2020-08-26 - SLPG Meeting

Date & Time

20:00 to 21:00 UTC Wednesday 26th August 2020

Location

Zoom meeting link (password: 764978)

Attendees

- Chair: Linda Bird
 Project Group: Michael Lawley, Anne Randorff Højen, Peter Jordan, Daniel Karlsson, Ed Cheetham, Rob Hausam

Agenda and Meeting Notes

Goals

- To walk through complete draft of ECL v1.5
 To discuss next steps

Apologies

Description	Owner	Notes
Welcome and agenda	Linda Bird	NOTE: Next meeting to be held on Wednesday 9th September
Concrete Values	Linda Bird	 Specifications SCG v2.4 (with booleans) has been published ECL v1.4 (with booleans, childOrSelfOf and parentOrSelfOf) has been published MRCM (with updated rangeConstraint) - 5.3 MRCM Attribute Range Reference Set STS v1.1 and ETL v1.1 (with booleans) to be published soon

Linda Bird	 Updates to WIP ECL v1.5 1. Introduction - History updated to mention ECL v1.5 3.2 Expression Constraint and Query Requirements - The 'term filter' requirement is explained. 4. Logical Model - Filters are added to the abstract model, and the example expression constraint (with marked components) 4.1 Details - Filter constraints added to the UML class diagram 5.1 Brief Syntax (Normative) - Syntax updated with filters 5.2 Long Syntax (Informative) - Syntax updated with filters 5.3 Informative Comments - Comments added for new rules 5.5 Character Collation for Term Filters - New section. Default collation still needs to be defined 6.8 Description Filters - New page with filter constraints (to be added) Appendix A.7 - Valid examples with filter constraints (to be added) Appendix C - Dialect Aliases - Proposed dialect aliases for a range of refsets accessible through browser THIS WEEK
	 Please review all the new content for ECL v1.5 (above) and provide feedback Next Steps: WIP ECL v1.5 will be reviewed internally in SNOMED International and by MAG Final questions: Dialect Alias comment from Daniel - i.e. are alpha characters sufficient? Subexpression comment from Ed - i.e. New example with refinement, and clarification text on use of MINUS Preferred Term filters on dialect lists (first refset? or both refsets?) - needs clarification Appendix A.7 and B.7 to be completed (once examples agreed upon) How are the default collation rules determined? a. The 'Language' property of each description (note: descriptions can be pre-indexed based on their language) b. The 'Language reference set' being used? (note: each language refset would need to be associated with a locale) c. In the ECL query? Language filter? Dialect filter? d. The local environment e. A combination of these
	 Can/should we register ECL as a MIME type? – Waiting for volunteer time to complete registration form To be progressed through the MAG Dialect Alias Refset Alternative 1 - Annotation Refset Dialect_Alias refset : alias + languageRefset-conceptId - e.g. "en-GB", 9000000000000000000000000000000000000
	 How to refer to an 'extended edition' using a URI - e.g. "International Edition plus the following 2 nursing modules: 733983009 [IHTSDO Nursing Health Issues module]and 733984003 [IHTSDO Nursing Activities module] Use Case - Need to execute an ECL, that refers to "^733991000 Nursing Health Issues Reference Set (foundation metadata concept) " and/or "^ 733990004 Nursing Activities Reference Set (foundation metadata concept) " and/or "^ 733990004 Nursing Activities Reference Set (foundation metadata concept) ", where the substrate includes the international edition, plus the modules that include these reference sets July 2020 International Edition URI: http://snomed.info/sct/9000000000207008/version/20200731 July 2020 International Edition + nursing modules URI ?? - For example: http://snomed.info/sct/9000000000207008/version/20200731/module/733983009/time/20200131/module/7 33984003/time/20200131 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003 http://snomed.info/sct/90000000000207008/version/20200731/modules/733983009:733984003/version/20200731:20190731:20200131 Canonical order? Or order doesn't matter? Constraints on what can go in the additional packages (only refsets and their metadata)

Querying Refset Attributes	Linda Bird	Proposed syntax to support querying and return of alternative refset attributes (To be included in the SNOMED Query Language)
		 Example use cases Execution of maps from international substance concepts to AMT substance concepts Find the anatomical parts of a given anatomy structure concept (in Anatomy structure and part association reference set) Find potential replacement concepts for an inactive concept in record Find the order of a given concept in an Ordered component reference set Find a concept with a given order in an Ordered component reference set

