

ISO/IEC 9075-11:2008-07 (E)

Information technology_ - Database languages_ - SQL_ - Part_11: Information and Definition Schemas (SQL/Schemata)

Contents		Page
Foreword		ix
Introduction		x
1	Scope	1
2	Normative references	3
2.1	ISO and IEC standards	3
3	Definitions, notations, and conventions	5
3.1	Conventions	5
4	Concepts	7
4.1	Introduction to the Definition Schema	7
4.2	Introduction to the Information Schema	8
5	Information Schema	9
5.1	INFORMATION_SCHEMA Schema	9
5.2	INFORMATION_SCHEMA_CATALOG_NAME base table	10
5.3	CARDINAL_NUMBER domain	11
5.4	CHARACTER_DATA domain	12
5.5	SQL_IDENTIFIER domain	13
5.6	TIME_STAMP domain	14
5.7	YES_OR_NO domain	15
5.8	ADMINISTRABLE_ROLE_AUTHORIZATIONS view	16
5.9	APPLICABLE_ROLES view	17
5.10	ASSERTIONS view	18
5.11	ATTRIBUTES view	19
5.12	CHARACTER_SETS view	21
5.13	CHECK_CONSTRAINT_ROUTINE_USAGE view	22
5.14	CHECK_CONSTRAINTS view	23
5.15	COLLATIONS view	24
5.16	COLLATION_CHARACTER_SET_APPLICABILITY view	25
5.17	COLUMN_COLUMN_USAGE view	26
5.18	COLUMN_DOMAIN_USAGE view	27
5.19	COLUMN_PRIVILEGES view	28
5.20	COLUMN_UDT_USAGE view	29
5.21	COLUMNS view	30
5.22	CONSTRAINT_COLUMN_USAGE view	33
5.23	CONSTRAINT_TABLE_USAGE view	35
5.24	DATA_TYPE_PRIVILEGES view	37
5.25	DIRECT_SUPERTABLES view	39
5.26	DIRECT_SUPERTYPES view	40
5.27	DOMAIN_CONSTRAINTS view	41
5.28	DOMAINS view	42
5.29	ELEMENT_TYPES view	44
5.30	ENABLED_ROLES view	45
5.31	FIELDS view	46
5.32	KEY_COLUMN_USAGE view	48
5.33	METHOD_SPECIFICATION_PARAMETERS view	50
5.34	METHOD_SPECIFICATIONS view	52
5.35	PARAMETERS view	55

5.36	REFERENCED_TYPES view	57
5.37	REFERENTIAL_CONSTRAINTS view	58
5.38	ROLE_COLUMN_GRANTS view	59
5.39	ROLE_ROUTINE_GRANTS view	60
5.40	ROLE_TABLE_GRANTS view	61
5.41	ROLE_TABLE_METHOD_GRANTS view	62
5.42	ROLE_USAGE_GRANTS view	63
5.43	ROLE_UDT_GRANTS view	64
5.44	ROUTINE_COLUMN_USAGE view	65
5.45	ROUTINE_PRIVILEGES view	66
5.46	ROUTINE_ROUTINE_USAGE view	67
5.47	ROUTINE_SEQUENCE_USAGE view	68
5.48	ROUTINE_TABLE_USAGE view	69
5.49	ROUTINES view	70
5.50	SCHEMATA view	73
5.51	SEQUENCES view	74
5.52	SQL_FEATURES view	75
5.53	SQL_IMPLEMENTATION_INFO view	76
5.54	SQL_PACKAGES view	77
5.55	SQL_PARTS view	78
5.56	SQL_SIZING view	79
5.57	SQL_SIZING_PROFILES view	80
5.58	TABLE_CONSTRAINTS view	81
5.59	TABLE_METHOD_PRIVILEGES view	82
5.60	TABLE_PRIVILEGES view	83
5.61	TABLES view	84
5.62	TRANSFORMS view	85
5.63	TRANSLATIONS view	86
5.64	TRIGGERED_UPDATE_COLUMNS view	87
5.65	TRIGGER_COLUMN_USAGE view	88
5.66	TRIGGER_ROUTINE_USAGE view	89
5.67	TRIGGER_SEQUENCE_USAGE view	90
5.68	TRIGGER_TABLE_USAGE view	91
5.69	TRIGGERS view	92
5.70	UDT_PRIVILEGES view	94
5.71	USAGE_PRIVILEGES view	95
5.72	USER_DEFINED_TYPES view	96
5.73	VIEW_COLUMN_USAGE view	98
5.74	VIEW_ROUTINE_USAGE view	99
5.75	VIEW_TABLE_USAGE view	100
5.76	VIEWS view	101
5.77	Short name views	102
6	Definition Schema	121
6.1	DEFINITION_SCHEMA Schema	121
6.2	EQUAL_KEY_DEGREES assertion	122
6.3	KEY_DEGREE_GREATER_THAN_OR_EQUAL_TO_1 assertion	123
6.4	UNIQUE_CONSTRAINT_NAME assertion	124
6.5	ASSERTIONS base table	125
6.6	ATTRIBUTES base table	127
6.7	AUTHORIZATIONS base table	129
6.8	CATALOG_NAME base table	130
6.9	CHARACTER_ENCODING_FORMS base table	131
6.10	CHARACTER_REPERTOIRES base table	132
6.11	CHARACTER_SETS base table	133
6.12	CHECK_COLUMN_USAGE base table	135
6.13	CHECK_CONSTRAINT_ROUTINE_USAGE base table	136
6.14	CHECK_CONSTRAINTS base table	137
6.15	CHECK_TABLE_USAGE base table	138
6.16	COLLATIONS base table	139
6.17	COLLATION_CHARACTER_SET_APPLICABILITY base table	140
6.18	COLUMN_COLUMN_USAGE base table	141

