

ITALY

Lack of Experts

National Body CAN Comments — 2005-02-03

32N1198, ISO/IEC CD 9075-01 Information technology - Database Languages - SQL - Part 1: Framework (SQL/Framework)
 32N1199, ISO/IEC CD 9075-02 Information technology - Database Languages - SQL - Part 2: Foundation (SQL/Foundation)
 32N1201, ISO/IEC CD 9075-03 Information technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI)
 32N1202, ISO/IEC CD 9075-04 Information technology - Database Languages - SQL - Part 4: Persistent Stored Modules (SQL/PSM)
 32N1203, ISO/IEC CD 9075-09 Information technology - Database Languages - SQL - Part 9: Management of External Data (SQL/MED)
 32N1204, ISO/IEC CD 9075-10 Information technology - Database Languages - SQL - Part 10: Object language bindings (SQL/OLB)
 32N1205, ISO/IEC CD 9075-11 Information technology - Database Languages - SQL - Part 11: Information and Definition Schemas (SQL/Schemata)
 32N1206, ISO/IEC CD 9075-13 Information technology - Database Languages - SQL - Part 13: SQL Routines and Types Using the Java™ Programming Language (SQL/JRT)

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
CD SQL/Framework						
	CAN-P01-001		1-Major Technical	<i>P01-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/Foundation						
	CAN-P02-001		1-Major Technical	<i>P02-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/CLI						
	CAN-P03-001		1-Major Technical	<i>P03-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/PSM						
	CAN-P04-001		1-Major Technical	<i>P04-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.	

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
					None provided with comment. Solution	
CD SQL/MED						
	CAN-P09-001		1-Major Technical	<i>P09-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/OLB						
	CAN-P10-001		1-Major Technical	<i>P10-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/Schemata						
	CAN-P11-001		1-Major Technical	<i>P11-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
CD SQL/JRT						
	CAN-P13-001		1-Major Technical	<i>P13-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	

ISO/IEC JTC1/SC32/WG3:TXL-034 – DIN NI-32 N 0642

Authoritative Version: Adobe Acrobat Portable Document Format (PDF)



ISO

International Organization for Standardization

DIN

Deutsches Institut für Normung

Din NI-32

Database

ISO/IEC JTC 1/SC 32

Data Management and Interchange

WG 3

Database Languages

Title: German Comments on SC32 N 1156: ISO/IEC CD 9075-1, 2, 3, 4, 9, 10, 11, 13:200x(E)

Status: Consolidated comments to assist with resolution of CD ballot comments

Author: Jörn Bartels (Germany)

National Body DEU Comments — 2005-03-08

SEQ #	Cmn t ID	See Als o	Severity	Reference	Description	Addressed By
ISO/IEC FCD 9075-01:200x(E) SQL/Framework						
1	DEU-P01-010		1-Major Technical	<i>P01-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
ISO/IEC FCD 9075-02:200x(E) SQL/Foundation						
2	DEU-P02-010		1-Major Technical	<i>P02-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
3	DEU-P02-020		1-Major Technical	<i>P02-07.6 Table reference</i>	Queries of the form SELECT ... FROM <joined table> Do not seem to be supported anymore. This is due to changes proposed in DRS-077. Solution None provided with comment.	
ISO/IEC FCD 9075-03:200x(E) SQL/CLI						
4	DEU-P03-010		1-Major Technical	<i>P03-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
ISO/IEC FCD 9075-04:200x(E) SQL/PSM						
5	DEU-P04-010		1-Major Technical	<i>P04-No specific location</i>	All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved. Solution None provided with comment.	
6	DEU-P11-020	DEU-P11-030	1-Major Technical	<i>P04-18.2 "MODULE_PRIVILEGES" Table</i>	The table MODULE_PRIVILEGES stores the privileges granted on a specific module. The same information could be stored in the table USAGE_PRIVILEGES. This would simplify the definition schema and standardise the way, how privileges are stored. Solution None provided with comment.	
7	DEU-P11-030	DEU-P11-020	1-Major Technical	<i>P04-18.2 "MODULE_PRIVILEGES" Table</i>	The constraint MODULE_PRIVILEGE_GRANTOR_CHECK and MODULE_PRIVILEGE_GRANTEE_CHECK reference still the tables ROLES and USERS. They are gone!	

