

ISO/IEC JTC 1/SC 32 N1249

Summary of Voting on Document SC 32 N 1203,

Title: ISO/IEC CD 9075-09 Information technology -- Database Languages - SQL - Part 9: Management of External Data (SQL/MED)

“P” Member	Approval	Approval with Comments	Disapproval	Abstention
Australia	X			
Belgium				
Brazil				
Canada			X	
China	X			
Czech Republic	X			
Egypt				
Finland				
Germany		X		
Italy				X
Japan			X	
Korea, Republic of	X			
Netherlands, The			X	
Norway				
Portugal				
Sweden	X			
United Kingdom			X	
United States			X	
Total “P”	5	1	5	1
“O” Member				
Austria				
Denmark				
France				
Russian Federation				
Switzerland				
Total “O”				

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	P09-25.13 "USAGE_PRIVILEGES" table	<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	P09-25.15 "USER_MAPPINGS" table	<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	P10-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 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	P11-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 style="text-align: center;">Solution</p> <p>None provided with comment.</p>	
19	DEU-P11-020		1-Major Technical	P11-No specific location	<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 t ID	See Also	Severity	Reference	Description	Addressed By
27	DEU-P11-100		2-Minor Technical	P11-6.16 "COLLATIONS" Table	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. Solution None provided with comment.	
28	DEU-P11-110		2-Minor Technical	P11-6.20 "COLUMNS" Table	For the columns IS_GENERATED and IDENTITY_GENERATION are no check constraints specified, but in the description are Lists of allowed values. Solution Add to the column IS_GENERATED the following column level constraint: CONSTRAINT COLUMNS_IS_GENERATED_CHECK CHECK (IS_GENERATED in ('NEVER', 'ALWAYS')) Add to the column IDENTITY_GENERATION the following column level constraint: CONSTRAINT COLUMNS_IDENTITY_GENERATION_CHECK CHECK (IDENTITY_GENERATION IN ('ALWAYS', 'BY DEFAULT'))	
29	DEU-P11-120		2-Minor Technical	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	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. It is not clear, if this is intended. Solution None provided with comment.	
30	DEU-P11-130		2-Minor Technical	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	The columns SCOPE_CATALOG, SCOPE_SCHEMA, and SCOPE_NAME are not checked against the possible values in the table TABLES. Solution None provided with comment.	
31	DEU-P11-140		4-Minor Editorial	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	The constraint DATA_TYPE_DESCRIPTOR_CHECK_OBJECT_TYPE should be a column constraint, as it references only the column OBJECT_TYPE. Solution Remove the preceding comma.	
32	DEU-P11-150		4-Minor Editorial	P11-6.21 "DATA_TYPE_DESCRIPTOR" Table	In the constraint DATA_TYPE_DESCRIPTOR_CHECK_REFERENCES_COLLATION_CHARACTER_SET_APPLICABILITY should be a comma "," at the end of the 10 th line of the constraint. Solution Add the missing comma.	
33	DEU-P11-		2-Minor Technical	P11-6.24 "DOMAIN_CONSTRAINTS" Table	Should there be a NOT NULL check constraint for the columns IS_DEFERRABLE and INITIALLY_DEFERRED?	

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	

