-161)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.327 Seq#392 (NLD-P02-162)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.328 Seq#393 (NLD-P02-163)**
- 9.329 Seq#394 (NLD-P02-165)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.330 Seq#395 (NLD-P02-166)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

- 9.331 Seq#396 (NLD-P02-167)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.332 Seq#397 (NLD-P02-168)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.333 Seq#398 (NLD-P02-169)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.334 Seq#399 (NLD-P02-171)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.335 Seq#401 (NLD-P02-173)**
- 9.336 Seq#402 (NLD-P02-174)**
- 9.337 Seq#403 (NLD-P02-175)**
- 9.338 Seq#404 (NLD-P02-176)** (PER-171)
Resolved. See 8.32.
- 9.339 Seq#405 (NLD-P02-177)**
Fred Zemke initiated a discussion of the comment. He asserted that the comment could be closed with no action as the problem it identified no longer existed.
The comment was resolved without action and PP748 was closed.
- 9.340 Seq#406 (NLD-P02-178)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.341 Seq#407 (NLD-P02-179)** (PER-094)
Jim Melton introduced the paper.
PER-094 was adopted without change as resolution of Seq#407.
- 9.342 Seq#408 (NLD-P02-181)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.
- 9.343 Seq#411 (NLD-P02-185)** (PER-195R1)
(PER-197)
Closed with no action. See 18.3.

- 9.344 Seq#412 (NLD-P02-186)**
9.345 Seq#413 (NLD-P02-187)
9.346 Seq#414 (NLD-P02-188)
9.347 Seq#415 (NLD-P02-189)
9.348 Seq#416 (NLD-P02-190)
9.349 Seq#417 (NLD-P02-191)
9.350 Seq#418 (NLD-P02-192)
9.351 Seq#419 (NLD-P02-194)
9.352 Seq#420 (SWE-P02-007) (PER-033)
PER-033 approved without change as resolution of Seq#420.
9.353 Seq#421 (GBR-P02-335) (PER-170)
(PER-176)

Hugh Darwen introduced PER-170.

During discussion, it was recognised that the problem was deeper than indicated by the ballot comment. It was suggested that a possible resolution could be achieved by expressing the rule in English rather than using SQL.

Seq#421 was left open.

Acceptance of PER-176 (see 9.114) resolved Seq#421.

- 9.354 TC for <regular expression> (PER-097)**

The USA proposed the deletion of items 1 and 2 from section 3.1 of the proposal and of the corresponding items from the TC. The author accepted the change. PER-097 as amended was accepted as a correction to a possible problem identified during the Editing Meeting (assigned to #300).

- 9.355 Correcting the specification of data type identity (PER-101)**

PER-101 was approved without change. It also provides a partial resolution of Seq#300.

- 9.356 Seq#024a (WG3-P02-001) (PER-146)**

Resolved with no action by acceptance of PER-146 (see 8.12)

- 9.357 Seq#024b (WG3-P02-002) (PER-146)**

Resolved by accepting the solution provided with the comment as proposed in PER-146. See 8.12

- 9.358 Seq#024c (WG3-P02-003)**

- 9.359 Seq#025a (WG3-P02-004) (PER-146)**

Resolved by accepting the solution provided with the comment, as proposed in PER-146. See 8.12

- 9.360 Seq#026a (WG3-P02-005) (PER-146)**

Resolved with no action by acceptance of PER-146 (see 8.12)

- 9.361 Seq#029a (WG3-P02-006) (PER-146)**

Resolved with no action by acceptance of PER-146 (see 8.12)

- 9.362 Seq#029b (WG3-P02-007) (PER-146)**

Resolved with no action by acceptance of PER-146 (see 8.12)

- 9.363 Seq#029c (WG3-P02-008) (PER-146)**

Resolved by conversion to a Language Opportunity on acceptance of PER-146 (see 8.12).

9.364 Seq#029d (WG3-P02-009) (PER-146)

PER-146 identified that this comment had been resolved by the acceptance of PER-032 (see 9.250).

9.365 Seq#065a (WG3-P02-010) (PER-146)

Resolved by conversion to a Language Opportunity on acceptance of PER-146 (see 8.12).

9.366 Seq#065b (WG3-P02-011) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**9.367 Seq#068a (WG3-P02-012) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.368 Seq#068b (WG3-P02-013) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.369 Seq#070a (WG3-P02-014) (PER-146)
(PER-160)
(PER-174)**

Resolved with no action by acceptance of PER-146 (see 8.12). See also 9.43.

**9.370 Seq#076a (WG3-P02-015) (PER-146)
(PER-160)**

Resolved by conversion to a Language Opportunity on acceptance of PER-146 (see 8.12).

**9.371 Seq#095a (WG3-P02-016) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**9.372 Seq#420a (WG3-P02-017) (PER-054R1)
(PER-146)**

PER-146 notes that this comment has been resolved by PER-054R1, although not referenced explicitly by that proposal.

9.373 Seq#420b (WG3-P02-018) (PER-054R1)

Jim Melton introduced a discussion of this comment. He believed that all points of the comment that are likely to be resolved were resolved by PER-054R1.

Item 3 of the comment was converted to a Language Opportunity for support of locales.

Seq#420b was marked as resolved.

9.374 Seq#420c (WG3-P02-019) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.375 Seq#420d (WG3-P02-020) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

**9.376 Seq#420e (WG3-P02-021) (PER-146)
(PER-199)**

Resolved by conversion to a Language Opportunity on acceptance of PER-146 (see 8.12).

Jim Melton introduced PER-199 as a discussion paper. It suggests introduction of an SQL escape mechanism for entry into SQL source of characters that are not available on a user's keyboard.

Jim stated that the paper was a draft that had not yet been reviewed by USA national body, and was issued only for review and comment. He took note of comments and suggestions that were made during initial discussion of the paper.

9.377 Seq#420f (WG3-P02-022) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

9.378 Seq#420g (WG3-P02-023) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.379 Seq#420h (WG3-P02-024) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.380 Seq#420i (WG3-P02-025) (PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

9.381 Seq#159a (WG4-P02-001) (PER-124)

A Language Opportunity was created on the basis of the comment.

The comment was closed with no further action.

Jutta Kreyss later requested that the comment should be reopened, since WG4 regards the problem to be a bug. It was agreed that the comment should be retained as open.

9.382 Possible Problem with Updatable Cursors (PER-185)

Hugh Darwen introduced PER-185, which identifies a new Possible Problem.

The Editor undertook to add the PP to the Editor's Notes.

9.383 SQL:2002 Possible Problems change proposal (PER-186)

Hugh Darwen introduced PER-186, which identifies a new Language Opportunity

The Editor undertook to add the LO to the Editor's Notes.

9.384 A MULTISSET UNION Language Opportunity (PER-188)

Hugh Darwen introduced PER-188, which identifies a new Language Opportunity

The Editor undertook to add the LO to the Editor's Notes.

10 SQL/CLI Topics

10.1 Seq#422 (NLD-P03-001)

Resolved with no action.

10.2 Seq#423 (NLD-P03-002)

Resolved with no action.

10.3 Seq#424 (GBR-P03-010)

Editorial

Resolved.

10.4 Seq#425 (NLD-P03-003)

Resolved with no action.

10.5 Seq#429 (NLD-P03-006)

(PER-166)

Stephen Cannan introduced PER-166.

PER-166 was accepted as resolution of Seq#429.

Acceptance of PER-166 deletes Possible Problem PP-CLI-050.

10.6 Seq#431 (NLD-P03-004)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

10.7 Seq#432 (NLD-P03-005) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

10.8 Updating SQL_LANGUAGES table and the Object Identifier (PER-164)

Stephen Cannan introduced PER-164 as resolving problems identified during the meeting.

Some minor editorial corrections were noted by the Editor.

PER-164 was accepted as addressing the catch-all comments for several parts: Seq#428 (Part 3, 15.11), Seq#461 (Part 4, 15.15), Seq#517 (Part 9 15.19), Seq#563 (Part 10, 15.23) and Seq#610, Part 11, 15.28).

11 SQL/PSM Topics

11.1 Seq#433 (USA-P04-001) (PER-141)

Mark Ashworth introduced PER-141.

PER-141 was accepted as resolving Seq#433.

11.2 Seq#434 (USA-P04-002) (PER-165)

Stephen Cannan introduced PER-165.

PER-165 was accepted as resolution of Seq-434.

11.3 Seq#435 (GBR-P04-010) See Comment

The solution proposed with the comment was accepted as resolving the comment.

11.4 Seq#436 (USA-P04-003) See Comment

This was identified as the same issue as that raised in Seq#435. The resolution from Agenda item 11.3 was accepted.

11.5 Seq#437 (USA-P04-004)

11.6 Seq#440 (GBR-P04-020) See Comment
(PER-057R1)

It was noted that there was some conflict between the proposed solution to this comment and the changes to be introduced by PER-057r1. Hugh Darwen agreed to extend PER-057R1 to take account of PSM.

To take into account changes introduced by resolution of other comments, the solution proposed with the comment was replaced by a solution contained in PER-057R1 (see 9.58).

11.7 Seq#441 (GBR-P04-030) See Comment
(PER-57R1)

On initial review, it was determined that this comment should be included in the material to be considered in the revision of PER-057.

To take into account changes introduced by resolution of other comments, the solution proposed with the comment was replaced by a solution contained in PER-057R1 (see 9.58).

11.8 Seq#442 (USA-P04-005)

11.9 Seq#443 (GBR-P04-050) (PER-163R1)

Seq#443 was resolved by acceptance of PER-163R1 (see 9.185).

11.10 Seq#444 (GBR-P04-060) (PER-062R2)

Resolved in part, with the remainder converted to a Possible Problem. See 9.187.

11.11 Seq#446 (JPN-P04-001) (PER-155R2)

Tsuchida-san introduced PER-155R2

The spelling of “specification” was corrected from “sepcification” in proposal item 2.1.1, Format and in sub-rule c of the new Syntax Rule.

A capital I was italicised in the change to GR 9)b)ii case 1) B) V) 2), on page 5 of the proposal.

PER-155R2 as amended was accepted as resolution of Seq#446 and also Seq#447 (see 11.12) and Seq#079 (see 9.56).

11.12 Seq#447 (NLD-P04-001) (PER-155R2)

Resolved. See 11.11.

11.13 Seq#448 (GBR-P04-080) (PER-065)

Hugh Darwen introduced PER-065. He noted that, as written, the paper introduced an ambiguity into the syntax. Therefore the following amendments were introduced to section 3. In 3.1, item 1, delete the square brackets from the second line of the production. Delete item 2. In item 4, delete the word “case” and the whole of case b, then in what was case a delete up to “then”. Fred Zemke proposed that in item 3, SR5, “every” should be changed to “any”.

Paper PER-065, as amended, was adopted as the resolution of #448.

11.14 Seq#449 (USA-P04-006) See Comment

Resolved.

11.15 Seq#450 (SWE-P04-001) (PER-129)

Åke Persson introduced PER-129.

During discussion, it was suggested that there might be a corresponding change required to CLI. On investigation, it appeared that no such change was required.

PER-129 was accepted as resolving Seq#450.

11.16 Seq#451 (GBR-P04-090) (PER-062R2)

Resolved. See 9.187.

11.17 Seq#452 (GBR-P04-100) Editorial

Resolved

11.18 Seq#453 (GBR-P04-110) (PER-063)
Seq#456 (GBR-P04-140)

Per-063 was accepted as resolving Seq#453 and Seq#456.

11.19 Seq#454 (GBR-P04-120) (PER-062R2)

Resolved. See 9.187.

11.20 Seq#455 (GBR-P04-130) See Comment

During discussion, it was noted that the solution included with the comment did not cover the corresponding change needed to the Ada package. However, further discussion resulted in a decision that no change was needed. Comment resolved without change to the standard.

11.21 Seq#457 (GBR-P04-150) See Comment

The change proposed with the comment was accepted as resolving the comment.

11.22 Seq#458 (GBR-P04-160) (PER-172)

Hugh Darwen introduced PER-172.

Section 2.3 of the proposal was deleted on the grounds that it was redundant.

PER-172, as amended, was accepted as resolving Seq#458.

11.23 Seq#463 (NLD-P04-002) (PER-171)

Resolved by acceptance of PER-171. See 8.32.

11.24 Seq#464 (NLD-P04-003)

The referenced LO, PSM-061 was moved to Foundation.
Resolved with no other action.

11.25 Seq#465 (NLD-P04-004)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.26 Seq#466 (NLD-P04-007)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.27 Seq#468 (NLD-P04-010)

Resolved with no action. Possible Problem PP PSM-094 deleted.

11.28 Seq#469 (NLD-P04-011)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.29 Seq#471 (NLD-P04-013)

Resolved with no action. Possible Problem PP PSM-101 deleted.

11.30 Seq#472 (NLD-P04-014)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.31 Seq#473 (NLD-P04-015)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.32 Seq#474 (NLD-P04-016)

(PER-171)

Resolved by acceptance of PER-171. See 8.32.

11.33 Seq#475 (NLD-P04-018)

(PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

11.34 Seq#476 (NLD-P04-019)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.35 Seq#477 (NLD-P04-020)

(PER-171)

Resolved by acceptance of PER-171. See 8.32.

11.36 Seq#478 (NLD-P04-021)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.37 Seq#479 (NLD-P04-023)

(PER-171)

Resolved by acceptance of PER-171. See 8.32.

11.38 Seq#480 (NLD-P04-024)

Resolved with no action. Possible Problem PP PSM-135 deleted.

11.39 Seq#481 (NLD-P04-025)

(PER-146)

Resolved with no action by acceptance of PER-146 (see 8.12)

11.40 Seq#482 (NLD-P04-026)

(PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.41 Seq#483 (NLD-P04-027) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

11.42 Seq#486 (NLD-P04-006)

11.43 Seq#487 (NLD-P04-008) (PER-017)

PER-017 was adopted as resolution of #487.

Adoption of PER-017 closes Language Opportunity LO PSM-089.

11.44 Seq#488 (NLD-P04-017) (PER-177)

Resolved by acceptance of PER-171. See 8.32.

11.45 Seq#489 (NLD-P04-022) (PER-171)

Resolved by acceptance of PER-171. See 8.32.

12 SQL/MED Topics

12.1 Seq#490 (GBR-P09-010) Editorial

Resolved

12.2 Seq#491 (GBR-P09-020) (PER-136)

Jim Murray introduced PER-136.

