2018-06-06 - SLPG Meeting

Date & Time

20:00 UTC Wednesday 6th June 2018

Teleconference Details

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

Further information can be found at SLPG meeting information

Goals

- Progress SNOMED Query language
  - Discuss use of multiple language reference sets
- URI standard
  - URI for canonical normal form
  - URI for necessary (long/short) normal form
- Future goals:
  - Transitive relationships in ECL
  - Ability to execute maps from within ECL

Attendees

- Chair: Linda Bird
- Project Group: Michael Lawley, Ed Cheetham, Rob Hausam

Apologies

Anne Randorff Højen

Agenda and Meeting Notes

Description	Owner	Notes
Welcome and apologies	Linda Bird	
Query Language - Recap from previous meetings	Linda Bird	**Examples: version and language** ◦ << 64572001 |Disease| {{ term = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131 ◦ << 64572001 |Disease| {{ synonym = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131 ◦ << 64572001 |Disease| {{ FSN = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131 ◦ << 64572001 |Disease| {{ FSN = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** W ◦ << 64572001 |Disease| {{ preferredTerm = "*heart*"}} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** Y ◦ << 64572001 |Disease| {{ acceptableTerm = "*heart*"}} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** Y ◦ (* {{ term = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** Z) MINUS (* {{ term = "*heart*" }} **VERSION** http://snomed.info/sct/900000000000207008/version/20170731, **LANGUAGE** W) ◦ X MINUS Y **WHERE** X = * , Y = (* {{ term = "*heart*" }}) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** W **Notes** ◦ Allow nested where, version, language ◦ Scope of variables is inner query

Examples: where

- X MINUS >! X **WHERE** X = (<< 1234 : 5678 = << 6547)
- X MINUS >! X **WHERE** X = (<< 1234 : 5678 = << 6547) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131
- X MINUS >! Y **WHERE** X = (<< 1234 : 5678 = << 6547), Y = (<< 1456) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131
- X MINUS >! X **WHERE** X = (<< 1234 : 5678 = << 6547) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131 , **LANGUAGE** 900000000000508004 |GB English|
- X MINUS >! X **WHERE** X = (<< 1234 : 5678 = << 6547) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** 999001881000000108|GB clinical extension LRS|, 900000000000508004 |GB English|
- X minus >! X **WHERE** X = (< M **WHERE** M = (< 1234))) **VERSION** http://snomed.info/sct/900000000000207008/version/20180131, **LANGUAGE** 999001881000000108|GB clinical extension LRS|, 900000000000508004 |GB English|

Notes

- Allow nested variable definitions, but recommend that people don't due to readability
- Scope of variables is the inner query
- No recursion e.g X **WHERE** X = 1234 MINUS X
  - ie can't use a variable in its own definition
  - ie X is only known on the left of the corresponding **WHERE**, and not on the right of the **WHERE**

Query Language - Recap from previous meetings	Linda Bird	**What filter keywords will we introduce for Term-based searching, and what are their exact meanings?**
		
		• **D.term**
		  ○ D.term = "*heart*"
		  ○ D.term = wild:"*heart*"
		  ○ D.term = regex:".*heart.*"
		  ○ D.term = match:"hear att"
		  ○ D.term = (sv) wild: "*heart*"
		• **D.languageCode**
		  ○ D.languageCode = "en"
		  ○ D.languageCode = "es"
		• **D.caseSignificanceId**
		  ○ D.caseSignificanceId = 900000000000448009 |entire term case insensitive|
		  ○ D.caseSignificanceId = 900000000000017005 |entire term case sensitive|
		  ○ D.caseSignificanceId = 900000000000020002 |only initial character case insensitive|
		• **D.caseSignificance**
		  ○ D.caseSignificance = "insensitive"
		  ○ D.caseSignificance = "sensitive"
		  ○ D.caseSignificance = "initialCharInsensitive"
		• **D.typeId**
		  ○ D.typeId = 900000000000003001 |fully specified name|
		  ○ D.typeId = 900000000000013009 |synonym|
		  ○ D.typeId = 900000000000550004 |definition|
		• **D.type**
		  ○ D.type = "FSN"
		  ○ D.type = "fullySpecifiedName"
		  ○ D.type = "synonym"
		  ○ D.type = "textDefinition"
		• **D.acceptabilityId**
		  ○ D.acceptabilityId = 900000000000549004 |acceptable|
		  ○ D.acceptabilityId = 900000000000548007 |preferred|
		• **D.acceptability**
		  ○ D.acceptability = "acceptable"
		  ○ D.acceptability = "preferred"
		