6.19	COLUMN_PRIVILEGES base table	142
6.20	COLUMNS base table	144
6.21	DATA_TYPE_DESCRIPTOR base table	149
6.22	DIRECT_SUPERTABLES base table	159
6.23	DIRECT_SUPERTYPES base table	161
6.24	DOMAIN_CONSTRAINTS base table	163
6.25	DOMAINS base table	165
6.26	ELEMENT_TYPES base table	166
6.27	FIELDS base table	168
6.28	KEY_COLUMN_USAGE base table	170
6.29	METHOD_SPECIFICATION_PARAMETERS base table	172
6.30	METHOD_SPECIFICATIONS base table	174
6.31	PARAMETERS base table	179
6.32	REFERENCED_TYPES base table	182
6.33	REFERENTIAL_CONSTRAINTS base table	184
6.34	ROLE_AUTHORIZATION_DESCRIPTOR base table	187
6.35	ROUTINE_COLUMN_USAGE base table	189
6.36	ROUTINE_PRIVILEGES base table	190
6.37	ROUTINE_ROUTINE_USAGE base table	192
6.38	ROUTINE_SEQUENCE_USAGE base table	193
6.39	ROUTINE_TABLE_USAGE base table	194
6.40	ROUTINES base table	195
6.41	SCHEMATA base table	202
6.42	SEQUENCES base table	204
6.43	SQL_CONFORMANCE base table	206
6.44	SQL_IMPLEMENTATION_INFO base table	208
6.45	SQL_SIZING base table	209
6.46	SQL_SIZING_PROFILES base table	211
6.47	TABLE_CONSTRAINTS base table	213
6.48	TABLE_METHOD_PRIVILEGES base table	215
6.49	TABLE_PRIVILEGES base table	217
6.50	TABLES base table	220
6.51	TRANSFORMS base table	224
6.52	TRANSLATIONS base table	226
6.53	TRIGGERED_UPDATE_COLUMNS base table	228
6.54	TRIGGER_COLUMN_USAGE base table	229
6.55	TRIGGER_ROUTINE_USAGE base table	230
6.56	TRIGGER_SEQUENCE_USAGE base table	231
6.57	TRIGGER_TABLE_USAGE base table	232
6.58	TRIGGERS base table	233
6.59	USAGE_PRIVILEGES base table	236
6.60	USER_DEFINED_TYPE_PRIVILEGES base table	238
6.61	USER_DEFINED_TYPES base table	240
6.62	VIEW_COLUMN_USAGE base table	244
6.63	VIEW_ROUTINE_USAGE base table	245
6.64	VIEW_TABLE_USAGE base table	246
6.65	VIEWS base table	247
7	Conformance	251
7.1	Claims of conformance to SQL/Schemata	251
7.2	Additional conformance requirements for SQL/Schemata	251
7.3	Implied feature relationships of SQL/Schemata	251
Annex A SQL Conformance Summary (informative)		253
Annex B Implementation-defined elements (informative)		271
Annex C Implementation-dependent elements (informative)		273
Annex D Deprecated features (informative)		275
Annex E Incompatibilities with ISO/IEC 9075:2003 (informative)		277

Annex F SQL feature taxonomy (informative)	279
Annex G Defect reports not addressed in this edition of this part of ISO/IEC 9075 (informative)	283
Index	285

Table

Page

1	Implied feature relationships of SQL/Schemata.	251
2	Feature taxonomy and definition for mandatory features.	279
3	Feature taxonomy for optional features.	281