SEQ #	Cmn t ID	See Also	Severity	Reference	Description	Addressed By
					<p align="center">Solution</p> <p>Replace the check constraints with a foreign key on AUTHORIZATIONS.</p>	
ISO/IEC FCD 9075-09:200x(E) SQL/MED						
8	DEU-P09-010		1-Major Technical	<i>P09-No specific location</i>	<p>All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.</p> <p align="center">Solution</p> <p>None provided with comment.</p>	
9	DEU-P09-020		2-Minor Technical	<i>P09-25 Definition Schema</i>	<p>Some tables which are introduced by this clause have for most columns no NOT NULL constraint, where it should be defined. This are at least 25.4 FOREIGN_DATA_WRAPPERS base table, 25.8 FOREIGN_TABLES base table and 25.10 ROUTINE_MAPPINGS base table</p> <p align="center">Solution</p> <p>None provided with comment.</p>	
10	DEU-P09-030		3-Major Editorial	<i>P09-25.2 DATA_TYPE_DESCRIPTOR" table</i>	<p>The constraint DATA_TYPE_DESCRIPTOR_DATA_TYPE_CHECK_COMBINATIONS is entirely replaced. This leads to problems of desynchronisation with SQL/Schemata. It does also not allow modifications from other parts (like SQL/XML) of the standard.</p> <p>The constraint does also currently not check the NULL applicability of the columns, as described in Description 2), which are inserted by this constraint.</p> <p align="center">Solution</p> <p>None provided with comment.</p>	
11	DEU-P09-040		3-Major Editorial	<i>P09-25.2 DATA_TYPE_DESCRIPTOR" table</i>	<p>The Descriptions 2) and 3) are in conflict with each other. They describe both the NULLability of the newly introduced columns. There is a conflict if both come to different results.</p> <p align="center">Solution</p> <p>The Descriptions 2) and 3) should be merged.</p>	
12	DEU-P09-050		2-Minor Technical	<i>P09-25.4 "FOREIGN_DATA_WRAPPERS" table</i>	<p>There is no constraint, which verifies the existence of the catalog and the authorization Identifier, which is used.</p> <p align="center">Solution</p> <p>None provided with comment.</p>	
13	DEU-P09-060		2-Minor Technical	<i>P09-25.6 "FOREIGN_SERVERS" table</i>	<p>There is no constraint, which verifies the existence of the catalog and the authorization Identifier, which is used.</p> <p align="center">Solution</p> <p>None provided with comment.</p>	
14	DEU-P09-070		2-Minor Technical	<i>P09-25.12 "TABLES" table</i>	<p>There is no constraint, which verifies that for a FOREIGN table there is also an entry in the table FOREIGN_TABLES. This could be done as it is done already in constraint TABLES_CHECK_NOT_VIEW of the table TABLES.</p>	

SEQ #	Cmn t ID	See Also	Severity	Reference	Description	Addressed By
					Solution None provided with comment.	
15	DEU-P09-080		2-Minor Technical	<i>P09-25.13 "USAGE_PRIVILEGES" table</i>	<p>There is no constraint added, which checks the values of OBJECT_CATALOG and OBJECT_NAME as described in Description 1)</p> <p>There is also no modification of the constraint USAGE_PRIVILEGES_CHECK_REFERENCES_OBJECT which allows OBJECT_SCHEMA to be the empty string.</p> <p>It is currently also not allowed, that the OBJECT_TYPE is anything except 'DOMAIN', 'CHARACTER SET', 'COLLATION', 'TRANSLATION', 'SEQUENCE'. The use for a foreign-data wrapper or a foreign server requires a modification of constraint USAGE_PRIVILEGES_OBJECT_TYPE_CHECK.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
16	DEU-P09-090		2-Minor Technical	<i>P09-25.15 "USER_MAPPINGS" table</i>	<p>There is no foreign key check for the column AUTHORIZATION_IDENTIFIER.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
ISO/IEC FCD 9075-10:200x(E) SQL/OLB						
17	DEU-P10-010		1-Major Technical	<i>P10-No specific location</i>	<p>All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
ISO/IEC FCD 9075-11:200x(E) SQL/Schemata						
18	DEU-P11-010		1-Major Technical	<i>P11-No specific location</i>	<p>All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
19	DEU-P11-020		1-Major Technical	<i>P11-No specific location</i>	<p>It is not clear, which tables should have a direct or indirect relationship to the table SCHEMATA. For some tables is a foreign key defined, for some is a check constraint defined, which checks the foreign key relationship only when there are schemas in the same catalog.</p> <p>There should be an explanation for this distinction and all relationships need to be checked for correctness.</p> <p>An example for a dubious relationship is the constraint TRIGGERS_REFERENCES_TABLES. Is it really possible, to define a trigger on a table of another catalog. This is especially strange, as the table</p>	