PER-136 was accepted as resolving Seq#491.

12.3 Seq#492 (GBR-P09-030) (PER-146)

Resolved as Editorial. See 8.12.

12.4 Seq#493 (GBR-P09-040)

Closed with no action.

12.5 Seq#494 (GBR-P09-050) Editorial

Resolved

12.6 Seq#495 (CAN-P09-001) (PER-154)

PER-154 was accepted as resolving comment Seq#495.

12.7 Seq#496 (GBR-P09-060) Editorial

Resolved.

12.8 Seq#497 (CAN-P09-002) (PER-161)

Hugh Darwen introduced PER-161.

After discussion, proposal part 2.2 was withdrawn. Proposal part 2.1 was replaced with:

- In Subclause 6.4, “<string value function>”, replace the intro to GR3) with “If <url path expression> is specified, then the result is”, and delete “the result is” in all subrules of GR3).
- In Subclause 6.4, “<string value function>”, GRs 3), 4), 5), and 6), insert a new subrule b’): “If the File Reference of *DV* conforms to an implementation-defined format, then an implementation-defined value.”

Acceptance of PER-161 as amended closes Seq#497 and also closes Seq#499 (see 12.10) with no action.

12.9 Seq#498 (GBR-P09-070)

Hugh Darwen proposed that Seq#498 should be resolved with no action.

Seq#498 was closed with no action.

12.10 Seq#499 (CAN-P09-003) (PER-161)

Closed with no action. See 12.8.

12.11 Seq#500 (GBR-P09-080) Editorial

Resolved

12.12 Seq#501 (CAN-P09-004) (PER-153)

Jim Murray introduced PER-153.

PER-153 was accepted as resolving Seq#501.

12.13 Seq#502 (USA-P09-003) (PER-111)

PER-111 was amended as follows. In proposal part 3.1, item 3, convert the second sentence to an Informative NOTE. In proposal part 3.2, item 1, SR5)a), replace the proposed new second sentence with “Each output argument to a <foreign-data wrapper interface routine> that is not of type CHARACTER(n) that identifies a non-pointer host variable shall be passed by reference; each output argument to a <foreign-data wrapper interface routine> that is not of type CHARACTER(n) that identifies a pointer host variable shall be passed by value.”

On a vote to accept PER-111 as amended: For USA, Australia, Sweden, The Netherlands, UK, Germany, Japan. Against: none. Abstain: Canada.

**12.14 Seq#503 (USA-P09-001)
Seq#504 (USA-P09-002) (PER-110)**

PER-110 was accepted as resolution of Seq#503 and Seq#504.

**12.15 Seq#505 (USA-P09-005)
Seq#506 (USA-P09-006)
Seq#507 (USA-P09-007)
Seq#508 (USA-P09-008)
Seq#510 (USA-P09-010)
Seq#511 (USA-P09-004) (PER-109)**

PER-109 was accepted as resolving the identified comments.

It was agreed that corresponding changes would be made to the TC.

12.16 Seq#509 (USA-P09-009) (PER-047)

PER-047 was accepted as resolving Seq#509.

12.17 Seq#512 (GBR-P09-090) Editorial

Resolved

12.18 Seq#513 (GBR-P09-110)

It was noted that some readers have found the text referenced by the comment to be misleading. It was agreed that a Language Opportunity should be created based on the text of the comment. The Editor said that he was willing to supply anyone intending to address the LO with machine-readable source of the existing text.

Comment closed with no further action.

12.19 Seq#514 (GBR-P09-100)

It was agreed that the text of the comment should be used in construction of the LO to be developed as resolution of Seq#513 (see 12.18)

Comment closed with no further action.

- 12.20 Seq#518 (USA-P09-011)
- 12.21 Seq#519 (USA-P09-012)
- 12.22 Seq#520 (USA-P09-013)
- 12.23 Seq#521 (USA-P09-014)
- 12.24 Seq#522 (USA-P09-015)
- 12.25 Seq#523 (USA-P09-016)
- 12.26 Seq#524 (USA-P09-017)
- 12.27 Seq#525 (USA-P09-018)
- 12.28 Seq#527 (NLD-P09-001) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.29 Seq#528 (NLD-P09-002) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.30 Seq#529 (NLD-P09-003) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.31 Seq#530 (NLD-P09-004) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.32 Seq#531 (NLD-P09-005) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.33 Seq#532 (NLD-P09-006) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.34 Seq#533 (NLD-P09-007) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.35 Seq#534 (NLD-P09-008) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.36 Seq#535 (NLD-P09-009) (PER-195R1)
(PER-197)
- Closed with no action. See 18.3.
- 12.37 Seq#536 (NLD-P09-010) (PER-113R2)

Phil Brown introduced PER-113R2. He stated that the paper was still incomplete in some areas and was being presented for review and comment, rather than as a proposal on which action was anticipated at this meeting.

During general discussion, several speakers observed that the functionality that would be introduced by the proposed new syntax would be largely implementation-defined. It was also suggested that the wrapper interface was sufficiently flexible to accommodate most of the functionality that was being proposed, although some minor extensions might make the bindings simpler. There was a suggestion that the omission of a wrapper name should imply an implementation-defined interface.

Canada and Japan both expressed some support for the direction taken by the paper, but recognise that there are problems that must be overcome.

There was a general suggestion from several speakers that a protocol could be hidden behind the wrapper interface, and that its use could be optimised by the implementation behind the scenes.

In response to a suggestion that the Language Opportunity on which the comment and the paper were based should be deleted, it was agreed that the LO should be retained, but its originators should be invited to withdraw it and possibly replace it by another, more specific, LO.

The consensus at the end of the discussion was that the meeting preferred the thin wrapper approach to that contained in the paper, and commended it to WG5.

Seq#536 was marked as closed with no action.

12.38 Seq#537 (NLD-P09-011) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.39 Seq#538 (NLD-P09-012) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.40 Seq#539 (NLD-P09-013) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.41 Seq#540 (NLD-P09-014) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.42 Seq#541 (NLD-P09-015) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.43 Seq#542 (NLD-P09-016) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.44 Seq#543 (NLD-P09-017) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.45 Seq#544 (NLD-P09-018) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.46 Seq#545 (NLD-P09-019) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

12.47 Handle vs. descriptor (PER-048)

Assigned to catch-all comment Seq#526. Accepted.

12.48 Remove DATA HANDLE (PER-049)

Assigned to catch-all comment Seq#526. Accepted

12.49 Fix editorial bugs (PER-050)

Assigned to catch-all comment Seq#526. Accepted

12.50 Seq#526a (WG4-P02-002) (PER-123)

A Language Opportunity was created on the basis of the comment.

The comment was closed with no further action.

13 SQL/OLB Topics

13.1 Seq#546 (USA-P10-001) (PER-179R1)

Chuck Canpbell introduced PER-179R1.

On the basis of PER-179R1, Seq#546 was resolved with no action.

**13.2 Seq#547 (NLD-P10-001) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.3 Seq#548 (NLD-P10-002) (PER-180R1)
(PER-180R2)**

Chuck Campbell introduced PER-180R1.

PER-180R1 was accepted as the resolution of Seq#548.

Subsequently, PER-180R2 was presented.

**13.4 Seq#549 (NLD-P10-003) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.5 Seq#550 (NLD-P10-004) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.6 Seq#551 (NLD-P10-005) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.7 Seq#552 (NLD-P10-006) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.8 Seq#553 (NLD-P10-007) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.9 Seq#554 (NLD-P10-008) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.10 Seq#555 (NLD-P10-009) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

**13.11 Seq#556 (NLD-P10-010) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.12 Seq#557 (USA-P10-002) (PER-184)

Chuck Campbell introduced PER-184.

PER-184 was accepted as resolving Seq#557.

13.13 Seq#558 (USA-P10-003) (PER-191)

Chuck Campbell introduced PER-191.

Chuck noted that the paper did not include some necessary TC changes. He undertook to produce a revised paper that included the TC change.

PER-191 was accepted as resolving Seq#558.

13.14 Seq#559 (NLD-P10-011)

13.15 Seq#560 (NLD-P10-012)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.16 Seq#564 (CAN-P10-004)

(PER-167)

Stephen Cannan introduced PER-167.

PER-167 was accepted as resolution of Seq#564.

13.17 Seq#566 (NLD-P10-019)

13.18 Seq#567 (NLD-P10-020)

(PER-200)

PER-200 was noted as touching on Seq#567, but the comment was left open.

13.19 Seq#569 (USA-P10-005)

13.20 Seq#570 (NLD-P10-013)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.21 Seq#571 (NLD-P10-014)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.22 Seq#572 (NLD-P10-015)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.23 Seq#573 (NLD-P10-016)

(PER-146)

Seq#573 was resolved with no action by acceptance of PER-146 (see 8.12)

13.24 Seq#574 (NLD-P10-017)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.25 Seq#575 (NLD-P10-018)

**(PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

13.26 Removing redundant text from the OLB Conformance Clause

(PER-168)

The USA requested a recorded abstention on disposition of PER-168. No other National Bodies objected to acceptance of PER-168.

Acceptance of PER-168 partially resolves catch-all comment Seq#563.

14 SQL/Schemata Topics

14.1 Seq#576 (CAN-P11-004)

Seq#577 (CAN-P11-005)

Seq#578 (CAN-P11-006)

Seq#579 (GBR-P11-001)

Seq#601 (CAN-P11-007)

(PER-118)

Stephen Cannan introduced PER-118. PER-118 was accepted as resolving comments Seq#576, Seq#577, Seq#578, Seq#579 and Seq#601.

14.2 Seq#580 (NLD-P11-001) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

14.3 Seq#581 (NLD-P11-002) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

14.4 Seq#582 (USA-P11-001) (PER-193)

Baba Piprani introduced PER-193.

PER-193 was accepted as resolving Seq#582. (Japan absent)

14.5 Seq#583 (USA-P11-002)

14.6 Seq#584 (NLD-P11-003) (PER-140)

Stephen Cannan introduced PER-140.

PER-140 offers two alternates, indicated by colour in the text of the proposed changes. The consensus of the meeting was that the text presented in **bold purple** was preferable to that presented in **bold blue**.

Baba Piprani identified that a correlation name was missing from the text of the revised constraint presented in the proposal.

The bold purple version of PER-140, as amended by the insertion of the missing correlation name, was approved as resolving Seq#584.

It was noted that this was not the only paper that updated the initial text of Annex D, but that all the changes had the same effect.

14.7 Seq#585 (GBR-P11-010) Editorial

Resolved

14.8 Seq#586 (GBR-P11-020) Editorial

Resolved

14.9 Seq#587 (GBR-P11-030) Editorial

Resolved

14.10 Seq#588 (USA-P11-003)

14.11 Seq#589 (GBR-P11-040) Editorial

Resolved

14.12 Seq#590 (NLD-P11-004)

14.13 Seq#591 (GBR-P11-070) (PER-144)

PER-144 was accepted as resolution of Seq#591.

14.14 Seq#592 (NLD-P11-005) (PER-195R1)
(PER-197)

Closed with no action. See 18.3.

14.15 Seq#593 (GBR-P11-080)

Resolved by acceptance of modified PER-147.

14.16 Seq#594 (GBR-P11-090) (PER-147)

Hugh Darwen introduced PER-147. Proposal items 1 and 3 were modified by moving “character encoding form” to before “ordering”.

The modified proposal was accepted as resolving Seq#594.

14.17 Seq#595 (GBR-P11-050) (PER-137)

Hugh Darwen introduced PER-137.

PER-137 was modified by the addition of “>” to <the first instance of “<default option” in the replacement text.

There was some discussion on the way that literal values should be represented in the English text of the standard. It was agreed that in this case, double quote characters should be used, and the proposal was modified accordingly.

PER-137, as modified, was accepted as resolving Seq#595.

14.18 Seq#596 (USA-P11-004) (PER-100R2)

Fred Zemke introduced PER-100R2.

In proposal section 3.3, changes to subclause 4.5, the proposed Note was converted to normative text. The Editor’s attention was drawn to the use of “shall” in two places in the text to reflect requirements that were expressed in Syntax Rules elsewhere in the document.

On a vote, USA, The Netherlands, Canada, Japan and Australia were in favour of PER-100R2, Germany voted against and UK abstained. Before leaving the meeting, the Swedish representative had expressed support for the proposal.

PER-100R2 was accepted as resolving Seq#595.

14.19 Seq#597 (GBR-P11-060) See Comment

The non-optional part of the solution proposed with the comment was accepted as resolving the comment. (The Editor will not apply the optional part)

14.20 Seq#598 (NLD-P11-006)

The comment is the same as comment #597. The solution from Seq#597 was adopted as resolution of Seq#598 (see 14.19).

14.21 Seq#599 (USA-P11-005)

14.22 Seq#600 (USA-P11-006)

14.23 Seq#602 (CAN-P11-008)

Seq#603 (GBR-P11-100)

Seq#604 (CAN-P11-009)

Seq#605 (CAN-P11-010)

Seq#606 (DEU-P11-001)

Seq#607 (CAN-P11-011)

(PER-119)

Stephen Cannan introduced PER-119. The proposal was amended to replace population of tables 3 and 5 by references to the equivalent tables in Part 2.

PER-119 as amended was accepted as resolving the above comments.

**14.24 Seq#612 (NLD-P11-007) (PER-195R1)
(PER-197)**

Closed with no action. See 18.3.

14.25 Small fixes for the Information schema (PER-051)

PER-051 was accepted as presented. It partially resolves Seq#611.

14.26 Solving the PP’s added by PER-118 (PER-148)

PER-148 was not received before the close of the meeting, so this item was not addressed.

