Content Management Interoperability Services (CMIS) Extension

Query on Secondary Type

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Latest version:

http://docs.oasis-open.org/ns/cmis/extension/queryOnSecondaryType

Technical Committee:

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Extends:

The extension extends CMIS 1.1.

Abstract:

This extension corrects an inconsistency in the grammar for queries. The BNF grammar in the CMIS 1.1 specification section 2.1.14.2.1 does not allow secondary object type name in the FROM clause of a query, effectively making secondary object type not queryable. This conflicts with section 2.1.14.1, where it is stated that queryable object types are allowed in FROM clauses, including queryable secondary object types. Because the BNF grammar is the formal description of the query language, it takes precedence over the text. This extension corrects the grammar and allows the use of secondary object type name(s) in the FROM clause of a query, so that a CMIS 1.1-compliant repository that also supports this extension is able to support query on secondary object type(s).

This extension introduces the possibility of polymorphic queries over heterogeneous collections because a secondary object type can have objects in more than one primary object type. This could be implemented in SQL by using the SQL view (virtual table) mechanism. A secondary object type may be implemented as an SQL view defined by selecting a subset of the union of the primary object types.

# Specification

Section 2.1.14.2.1 BNF Grammar is amended to change the grammar rule:

<table reference> ::= <table name> [ [ AS ] <correlation name> ]

| <joined table>

to the grammar rule:

<table reference> ::= <table name> [ [ AS ] <correlation name> ]

| <secondary type table name> [ [ AS ] <correlation name> ]

| <joined table>

1. Extension Definition

The following is the feature extension entry in the repository info (see CMIS 1.1 specification, section 2.1.1.3):

|  |  |
| --- | --- |
| ID | http://docs.oasis-open.org/ns/cmis/extension/queryOnSecondaryType/1.0 |
| URL | http://docs.oasis-open.org/ns/cmis/extension/queryOnSecondaryType |
| Common Name | Query on Secondary Type |
| Version Label | 1.0 |
| Description | This extension corrects an inconsistency in the BNF grammar for queries by allowing the FROM clause in a query to contain secondary object type names, thereby enabling query on secondary object types. |