SEQ #	Cmn t ID	See Also	Severity	Reference	Description	Addressed By
					TRIGGERED_UPDATE_COLUMNS has a direct foreign key to COLUMNS. Solution None provided with comment.	
20	DEU-P11-030		3-Major Editorial	P11-5.54 Short name views	The View definitions in 5.54 Short name views should be sorted according to the order of the base views (i.E. position of CONSTR_COL_USAGE). Solution Order them according to base view order.	
21	DEU-P11-040		2-Minor Technical	P11-5.78 "SQL_LANGUAGES" View	The View SQL_LANGUAGES is deprecated. In Note 6 is a reference to SQL/Framework Subclause 6.4. There is a backwards reference, in Note 9, which says "The equivalent information is available to the SQL user in the Information Schema." When we delete the view, it is not clear if the Note 9 should also be deleted. Solution None provided with comment.	
22	DEU-P11-050		2-Minor Technical	P11-6.9 "CHARACTER_ENCODING_FORMS" Table	The NOT NULL Constraints are not needed, as all columns are part of the primary key. Solution Delete the NOT NULL constraints.	
23	DEU-P11-060		2-Minor Technical	P11-6.10 "CHARACTER_REPERTOIRES" Table	The NOT NULL Constraints on the column CHARACTER_REPERTOIRE_NAME is not needed, as the column is part of the primary key. Solution Delete the NOT NULL constraint.	
24	DEU-P11-070		4-Minor Editorial	P11-6.11 "CHARACTER_SETS" Table	The column NUMBER_OF_CHARACTERS is in the last Edition of the Standard deprecated and should now be deleted. Solution Delete the column. Do the same in the View Definition 5.12 CHARACTER_SETS view and in 5.78 Short name views in the view CHARACTER_SETS_S. Delete the corresponding List Elements 1) and 2) in Annex C.	
25	DEU-P11-080		2-Minor Technical	P11-6.16 "COLLATIONS" Table	There is no constraint for the column CHARACTER_REPERTOIRE_NAME defined. It needs to reference the Table CHARACTER_REPERTOIRES. Solution Add the constraint COLLATIONS_FOREIGN_KEY_CHARACTER_REPERTOIRES FOREIGN KEY (CHARACTER_REPERTOIRES) REFERENCES CHARACTER_REPERTOIRES.	
26	DEU-P11-090		4-Minor Editorial	P11-6.16 "COLLATIONS" Table	The columns COLLATION_TYPE, COLLATION_DICTIONARY, and COLLATION_DEFINITION are in the last edition of the Standard deprecated and should now be deleted. Solution Delete the columns. Do the same in the View Definition 5.15 COLLATIONS view and in 5.78 Short name views in the view COLLATIONS_S. Delete the corresponding List Elements 3) and 4) in Annex C.	