15 Resolution of Catch-All Ballot Comments

- 15.1 Seq#017 (CAN-P01-001)
- 15.2 Seq#018 (CAN-P01-002)
- 15.3 Seq#019 (CAN-P01-003)
- 15.4 Seq#020 (USA-P01-005)
- 15.5 Seq#290 (CAN-P02-005)
- 15.6 Seq#291 (CAN-P02-006)
- 15.7 Seq#292 (CAN-P02-007)
- 15.8 Seq#300 (USA-P02-112)
- 15.9 Seq#426 (CAN-P03-001)
- 15.10 Seq#427 (CAN-P03-002)
- 15.11 Seq#428 (CAN-P03-003) (PER-164)
PER-164 addresses but does not fully resolve this comment.
- 15.12 Seq#430 (USA-P03-001)
- 15.13 Seq#459 (CAN-P04-002)
- 15.14 Seq#460 (CAN-P04-003)
- 15.15 Seq#461 (CAN-P04-004) (PER-164)
PER-164 addresses but does not fully resolve this comment.
- 15.16 Seq#462 (USA-P04-007)
- 15.17 Seq#515 (CAN-P09-005)
- 15.18 Seq#516 (CAN-P09-006)
- 15.19 Seq#517 (CAN-P09-007) (PER-164)
PER-164 addresses but does not fully resolve this comment.
- 15.20 Seq#526 (USA-P09-019)
- 15.21 Seq#561 (CAN-P10-001)
- 15.22 Seq#562 (CAN-P10-002)
- 15.23 Seq#563 (CAN-P10-003) (PER-164)
PER-164 addresses but does not fully resolve this comment.
- 15.24 Seq#565 (GBR-P10-010)
- 15.25 Seq#568 (USA-P10-004)
- 15.26 Seq#608 (CAN-P11-001)
- 15.27 Seq#609 (CAN-P11-002)
- 15.28 Seq#610 (CAN-P11-003) (PER-164)
PER-164 addresses but does not fully resolve this comment.

15.29 Seq#611 (USA-P11-007)

16 Other Documentation Issues

16.1 ITTF Requests Regarding Incremental Part Construction (PER-021)

See 8.35.

17 National Body Closing Comments

17.1 Australia

Australia thanks the group for continuing to make progress against a difficult background of construction noise. Australia is aware that several new “drill down” jokes may have been discovered at this meeting.

Although good progress has been made at this meeting it is clear that the CD editing meetings will need to continue. We need to ensure that the editing meeting does not go beyond the 2001 SC32 meeting in October. If an electronic meeting can assist this then we should conduct one.

While Australia understands the rationale behind Per195, such a broadbrush approach could be counterproductive and result in important issues being neglected at this time.

Australia hopes you have had a fruitful meeting and have enjoyed your stay in Perth. ... next time we suspect you will save those earplugs from the plane

17.2 Belgium

Not present.

17.3 Brazil

Not present.

17.4 Canada

Canada was disappointed that a lot of comments remain unaddressed, but understandably. Canada commends the efforts made by all contributors in addressing the ballot comments and LOs.

Canada would NOT like to see the LO's being deferred or disappear. We believe these need to be evaluated as and when necessary, when reviewing other remaining ballot comments, to be able to complement or support current features, or re-visit buggy features. I.e. Let us not close the door.

We particularly look forward to more collection types beyond MULTISSET and ARRAYs., in particular WG4-P02-001 and CAN-P02-001.

We are looking forward to the opportunity to progress the remaining ballot comments in an orderly fashion in a F2F meeting. We would not particularly like to support addressing such issues of in-depth nature like major technicals, in any form of an e-meeting.

We favour the continuation of this editing meeting.

Alternatively, we would ask the CD go to FCD and convert all current outstanding ballot comments to PPs or LOs.

We would like to thank all the contributors and NB's that participated in the meeting, in person and in remote. In particular, thanks to the patience and ordered progression by the Editor Jim Melton, and Steve Cannan.

We would like to thank Don Bartley and the Australian National Body for having hosted the meeting. It is unfortunate that the environmental conditions were hampered with excessive noisy surroundings. However, River Gum helped.....

17.5 China

Not present

17.6 Czech Republic

Not present

17.7 Denmark

Not present

17.8 Finland

Not present

17.9 France

Not present

17.10 Germany

Germany appreciates the significant progress, which was made during the editing meeting, by closing more than 380 ballot comments.

Germany is looking forward, that the progress of the new version of the SQL standard continues to follow the schedule, which was agreed in Helsinki.

Germany is looking forward to working with the other national body delegations in the next meetings for the numerous parts of 9075.

Thanks a lot to Don Bartley for organizing the meeting and providing all the additional and helpful information, how to enjoy Australia maximal.

Thanks also to Stephen Cannan for the straight forward guidance through the meeting and Jim Melton working as the editor.

Last but not least thank you for the warm welcome and all the support, you gave to your new German group member.

17.11 Italy

Not present

17.12 Japan

Japan is pleased with the progress even though hundreds of unresolved ballot comments are left. Japan hopes that the next meeting is first and last continuous meeting. Japan continues to pay effort to develop SQL2002 and eliminate problems from it. About some problems in meeting, we will discuss in SC32 Japanese committee.

Japan would like to thank Australian national body in particular Don Bartley for the excellent meeting arrangements and social events.

17.13 Netherlands

The Netherlands is disappointed, but not very surprised, that there are so many Ballot Comments remaining unresolved at the end of this meeting.

We are encouraged by the number of papers submitted during the meeting by National Body participants who were not physically present and would like the National Bodies to convey our thanks to them for their contributions and to encourage more of this in the future.

Given the number of outstanding problems (our estimate is around 100 excluding language opportunities) we believe the best course is to continue this CD Editing Meeting but on the understanding that only a VERY FEW more language opportunities can be dealt with. If such an understanding cannot be reached then we believe that immediate progression to FCD is the best course and leave the resolution of those problems to the FCD Editing Meeting.

If the Editing Meeting is continued then we believe that it should be first continued to an electronic meeting before finally being continued to the SC32 meeting. The time available during the SC32 meeting will be extremely limited with SC32 Plenary sessions, the SQL/JRT FCD Editing meeting, the WG3 XML work and the inevitable series of joint meetings/liaisons with other Working Groups.

Any comments which we can dispose of before the SC32 meeting will increase the chances of a successful completion of the continued Editing Meeting.

The Netherlands would like to thank Don Bartley for his efforts in organising this meeting and in attempting to deal with the disruption caused by the hotel building works.

17.14 Norway

Not present

17.15 Republic of Korea

Not present

17.16 United Kingdom

UK is very pleased with the progress made in Perth and thanks all other participants for their friendly and productive collaboration.

While we maintain our previously stated position that progressing to an FCD ballot out of this meeting is possible in spite of a significant number of unresolved ballot comments, we are also willing to discuss the possibility of continuing the present meeting.

In our view, progressing to FCD means closing the door on new functionality, except perhaps where new syntax might be needed to address problems that are agreed to represent severe defects in the existing specification. We include in this category the problems we have reported with savepoints and diagnostics areas, and we recognize that further work might be needed on UCS support.

Progressing to FCD would mean that FCD starts in Vienna in early 2002 and quite possibly finishes then. If it does not finish in Vienna, it would surely be finished in Seoul, mid-2002.

Continuing the editing meeting in Canada would mean that FCD editing could not possibly start until Seoul, though we note the possibility of updating the working draft in Vienna with change proposals that would also, if accepted in Seoul, update the FCD documents. Therefore, we could work hard with a reasonable prospect of starting and finishing FCD editing in Seoul.

Continuing the CD editing meeting would not close the door on new functionality, but we would like to see certain disciplines agreed upon by all participating national bodies. For example:

- Produce proposals addressing Language Opportunities before bothering with the mere bug fixes, many of which could be left for FCD editing.
- Consider something like the WG's "six-week rule" for proposals addressing what are already agreed to be Language Opportunities.
- Publishing preliminary drafts of change proposals for review, questions and comment before officially tabling them.
- Agreeing in advance which Language Opportunities will be addressed and which will not, so that nobody needs to think about those we will not address.

Finally, we thank our host Don Bartley for the excellent meeting arrangements and for looking after us all so carefully throughout our two-week stay in this congenial city.

17.17 United States

USA is happy with the progress made at this Editing meeting, especially with the large number (over 380) of comments that were successfully resolved.

USA is pleased with the hard work put in by every body and for writing a large number of significant papers during the nights and weekends and the spirit of cooperation and consensus that prevailed during the meeting.

USA recognizes that there are a still large number of unresolved comments and the hard work that still lies ahead to address these. We hope to work on solutions for these remaining problems in conjunction with other national bodies to achieve a successful resolution of as many of the remaining comments as possible. USA would like to propose continuing the Editing meetings to be held concurrently with the upcoming SC32 and WG3 meetings in Victoria, Canada and progress all the CD documents to FCD ballot out of that

meeting. USA thanks Don Bartley and the Australian National body for hosting the meetings and the convenor, Stephen Cannan, for making sure that the meetings ran smoothly.

17.18 Austria

Not present

17.19 Russian Federation

Not present

17.20 Sweden

Not present at the end of the meeting.

18 Recommendations

18.1 Preparation of Revised Texts

(SD-005)

The Editor agreed to produce interim versions of all the CD documents that were before this meeting, incorporating all changes agreed during the meeting. He would also produce a consolidated comments document containing only those comments that had not been resolved at this meeting. He said that he expected to be able to post the interim CD documents by 2001 June 8th.

18.2 Disposition of Comments Report

This will consist of the minutes of the meeting and the annotated consolidated comments list that has been maintained by the Editor.

18.3 Recommendation Regarding Progression

**(PER-195R1)
(PER-197)**

It was noted that if we go to FCD from this meeting a formal editing meeting could not start before Vienna, with the prospect of completion in Seoul. Alternatively, going to FCD from Victoria would preclude formal editing in Vienna, with the possibility of completing editing in Seoul but the likelihood of completion not before the following interim meeting.

The potential delay to publication would be around three months, which might delay publication from our current target of 2002 into 2003.

Stephen Cannan reviewed the activities in Victoria that would reduce the time available for editing to at most three days.

The idea of an electronic meeting was suggested and supported by several national bodies, but there was also a recognition that an electronic meeting should concentrate on non-contentious solutions to recognised problems. Contentious issues should be reserved for face to face meetings.

Canada offered to investigate the possibility of opening their electronic forum facility to a continuation editing meeting.

There was consensus that an electronic continuation meeting should be held before the Victoria SC32 meeting.

It was agreed that there would be an electronic continuation editing meeting running from 2nd July to 24th August. Within that period there would be two calls for resolution on papers, the first from 30th July with votes to be registered by 3rd August and the second from 20th August with votes to be registered by 24th August. The Editor will aim to publish revised documents from this meeting by 8th June and revised documents from the electronic continuation meeting by 8th September.

It was agreed that contentious papers should be surfaced as early as possibly.

Jutta Kreys introduced PER-195R1, which identifies 176 ballot comments as Language Opportunities and proposes that they should all be closed with no action.

The United States in PER-197 proposed that 18 of the comments identified in PER-195R1 should not be closed immediately, but should remain open for potential resolution during a continuation editing meeting

in October 2001. During discussion, it was noted that one of the comments identified in PER-197 was not proposed for closure in PER-195R1. Comment Seq#393 thus remains open.

Jim Melton requested that Seq#525 should also remain open. This request was accepted.

On a vote to accept PER-195R1 as amended by PER-197 and with the further deletion of Seq#525, Germany, United States, Australia, Japan, The Netherlands and the United Kingdom voted in favour, Canada voted against and there were no abstentions. PER-195R1 as amended was thus accepted 6-1-0.

Paper PER-195R1 as amended by PER-197 was accepted as closing a number of comments and raising the issues identified in the comments as Language Opportunities.

During preparation of these minutes, the Secretary noted that Seq#209, although listed in PER-195R1 as one of the comments to be resolved by that paper, had already been resolved by PER-098R1 (see 9.13). Seq#209 is therefore omitted from the count of comments closed by PER-195R1 and from the list below. Similarly, Seq#324 and Seq#601 were listed in PER-195R1, although previously closed by PER-146 (see 9.272) and PER-118 (see 14.1), respectively. These also are omitted from the count of comments closed by PER-195R1 and from the list below.

Acceptance of PER-195R1, as amended, closes the following 155 comments with no action:

Seq#006 (8.16)	Seq#248 (9.206)	Seq#344 (9.285)	Seq#389 (9.324)	Seq#533 (12.34)
Seq#011b (8.27)	Seq#249 (9.207)	Seq#348 (9.287)	Seq#390 (9.325)	Seq#534 (12.35)
Seq#011c (8.28)	Seq#250 (9.208)	Seq#349 (9.288)	Seq#391 (9.326)	Seq#535 (12.36)
Seq#038 (9.15)	Seq#257 (9.215)	Seq#353 (9.290)	Seq#392 (9.327)	Seq#537 (12.38)
Seq#054 (9.31)	Seq#266 (9.222)	Seq#355 (9.292)	Seq#394 (9.329)	Seq#538 (12.39)
Seq#057 (9.34)	Seq#268 (9.224)	Seq#356 (9.293)	Seq#395 (9.330)	Seq#539 (12.40)
Seq#068a (9.367)	Seq#295 (9.247)	Seq#357 (9.294)	Seq#396 (9.331)	Seq#540 (12.41)
Seq#068b (9.368)	Seq#304 (9.254)	Seq#358 (9.295)	Seq#397 (9.332)	Seq#541 (12.42)
Seq#074 (9.51)	Seq#307 (9.256)	Seq#359 (9.296)	Seq#398 (9.333)	Seq#542 (12.43)
Seq#078 (9.55)	Seq#308 (9.257)	Seq#360 (9.297)	Seq#399 (9.334)	Seq#543 (12.44)
Seq#095a (9.371)	Seq#309 (9.258)	Seq#361 (9.298)	Seq#406 (9.340)	Seq#544 (12.45)
Seq#111 (9.76)	Seq#310 (9.259)	Seq#362 (9.299)	Seq#408 (9.342)	Seq#545 (12.46)
Seq#121 (9.86)	Seq#312 (9.261)	Seq#363 (9.300)	Seq#411 (9.343)	Seq#547 (13.2)
Seq#127 (9.90)	Seq#313 (9.262)	Seq#364 (9.301)	Seq#420f (9.377)	Seq#549 (13.4)
Seq#156 (9.119)	Seq#316 (9.264)	Seq#365 (9.302)	Seq#431 (10.6)	Seq#550 (13.5)
Seq#164 (9.127)	Seq#318 (9.266)	Seq#369 (9.304)	Seq#432 (10.7)	Seq#551 (13.6)
Seq#165 (9.128)	Seq#319 (9.267)	Seq#370 (9.305)	Seq#465 (11.25)	Seq#552 (13.7)
Seq#169 (9.132)	Seq#320 (9.268)	Seq#372 (9.307)	Seq#466 (11.26)	Seq#553 (13.8)
Seq#170 (9.133)	Seq#321 (9.269)	Seq#373 (9.308)	Seq#469 (11.28)	Seq#554 (13.9)
Seq#176 (9.139)	Seq#322 (9.270)	Seq#374 (9.309)	Seq#472 (11.30)	Seq#555 (13.10)
Seq#184 (9.147)	Seq#323 (9.271)	Seq#375 (9.310)	Seq#473 (11.31)	Seq#556 (13.11)
Seq#187 (9.150)	Seq#327 (9.274)	Seq#376 (9.311)	Seq#476 (11.34)	Seq#560 (13.15)
Seq#194 (9.157)	Seq#328 (9.275)	Seq#377 (9.312)	Seq#478 (11.36)	Seq#570 (13.20)
Seq#199 (9.162)	Seq#330 (9.276)	Seq#378 (9.313)	Seq#482 (11.40)	Seq#571 (13.21)
Seq#200 (9.163)	Seq#331 (9.277)	Seq#379 (9.314)	Seq#483 (11.41)	Seq#572 (13.22)
Seq#208 (9.171)	Seq#332 (9.278)	Seq#381 (9.316)	Seq#527 (12.28)	Seq#574 (13.24)
Seq#210 (9.172)	Seq#334 (9.279)	Seq#382 (9.317)	Seq#528 (12.29)	Seq#575 (13.25)
Seq#238 (9.196)	Seq#336 (9.281)	Seq#384 (9.319)	Seq#529 (12.30)	Seq#580 (14.2)
Seq#245 (9.203)	Seq#337 (9.282)	Seq#385 (9.320)	Seq#530 (12.31)	Seq#581 (14.3)
Seq#246 (9.204)	Seq#338 (9.283)	Seq#386 (9.321)	Seq#531 (12.32)	Seq#592 (14.14)
Seq#247 (9.205)	Seq#343 (9.284)	Seq#387 (9.322)	Seq#532 (12.33)	Seq#612 (14.24)

19 Action Items

No explicit action items were identified during the meeting.