		Additional Syntactic Sugar
		
		• **FSN**
		  ○ FSN = "*heart"
		  ▪ D.term = "*heart", D.type = "FSN"
		  ▪ D.term = "*heart", D.typeId = 900000000000003001 |fully specified name|
		  ○ FSN = "*heart" **LANGUAGE** X
		  ▪ D.term = "*heart", D.type = "FSN", D.acceptability = * **LANGUAGE** X
		  ▪ D.term = "*heart", D.typeId = 900000000000003001 |fully specified name|, acceptabilityId = * **LANGUAGE** X
		• **synonym**
		  ○ synonym = "*heart"
		  ▪ D.term = "*heart", D.type = "synonym"
		  ▪ D.term = "*heart", D.typeId = 900000000000013009 |synonym|
		  ○ synonym = "*heart" **LANGUAGE** X
		  ▪ D.term = "*heart", D.type = "synonym", D.acceptability = * **LANGUAGE** X
		  ▪ D.term = "*heart", D.typeId = 900000000000013009 |synonym|, (D.acceptabilityId = 900000000000549004 |acceptable| OR D.acceptabilityId = 900000000000548007 |preferred|) **LANGUAGE** X
		• **synonymOrFSN**
		  ○ synonymOrFSN = "*heart"
		  ▪ synonym = "*heart" OR FSN = "*heart"
		  ▪ D.term = "*heart", (D.type = "synonym" OR D.type = "fullySpecifiedName")
		  ○ synonymOrFSN = "*heart" **LANGUAGE** X
		  ▪ synonym = "*heart" OR FSN = "*heart" **LANGUAGE** X
		  ▪ D.term = "*heart", (D.type = "synonym" OR D.type = "fullySpecifiedName"), D.acceptability = * **LANGUAGE** X
		• **textDefinition**
		  ○ textDefinition = "*heart"
		  ▪ D.term = "*heart", D.type = "definition"
		  ▪ D.term = "*heart", D.typeId = 900000000000550004 |definition|
		  ○ textDefinition = "*heart" **LANGUAGE** X
		  ▪ D.term = "*heart", D.type = "definition", D.acceptability = * **LANGUAGE** X
		  ▪ D.term = "*heart", D.typeId = 900000000000550004 |definition|, D.acceptabilityId = * **LANGUAGE** X
		• **Unacceptable Terms**
		  ○ (D.term = "*heart") MINUS (D.term = "*heart", (D.acceptability = "acceptable" OR D.acceptability = "preferred") **LANGUAGE** X)

Query Language - Combining language reference sets	Linda Bird	**How do we support language preferences, which are defined over multiple language reference sets?**
		For example:
		• **LRSs that use the same Language tend to use 'Addition' - i.e. child LRS only includes additional acceptable terms, but can override the preferred term**
		  ○ **E.g. Regional LRS that adds local dialect to a National LRS**
		  ○ **E.g. Specialty-specific LRS**
		  ○ **E.g. Irish LRS that adds local preferences to the en-GB LRS**
		  ▪ 99999900 |Irish language reference set| **PLUS** |GB English reference set|
		• **LRSs that define a translation to a different language tend to use 'Replacement' - i.e. child LRS replaces set of acceptable and preferred terms for any associated concept**
		  ○ **E.g. Danish LRS that does a partial translation of the International Release**
		  ▪ 999999 |Danish language reference set| **ELSE** |GB English reference set|

URI Specification	Linda Bird	• Status update
		• URLs for canonical necessary normal form and necessary (long/short) normal form
		  ○ Necessary normal form (short) - http://snomed.org/snf, http://snomed.org/snform
		  ○ Necessary normal form (long) - http://snomed.org/lnf, http://snomed.org/lnform
		  ○ Canonical normal form (short) - http://snomed.org/cnf, http://snomed.org/cnform
		  ○ Close to user form - http://snomed.org/ctuf, http://snomed.org/ctuform
		• Next Meeting:
		  ○ Recap on purpose of SNOMED CT computable language URIs?
		  ○ Recap on language instance URIs (e.g. URIs for expressions and expression constraints)

Other topics	Linda Bird	Other topics for discussion. For example: • Query language - Can we de-scope relationship filters? • ECL suggestions - Ability to execute maps in ECL ○ The specific use-case here comes initially from Jeremy and relates to being able to work with inactive concepts via the historical association maps. For example, given an ECL expression, e, that identifies a set of concepts to be used for retrieving patient records, you probably also want to retrieve records for sameAs(e) and replacedWith(e)
Confirm next meeting date /time	Linda Bird	The next SLPG meeting will be held in 2 weeks at 20:00 UTC on **Wednesday 4th July**.

File	Modified

No files shared here yet.