- Examples
 Try to recast relationships table as a Refset table + graph-based extension
Find primitive concepts in a hierarchy
• ROW ?
 ROWOF (Anatomy structure and part association refset) ? (referenced component , target
component])
 same as: ^ Anatomy structure and part association refset
 Same as: ~ [Anatomy structure and part association refset] ROWOF ([Anatomy structure and part association refset]). [referenced component]
same as: ^ Anatomy structure and part association refset DOM/OF (Anatamy structure and part association refset) ((Information and part association))
ROWOF (Anatomy structure and part association refset) {{ referenced component = << Upper
abdomen structure }} ? targetComponentId
ROWOF (< 90000000000496009 Simple map type reference set {{ term = "*My hospital*"}}) {{
449608002 Referenced component = 80581009 Upper abdomen structure }?
9000000000505001 Map target
 (ROW (< 90000000000496009 Simple map type reference set {{ term = "*My hospital*"}}):
449608002 Referenced component = 80581009 Upper abdomen structure).
9000000000050001 [Map target]
• #?
 # f # Anatomy structure and part association refset ? referenced component\
(Anatomy struture and part association refset {{ referenced component = << Upper abdomen structure) 2 targetComponential
structure) ? targetComponentid
• ? notation + Filter refinement
Anatomy structure and part association refset ? targetComponentId
Anatomy structure and part association refset ? referencedComponent (Same as ^ Anatomy
structure and part association refset])
(Anatomy structure and part association refset {{ referencedComponent = << Upper abdomen
structure}})? [targetComponentId]
 (Anatomy structure and part association refset {{ targetComponentId = << Upper abdomen
structure}}) ? [referencedComponent]
 (My ordered component refset : Referenced component = Upper abdomen structure) ? priority
order
? My ordered component refset {{ Referenced component = Upper abdomen structure }}
. priority order
? My ordered component refset . referenced component
 equivalent to ^ My ordered component refset
?(< My ordered component refset) {{ Referenced component = Upper abdomen
structure }} . priority order
? (< My ordered component refset {{ term = "*map"}}) {{ Referenced component = Upper
abdomen structure }} . priority order
 REFSETROWS (< My ordered component refset {{ term = "*map"}}) {{ Referenced
component = Upper abdomen structure }} SELECT priority order
• Specify value to be returned
? 449608002 Referenced component ?
734139008 Anatomy structure and part association refset
^ 734139008 Anatomy structure and part association refset (Same as previous)
90000000000533001 Association target component ?
734139008 Anatomy structure and part association refset
? 9000000000533001 [Association target component]?
734139008 [Anatomy structure and part association refset] :
449608002 [ReferencedComponent] = << [Upper abdomen structure]
 90000000000533001 Association target component ?
734139008 Anatomy structure and part association refset
{{ 449608002 referencedComponent = << Upper abdomen structure }}
(? 90000000000533001 Association target component ?
734139008 Anatomy structure and part association refset :
449608002 ReferencedComponent = (<< Upper abdomen structure) : Finding site = *)

- FROM concept WHERE id IN (< |Clinical finding|) AND definitionStatus = |primitive| SELECT id, moduleld FROM concept, ECL("< |Clinical finding") CF WHERE concept.id = CF.sctid
- AND definitionStatus = |primitive|

Potential syntax to consider (brainstorming ideas)

SELECT id, moduleId

• SELECT ??

- SELECT ??? |id|, ??? |moduleId|

WHERE 123 |referenced component| = (< 888 |Upper abdomen structure| {{ term = "*heart*" }})

- FROM concept (< |Clinical finding| {{ term = "*heart*" }} {{ definitionStatus = |primitive| }})
- Question Can we assume some table joins e.g. Concept.id = Description.conceptId etc ??