20 Adjourn

The group expressed by acclamation its appreciation of the contribution made by Åke Persson to the success of the meeting.

Adjourned at 15.50 UTC-8 on Friday May 11th 2001.

Appendix A: Final Agenda

ISO/IEC JTC1/SC32 WG 3 CD Ballot Resolution Meeting 30th April – 11th May, 2001 Perth, Western Australia, Australia

- 1 Introduction Of Participants**
- 2 Distribution Of Documents**
- 3 Selection Of Secretary And Resolution Recorder**
- 4 Approval Of Agenda**
- 5 Administrative Matters**
 - 5.1 Calling notice for CD Editing Meeting (SC32 N00610) (PER-087)
 - 5.2 Meeting Arrangements for SC 32Editing Meeting, Perth, Australia (PER-014)
 - 5.3 ISO 9075-1 SQL/Framework CD Text (SC32 N00593) (PER-003)
 - 5.4 ISO 9075-2 SQL/Foundation CD Text (SC32 N00594) (PER-004, PER-022)
 - 5.5 ISO 9075-3 SQL/CLI CD Text (SC32 N00595) (PER-005)
 - 5.6 ISO 9075-4 SQL/PSM CD Text (SC32 N00596) (PER-006)
 - 5.7 ISO 9075-9 SQL/MED CD Text (SC32 N00597) (PER-008, PER-023)
 - 5.8 ISO 9075-10 SQL/OLB CD Text (SC32 N00598) (PER-009, PER-024)
 - 5.9 ISO 9075-11 SQL/Schemata CD Text (SC32 N00599) (PER-010, PER-025)
 - 5.10 Results of SC32 Ballot on CD 9075/1-SQL/Framework (SC32 N00621) (PER-080)
 - 5.11 Results of SC32 Ballot on CD 9075/2-SQL/Foundation (SC32 N00622, PER-081)
 - 5.12 Results of SC32 Ballot on CD 9075/3-SQL/CLI (SC32 N00623, PER-082)
 - 5.13 Results of SC32 Ballot on CD 9075/4-SQL/PSM (SC32 N00624, PER-083)
 - 5.14 Results of SC32 Ballot on CD 9075/9-SQL/MED (SC32 N00625, PER-084)
 - 5.15 Results of SC32 Ballot on CD 9075/10-SQL/OLB (SC32 N00626, PER-085)
 - 5.16 Results of SC32 Ballot on CD 9075/11-SQL/Schemata (SC32 N00627, PER-086)
 - 5.17 CD 9075 Consolidated Ballot Comments (PER-053R1)
 - 5.18 Convenor's Definition of Consensus
- 6 National Body Opening Comments**
 - 6.1 Australia
 - 6.2 Belgium
 - 6.3 Brazil
 - 6.4 Canada (PER-036)
(PER-037)
(PER-038)
(PER-039)
(PER-040)
(PER-041)
(PER-042)
 - 6.5 China
 - 6.6 Czech Republic
 - 6.7 Denmark
 - 6.8 Finland
 - 6.9 France
 - 6.10 Germany (PER-052R1)
 - 6.11 Italy
 - 6.12 Japan (PER-066)
 - 6.13 Netherlands (PER-035)
 - 6.14 Norway

- 6.15 Republic of Korea
- 6.16 United Kingdom (PER-055)
- 6.17 United States (PER-043)
- 6.18 Austria
- 6.19 Russian Federation
- 6.20 Sweden (PER-026)
(PER-068)
(PER-069)

7 Ballot Comments already processed by the Editor

8 SQL/Framework Topics

- 8.1 Seq#001 (DEU-P01-001) Editorial
- 8.2 Seq#002 (GBR-P01-010)
- 8.3 Seq#002a (WG3-P01-001) Editorial
- 8.4 Seq#002b (WG3-P01-002) (PER-054R1)
- 8.5 Seq#002c (WG3-P01-003)
- 8.6 Seq#002d (WG3-P01-004) (PER-054R1)
- 8.7 Seq#002e (WG3-P01-006) Editorial
- 8.8 Seq#002f (WG3-P01-007)
- 8.9 Seq#002g (WG3-P01-008)
- 8.10 Seq#002h (WG3-P01-009)
- 8.11 Seq#002i (WG3-P01-010) Editorial
- 8.12 Seq#002k (WG3-P01-011) (PER-146)
(PER-152)
(PER-160)
- 8.13 Seq#003 (DEU-P01-002) PER-132R1
- 8.14 Seq#004 (GBR-P01-020) Editorial
- 8.15 Seq#005 (DEU-P01-003) (PER-133)
- 8.16 Seq#006 (NLD-P01-001) (PER-195R1)
(PER-197)
- 8.17 Seq#006a (WG3-P01-013) (PER-146)
- 8.18 Seq#006b (WG3-P01-018) (PER-146)
(PER-160)
- 8.19 Seq#007 (GBR-P01-030) Editorial
- 8.20 Seq#008 (DEU-P01-004) see comment
- 8.21 Seq#009 (DEU-P01-005) see comment
- 8.22 Seq#009a (WG3-P01-020) (PER-095)
(PER-096)
- 8.23 Seq#009b (WG3-P01-021) (PER-135)
- 8.24 Seq#010 (DEU-P01-006) (PER-138)
- 8.25 Seq#011 (DEU-P01-007) (PER-138)
- 8.26 Seq#011a (WG3-P01-014)
- 8.27 Seq#011b (WG3-P01-015) (PER-195R1)
(PER-197)
- 8.28 Seq#011c (WG3-P01-016) (PER-195R1)
(PER-197)
- 8.29 Seq#011d (WG3-P01-019) (PER-146)
- 8.30 Seq#011e (WG3-P01-017) (PER-054R1)
(PER-095)
(PER-146)
- 8.31 Seq#012 (USA-P01-001)
- 8.32 Seq#013 (USA-P01-002) (PER-171)
- 8.33 Seq#014 (USA-P01-003) (PER-171)
- 8.34 Seq#015 (USA-P01-004) see comment
- 8.35 Seq#016 (GBR-P01-040) (PER-021)

- 8.36 Seq#021 (NLD-P01-002) (PER-067)
- 8.37 Seq#022 (USA-P01-006) (PER-146)
- 8.38 Seq#023 (USA-P01-007) (PER-106)
- 8.39 Seq#023a (WG3-P01-012) (PER-146)

9 SQL/Foundation Topics

- 9.1 Seq#024 (GBR-P02-000)
- 9.2 Seq#025 (USA-P02-001)
 Seq#095 (NLD-P02-022)
 Seq#297 (NLD-P02-182)
 Seq#306 (GBR-P02-500)
 Seq#409 (NLD-P02-183)
 Seq#410 (NLD-P02-184) (PER-054R1)
- 9.3 Seq#026 (NLD-P02-001) (PER-067)
- 9.4 Seq#027 (NLD-P02-002) (PER-201)
- 9.5 Seq#028 (GBR-P02-010) (PER-128)
- 9.6 Seq#029 (USA-P02-002) see comment
- 9.7 Seq#030 (GBR-P02-020) see comment
- 9.8 Seq#031 (NLD-P02-003)
- 9.9 Seq#032 (USA-P02-003) see comment
- 9.10 Seq#033 (CAN-P02-002) (PER-116)
- 9.11 Seq#034 (USA-P02-004) see comment
- 9.12 Seq#035 (USA-P02-005) (PER-098R1)
- 9.13 Seq#036 (USA-P02-006)
 Seq#098 (NLD-P02-023)
 Seq#099 (NLD-P02-024)
 Seq#100 (USA-P02-030)
 Seq#102 (USA-P02-031)
 Seq#107 (USA-P02-034)
 Seq#109 (USA-P02-035)
 Seq#209 (NLD-P02-050)
 Seq#346 (NLD-P02-116)
 Seq#368 (NLD-P02-138) (PER-098R1)
 (PER-114)
- 9.14 Seq#037 (NLD-P02-004)
- 9.15 Seq#038 (NLD-P02-005) (PER-195R1)
 (PER-197)
- 9.16 Seq#039 (USA-P02-007) (PER-171)
- 9.17 Seq#040 (GBR-P02-030) (PER-095)
 (PER-096)
- 9.18 Seq#041 (USA-P02-008) (PER-146)
 (PER-160)
- 9.19 Seq#042 (GBR-P02-040) see comment
- 9.20 Seq#043 (USA-P02-009)
- 9.21 Seq#044 (GBR-P02-050) see comment
- 9.22 Seq#045 (USA-P02-010) (PER-146)
 (PER-160)
- 9.23 Seq#046 (NLD-P02-006)
- 9.24 Seq#047 (USA-P02-011) (PER-151)
- 9.25 Seq#048 (USA-P02-012) (PER-151)
- 9.26 Seq#049 (USA-P02-013) (PER-151)
- 9.27 Seq#050 (NLD-P02-009)
- 9.28 Seq#051 (USA-P02-014)
- 9.29 Seq#052 (USA-P02-015)
- 9.30 Seq#053 (NLD-P02-007)
 Seq#484 (NLD-P04-028) (PER-020R2)

9.31	Seq#054 (NLD-P02-008)	(PER-195R1)
		(PER-197)
9.32	Seq#055 (USA-P02-016)	(PER-016)
9.33	Seq#056 (USA-P02-017)	(PER-171)
9.34	Seq#057 (NLD-P02-010)	(PER-195R1)
		(PER-197)
9.35	Seq#058 (DEU-P02-002)	(PER-130)
9.36	Seq#059 (USA-P02-018)	(PER-171)
9.37	Seq#060 (NLD-P02-011)	(PER-115)
9.38	Seq#061 (DEU-P02-001)	(PER-115)
9.39	Seq#062 (GBR-P02-060)	(PER-115)
9.40	Seq#063 (NLD-P02-013)	
9.41	Seq#064 (GBR-P02-070)	(PER-146)
9.42	Seq#065 (NLD-P02-012)	(PER-171)
9.43	Seq#066 (GBR-P02-080)	(PER-157)
		(PER-157R1)
		(PER-174)
9.44	Seq#067 (SWE-P02-001)	(PER-027)
9.45	Seq#068 (NLD-P02-014)	(PER-034)
9.46	Seq#069 (USA-P02-019)	
	Seq#229 (USA-P02-092)	(PER-107)
9.47	Seq#070 (USA-P02-020)	(PER-198)
9.48	Seq#071 (USA-P02-021)	(PER-103)
9.49	Seq#072 (NLD-P02-015)	
	Seq#232 (NLD-P02-053)	
	Seq#264 (NLD-P02-065)	
	Seq#273 (NLD-P02-069)	
	Seq#315 (NLD-P02-085)	
	Seq#325 (NLD-P02-095)	
	Seq#329 (NLD-P02-099)	
	Seq#333 (NLD-P02-103)	
	Seq#339 (NLD-P02-109)	
	Seq#340 (NLD-P02-110)	
	Seq#341 (NLD-P02-111)	
	Seq#342 (NLD-P02-112)	
	Seq#345 (NLD-P02-115)	
	Seq#351 (NLD-P02-121)	
	Seq#352 (NLD-P02-122)	
	Seq#367 (NLD-P02-137)	
	Seq#400 (NLD-P02-172)	
	Seq#467 (NLD-P04-009)	
	Seq#470 (NLD-P04-012)	
	Seq#485 (NLD-P04-005)	(PER-117)
9.50	Seq#073 (NLD-P02-016)	(PER-146)
9.51	Seq#074 (NLD-P02-017)	(PER-195R1)
		(PER-197)
9.52	Seq#075 (NLD-P02-018)	
9.53	Seq#076 (NLD-P02-019)	
9.54	Seq#077 (USA-P02-022)	(PER-095)
		(PER-096)
9.55	Seq#078 (NLD-P02-020)	(PER-195R1)
		(PER-197)
9.56	Seq#079 (USA-P02-023)	(PER-155R2)
9.57	Seq#080 (CAN-P02-003)	
	Seq#081 (GBR-P02-130)	

