

2018-01-17 - SLPG Meeting

Date & Time

20:00 UTC Wednesday 17th January 2018

Goals

- Review proposed Query language examples

Teleconference Details

To join the meeting please go to <https://snomed.zoom.us/j/471420169>.

Further information can be found at [SLPG meeting information](#)

Attendees

- Chair: [Linda Bird](#)
- Project Group: [Ed Cheetham](#), [Rob Hausam](#), [Harold Solbrig](#)

Apologies

Agenda and Meeting Notes

Description	Owner	Notes
Welcome and apologies	Linda Bird	
Recent comments	Linda Bird	<p>Michael: "How can I write an ECL expression to match attribute names - for example, list all the attribute names that are used by << 404684003 Clinical finding .</p> <p>Daniel: "Query language and collation"</p> <p>When specifying the lexical search type for term matching there is a need to specify the collation used, and to specify the default collation for the language in which the terms are to be matched are represented.</p> <p>Examples based on mysql collation behavior:</p> <p>"AAO" matches "ÄÄÖ" in utf8_generic_ci and utf8_unicode_ci (and utf8_german2_ci) but not in utf8_swedish_ci collation.</p> <p>"Aaa" matches "aää" in utf8_generic_ci and utf8_swedish_ci but not in utf8_bin collation (i.e. case insensitive vs. sensitive, sometimes you need case sensitivity when searching...).</p> <p>Similar behavior can be implemented e.g. by java.text.Collator in java or by the collection.find() or cursor.collation() method in MongoDB.</p>
Query Language	Linda Bird	<ul style="list-style-type: none">• Review proposed Query Language examples• Consider issues and potential resolutions. Questions needing resolution include:<ul style="list-style-type: none">◦ Do we need inferred relationship filters?<ul style="list-style-type: none">▪ Answer: Tentative Yes◦ If yes, then what are some good use cases?<ul style="list-style-type: none">▪ Answer: QA - Find me all the source concepts of a relationship added in an extension module▪ Answer: QA - Find me all the source concepts of a relationship added at a particular effective time▪ ACTION (Daniel) - To investigate QA example use cases based on RVF◦ How should no brackets be interpreted?<ol style="list-style-type: none">1. What does this mean? "< 404684003 Clinical finding {{ C.definitionStatusId = 900000000000074008 Primitive }}"<ul style="list-style-type: none">▪ 1a) (< 404684003 Clinical finding) {{ C.definitionStatusId = 900000000000074008 Primitive }}▪ 1b) < (404684003 Clinical finding {{ C.definitionStatusId = 900000000000074008 Primitive }})▪ Answer: 1a - AGREED2. What does this mean? "< 404684003 Clinical finding : 363698007 Finding site = << 80891009 Heart structure {{ C.definitionStatusId = 900000000000074008 Primitive }}"<ul style="list-style-type: none">▪ 2a) (< 404684003 Clinical finding : 363698007 Finding site = << 80891009 Heart structure) {{ C.definitionStatusId = 900000000000074008 Primitive }}▪ 2b) < 404684003 Clinical finding : 363698007 Finding site = ((<< 80891009 Heart structure) {{ C.definitionStatusId = 900000000000074008 Primitive }})▪ 2c) < 404684003 Clinical finding : 363698007 Finding site = << ((80891009 Heart structure) {{ C.definitionStatusId = 900000000000074008 Primitive }})▪ Answer: 2a - AGREED◦ If we do support relationship filters, then where should they go and how should they be bracketed?<ol style="list-style-type: none">1. Directly after the attribute - for example:

