
Contents		Page
Foreword		viii
Introduction		ix
1	Scope	1
2	Normative references	3
3	Terms and definitions, notations and conventions	5
3.1	Terms and definitions	5
3.1.4	Terms and definitions taken from ANSI/NISO Z39.19:1993	6
3.2	Notations	7
3.3	Conventions	8
4	Concepts	9
4.2	Text model	10
4.3	Text identification facilities	11
4.3.1	Single word patterns (patterns of the form <word>)	12
4.3.2	Single phrase patterns (patterns of the form <phrase>)	12
4.3.3	Patterns representing sets of single words	12
4.3.4	Patterns formed by sets of single phrases	14
4.3.5	Patterns specifying context conditions	15
4.3.6	Patterns involving Boolean operators	16
4.3.7	Identification of FullText values which are pertinent to a given text	17
4.4	Text scoring facilities	18
4.5	Language aspects	19
4.5.1	Multilingual texts and patterns	19
4.5.2	Treatment of stop words	19
4.6	Word normalization	21
4.7.1	Types and routines intended for public use	22
4.7.2	Types and routines for definition	22
4.7.3	Technique for defining the semantics of Category 1 Contains methods	22
4.7.4	Complementary SQL-invoked regular functions	23
4.8	The Full-Text Information Schema	23
5	Full-Text Types	25
5.1	FullText Type and Routines	25
5.1.1	FullText Type	25
5.1.2	Contains Methods	28
5.1.3	Score Methods	30
5.1.4	NumberOfMatches Methods	31
5.1.5	Tokenize Method	32
5.1.6	TokenizePosition Method	33
5.1.7	Segmentize Method	35
5.1.8	TokenizeAndStem Method	36
5.1.9	TokenizePositionAndStem Method	37
5.1.10	FullText Methods	38
5.1.11	Contains Function	39
5.1.12	Score Function	40
5.1.13	NumberOfMatches Function	41
5.1.14	FullText_to_Character Function	42
5.1.15	StrctPattern_to_FT_Pattern Function	43

5.2	FT_TokenPosition Type and Routines	44
5.2.1	FT_TokenPosition Type	44
5.3	FT_Pattern Type and Routines	45
5.3.1	FT_Pattern Type	45
5.3.2	FT_Pattern Key Words	59
6	Structured Search Pattern Types	61
6.1	FT_Any Type and Routines	61
6.1.1	FT_Any Type	61
6.1.2	Contains Method	63
6.1.3	FT_Any Method	65
6.2	FT_Primary Type and Routines	66
6.2.1	FT_Primary Type	66
6.2.2	Contains Method	67
6.2.3	StrctPattern_to_FT_Pattern Method	68
6.3	FT_WordOrPhrase Type and Routines	69
6.3.1	FT_WordOrPhrase Type	69
6.3.2	Contains Method	70
6.3.3	StrctPattern_to_FT_Pattern Method	71
6.3.4	getWordArray Method	72
6.4	FT_TextLiteral Type and Routines	73
6.4.1	FT_TextLiteral Type	73
6.4.2	Contains Method	75
6.4.3	NumberOfMatches Method	77
6.4.4	StrctPattern_to_FT_Pattern Method	79
6.4.5	matches Method	80
6.4.6	Tokenize Method	81
6.4.7	getWordArray Method	82
6.4.8	FT_TextLiteral Methods	83
6.4.9	EliminateDQS Function	84
6.4.10	InsertDQS Function	85
6.5	FT_StemmedWord Type and Routines	86
6.5.1	FT_StemmedWord Type	86
6.5.2	Contains Method	88
6.5.3	StrctPattern_to_FT_Pattern Method	90
6.5.4	TokenizeAndStem Method	91
6.5.5	FT_StemmedWord Methods	92
6.6	FT_Phrase Type and Routines	93
6.6.1	FT_Phrase Type	93
6.6.2	Contains Method	95
6.6.3	NumberOfMatches Method	98
6.6.4	StrctPattern_to_FT_Pattern Method	101
6.6.5	getWordArray Method	102
6.6.6	TokenizePosition Method	103
6.6.7	FT_Phrase Methods	104
6.6.8	matches Function	105
6.6.9	prune Function	107
6.7	FT_StemmedPhrase Type and Routines	108
6.7.1	FT_StemmedPhrase Type	108
6.7.2	Contains Method	110
6.7.3	StrctPattern_to_FT_Pattern Method	113
6.7.4	TokenizePositionAndStem Method	114
6.7.5	FT_StemmedPhrase Methods	115
6.8	FT_Proxi Type and Routines	117
6.8.1	FT_Proxi Type	117
6.8.2	Contains Method	118
6.8.3	StrctPattern_to_FT_Pattern Method	121
6.8.4	FT_Proxi Method	122
6.9	FT_Soundex Type and Routines	123
6.9.1	FT_Soundex Type	123
6.9.2	Contains Method	124
6.9.3	StrctPattern_to_FT_Pattern Method	125