	Seq#438 (CAN-P04-001)	
	Seq#439 (GBR-P04-040)	(PER-064)
9.58	Seq#082 (GBR-P02-090)	
	Seq#084 (GBR-P02-100)	(See Comment)
	Seq#085 (GBR-P02-110)	(See Comment)
	Seq#089 (GBR-P02-140)	(PER-057)
		(PER-057R1)
		(PER-125)
9.59	Seq#083 (GBR-P02-120)	
9.60	Seq#086 (USA-P02-024)	
9.61	Seq#087 (USA-P02-025)	
9.62	Seq#088 (USA-P02-026)	
9.63	Seq#090 (USA-P02-027)	(PER-150)
9.64	Seq#091 (GBR-P02-150)	
	Seq#092 (GBR-P02-160)	
	Seq#123 (GBR-P02-210)	(PER-058R1)
9.65	Seq#093 (NLD-P02-021)	(PER-058R1)
9.66	Seq#094 (USA-P02-028)	(PER-015)
		(PER-112)
9.67	Seq#096 (GBR-P02-170)	See Comment
		(PER-187)
9.68	Seq#097 (USA-P02-029)	See Comment
9.69	Seq#101 (NLD-P02-025)	(PER-107)
9.70	Seq#103 (USA-P02-032)	(PER-099)
9.71	Seq#104 (NLD-P02-026)	(PER-152)
9.72	Seq#105 (USA-P02-033)	(PER-126R2)
9.73	Seq#106 (DEU-P02-014)	(PER-126R2)
9.74	Seq#108 (NLD-P02-027)	(PER-171)
9.75	Seq#110 (USA-P02-036)	(PER-046)
		(PER-126R2)
9.76	Seq#111 (NLD-P02-028)	(PER-195R1)
		(PER-197)
9.77	Seq#112 (NLD-P02-029)	
9.78	Seq#113 (USA-P02-037)	
9.79	Seq#114 (USA-P02-038)	
9.80	Seq#115 (USA-P02-039)	
9.81	Seq#116 (GBR-P02-180)	See Comment
		(PER-057R1)
9.82	Seq#117 (GBR-P02-190)	Editorial
9.83	Seq#118 (NLD-P02-030)	(PER-146)
		(PER-160)
9.84	Seq#119 (USA-P02-040)	(PER-044R1)
9.85	Seq#120 (USA-P02-041)	
9.86	Seq#121 (NLD-P02-031)	(PER-195R1)
		(PER-197)
9.87	Seq#122 (GBR-P02-200)	See Comment
9.88	Seq#124 (GBR-P02-220)	(PER-091)
		(PER-134R2)
9.89	Seq#125 (GBR-P02-230)	
9.90	Seq#127 (NLD-P02-032)	(PER-195R1)
		(PER-197)
9.91	Seq#128 (USA-P02-042)	(PER-158)
9.92	Seq#129 (USA-P02-043)	(PER-171)
9.93	Seq#130 (DEU-P02-015)	See Comment
9.94	Seq#131 (USA-P02-044)	(PER-156)

9.95	Seq#132 (USA-P02-045)	
9.96	Seq#133 (GBR-P02-240)	(PER-159)
9.97	Seq#134 (NLD-P02-034)	(PER-156)
9.98	Seq#135 (USA-P02-046)	
9.99	Seq#136 (USA-P02-047)	(PER-126R2)
9.100	Seq#137 (DEU-P02-003)	See Comment
9.101	Seq#138 (DEU-P02-004)	(PER-116)
9.102	Seq#139 (DEU-P02-005)	(PER-116)
9.103	Seq#140 (USA-P02-048)	(PER-126R2)
9.104	Seq#141 (USA-P02-049)	(PER-018)
9.105	Seq#142 (DEU-P02-007)	
9.106	Seq#143 (DEU-P02-008)	(PER-116)
9.107	Seq#144 (DEU-P02-006)	Editorial
9.108	Seq#145 (NLD-P02-035)	(PER-126R2)
9.109	Seq#146 (DEU-P02-009)	(PER-116)
9.110	Seq#147 (USA-P02-050)	(PER-116)
9.111	Seq#148 (USA-P02-051)	(PER-116)
9.112	Seq#149 (DEU-P02-010)	(PER-116)
9.113	Seq#150 (USA-P02-052)	(PER-116)
9.114	Seq#151 (USA-P02-053)	(PER-176)
9.115	Seq#152 (USA-P02-054)	(PER-176)
9.116	Seq#153 (USA-P02-055)	
9.117	Seq#154 (USA-P02-056)	
9.118	Seq#155 (USA-P02-057)	(PER-181)
9.119	Seq#156 (NLD-P02-036)	(PER-195R1)
		(PER-197)
9.120	Seq#157 (JPN-P02-003)	Editorial
9.121	Seq#158 (GBR-P02-250)	(PER-060)
		(PER-089)
		(PER-143)
9.122	Seq#159 (USA-P02-058)	See Comment
9.123	Seq#160 (USA-P02-059)	
9.124	Seq#161 (USA-P02-060)	
9.125	Seq#162 (GBR-P02-260)	Editorial
9.126	Seq#163 (GBR-P02-270)	(PER-182)
9.127	Seq#164 (USA-P02-061)	(PER-195R1)
		(PER-197)
9.128	Seq#165 (USA-P02-062)	(PER-195R1)
		(PER-197)
9.129	Seq#166 (JPN-P02-005)	(PER-092)
		(PER-149)
9.130	Seq#167 (USA-P02-063)	See Comment
9.131	Seq#168 (USA-P02-064)	(PER-177)
9.132	Seq#169 (NLD-P02-037)	(PER-195R1)
		(PER-197)
9.133	Seq#170 (NLD-P02-038)	(PER-195R1)
		(PER-197)
9.134	Seq#171 (USA-P02-065)	
9.135	Seq#172 (GBR-P02-280)	
	Seq#234 (CAN-P02-004)	
	Seq#236 (USA-P02-095)	(PER-090)
9.136	Seq#173 (USA-P02-066)	(PER-104)
9.137	Seq#174 (USA-P02-067)	
9.138	Seq#175 (GBR-P02-290)	See Comment
9.139	Seq#176 (NLD-P02-039)	(PER-195R1)
		(PER-197)

9.140	Seq#177 (USA-P02-068)	
9.141	Seq#178 (USA-P02-069)	
9.142	Seq#179 (JPN-P02-004)	Editorial
9.143	Seq#180 (GBR-P02-300)	
9.144	Seq#181 (USA-P02-070)	
9.145	Seq#182 (GBR-P02-310)	(PER-105)
9.146	Seq#183 (USA-P02-071)	See Comment
9.147	Seq#184 (NLD-P02-040)	(PER-195R1) (PER-197)
9.148	Seq#185 (USA-P02-072)	
9.149	Seq#186 (GBR-P02-320)	(PER-169)
9.150	Seq#187 (NLD-P02-041)	(PER-195R1) (PER-197)
9.151	Seq#188 (USA-P02-073)	
9.152	Seq#189 (USA-P02-074)	(PER-019)
9.153	Seq#190 (USA-P02-075)	
9.154	Seq#191 (NLD-P02-042)	(PER-146)
9.155	Seq#192 (GBR-P02-325)	Withdrawn
9.156	Seq#193 (NLD-P02-043)	(PER-146)
9.157	Seq#194 (NLD-P02-044)	(PER-195R1) (PER-197)
9.158	Seq#195 (NLD-P02-045)	
9.159	Seq#196 (DEU-P02-011)	
9.160	Seq#197 (GBR-P02-330)	(PER-127)
9.161	Seq#198 (NLD-P02-046)	(PER-142)
9.162	Seq#199 (NLD-P02-047)	(PER-195R1) (PER-197)
9.163	Seq#200 (NLD-P02-048)	(PER-195R1) (PER-197)
9.164	Seq#201 (USA-P02-076)	(PER-145)
9.165	Seq#202 (USA-P02-077)	(PER-131)
9.166	Seq#203 (USA-P02-078)	(PER-131R1)
9.167	Seq#204 (USA-P02-079)	See Comment
9.168	Seq#205 (USA-P02-080)	(PER-045)
9.169	Seq#206 (SWE-P02-002)	(PER-028)
9.170	Seq#207 (USA-P02-081)	(PER-183) (PER-108) (PER-108R1)
9.171	Seq#208 (NLD-P02-049)	(PER-195R1) (PER-197)
9.172	Seq#210 (NLD-P02-051)	(PER-195R1) (PER-197)
9.173	Seq#211 (USA-P02-082)	(PER-171) (PER-189R1)
9.174	Seq#212 (USA-P02-083)	
9.175	Seq#213 (DEU-P02-012)	See Comment
9.176	Seq#214 (DEU-P02-013)	See Comment
9.177	Seq#215 (USA-P02-084)	See Comment
9.178	Seq#216 (USA-P02-085)	(PER-173R1)
9.179	Seq#217 (NLD-P02-052)	
9.180	Seq#218 (USA-P02-086)	
9.181	Seq#219 (USA-P02-087)	(PER-173R1)
9.182	Seq#220 (USA-P02-088)	(PER-173R1)
9.183	Seq#221 (USA-P02-089)	(PER-173R1)

9.184	Seq#222 (JPN-P02-002)	(PER-194)
9.185	Seq#223 (GBR-P02-360)	(PER-163R1)
9.186	Seq#224 (GBR-P02-340)	See Comment
9.187	Seq#225 (GBR-P02-350)	(PER-062) (PER-062R2)
9.188	seq#226 (GBR-P02-370)	(PER-062R2)
9.189	Seq#227 (USA-P02-090)	(PER-176)
9.190	Seq#228 (USA-P02-091)	(PER-176)
9.191	Seq#230 (USA-P02-093)	See Comment
9.192	Seq#231 (USA-P02-094)	
9.193	Seq#233 (NLD-P02-054)	
9.194	Seq#235 (GBR-P02-380)	(PER-056)
9.195	Seq#237 (USA-P02-096)	(PER177)
9.196	Seq#238 (NLD-P02-055)	(PER-195R1) (PER-197)
9.197	Seq#239 (USA-P02-097)	(PER-177)
9.198	Seq#240 (GBR-P02-390)	Withdrawn
9.199	Seq#241 (GBR-P02-400)	
	Seq#445 (GBR-P04-070)	(PER-092) (PER-149)
9.200	Seq#242 (USA-P02-098)	(PER-175)
9.201	Seq#243 (GBR-P02-410)	See Comment
9.202	Seq#244 (NLD-P02-056)	
9.203	Seq#245 (NLD-P02-057)	(PER-195R1) (PER-197)
9.204	Seq#246 (NLD-P02-058)	(PER-195R1) (PER-197)
9.205	Seq#247 (NLD-P02-059)	(PER-195R1) (PER-197)
9.206	Seq#248 (NLD-P02-060)	(PER-195R1) (PER-197)
9.207	Seq#249 (NLD-P02-061)	(PER-195R1) (PER-197)
9.208	Seq#250 (NLD-P02-062)	(PER-195R1) (PER-197)
9.209	Seq#251 (NLD-P02-063)	(PER-171)
9.210	Seq#252 (USA-P02-099)	See Comment
9.211	Seq#253 (USA-P02-100)	
9.212	Seq#254 (GBR-P02-420)	See Comment
9.213	Seq#255 (JPN-P02-001)	
9.214	Seq#256 (USA-P02-101)	
9.215	Seq#257 (USA-P02-102)	(PER-195R1) (PER-197) PER-190
9.216	Seq#258 (NLD-P02-064)	
9.217	Seq#259 (GBR-P02-430)	
	Seq#260 (GBR-P02-440)	(PER-061)
9.218	Seq#261 (USA-P02-103)	(PER-102)
9.219	Seq#262 (USA-P02-104)	See Comment
9.220	Seq#263 (SWE-P02-003)	(PER-029)
9.221	Seq#265 (NLD-P02-066)	
9.222	Seq#266 (GBR-P02-450)	(PER-195R1) (PER-197)
9.223	Seq#267 (USA-P02-105)	
9.224	Seq#268 (NLD-P02-067)	(PER-195R1) (PER-197)

9.225	Seq#269 (NLD-P02-068)	
9.226	Seq#270 (GBR-P02-460)	(PER-162)
9.227	Seq#271 (SWE-P02-004)	(PER-030)
9.228	Seq#272 (USA-P02-106)	
9.229	Seq#274 (NLD-P02-070)	
9.230	Seq#275 (NLD-P02-071)	
9.231	Seq#276 (NLD-P02-072)	
9.232	Seq#277 (NLD-P02-073)	
9.233	Seq#278 (NLD-P02-074)	
9.234	Seq#279 (NLD-P02-075)	
9.235	Seq#280 (NLD-P02-076)	
9.236	Seq#281 (USA-P02-107)	
9.237	Seq#282 (GBR-P02-470)	See Comment
9.238	Seq#283 (SWE-P02-005)	(PER-031)
9.239	Seq#284 (USA-P02-108)	
9.240	Seq#285 (USA-P02-109)	See Comment
9.241	Seq#286 (USA-P02-110)	
9.242	Seq#287 (USA-P02-111)	See Comment
9.243	Seq#288 (GBR-P02-480)	Editorial
9.244	Seq#289 (CAN-P02-001)	(PER-098R1)
9.245	Seq#293 (GBR-P02-490)	(PER-056)
9.246	Seq#294 (NLD-P02-164)	
9.247	Seq#295 (NLD-P02-170)	(PER-195R1) (PER-197)
9.248	Seq#296 (NLD-P02-180)	
9.249	Seq#298 (NLD-P02-193)	Withdrawn
9.250	Seq#299 (SWE-P02-006)	(PER-032)
9.251	Seq#301 (USA-P02-113)	
9.252	Seq#302 (USA-P02-114)	
9.253	Seq#303 (USA-P02-115)	
9.254	Seq#304 (USA-P02-116)	(PER-195R1) (PER-197)
9.255	Seq#305 (USA-P02-117)	
9.256	Seq#307 (NLD-P02-077)	(PER-195R1) (PER-197)
9.257	Seq#308 (NLD-P02-078)	(PER-195R1) (PER-197)
9.258	Seq#309 (NLD-P02-079)	(PER-195R1) (PER-197)
9.259	Seq#310 (NLD-P02-080)	(PER-195R1) (PER-197)
9.260	Seq#311 (NLD-P02-081)	(PER-034)
9.261	Seq#312 (NLD-P02-082)	(PER-195R1) (PER-197)
9.262	Seq#313 (NLD-P02-083)	(PER-195R1) (PER-197)
9.263	Seq#314 (NLD-P02-084)	(PER-146)
9.264	Seq#316 (NLD-P02-086)	(PER-195R1) (PER-197)
9.265	Seq#317 (NLD-P02-087)	(PER-146)
9.266	Seq#318 (NLD-P02-088)	(PER-195R1) (PER-197)
9.267	Seq#319 (NLD-P02-089)	(PER-195R1) (PER-197)