SEQ #	Cmn ID	See Also	Severity	Reference	Description	Addressed By
27	DEU-P11-100		2-Minor Technical	P11-6.16 "COLLATIONS" Table	<p>The column PAD_ATTRIBUTE has no NOT NULL check constraint, even that there is in the description no explanation of the meaning of a possible NULL value.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
28	DEU-P11-110		2-Minor Technical	P11-6.20 "COLUMNS" Table	<p>For the columns IS_GENERATED and IDENTITY_GENERATION are no check constraints specified, but in the description are Lists of allowed values.</p> <p style="text-align: center;">Solution</p> <p>Add to the column IS_GENERATED the following column level constraint: CONSTRAINT COLUMNS_IS_GENERATED_CHECK CHECK (IS_GENERATED in ('NEVER', 'ALWAYS'))</p> <p>Add to the column IDENTITY_GENERATION the following column level constraint: CONSTRAINT COLUMNS_IDENTITY_GENERATION_CHECK CHECK (IDENTITY_GENERATION IN ('ALWAYS', 'BY DEFAULT'))</p>	
29	DEU-P11-120		2-Minor Technical	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	<p>The constraint DATA_TYPE_DESCRIPTOR_FOREIGN_KEY_SCHEMATA assures that the values of USER_DEFINED_TYPE_CATALOG and USER_DEFINED_TYPE_SCHEMA have corresponding rows in the table SCHEMATA. The constraint DATA_TYPE_DESCRIPTOR_CHECK_REFERENCES_UDT allows that the value for the column USER_DEFINED_TYPE_CATALOG has no corresponding row in SCHEMATA. As this is not possible according to the first constraint, we could rewrite this constraint as a foreign key.</p> <p>It is not clear, if this is intended.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
30	DEU-P11-130		2-Minor Technical	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	<p>The columns SCOPE_CATALOG, SCOPE_SCHEMA, and SCOPE_NAME are not checked against the possible values in the table TABLES.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
31	DEU-P11-140		4-Minor Editorial	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	<p>The constraint DATA_TYPE_DESCRIPTOR_CHECK_OBJECT_TYPE should be a column constraint, as it references only the column OBJECT_TYPE.</p> <p style="text-align: center;">Solution</p> <p>Remove the preceding comma.</p>	
32	DEU-P11-150		4-Minor Editorial	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	<p>In the constraint DATA_TYPE_DESCRIPTOR_CHECK_REFERENCES_COLLATION_CHARACTER_SET_APPLICABILITY should be a comma "," at the end of the 10th line of the constraint.</p> <p style="text-align: center;">Solution</p> <p>Add the missing comma.</p>	
33	DEU-P11-		2-Minor Technical	P11-6.24 "DOMAIN_CONSTRAINTS" Table	<p>Should there be a NOT NULL check constraint for the columns IS_DEFERRABLE and INITIALLY_DEFERRED?</p>	

SEQ #	Cmn t ID	See Also	Severity	Reference	Description	Addressed By
	160				In the description is no explanation of the meaning of a possible null value. Solution None provided with comment.	
34	DEU-P11-170		2-Minor Technical	P11-6.31 "PARAMETERS" Table	The foreign key constraint PARAMETERS_FOREIGN_KEY_SCHEMATA does not check the name of the routine. This constraint should be removed and instead there should be a foreign key to ROUTINES be defined. Solution None provided with comment.	
35	DEU-P11-180		2-Minor Technical	P11-6.31 "PARAMETERS" Table	There needs to be a unique constraint defined, which guarantees the uniqueness of a parameter name for a routine. Solution Add the constraint: CONSTRAINT PARAMETERS_UNIQUE_CHECK (UNIQUE SPECIFIC_CATALOG, SPECIFIC_SCHEMA, SPECIFIC_NAME, PARAMETER_NAME)	
36	DEU-P11-190		2-Minor Technical	P11-6.31 "PARAMETERS" Table	For the columns FROM_SQL_SPECIFIC_CATALOG, FROM_SQL_SPECIFIC_SCHEMA, and FROM_SQL_SPECIFIC_NAME and TO_SQL_SPECIFIC_CATALOG, TO_SQL_SPECIFIC_SCHEMA, and TO_SQL_SPECIFIC_NAME is no foreign key check defined. Solution None provided with comment.	
37	DEU-P11-200		1-Major Technical	P11-6.36 "ROUTINE_PRIVILEGES" Table	The table ROUTINE_PRIVILEGES stores the privileges granted on a specific routine. The same information could be stored in the table USAGE_PRIVILEGES. This would simplify the definition schema and standardise the way, how privileges are stored. Solution None provided with comment.	
38	DEU-P11-210		2-Minor Technical	P11-6.41 "SCHEMATA" Table	For the columns DEFAULT_CHARACTER_SET_CATALOG, DEFAULT_CHARACTER_SET_SCHEMA and DEFAULT_CHARACTER_SET_NAME is a foreign key referencing the table CHARACTER_SETS missing. Solution Add the missing Foreign Key constraint: CONSTRAINT SCHEMATA_FOREIGN_KEY_CHARACTER_SETS FOREIGN KEY (DEFAULT_CHARACTER_SET_CATALOG, DEFAULT_CHARACTER_SET_SCHEMA, DEFAULT_CHARACTER_SET_NAME) REFERENCES CHARACTER_SETS	
39	DEU-P11-		4-Minor Editorial	P11-6.48 "TABLE_CONSTRAINTS" Table	The constraint TABLE_CONSTRAINTS_UNIQUE_CHECK is not needed, as the uniqueness of the constraint name is already checked by the assertion UNIQUE_CONSTRAINT_NAME in subclause 6.4	