SELECT 123 |referenced component|, 456 |target component| FROM 799 |Anatomy structure and part association refset|

- Examples

Returning Attributes	Michael Lawley	 Proposal (by Michael) for discussion Currently ECL expressions can match (return) concepts that are either the source or the target of a relationship triple (target is accessed via the 'reverse' notation or 'dot notation', but not the relationship type (ie attribute name) itself. For example, I can write: << 404684003 [Clinical finding] : 363698007 [Finding site] = <<66019005 [Limb structure] << 404684003 [Clinical finding] . 363698007 [Finding site] But I can't get all the attribute names that are used by << 404684003 [Clinical finding] Perhaps something like: ? R.type ? (<< 404684003 [Clinical finding]) This could be extended to, for example, return different values - e.g. ? [Simple map refset].[maptarget] ? (^ Simple map refset[AND < Fracture])
Reverse Member Of	Michael Lawley	 Proposal for discussion What refsets is a given concept (e.g. 421235005 Structure of femur) a member of? Possible new notation for this: ^ . 421235005 Structure of femur ? X ? 421235005 Structure of femur = ^ X

Expression Templates	Peter G. Williams	 ON HOLD WAITING FROM IMPLEMENTATION FEEDBACK FROM INTERNAL TECH TEAM WIP version - https://confluence.ihtsdotools.org/display/WIPSTS/Template+Syntax+Specification Added a 'default' constraint to each replacement slot - e.g. default (72673000 [Bone structure (body structure)]) Enabling 'slot references' to be used within the value constraint of a replacement slot - e.g. [[+id (<< 12037004 [Body structure] [MINUS << Stinding(Stile2) @finding(Stile1)] Allow reference to 'SELF' in role group arrays Adding 'sameValue' and 'allOrNone' constraints to information slots - e.g. sameValue (Ssite), allOrNone (Soccurrence) See changes in red here: 5.1. Normative Specification Examples: [[Hid]]: [111] @my_group sameValue(morphology)] ([Finding site] = [[+id (<<123037004 [Body structure (body structure] (MINUS << Ssite] 'Ssite] 'Ssite] ', Associated morphology] = [+id @my_morphology]] ' Implementation feedback on draft updates to Expression Template Language syntax Use cases from the Quality improvement Project: Multiple instances of the same role group, with some attributes the same and others different. Eg same worphology, toetnidily different use case. Instead of <i>filling</i> template slots, we're looking at existing content and asking "exactly how does this concept fail to comply to this template?" For discussion: [[0.1]] {[[0.1]] 246075003 [Causative agent] = [[+id (< 410607006 [Organism]) @Organism]]} Is it correct to say either one of the cardinality blocks is redundant? What are the implications of 11 on either side? This is less obvious for the self grouped case. Road Forward for SI Generate the parser from the ABNF and implement in the Template Service User Interface to a) allow musers to specify templates at untime b) tabular (auto-completion) lookup STL. Template Service to a) allow musers to
Description Templates	Kai Kewley	 ON HOLD Previous discussion (in Malaysia) Overview of current use Review of General rules for generating descriptions Removing tags, words Conditional removal of words Automatic case significance Generating PTs from target PTs Reordering terms Mechanism for sharing general rules - inheritance? include? Description Templates for translation Status of planned specification

Query Language	Linda Bird	FUTURE WORK
- Summary from previous	Dird	Examples: version and dialect
meetings		 << 64572001 Disease {{ term = "*heart*" }} VERSION http://snomed.info/sct/9000000000207008 /version/20180131 << 64572001 Disease {{ synonym = "*heart*" }} VERSION http://snomed.info/sct
		 << 64572001 Disease {{ FSN = "*heart*" }} VERSION http://snomed.info/sct/900000000207008/ver sion/20180131, DIALECT W
		 << 64572001 Disease {{ preferredTerm = "*heart*"}} VERSION http://snomed.info/sct /9000000000207008/version/20180131, DIALECT Y
		 << 64572001 Disease {{ acceptableTerm = "*heart*"}} VERSION http://snomed.info/sct /9000000000207008/version/20180131, DIALECT Y
		 (* {{ term = "*heart*" }} VERSION http://snomed.info/sct/9000000000207008/version/20180131, DIAL ECT Z) MINUS
		(* {{ term = "*heart*" }} VERSION http://snomed.info/sct/9000000000000000000/version/20170731, DIAL ECT W)
		 X MINUS Y WHERE X = * , Y = (* {{ term = "*heart*" }}) VERSION http://snomed.info/sct /9000000000207008/version/20180131, DIALECT W
		Notes
		 Allow nested where, version, language Scape of versionles is incer succession
		 Scope of variables is inner query

File Modified

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