9.268 Seq#320 (NLD-P02-090)	(PER-195R1) (PER-197)
9.269 Seq#321 (NLD-P02-091)	(PER-195R1) (PER-197)
9.270 Seq#322 (NLD-P02-092)	(PER-195R1) (PER-197)
9.271 Seq#323 (NLD-P02-093)	(PER-195R1) (PER-197)
9.272 Seq#324 (NLD-P02-094)	(PER-146)
9.273 Seq#326 (NLD-P02-096)	(PER-146)
9.274 Seq#327 (NLD-P02-097)	(PER-195R1) (PER-197)
9.275 Seq#328 (NLD-P02-098)	(PER-195R1) (PER-197)
9.276 Seq#330 (NLD-P02-100)	(PER-195R1) (PER-197)
9.277 Seq#331 (NLD-P02-101)	(PER-195R1) (PER-197)
9.278 Seq#332 (NLD-P02-102)	(PER-146) (PER-152) (PER-195R1) (PER-197)
9.279 Seq#334 (NLD-P02-104)	(PER-195R1) (PER-197)
9.280 Seq#335 (NLD-P02-105)	(PER-146)
9.281 Seq#336 (NLD-P02-106)	(PER-195R1) (PER-197)
9.282 Seq#337 (NLD-P02-107)	(PER-195R1) (PER-197)
9.283 Seq#338 (NLD-P02-108)	(PER-195R1) (PER-197)
9.284 Seq#343 (NLD-P02-113)	(PER-195R1) (PER-197)
9.285 Seq#344 (NLD-P02-114)	(PER-195R1) (PER-197)
9.286 Seq#347 (NLD-P02-117)	(PER-146)
9.287 Seq#348 (NLD-P02-118)	(PER-195R1) (PER-197)
9.288 Seq#349 (NLD-P02-119)	(PER-195R1) (PER-197)
9.289 Seq#350 (NLD-P02-120)	(PER-098R1)
9.290 Seq#353 (NLD-P02-123)	(PER-195R1) (PER-197)
9.291 Seq#354 (NLD-P02-124)	(PER-146)
9.292 Seq#355 (NLD-P02-125)	(PER-195R1) (PER-197)
9.293 Seq#356 (NLD-P02-126)	(PER-195R1) (PER-197)
9.294 Seq#357 (NLD-P02-127)	(PER-195R1) (PER-197)
9.295 Seq#358 (NLD-P02-128)	(PER-195R1) (PER-197)
9.296 Seq#359 (NLD-P02-129)	(PER-195R1) (PER-197)

9.297 Seq#360 (NLD-P02-130)	(PER-195R1) (PER-197)
9.298 Seq#361 (NLD-P02-131)	(PER-195R1) (PER-197)
9.299 Seq#362 (NLD-P02-132)	(PER-195R1) (PER-197)
9.300 Seq#363 (NLD-P02-133)	(PER-195R1) (PER-197)
9.301 Seq#364 (NLD-P02-134)	(PER-195R1) (PER-197)
9.302 Seq#365 (NLD-P02-135)	(PER-195R1) (PER-197)
9.303 Seq#366 (NLD-P02-136)	(PER-146)
9.304 Seq#369 (NLD-P02-139)	(PER-195R1) (PER-197)
9.305 Seq#370 (NLD-P02-140)	(PER-195R1) (PER-197)
9.306 Seq#371 (NLD-P02-141)	(PER-098R1)
9.307 Seq#372 (NLD-P02-142)	(PER-195R1) (PER-197)
9.308 Seq#373 (NLD-P02-143)	(PER-195R1) (PER-197)
9.309 Seq#374 (NLD-P02-144)	(PER-195R1) (PER-197)
9.310 Seq#375 (NLD-P02-145)	(PER-195R1) (PER-197)
9.311 Seq#376 (NLD-P02-146)	(PER-195R1) (PER-197)
9.312 Seq#377 (NLD-P02-147)	(PER-195R1) (PER-197)
9.313 Seq#378 (NLD-P02-148)	(PER-195R1) (PER-197)
9.314 Seq#379 (NLD-P02-149)	(PER-195R1) (PER-197)
9.315 Seq#380 (NLD-P02-150)	(PER-146)
9.316 Seq#381 (NLD-P02-151)	(PER-195R1) (PER-197)
9.317 Seq#382 (NLD-P02-152)	(PER-195R1) (PER-197)
9.318 Seq#383 (NLD-P02-153)	(PER-146)
9.319 Seq#384 (NLD-P02-154)	(PER-195R1) (PER-197)
9.320 Seq#385 (NLD-P02-155)	(PER-195R1) (PER-197)
9.321 Seq#386 (NLD-P02-156)	(PER-195R1) (PER-197)
9.322 Seq#387 (NLD-P02-157)	(PER-195R1) (PER-197)
9.323 Seq#388 (NLD-P02-158)	(PER-056)
9.324 Seq#389 (NLD-P02-159)	(PER-195R1) (PER-197)
9.325 Seq#390 (NLD-P02-160)	(PER-195R1) (PER-197)
9.326 Seq#391 (NLD-P02-161)	(PER-195R1) (PER-197)

9.327	Seq#392 (NLD-P02-162)	(PER-195R1) (PER-197)
9.328	Seq#393 (NLD-P02-163)	
9.329	Seq#394 (NLD-P02-165)	(PER-195R1) (PER-197)
9.330	Seq#395 (NLD-P02-166)	(PER-195R1) (PER-197)
9.331	Seq#396 (NLD-P02-167)	(PER-195R1) (PER-197)
9.332	Seq#397 (NLD-P02-168)	(PER-195R1) (PER-197)
9.333	Seq#398 (NLD-P02-169)	(PER-195R1) (PER-197)
9.334	Seq#399 (NLD-P02-171)	(PER-195R1) (PER-197)
9.335	Seq#401 (NLD-P02-173)	
9.336	Seq#402 (NLD-P02-174)	
9.337	Seq#403 (NLD-P02-175)	
9.338	Seq#404 (NLD-P02-176)	(PER-171)
9.339	Seq#405 (NLD-P02-177)	
9.340	Seq#406 (NLD-P02-178)	(PER-195R1) (PER-197)
9.341	Seq#407 (NLD-P02-179)	(PER-094)
9.342	Seq#408 (NLD-P02-181)	(PER-195R1) (PER-197)
9.343	Seq#411 (NLD-P02-185)	(PER-195R1) (PER-197)
9.344	Seq#412 (NLD-P02-186)	
9.345	Seq#413 (NLD-P02-187)	
9.346	Seq#414 (NLD-P02-188)	
9.347	Seq#415 (NLD-P02-189)	
9.348	Seq#416 (NLD-P02-190)	
9.349	Seq#417 (NLD-P02-191)	
9.350	Seq#418 (NLD-P02-192)	
9.351	Seq#419 (NLD-P02-194)	
9.352	Seq#420 (SWE-P02-007)	(PER-033)
9.353	Seq#421 (GBR-P02-335)	(PER-170) (PER-176)
9.354	TC for <regular expression>	(PER-097)
9.355	Correcting the specification of data type identity	(PER-101)
9.356	Seq#024a (WG3-P02-001)	(PER-146)
9.357	Seq#024b (WG3-P02-002)	(PER-146)
9.358	Seq#024c (WG3-P02-003)	
9.359	Seq#025a (WG3-P02-004)	(PER-146)
9.360	Seq#026a (WG3-P02-005)	(PER-146)
9.361	Seq#029a (WG3-P02-006)	(PER-146)
9.362	Seq#029b (WG3-P02-007)	(PER-146)
9.363	Seq#029c (WG3-P02-008)	(PER-146)
9.364	Seq#029d (WG3-P02-009)	(PER-146)
9.365	Seq#065a (WG3-P02-010)	(PER-146)
9.366	Seq#065b (WG3-P02-011)	(PER-146)
9.367	Seq#068a (WG3-P02-012)	(PER-195R1) (PER-197)
9.368	Seq#068b (WG3-P02-013)	(PER-195R1) (PER-197)

9.369	Seq#070a (WG3-P02-014)	(PER-146) (PER-160) (PER-174)
9.370	Seq#076a (WG3-P02-015)	(PER-146) (PER-160)
9.371	Seq#095a (WG3-P02-016)	(PER-195R1) (PER-197)
9.372	Seq#420a (WG3-P02-017)	(PER-054R1) (PER-146)
9.373	Seq#420b (WG3-P02-018)	(PER-054R1)
9.374	Seq#420c (WG3-P02-019)	(PER-146)
9.375	Seq#420d (WG3-P02-020)	(PER-146)
9.376	Seq#420e (WG3-P02-021)	(PER-146) (PER-199)
9.377	Seq#420f (WG3-P02-022)	(PER-195R1) (PER-197)
9.378	Seq#420g (WG3-P02-023)	(PER-146)
9.379	Seq#420h (WG3-P02-024)	(PER-146)
9.380	Seq#420i (WG3-P02-025)	(PER-146)
9.381	Seq#159a (WG4-P02-001)	(PER-124)
9.382	Possible Problem with Updatable Cursors	(PER-185)
9.383	SQL:2002 Possible Problems change proposal	(PER-186)
9.384	A MULTISET UNION Language Opportunity	(PER-188)
10	SQL/CLI Topics	
10.1	Seq#422 (NLD-P03-001)	
10.2	Seq#423 (NLD-P03-002)	
10.3	Seq#424 (GBR-P03-010)	Editorial
10.4	Seq#425 (NLD-P03-003)	
10.5	Seq#429 (NLD-P03-006)	(PER-166)
10.6	Seq#431 (NLD-P03-004)	(PER-195R1) (PER-197)
10.7	Seq#432 (NLD-P03-005)	(PER-195R1) (PER-197)
10.8	Updating SQL_LANGUAGES table and the Object Identifier	(PER-164)
11	SQL/PSM Topics	
11.1	Seq#433 (USA-P04-001)	(PER-141)
11.2	Seq#434 (USA-P04-002)	(PER-165)
11.3	Seq#435 (GBR-P04-010)	See Comment
11.4	Seq#436 (USA-P04-003)	See Comment
11.5	Seq#437 (USA-P04-004)	
11.6	Seq#440 (GBR-P04-020)	See Comment (PER-057R1)
11.7	Seq#441 (GBR-P04-030)	See Comment (PER-57R1)
11.8	Seq#442 (USA-P04-005)	
11.9	Seq#443 (GBR-P04-050)	(PER-163R1)
11.10	Seq#444 (GBR-P04-060)	(PER-062R2)
11.11	Seq#446 (JPN-P04-001)	(PER-155R2)
11.12	Seq#447 (NLD-P04-001)	(PER-155R2)
11.13	Seq#448 (GBR-P04-080)	(PER-065)
11.14	Seq#449 (USA-P04-006)	See Comment
11.15	Seq#450 (SWE-P04-001)	(PER-129)
11.16	Seq#451 (GBR-P04-090)	(PER-062R2)
11.17	Seq#452 (GBR-P04-100)	Editorial

11.18	Seq#453 (GBR-P04-110)	
11.19	Seq#454 (GBR-P04-120)	(PER-062R2)
11.20	Seq#455 (GBR-P04-130)	See Comment
11.21	Seq#457 (GBR-P04-150)	See Comment
11.22	Seq#458 (GBR-P04-160)	(PER-172)
11.23	Seq#463 (NLD-P04-002)	(PER-171)
11.24	Seq#464 (NLD-P04-003)	
11.25	Seq#465 (NLD-P04-004)	(PER-195R1)
		(PER-197)
11.26	Seq#466 (NLD-P04-007)	(PER-195R1)
		(PER-197)
11.27	Seq#468 (NLD-P04-010)	
11.28	Seq#469 (NLD-P04-011)	(PER-195R1)
		(PER-197)
11.29	Seq#471 (NLD-P04-013)	
11.30	Seq#472 (NLD-P04-014)	(PER-195R1)
		(PER-197)
11.31	Seq#473 (NLD-P04-015)	(PER-195R1)
		(PER-197)
11.32	Seq#474 (NLD-P04-016)	(PER-171)
11.33	Seq#475 (NLD-P04-018)	(PER-146)
11.34	Seq#476 (NLD-P04-019)	(PER-195R1)
		(PER-197)
11.35	Seq#477 (NLD-P04-020)	(PER-171)
11.36	Seq#478 (NLD-P04-021)	(PER-195R1)
		(PER-197)
11.37	Seq#479 (NLD-P04-023)	(PER-171)
11.38	Seq#480 (NLD-P04-024)	
11.39	Seq#481 (NLD-P04-025)	(PER-146)
11.40	Seq#482 (NLD-P04-026)	(PER-195R1)
		(PER-197)
11.41	Seq#483 (NLD-P04-027)	(PER-195R1)
		(PER-197)
11.42	Seq#486 (NLD-P04-006)	
11.43	Seq#487 (NLD-P04-008)	(PER-017)
11.44	Seq#488 (NLD-P04-017)	(PER-177)
11.45	Seq#489 (NLD-P04-022)	(PER-171)
12 SQL/MED Topics		
12.1	Seq#490 (GBR-P09-010)	Editorial
12.2	Seq#491 (GBR-P09-020)	(PER-136)
12.3	Seq#492 (GBR-P09-030)	(PER-146)
12.4	Seq#493 (GBR-P09-040)	
12.5	Seq#494 (GBR-P09-050)	Editorial
12.6	Seq#495 (CAN-P09-001)	(PER-154)
12.7	Seq#496 (GBR-P09-060)	Editorial
12.8	Seq#497 (CAN-P09-002)	(PER-161)
12.9	Seq#498 (GBR-P09-070)	
12.10	Seq#499 (CAN-P09-003)	(PER-161)
12.11	Seq#500 (GBR-P09-080)	Editorial
12.12	Seq#501 (CAN-P09-004)	(PER-153)
12.13	Seq#502 (USA-P09-003)	(PER-111)
12.14	Seq#503 (USA-P09-001)	
12.15	Seq#505 (USA-P09-005)	
	Seq#506 (USA-P09-006)	
	Seq#507 (USA-P09-007)	