SEQ #	Cmn t ID	See Also	Severity	Reference	Description	Addressed By
	220				<p>Solution</p> <p>A possible solution is to remove the superfluous constraint.</p>	
40	DEU-P11-230		4-Minor Editorial	P11-6.50 "TABLE_PRIVILEGES" Table	<p>In the constraint TABLE_PRIVILEGES_TYPE_CHECK is the last element of the inlist misspelled. It should be <u>REFERENCES</u> instead of EFERENCES</p> <p>Solution</p> <p>Fix the typo.</p>	
41	DEU-P11-240		4-Minor Editorial	P11-6.54 "TRIGGERED_UPDATE_COLUMNS" Table	<p>The constraint TRIGGERED_UPDATE_COLUMNS_FOREIGN_KEY_TRIGGERS is not needed, as a more restrictive relationship is already guaranteed by constraint TRIGGERED_UPDATE_COLUMNS_EVENT_MANIPULATION_CHECK.</p> <p>Solution</p> <p>A possible solution is to remove the superfluous constraint.</p>	
42	DEU-P11-250		2-Minor Technical	P11-6.55 "TRIGGER_COLUMN_USAGE" Table	<p>The table TRIGGER_COLUMN_USAGE should have a foreign Key to the table TRIGGER_TABLE_USAGE, and not to TRIGGERS.</p> <p>Solution</p> <p>Add the following constraint: TRIGGER_COLUMN_USAGE_FOREIGN_KEY_TRIGGER_TABLE_USAGE FOREIGN KEY (TABLE_CATALOG, TABLE_SCHEMA, TABLE_NAME) REFERENCES TRIGGER_TABLE_USAGE It might be possible to remove the constraint TRIGGER_COLUMN_USAGE_FOREIGN_KEY_TRIGGERS.</p>	
43	DEU-P11-260		2-Minor Technical	P11-6.62 "USER_DEFINED_TYPES" Table	<p>In the last query of the constraint USER_DEFINED_TYPES_CHECK_SOURCE_TYPE is the column OBJECT_TYPE not in the reference List of the IN clause.</p> <p>Solution</p> <p>None provided with comment.</p>	
44	DEU-P11-270		2-Minor Technical	P11-Appendix C 6)	<p>The columns FEATURE_ID and FEATURE_NAME of the view SQL_PACKAGES are in the last Edition of the Standard deprecated and should now be deleted. But without these columns does the view not provide any usefull information. Should the entire View be deleted?</p> <p>Solution</p> <p>None provided with comment.</p>	
ISO/IEC FCD 9075-13:200x(E) SQL/JRT						
45	DEU-P13-010		1-Major Technical	P13-No specific location	<p>All Possible Problems and Editor's Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.</p> <p>Solution</p> <p>None provided with comment.</p>	

END OF PAPER

3 March, 2005



ISO

International Organization for Standardization

ISO/IEC JTC 1/SC 32
Data Management and Interchange
WG 3
Database Languages

Title: Japan Ballot Comments on CD 9075:2007(E)

Status: Document to accompany ballot response

Author: Masashi Tsuchida ,Takaaki Shiratori, Takashi Kotera

Abstract: We present the comments of Japan on the CD ballot documents, to accompany our ballot response on that document.