6.9.4	FT_Soundex Method	126
6.9.5	GetSoundsSimilar Function	127
6.10	FT_Fuzzy Type and Routines	128
6.10.1	FT_Fuzzy Type	128
6.10.2	Contains Method	129
6.10.3	StrctPattern_to_FT_Pattern Method	130
6.10.4	FT_Fuzzy Method	131
6.10.5	GetSpelledSimilar Function	132
6.11	FT_BroaderTerm Type and Routines	133
6.11.1	FT_BroaderTerm Type	133
6.11.2	Contains Method	134
6.11.3	StrctPattern_to_FT_Pattern Method	135
6.11.4	FT_BroaderTerm Method	136
6.11.5	GetBroaderTerms Function	137
6.12	FT_NarrowerTerm Type and Routines	139
6.12.1	FT_NarrowerTerm Type	139
6.12.2	Contains Method	140
6.12.3	StrctPattern_to_FT_Pattern Method	141
6.12.4	FT_NarrowerTerm Method	142
6.12.5	GetNarrowerTerms Function	143
6.13	FT_Synonym Type and Routines	145
6.13.1	FT_Synonym Type	145
6.13.2	Contains Method	146
6.13.3	StrctPattern_to_FT_Pattern Method	147
6.13.4	FT_Synonym Method	148
6.13.5	GetSynonymTerms Function	149
6.14	FT_PREFERREDTerm Type and Routines	151
6.14.1	FT_PREFERREDTerm Type	151
6.14.2	Contains Method	152
6.14.3	StrctPattern_to_FT_Pattern Method	153
6.14.4	FT_PREFERREDTerm Method	154
6.14.5	GetPreferredTerms Function	155
6.15	FT_RelatedTerm Type and Routines	157
6.15.1	FT_RelatedTerm Type	157
6.15.2	Contains Method	158
6.15.3	StrctPattern_to_FT_Pattern Method	159
6.15.4	FT_RelatedTerm Method	160
6.15.5	GetRelatedTerms Function	161
6.16	FT_TopTerm Type and Routines	163
6.16.1	FT_TopTerm Type	163
6.16.2	Contains Method	164
6.16.3	StrctPattern_to_FT_Pattern Method	165
6.16.4	FT_TopTerm Method	166
6.16.5	GetTopTerms Function	167
6.17	FT_IsAbout Type and Routines	169
6.17.1	FT_IsAbout Type	169
6.17.2	Contains Method	170
6.17.3	StrctPattern_to_FT_Pattern Method	171
6.17.4	FT_IsAbout Method	172
6.18	FT_Context Type and Routines	173
6.18.1	FT_Context Type	173
6.18.2	Contains Method	174
6.18.3	StrctPattern_to_FT_Pattern Method	176
6.18.4	FT_Context Method	177
6.19	FT_ParExpr Type and Routines	178
6.19.1	FT_ParExpr Type	178
6.19.2	Contains Method	179
6.19.3	StrctPattern_to_FT_Pattern Method	180
6.19.4	FT_ParExpr Method	181
6.20	FT_Term Type and Routines	182
6.20.1	FT_Term Type	182
6.20.2	Contains Method	183

6.20.3	StrctPattern_to_FT_Pattern Method	184
6.20.4	FT_Term Method	185
6.21	FT_Expr Type and Routines	186
6.21.1	FT_Expr Type	186
6.21.2	Contains Method	187
6.21.3	StrctPattern_to_FT_Pattern Method	188
6.21.4	FT_Expr Method	189
6.22	FT_PhraseList Type and Routines	190
6.22.1	FT_PhraseList Type	190
6.22.2	Contains Method	191
6.22.3	StrctPattern_to_FT_Pattern Method	193
6.22.4	FT_PhraseList Method	194
7	FullText_Token Type and Routines	195
7.1	FullText_Token Type	195
8	SQL/MM Full-Text Thesaurus Schema	197
8.1	Introduction	197
8.2	FT_THESAURUS Schema	198
8.3	TERM_DICTIONARY base table	199
8.4	TERM_HIERARCHY base table	200
8.5	TERM_SYNONYM base table	201
8.6	TERM_RELATED base table	201
9	SQL/MM Full-Text Information Schema	203
9.1	Introduction	203
9.2	FT_FEATURES view	204
9.3	FT_SCHEMATA view	204
10	SQL/MM Full-Text Definition Schema	205
10.1	Introduction	205
10.2	FT_FEATURES base table	206
10.3	FT_SCHEMATA base table	209
11	Status Codes	211
12	Conformance	213
12.1	Requirements for conformance	213
12.3	Claims of conformance	214
Annex A	.....	215
A.1	Implementation-defined Meta-variables	223
Annex B	.....	225
B.1	Implementation-dependent Meta-variables	226
Index	.....	227
Tables Page Table 1 -- Method and function name correspondences	.....	23
Table 2 -- SQLSTATE class and subclass values	.....	211