Seq#508 (USA-P09-008)	
Seq#510 (USA-P09-010)	
Seq#511 (USA-P09-004)	(PER-109)
12.16 Seq#509 (USA-P09-009)	(PER-047)
12.17 Seq#512 (GBR-P09-090)	Editorial
12.18 Seq#513 (GBR-P09-110)	
12.19 Seq#514 (GBR-P09-100)	
12.20 Seq#518 (USA-P09-011)	
12.21 Seq#519 (USA-P09-012)	
12.22 Seq#520 (USA-P09-013)	
12.23 Seq#521 (USA-P09-014)	
12.24 Seq#522 (USA-P09-015)	
12.25 Seq#523 (USA-P09-016)	
12.26 Seq#524 (USA-P09-017)	
12.27 Seq#525 (USA-P09-018)	
12.28 Seq#527 (NLD-P09-001)	(PER-195R1)
	(PER-197)
12.29 Seq#528 (NLD-P09-002)	(PER-195R1)
	(PER-197)
12.30 Seq#529 (NLD-P09-003)	(PER-195R1)
	(PER-197)
12.31 Seq#530 (NLD-P09-004)	(PER-195R1)
	(PER-197)
12.32 Seq#531 (NLD-P09-005)	(PER-195R1)
	(PER-197)
12.33 Seq#532 (NLD-P09-006)	(PER-195R1)
	(PER-197)
12.34 Seq#533 (NLD-P09-007)	(PER-195R1)
	(PER-197)
12.35 Seq#534 (NLD-P09-008)	(PER-195R1)
	(PER-197)
12.36 Seq#535 (NLD-P09-009)	(PER-195R1)
	(PER-197)
12.37 Seq#536 (NLD-P09-010)	(PER-113R2)
12.38 Seq#537 (NLD-P09-011)	(PER-195R1)
	(PER-197)
12.39 Seq#538 (NLD-P09-012)	(PER-195R1)
	(PER-197)
12.40 Seq#539 (NLD-P09-013)	(PER-195R1)
	(PER-197)
12.41 Seq#540 (NLD-P09-014)	(PER-195R1)
	(PER-197)
12.42 Seq#541 (NLD-P09-015)	(PER-195R1)
	(PER-197)
12.43 Seq#542 (NLD-P09-016)	(PER-195R1)
	(PER-197)
12.44 Seq#543 (NLD-P09-017)	(PER-195R1)
	(PER-197)
12.45 Seq#544 (NLD-P09-018)	(PER-195R1)
	(PER-197)
12.46 Seq#545 (NLD-P09-019)	(PER-195R1)
	(PER-197)
12.47 Handle vs. descriptor	(PER-048)
12.48 Remove DATA HANDLE	(PER-049)
12.49 Fix editorial bugs	(PER-050)

12.50	Seq#526a (WG4-P02-002)	(PER-123)
13 SQL/OLB Topics		
13.1	Seq#546 (USA-P10-001)	(PER-179R1)
13.2	Seq#547 (NLD-P10-001)	(PER-195R1)
		(PER-197)
13.3	Seq#548 (NLD-P10-002)	(PER-180R1)
		(PER-180R2)
13.4	Seq#549 (NLD-P10-003)	(PER-195R1)
		(PER-197)
13.5	Seq#550 (NLD-P10-004)	(PER-195R1)
		(PER-197)
13.6	Seq#551 (NLD-P10-005)	(PER-195R1)
		(PER-197)
13.7	Seq#552 (NLD-P10-006)	(PER-195R1)
		(PER-197)
13.8	Seq#553 (NLD-P10-007)	(PER-195R1)
		(PER-197)
13.9	Seq#554 (NLD-P10-008)	(PER-195R1)
		(PER-197)
13.10	Seq#555 (NLD-P10-009)	(PER-195R1)
		(PER-197)
13.11	Seq#556 (NLD-P10-010)	(PER-195R1)
		(PER-197)
13.12	Seq#557 (USA-P10-002)	(PER-184)
13.13	Seq#558 (USA-P10-003)	(PER-191)
13.14	Seq#559 (NLD-P10-011)	
13.15	Seq#560 (NLD-P10-012)	(PER-195R1)
		(PER-197)
13.16	Seq#564 (CAN-P10-004)	(PER-167)
13.17	Seq#566 (NLD-P10-019)	
13.18	Seq#567 (NLD-P10-020)	(PER-200)
13.19	Seq#569 (USA-P10-005)	
13.20	Seq#570 (NLD-P10-013)	(PER-195R1)
		(PER-197)
13.21	Seq#571 (NLD-P10-014)	(PER-195R1)
		(PER-197)
13.22	Seq#572 (NLD-P10-015)	(PER-195R1)
		(PER-197)
13.23	Seq#573 (NLD-P10-016)	(PER-146)
13.24	Seq#574 (NLD-P10-017)	(PER-195R1)
		(PER-197)
13.25	Seq#575 (NLD-P10-018)	(PER-195R1)
		(PER-197)
13.26	Removing redundant text from the OLB Conformance Clause	(PER-168)
14 SQL/Schemata Topics		
14.1	Seq#576 (CAN-P11-004)	
	Seq#577 (CAN-P11-005)	
	Seq#578 (CAN-P11-006)	
	Seq#579 (GBR-P11-001)	
	Seq#601 (CAN-P11-007)	(PER-118)
14.2	Seq#580 (NLD-P11-001)	(PER-195R1)
		(PER-197)
14.3	Seq#581 (NLD-P11-002)	(PER-195R1)
		(PER-197)

- 14.4 Seq#582 (USA-P11-001) (PER-193)
- 14.5 Seq#583 (USA-P11-002)
- 14.6 Seq#584 (NLD-P11-003) (PER-140)
- 14.7 Seq#585 (GBR-P11-010) Editorial
- 14.8 Seq#586 (GBR-P11-020) Editorial
- 14.9 Seq#587 (GBR-P11-030) Editorial
- 14.10 Seq#588 (USA-P11-003)
- 14.11 Seq#589 (GBR-P11-040) Editorial
- 14.12 Seq#590 (NLD-P11-004)
- 14.13 Seq#591 (GBR-P11-070) (PER-144)
- 14.14 Seq#592 (NLD-P11-005) (PER-195R1)
(PER-197)
- 14.15 Seq#593 (GBR-P11-080)
- 14.16 Seq#594 (GBR-P11-090) (PER-147)
- 14.17 Seq#595 (GBR-P11-050) (PER-137)
- 14.18 Seq#596 (USA-P11-004) (PER-100R2)
- 14.19 Seq#597 (GBR-P11-060) See Comment
- 14.20 Seq#598 (NLD-P11-006)
- 14.21 Seq#599 (USA-P11-005)
- 14.22 Seq#600 (USA-P11-006)
- 14.23 Seq#602 (CAN-P11-008)
- Seq#603 (GBR-P11-100)
- Seq#604 (CAN-P11-009)
- Seq#605 (CAN-P11-010)
- Seq#606 (DEU-P11-001)
- Seq#607 (CAN-P11-011) (PER-119)
- 14.24 Seq#612 (NLD-P11-007) (PER-195R1)
(PER-197)
- 14.25 Small fixes for the Information schema (PER-051)
- 14.26 Solving the PP's added by PER-118 (PER-148)

15 Resolution of Catch-All Ballot Comments

- 15.1 Seq#017 (CAN-P01-001)
- 15.2 Seq#018 (CAN-P01-002)
- 15.3 Seq#019 (CAN-P01-003)
- 15.4 Seq#020 (USA-P01-005)
- 15.5 Seq#290 (CAN-P02-005)
- 15.6 Seq#291 (CAN-P02-006)
- 15.7 Seq#292 (CAN-P02-007)
- 15.8 Seq#300 (USA-P02-112)
- 15.9 Seq#426 (CAN-P03-001)
- 15.10 Seq#427 (CAN-P03-002)
- 15.11 Seq#428 (CAN-P03-003) (PER-164)
- 15.12 Seq#430 (USA-P03-001)
- 15.13 Seq#459 (CAN-P04-002)
- 15.14 Seq#460 (CAN-P04-003)
- 15.15 Seq#461 (CAN-P04-004) (PER-164)
- 15.16 Seq#462 (USA-P04-007)
- 15.17 Seq#515 (CAN-P09-005)
- 15.18 Seq#516 (CAN-P09-006)
- 15.19 Seq#517 (CAN-P09-007) (PER-164)
- 15.20 Seq#526 (USA-P09-019)
- 15.21 Seq#561 (CAN-P10-001)
- 15.22 Seq#562 (CAN-P10-002)
- 15.23 Seq#563 (CAN-P10-003) (PER-164)
- 15.24 Seq#565 (GBR-P10-010)

- 15.25 Seq#568 (USA-P10-004)
- 15.26 Seq#608 (CAN-P11-001)
- 15.27 Seq#609 (CAN-P11-002)
- 15.28 Seq#610 (CAN-P11-003) (PER-164)
- 15.29 Seq#611 (USA-P11-007)

16 Other Documentation Issues

- 16.1 ITTF Requests Regarding Incremental Part Construction (PER-021)

17 National Body Closing Comments

- 17.1 Australia
- 17.2 Belgium
- 17.3 Brazil
- 17.4 Canada
- 17.5 China
- 17.6 Czech Republic
- 17.7 Denmark
- 17.8 Finland
- 17.9 France
- 17.10 Germany
- 17.11 Italy
- 17.12 Japan
- 17.13 Netherlands
- 17.14 Norway
- 17.15 Republic of Korea
- 17.16 United Kingdom
- 17.17 United States
- 17.18 Austria
- 17.19 Russian Federation
- 17.20 Sweden

18 Recommendations

- 18.1 Preparation of Revised Texts (SD-005)
- 18.2 Disposition of Comments Report
- 18.3 Recommendation Regarding Progression (PER-195R1)
(PER-197)

19 Action Items

20 Adjourn

Appendix B: Document Register

ISO/IEC JTC1/SC32 WG 3 Meeting 30th April – 11th May, 2001 Perth, Western Australia, Australia

Document Prefix: WG3 PER-

No.	Source	Title	Agenda	Avail.?
001	Campbell	Minutes from Helsinki, Finland WG Meeting	WG5.1	Y
002R1	Cannan	Technical Corrigendum #5 WD	WG9.1	Y
003p	Melton	ISO 9075-1 SQL/Framework CD	WG6.14 EM5.3	Y
004p	Melton	ISO 9075-2 SQL/Foundation CD	WG6.15 EM5.4	Y
005p	Melton	ISO 9075-3 SQL/CLI CD	WG6.16 EM5.5	Y
006p	Melton	ISO 9075-4 SQL/PSM CD	WG6.17 EM5.6	Y
007p	Melton	ISO 9075-7 SQL/Temporal WD	WG6.18	Y
008p	Melton	ISO 9075-9 SQL/MED CD	WG6.19 EM5.7	Y
009p	Melton	ISO 9075-10 SQL/OLB CD	WG6.20 EM5.8	Y
010p	Melton	ISO 9075-11 SQL/Schemata CD	WG6.21 EM5.9	Y
011	Melton	ISO 9075-13 SQL/JRT FCD	WG6.22	Y
012	Melton	ISO 9075-14 SQL/XML WD	WG6.23	Y
013	Melton	Consolidated Editors Notes	WG6.24	Y
014	Bartley	Meeting Arrangements	WG6.2 EM5.2	Y
015	USA	Correcting the specification of FLOOR and CEIL functions (H2-2000-570)	EM9.66	Y
016	USA	Bug Fix for dependent SQL-invoked routine (H2-2000-571)	EM9.31	Y
017	USA	Conceptual simplification of type precedence lists (H2-2000-572)	EM11.43	Y
018	USA	Follow-up to SAF-046 and HEL-055 (H2-2000-573)	EM9.104	Y
019	USA	A small correction for object views (H2-2000-574)	EM9.152	Y
020R2	NLD	Invoker's and Definer's rights for Schema Level Routines	EM9.30	Y
021	Melton	ITTF Requests Regarding Incremental Part Construction	EM8.35 EM16.1	Y
022	Melton	Annex A text for Foundation	WG6.15 EM5.4	Y
023	Melton	Annex A text for MED	WG6.20 EM5.7	Y
024	Melton	Annex A text for OLB	WG6.19 EM5.8	Y
025	Melton	Annex A text for Schemata	WG6.21 EM5.9	Y
026	SWE	Swedish Ballot Comments	EM6.20	Y
027	SWE	Non-reserved word parsing problems (a TC-part might be included)	EM9.44	Y
028	SWE	Correcting a <schema definition> parsing problem (included TC-part)	EM9.169	Y
029	SWE	Orthogonality issue in <allocate cursor statement>	EM9.220	Y
030	SWE	Orthogonality issue in statement codes (included TC-part)	EM9.227	Y
031	SWE	Fixing Annex E	EM9.238	Y
032	SWE	Use the Unicode General Category classification	EM9.250	Y
033	SWE	Extend the time zone displacement range	EM9.352	Y
034	SWE	Reduce the number of <reserved word>s	EM9.45	Y
035	NLD	Netherlands Ballot Comments	EM6.13	Y
036	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-1 (SQL/Framework)	EM6.4	Y