References: [1] WG3:TXL-002 = 32N1198, ISO/IEC CD 9075-1, Information technology . Database languages SQL . Part 1: Framework (SQL/Framework)]
[2] WG3:TXL-003 = 32N1199, ISO/IEC CD 9075-2, Information technology . Database languages . SQL . Part 2: Foundation (SQL/Foundation)
[3] WG3:TXL-004 = 32N1201, ISO/IEC CD 9075-3, Information technology . Database languages . SQL . Part 3: Call-Level Interface (SQL/CLI)
[4] WG3:TXL-005 = 32N1202, ISO/IEC CD 9075-4, Information technology . Database languages . SQL . Part 4: Persistent Stored Modules (SQL/PSM)
[5] WG3:TXL-006 = 32N1203, ISO/IEC CD 9075-9, Information technology . Database languages . SQL . Part 9: Management of

ISO/IEC JTC1/SC32/WG3 TXL-nnn

External Data (SQL/MED)

[6] WG3:TXL-007 = 32N1204, ISO/IEC CD 9075-10, Information technology . Database languages . SQL . Part 10: Object language bindings (SQL/OLB)

[7] WG3:TXL-008 = 32N1205, ISO/IEC CD 9075-11, Information technology . Database languages . SQL . Part 11: Information and Definition Schemas (SQL/Schemata)

[8] WG3:TXL-009 = 32N1206, ISO/IEC CD 9075-11, Information technology . Database languages . SQL . Part 13: Information and Definition Schemas (SQL/JRT)

ISO/IEC JTC1/SC32/WG3 TXL-*nnn*

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
SQL/Framework						
001	JPN-P01-001		1-Major Technical	<i>P01-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
SQL/Foundation						
002	JPN-P02-002		1-Major Technical	<i>P02-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
003	JPN-P02-003		1-Major Technical	<i>P02-11.3, <table definition></i>	It is allowed that <table contents source> which is <as subquery clause> with WITH DATA is specified for a temporary table. But a temporary table can not be materialized at table definition. Solution None provided with comment.	
004	JPN-P02-004		1-Major Technical	<i>P02-14.8, <insert statement></i>	An INSERT statement has no different effects on identity columns specified GENERATED ALWAYS and that specified GENERATED BY DEFAULT. Solution None provided with comment.	
SQL/CLI						
005	JPN-P03-001		1-Major Technical	<i>P03-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	

ISO/IEC JTC1/SC32/WG3 TXL-nnn

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
SQL/PSM						
006	JPN-P04-001		1-Major Technical	<i>P04-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
SQL/MED						
007	JPN-P05-001		1-Major Technical	<i>P05-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
SQL/OLB						
008	JPN-P10-001		1-Major Technical	<i>P10-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
SQL/Schema						
009	JPN-P11-001		1-Major Technical	<i>P11-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	
SQL/JRT						
009	JPN-P13-001		1-Major Technical	<i>P13-No specific location</i>	There are quite a few features to discuss a emerging next standard. Japan thinks that we should take enough time to add new features. Solution None provided with comment.	

ISO/IEC JTC1/SC32/WG3 TXL-*nnn*

ISO
International Organization for Standardization
ISO/IEC JTC 1/SC 32
Data Management and Interchange
WG 3
Database Languages

Project: ISO: 1.32.3.5

Title: Ballot Comment on ISO/IEC CD 9075-1, -2, -3, -4, -9, -10, -11, and -13

Status: Netherlands National Body Comments

Author: Stephen Cannan (Editor)

References:

- [1] SC32 N01198, CD 9075-1 Information Technology - Database Language SQL - Part 1: Framework (SQL/Framework) Jim Melton (Editor), December, 2004.
- [2] SC32 N01199, CD 9075-2 Information Technology - Database Language SQL - Part 2: Foundation (SQL/Foundation) Jim Melton (Editor), December, 2004.
- [3] SC32 N01201, CD 9075-3 Information Technology - Database Language SQL - Part 3: Call Level Interface (SQL/CLI) Jim Melton (Editor), December, 2004.
- [4] SC32 N01202, CD 9075-4 Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (SQL/PSM) Jim Melton (Editor), December, 2004.
- [5] SC32 N01203, CD 9075-9 Information Technology - Database Language SQL - Part 9: Management of External Data (SQL/MED) Jim Melton (Editor), December, 2004.
- [6] SC32 N01204, CD 9075-10 Information Technology - Database Language SQL - Part 10: Object Language Bindings (SQL/OLB) Jim Melton (Editor), December, 2004.
- [7] SC32 N01205, CD 9075-11 Information Technology - Database Language SQL - Part 11: Schemata (SQL/Schemata) Jim Melton (Editor), December, 2004.
- [8] SC32 N01206, CD 9075-13 Information Technology - Database Language SQL - Part 13: Java Routines and Types (SQL/JRT) Jim Melton (Editor), December, 2004.

The Netherlands vote is:

SQL/Framework	No with comments
SQL/Foundation	No with comments
SQL/CLI	No with comments
SQL/PSM	No with comments
SQL/MED	No with comments
SQL/OLB	No with comments
SQL/Schemata	No with comments
SQL/JRT	Yes with comments

If all problems and technical errors, i.e. those identified in this ballot, and those identified during the editing meeting(s), are resolved to our satisfaction, then the Netherlands will change its NO votes to YES votes.

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
SQL/Framework						
	NLD-P01-001		3-Major Editorial	<i>P01-04.04, SQL data types</i>	FRM-002 The following Language Opportunity has been noted: Source: DBL:BBN-167/X3H2-98-386 Language Opportunity: Section needs a better organization There should be a section called SQL Data Types. Then a short definition of what is meant by an SQL data type. Then the list of the five types of data types (predefined, row type, user-defined type, collection type, and reference type). Then there should be a definition for each. Solution None provided with comment.	
	NLD-P01-002		2-Minor Technical	<i>P01-06.03.03.03, Rule evaluation order</i>	WG3-P01-001 The referenced subclause includes the following text: In general, if some syntactic element contains more than one other syntactic element, then the General Rules for contained elements that appear earlier in the production for the containing syntactic element are applied before the General Rules for contained elements that appear later. For example, in the production: <A> ::= <C> the Syntax Rules and Access Rules for <A>,,and <C>are effectively applied simultaneously. The General Rules for are applied before the General Rules for <C>, and the General Rules for <A>are applied after the General Rules for both and <C>. In SQL/Foundation, Subclause 13.5, "<SQL procedure statement>", is a clear exception to this general rule for General Rules, for the GRs of the particular contained statement (e.g., an <insert statement>) are clearly intended to be invoked only when a GR in Subclause 13.5 explicitly states that the contained statement to be executed. Now, it might be that the introductory words, "In general", can be taken to imply that there are some exceptions, but in that case shouldn't the exceptions be explicitly mentioned? Solution None provided with comment.	
SQL/Foundation						
	NLD-P02-001		1-Major Technical	<i>P02-04.32.01, General description of cursors</i>	FND-975 The following Possible Problem has been noted: Source: WG3:SIA-030 = H2-2004-??? Possible Problem: Subclause 4.32.1, "General description of cursors", contains: For every <declare cursor> in [emphasis added] an SQL-client module, a cursor	