- 1a) < 404684003 |Clinical finding| : 363698007 |Finding site| {{ R.moduleId = 32506021000036107 |AU extension| }} = << 80891009 |Heart structure|
 - or
 - 1b) < 404684003 |Clinical finding| : (363698007 |Finding site| {{ R.moduleId = 32506021000036107 |AU extension| }}) = << 80891009 |Heart structure|
 - 2. Directly after the refinement (with brackets) - for example:
 - 2a) < 404684003 |Clinical finding| : ((363698007 |Finding site| = << 80891009 |Heart structure|) . {{ R.moduleId = 32506021000036107 |AU extension| }})
 - or
 - 2b) < 404684003 |Clinical finding| : (363698007 |Finding site| = << 80891009 |Heart structure| {{ R.moduleId = 32506021000036107 |AU extension| }})
 - 3. Directly after the !=, for example:
 - 3a) < 404684003 |Clinical finding| : 363698007 |Finding site| = {{ R.moduleId = 32506021000036107 |AU extension| }} << 80891009 |Heart structure|
 - 4. Directly after the constraint operator (Interpretation - there exists a relationship in the chain) - for example:
 - 3a) < {{ R.moduleId = 32506021000036107 |AU extension| }} 404684003 |Clinical finding|
 - 5. After the concept being constrained - for example:
 - 4a) < 404684003 |Clinical finding| {{ R.moduleId = 32506021000036107 |AU extension| }}
 - or
 - 4b) (< 404684003 |Clinical finding|) {{ R.moduleId = 32506021000036107 |AU extension| }}
- Answer(s): ? 2b and 4a (Note: 1b is more consistent with dotted notation)
- What exactly do relationship filters mean?
 - < 404684003 |Clinical finding| {{ R.moduleId = 32506021000036107 |AU extension| }}
 - There exists **at least one** [is a] relationship, that connects the given descendant to [Clinical finding], meets the given filter criteria
 - All** [is a] relationships, that connect the given descendant to [Clinical finding], meet the given filter criteria
- How do we indicate the execution order for relationship filters?
 - Dotted notation - For example "ANY . << 246090004 |Associated finding| . 363698007 |Finding site|"
 - 1. Only returns those concepts that result from using a [Finding site] relationship in the AU core (Note: return the destinationConcept of these relationships)
 - 1a) ANY . << 246090004 |Associated finding| . 363698007 |Finding site| {{ R.moduleId != 'AU Core' }}
 - or
 - 1b) ANY . << 246090004 |Associated finding| . (363698007 |Finding site| {{ R.moduleId != 'AU Core' }})
 - Answer: ? 1b
 - 2. Only returns those concepts that result from using an [Associated finding] relationship (or type of [associated finding] relationship) in the AU core (Note: return the destinationConcept of these relationships)
 - 2a) ANY . << 246090004 |Associated finding| {{ R.moduleId != 'AU Core' }}. 363698007 |Finding site|
 - or
 - 2b) ANY . (<< 246090004 |Associated finding|) {{ R.moduleId != 'AU Core' }}. 363698007 |Finding site|
 - or
 - 2c) ANY . (<< 246090004 |Associated finding| {{ R.moduleId != 'AU Core' }}) . 363698007 |Finding site|
 - Answer: ? 2c
- Cardinality
 - 1. Exactly one matching relationship in the AU core (but may be other matching relationships in other modules)
 - 1a) < 404684003 |Clinical finding| : [1..1] (363698007 |Finding site| = << 80891009 |Heart structure| {{ R.moduleId = 32506021000036107 |AU extension| }})
 - or
 - 1b) < 404684003 |Clinical finding| : [1..1] (363698007 |Finding site| = << 80891009 |Heart structure|) {{ R.moduleId = 32506021000036107 |AU extension| }}
 - Answer: ? 1a
 - 2. Exactly one matching relationship, and this relationship is in the AU core
 - 2a) < 404684003 |Clinical finding| : ([1..1] 363698007 |Finding site| = << 80891009 |Heart structure| {{ R.moduleId = 32506021000036107 |AU extension| }})
 - or
 - 2b) < 404684003 |Clinical finding| : ([1..1] 363698007 |Finding site| = << 80891009 |Heart structure|) {{ R.moduleId = 32506021000036107 |AU extension| }}
 - Answer: ? 2a
- Which keyword filters must be qualified with a component/refset type? (e.g. "C", "D", "R", "M")
 - For example, do we qualify "substrate"? "languageRefSetId", "preferredTerm", "fullySpecifiedName", "acceptableTerm"?
- What options do we provide for constraining terms, preferred terms, fully specified names, acceptable terms and/or selecting language refsets?
 - See slide deck

Confirm next meeting date /time	Linda Bird	Next meeting to be held at 20:00 UTC on Wednesday 31st January 2018
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