No.	Source	Title	Agenda	Avail.?
037	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-2 (SQL/Foundation)	EM6.4	Y
038	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-3 (SQL/CLI)	EM6.4	Y
039	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-4 (SQL/PSM)	EM6.4	Y
040	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-9 (SQL/MED)	EM6.4	Y
041	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-10 (SQL/OLB)	EM6.4	Y
042	CAN	Canadian Ballot Comments for ISO/IEC CD 9075-11 (SQL/Schemata)	EM6.4	Y
043	USA	USA comments on CD 9075-1, -2, -3, -4, -9, -10, and -11 (H2-2001-012r2)	EM6.17	Y
044R1	USA	Fixes and enhancements to grouping (H2-2000-619)	EM9.84	Y
045	USA	Small fix for <drop data type statement> (H2-2001-015)	EM9.168	Y
046	USA	Correction for <row value expression> (H2-2001-022)	EM9.75	Y
047	USA	Define previously undefined symbols (H2-2001-016)	EM12.16	Y
048	USA	Handle vs. descriptor (H2-2001-017)	EM12.47	Y
049	USA	Remove DATA HANDLE H2-2001-018)	EM12.48	Y
050	USA	Fix editorial bugs (H2-2001-019)	EM12.49	Y
051	USA	Small fixes for the Information schema (H2-2001-020)	EM14.25	Y
052R1	DEU	German CD comments on 9075	EM6.10	Y
053R1	Melton	Consolidated Ballot Comments	EM5.17	Y
054R1	Sykes	SQL support for the Universal Character Set	EM8.4, EM8.6 EM8.30 EM9.2 EM9.372 EM9.373	Y
055	GBR	UK CD Ballot Comments	EM6.16	Y
056	Darwen	Generated Columns	EM9.194 EM9.245	Y
057R1	Darwen	Addressing Problems with <identifier chain>	EM9.58 EM9.81 EM11.6 EM11.7	Y
058R1	Darwen	Addressing Problems with <set function specification>	EM9.64 EM9.65	Y
059R1	Darwen	Allowing Outer References in <select list>s	EM9.89	Y
060	Darwen	TC for null returned by type preserving function	EM9.121	N
061	Darwen	Nested Savepoint Levels	EM9.217	Y
062R2	Darwen	Addressing problems with exception handling	EM9.187 EM9.188 EM911.10 EM11.16 EM11.19	Y
063	Darwen	Rearranging General Rules for RESIGNAL	EM11.18	Y
064	Darwen	Qualifying Parameter and Variable References	EM9.57	Y
065	Darwen	Correcting an Incompatibility in <for statement>	EM11.13	Y
066	JPN	Japan Ballot Comments on CD 9075:200n	EM6.12	Y
067	Sykes	Updating terminology for Feature F691, "Collation and translation"	EM8.36 EM9.3	Y
068	Karlsson	Comments on CD 9075-1, SQL/Framework, of October 2000	EM6.20	Y
069	Karlsson	Comments on CD 9075-2, SQL/Foundation, of October 2000	EM6.20	Y
070	Campbell	XML Query Requirements	WG8.1	Y
071	Campbell	XML Query Data Model	WG8.2	Y
072	Campbell	XML Query Use Cases	WG8.3	Y
073	Campbell	XML Query Algebra	WG8.4	Y
074	Campbell	XQuery: A Query Language for XML	WG8.5	Y
075	Campbell	XML Protocol Requirements	WG8.6	Y
076	Campbell	XML Schema Requirements	WG8.7	Y
077	Campbell	XML Schema Part 0: Primer	WG8.8	Y
078	Campbell	XML Schema Part 1: Structures	WG8.9	Y
079	Campbell	XML Schema Part 2: Datatypes	WG8.10	Y

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No.	Source	Title	Agenda	Avail.?
080	SC32	Results of SC32 Ballot on CD 9075/1-SQL/Framework	EM5.10	Y
081	SC32	Results of SC32 Ballot on CD 9075/2-SQL/Foundation	EM5.11	Y
082	SC32	Results of SC32 Ballot on CD 9075/3-SQL/CLI	EM5.12	Y
083	SC32	Results of SC32 Ballot on CD 9075/4-SQL/PSM	EM5.13	Y
084	SC32	Results of SC32 Ballot on CD 9075/9-SQL/MED	EM5.14	Y
085	SC32	Results of SC32 Ballot on CD 9075/10-SQL/OLB	EM5.15	Y
086	SC32	Results of SC32 Ballot on CD 9075/11-SQL/Schemata	EM5.16	Y
087	Cannan	Calling notice for CD Editing Meeting (SC32 N00610)	EM5.1	Y
088	JTC1	Maintenance of ISs developed by SC1	WG21.1	Y
089	Darwen	TC for null returned by type preserving function	EM9.121	Y
090	Darwen	Addressing problems with identity columns	EM9.135	Y
091	Darwen	Addressing problems with <all fields reference>	EM9.88	Y
092	Darwen	Multiple Assignment	EM9.129 EM9.199	Y
093	Cannan	Minutes from E3A WG Meeting	WG5.2	Y
094	Sykes	Unfinished business from CWB-051, re. SQL_TEXT - Proposal for Editing meeting	EM9.341	Y
095	Sykes	Changes to Schemata CD for character sets - Proposal for Editing meeting	EM8.22, EM8.30 EM9.17, EM9.54	Y
096	Sykes	Notes on Comments #40 (GBR-P02-030) and #77 (USA-P02-022) - Discussion for Editing meeting	EM8.22, EM9.17, EM9.54	Y
097	Persson	TC for <regular expression>	EM9.354	Y
098R1	USA	Restoring multisets (H2-2001-059)	EM9.12, EM9.13, EM9.244 EM9.306 EM9.371	Y
099	USA	<subtype treatment> for references (H2-2001-061)	EM9.70	Y
100R2	USA	Addressing comment #596 (USA-P11-004) (H2-2001-062)	EM14.18	Y
101	USA	Correcting the specification of data type identity (H2-2001-082)	EM9.355	Y
102	USA	Prepare enhancements (H2-2001-083)	EM9.218	Y
103	USA	BIGINT (H2-2001-084)	EM9.48	Y
104	USA	Enhancements for CREATE TABLE LIKE (H2-2001-085)	EM9.136	Y
105	USA	Against comment #182 (GBR-P02-310) (H2-2001-110)	EM9.145	Y
106	USA	Reorganizing Clause 6, Scalar Expressions (H2-2001-111)	EM8.38	Y
107	USA	Deleting the bit types (H2-2001-115)	EM9.46 EM9.69	Y
108R1	USA	Relaxing restrictions on IN and OUT parameters (H2-2001-116)	EM9.170	Y
109	USA	Implementation-defined elements for SQL/MED (H2-2001-041)	EM12.15	Y
110	USA	Fixes to error handling in SQL/MED (H2-2001-057)	EM12.14	Y
111	USA	Getting OUT: parameter handling in SQL/MED (H2-2001-058)	EM12.13	Y
112	Brown, P	Alternative to the PER-015 correction to the specification of FLOOR and CEIL functions	EM9.66	Y
113R2	Brown, G	Foreign Tables Without Wrappers	EM12.37	Y
114	USA	Analysis of SQL3 collection type comments (H2-2001-060)	EM9.13	Y
115	Kreyss	Removing a spurious paragraph and GR	EM9.37, EM9.38, EM9.39	Y
116	Kreyss	Addressing miscellaneous comments about predicates	EM9.10, EM9.101, EM9.102, EM9.106, EM9.109, EM9.110, EM9.111, EM9.112, EM9.113	Y

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No.	Source	Title	Agenda	Avail.?
117	Kulkarni	Closing miscellaneous Foundation and PSM comments (H2-2001-132)	EM9.49	Y
118	Cannan	Resolving some simple Schemata comments	EM14.1	Y
119	Cannan	Resolving the Schemata conformance comments	EM14.23	Y
120	Purtz	Possible Problems with mappings between XML and SQL	WG20.1	Y
121	Purtz	An Extension to the Transaction Model	WG20.2	Y
122	Purtz	New Application Package 13249-x: XML_TYPE	WG20.3	Y
123	WG4	Removing restrictions on Datalink	EM12.50	Y
124	WG4	A ballot comment to 9075-2 from WG4	EM9.381	Y
125	Zemke	Amendments to PER-057	EM9.58	Y
126R2	Zemke	Fixing BOOLEAN ambiguities	EM9.72, EM9.73, EM9.99, EM9.103, EM9.108	Y
127	Darwen	Preventing a Type from being a proper supertype of itself	EM9.160	Y
128	Darwen	Deleting Definition of Nonreferentially Based	EM9.5	Y
129	Persson	Resolving #450	EM11.15	Y
130	Darwen	Deletion of SQL-statements that Possibly Contain SQL	EM9.35	Y
131R1	Kaufman	Distinct types and <instantiable clause>	EM9.165	Y
132R1	Schwenkreis	Response to instances of user-defined types (DEU-P01-002)	EM8.13	Y
133	Schwenkreis	Response to client modules and SQL-Agent (DEU-P01-003)	EM8.15	Y
134R2	Zemke	Response to PER-091	EM9.88	Y
135	Cannan	Minor rewording of collation in Framework	EM8.23	Y
136	Murray	Removal of unreferenced normative references	EM12.2	Y
137	Darwen	Clarifying default value	EM14.17	Y
138	Bartley	Resolving Seq#010 Locators, 011 Descriptor area both in Framework	EM8.24, EM8.25	Y
139	Kreyss	Proposed locations for WG3 2003	WG23.4	Y
140	Cannan	Fixing PP SCHERM-003 (HEL-075)	EM14.6	Y
141	Ashworth	Fixing Part merge instructions in PSM 4.2 SQL-invoked routine	EM11.1	Y
142	Kaufman	Keyword ordering for create type	EM9.161	Y
143	Kulkarni	Addressing USA-P02-058	EM9.122	Y
144	Darwen	Adding a constraint to the Info-schema	EM14.13	Y
145	Kreyss	Adding syntax rule to prohibit NOT INSTANSIABLE FINAL	EM9.163	Y

No.	Source	Title	Agenda	Avail.?
146	Melton	Resolutions by the dozen	EM8.12, EM8.17, EM8.18, EM8.29 EM8.30, EM8.37, EM8.39, EM9.18, EM9.22, EM9.41, EM9.50, EM9.83, EM9.154, EM9.156, EM9.263, EM9.265, EM9.272, EM9.273, EM9.278, EM9.280, EM9.286, EM9.291, EM9.303, EM9.315, EM9.318, EM11.39, EM12.3, EM13.23, EM9.356, EM9.357, EM 9.359, EM9.360, EM9.361, EM9.362, EM9.363, EM9.364, EM9.365, EM9.366, EM9.369, EM9.370, EM9.372, EM9.374, EM9.375, EM9.376, EM9.378, EM9.379, EM9.380, EM11.33	Y
147	Darwen	Standard collation names	EM14.16	Y
148	Cannan	Solving the PP's added by PER-118	EM14.26	Y
149	Shiratori	Correction to SET clause	EM9.129, EM9.199	Y
150	Kulkarni	Cleanup of <dereference operation>	EM9.63	Y
151	Zemke	The comments on functional dependencies	EM9.24, EM9.25, EM9.26	Y
152	Kulkarni	Cleanup of <subtype treatment>	EM8.12 EM9.71	Y
153	Murray	Removal of unnecessary exceptions from P09 21.2	EM12.12	Y
154	Darwen	Read Permission DB means SQL-medicated	EM12.6	Y
155R2	土田 Tsuchida	Amendment to <target specification> and <assignment statement>	EM9.56, EM11.11, EM11.12	Y
156	Michels	Fixing <explicit table>	EM9.94, EM9.97	Y
157R1	Kreyss	Cleanup of definition of non-doublequote character	EM9.43	Y

No.	Source	Title	Agenda	Avail.?
158	Michels	Addressing USA-P02-042	EM9.91	Y
159	Darwen	Another immediate containment problem	EM9.96	Y
160	Zemke	Further thoughts on PER-146	EM8.12 EM8.18 EM9.18, EM9.22 EM9.83 EM9.369 EM9.370	Y
161	Darwen	Addressing minor problems with datalinks	EM12.8, EM12.10	Y
162	Darwen	Addressing problems with Successful Completion	EM9.226	Y
163R1	Darwen	Addressing Problems with Statement Atomicity	EM9.185, EM11.9	Y
164	Cannan	Updating SQL_LANGUAGES table and the Object Identifier	EM10.8 EM15.11 EM15.15 EM15.19 EM15.23 EM15.28	Y
165	Cannan	Fixing Part merge instructions in PSM 4.4 Tables	EM11.2	Y
166	Cannan	Making use of the ROWS_PROCESSED_POINTER in CLI	EM10.5	Y
167	Cannan	Removing temporary CLI updates from OLB	EM13.16	Y
168	Cannan	Removing redundant text from the OLB Conformance Clause	EM13.26	Y
169	Darwen	Admitting a FK may be composite	EM9.149	Y
170	Darwen	Putting in some colons	EM9.353	Y
171	Kulkarni	Closing more miscellaneous comments	EM8.32, EM8.33, EM9.16, EM9.33, EM9.36, EM9.42, EM9.74, EM9.92, EM9.173, EM9.209, EM9.338, EM11.23, EM11.32, EM11.35, EM11.37, EM11.44, EM11.45	Y
172	Darwen	Bringing <signal statement> into the Modern World	EM11.22	Y
173R1	Cannan	Fixing some problems with grant and revoke	EM9.178, EM9.181, EM9.182 EM9.183	Y
174	Zemke	The source language character set	EM9.43, EM9.369	Y
175	Darwen	Putting general containment to good use	EM9.200	Y
176	Zemke	Host bindings for Booleans and LOBs	EM9.114 EM9.115 EM9.189 EM9.190 EM9.353	Y
177	Kulkarni	Addressing #168, #237, and #239	EM9.131, EM9.195, EM9.197	Y
178	小寺 Kotera	Closing SEQ#255	withdrawn	N
179R1	Campbell	Response to USA-P10-001 Reference to JDBC 3.0	EM13.1	Y
180R2	Campbell	Response to NLD-P10-002, Require DBMS support for UNICODE.	EM13.3	Y
181	Michels	Cleanup of type precedence list for Ref types	EM9.118	Y

No.	Source	Title	Agenda	Avail.?
182	Michels	Defining updatable columns for a base table	EM9.126	Y
183	Darwen	A Correction to PER-028	EM9.169	Y
184	Campbell	Response to USA-P10-002 rules regarding parameter mode determination in Subclause 10.6.6	EM13.12	Y
185	Darwen	Possible Problem with updateable cursor	EM9.382	Y
186	Darwen	TREAT for Rows and Collections	EM9.383	Y
187	Zemke	An alternative solution for #096	EM9.67	Y
188	Darwen	A MULISET UNION Language Opportunity	EM9.384	Y
189	Kostamaa	Addressing Comment 211	EM9.173	Y
190	Kreyss	Optional Transaction mode for <start transaction statement>	EM9.216	Y
191	Campbell	Update in (OLB-WD) in 4.22.8 Cursor declaration to resolve Seq#558	EM13.13	Y
192	Piprani	USECASE: An Automated Data Warehouse based on SQL Standard Based Architecture	WG8.11	Y
193	Piprani	Fix Seq#282 + Misc Schema Fix	EM14.4	Y
194	小寺 Kotera	Closing Seq#222	EM9.184	Y
195R1	Kreyss	Closing of the language opportunity ballot comments with no action	EM18.3	Y
196	Campbell	Closing PER-053R2 Sequence Number 569 as a Language Opportunity	EM13.19	Y
197	USA	USA position on LO-type comments	EM18.3	Y
198	Murray	Using numeric literals with overloaded routines	EM9.47	Y
199	Melton	Unicode Escape Sequences for SQL	EM9.376	Y
200	Campbell	Investigate HEL-044R1's <merge statement> for impact on SQL/OLB	EM13.18	Y
201	Bartley	Resolving Seq#027	EM9.4	Y