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					<p>is effectively created when an SQL-transaction (see Subclause 4.35, “SQL-transactions”) referencing the SQL-client module is initiated.</p> <p>For every <dynamic declare cursor> in an <SQL-client module definition>, a cursor is effectively created when an SQL-transaction (see Subclause 4.35, “SQL-transactions”) referencing the <SQLclient module definition> is initiated. An extended dynamic cursor is also [emphasis added] effectively created when an <allocate cursor statement> is executed within an SQL-session and destroyed when that SQL-session is terminated.</p> <p>This text suffers from several problems, all of which probably need to be addressed at the same time:</p> <ol style="list-style-type: none"> 1) The first paragraph entertains the notion of a piece of SQL syntax appearing inside something that is not a piece of SQL syntax. It seems that either "<declare cursor>" should be replaced by "cursor", or "SQL-client module" should be replaced by "<SQL-client module definition>". In either case there would be knock-on effects on the remaining text. Note that the second paragraph prefers to talk about syntactic containment exclusively, but its text is too suspect for it to be used as a guideline for correcting the first paragraph. 2) The first paragraph entertains the notion of an SQL-transaction referencing an SQL-client module. Regardless of whether this should be SQL-client module or <SQL-client module definition>, it is not clear exactly what it means for an SQL-transaction that is the process of being initiated to “reference” that thing. Text elsewhere in SQL/Foundation (for example, in Subclause 16.7, “<commit statement>”), strongly suggests that several distinct SQL-client modules can be “associated with” the same current SQL-transaction. Can they be associated with the SQL-transaction without also being referenced by it? For that matter, can they be referenced by it without also being associated with it? If “referenced by” and “associated with” are synonymous, then how can all the SQL-client modules referenced by SQL-transaction <i>T</i> be known when <i>T</i> is initiated? 3) The second paragraph entertains the notion of creation of a cursor, and yet we have not been able to find any mention of this concept in any General Rule. Subclause 19.8, “<deallocate prepared statement>”, GR3) does require destruction of certain cursors, and this is corroborated (redundantly?) by Subclause 19.15, “<allocate cursor statement>”, GR3)d). However, neither Subclause 19.6, “<prepare statement>”, nor Subclause 19.15, “<allocate cursor statement>”, has any GR requiring a cursor to be created. 4) As already noted, a cursor, having been created in somewhat mysterious circumstances, is never destroyed (unless it happens to be an allocated cursor, or a cursor declared in a <compound statement>, see SQL/PSM, Subclause 13.1, “<compound statement>”, GR3)c)ii)2) and GR5)). It seems, then, that if <i>n</i> SQL-transactions in the same SQL-session “reference” the same SQL-client module, 	

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					<p>then each <declare cursor> contained in the corresponding <SQL-client module definition> causes the creation of <i>n</i> distinct cursors. And yet Subclause 14.2, “<open statement>”, SR1), says “Let <i>CR</i> be the cursor specified by <i>DC</i>”, where <i>DC</i> is a <declare cursor>. There are two problems with this:</p> <ul style="list-style-type: none"> — It is not clear which of those <i>n</i> cursors is the one specified by <i>DC</i>. Of course, if the standard clearly specified that all but one of these had been destroyed by this time, then there would be no ambiguity. — The cited text in Subclause 4.32.1, “General description of cursors”, makes it clear that a cursor comes into existence at run-time and therefore, not being a schema object, should not be referred to in a syntax rule. Since the SQL-session context already includes cursor positions, perhaps it should also be defined to include cursors. <p>5) The final sentence contains the word “also”, which could be understood as suggesting that some way of creating an extended dynamic cursor has already been mentioned. Moreover, it ignores the possibility of such a cursor being destroyed as a consequence of its prepared statement being deallocated before SQL-session termination.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
	NLD-P02-002		2-Minor Technical	<i>P02-03.01, Definitions</i>	<p>FND-953 The following Language Opportunity has been noted: Language Opportunity: There has been a discussion about Unicode 4.0 on the ISODBL list. [Ake has] found out that Note 7 in SQL/Foundation will be affected, because it contains explicit code points. U+180E and U+205F have been added to the "Zs" class in Unicode 4.0. Note that U+200B currently is of class "Zs", although it should not be treated as white-space. The Unicode Technical Committee will probably change the class for U+200B (ZERO-WIDTH SPACE) to "Cf" in the near future.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
	NLD-P02-003		2-Minor Technical	<i>P02-04.10, Collection types</i>	<p>FND-845 The following Language Opportunity has been noted: Source: WG3:YYJ-016 (CAN-P02-001, USA-P02-005) Language Opportunity: The next edition of the SQL standard should standardize the syntax and semantics of one or more additional collection types.</p> <p style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
	NLD-P02-004		1-Major Technical	<i>P02-04.14.02, Types of tables</i>	<p>FND-944 The following Possible Problem has been noted: Source: WG3:HBA-042 = H2-2003-____ Possible Problem: This Subclause, with paragraph numbers added for expository purposes, says of created temporary tables:</p>	

