

2018-04-25 - SLPG Meeting

Date & Time

20:00 UTC Wednesday 25th April 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](#)

Attendees

- Chair: [Linda Bird](#)
- Project Group: [Michael Lawley](#), [Rob Hausam](#), [Ed Cheetham](#), [Guillermo Reynoso](#)

Goals

- Progress SNOMED Query language
- DL Group: Necessary Long Normal Form + Canonical Normal Form
- Future weeks: Transitive relationships in ECL
- Future weeks: Ability to execute maps from within ECL
- Future weeks: URI standard

Apologies

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/900000000000207008/20180131 ◦ << 64572001 Disease {{ synonym = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131 ◦ << 64572001 Disease {{ FSN = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131 ◦ << 64572001 Disease {{ FSN = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131, LANGUAGE W ◦ << 64572001 Disease {{ preferredTerm = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131, LANGUAGE Y ◦ << 64572001 Disease {{ acceptableTerm = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131, LANGUAGE Y ◦ (* {{ term = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20180131, LANGUAGE Z) MINUS (* {{ term = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/20170731, LANGUAGE W) ◦ X MINUS Y WHERE X = * , Y = (* {{ term = "*heart*" }}) VERSION http://snomed.info/sct/900000000000207008/20180131, 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/900000000000207008/20180131 ◦ X MINUS >! Y WHERE X = (<< 1234 : 5678 = << 6547), Y = (<< 1456) VERSION http://snomed.info/sct/900000000000207008/20180131 ◦ X MINUS >! X WHERE X = (<< 1234 : 5678 = << 6547) VERSION http://snomed.info/sct/900000000000207008/20180131 , LANGUAGE 900000000000508004 [GB English] ◦ X MINUS >! X WHERE X = (<< 1234 : 5678 = << 6547) VERSION http://snomed.info/sct/900000000000207008/20180131, LANGUAGE 999001881000000108[GB clinical extension LRS], 900000000000508004 [GB English] ◦ X minus >! X WHERE X = (< M WHERE M = (< 1234))) VERSION http://snomed.info/sct/900000000000207008/20180131, 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
Filters for Lexical Searching	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.caseSignificancelD ◦ D.caseSignificancelD = 900000000000448009 [entire term case insensitive] ◦ D.caseSignificancelD = 900000000000017005 [entire term case sensitive] ◦ D.caseSignificancelD = 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 = 9000000000000550004 [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" ◦ D.acceptability = "unacceptable" Additional Syntactic Sugar

		• FSN ? ◦ FSN = "*heart" ◦ D.term = "*heart", D.type = "FSN", (D.acceptability = "acceptable" OR D.acceptability = "preferred") ◦ D.term = "*heart", D.typeId = 900000000000003001 [fully specified name], (D.acceptabilityId = 900000000000549004 [acceptable] OR D.acceptabilityId = 900000000000548007 [preferred]) • synonym ? ◦ synonym = "*heart" ◦ D.term = "*heart", D.type = "synonym", (D.acceptability = "acceptable" OR D.acceptability = "preferred") ◦ D.term = "*heart", D.typeId = 900000000000013009 [synonym], (D.acceptabilityId = 900000000000549004 [acceptable] OR D.acceptabilityId = 900000000000548007 [preferred]) • TextDefinition ? ◦ textDefinition = "*heart" ◦ D.term = "*heart", D.type = "definition", (D.acceptability = "acceptable" OR D.acceptability = "preferred") ◦ D.term = "*heart", D.typeId = 900000000000550004 [definition], (D.acceptabilityId = 900000000000549004 [acceptable] OR D.acceptabilityId = 900000000000548007 [preferred]) • preferredSynonym * ◦ preferredSynonym = "*heart" ◦ D.term = "*heart", D.type = "synonym", D.acceptability = "preferred" ◦ D.term = "*heart", D.typeId = 90000000000013009 [synonym], D.acceptabilityId = 900000000000548007 [preferred] • preferredFSN ◦ preferredFSN = "*heart" ◦ D.term = "*heart", D.type = "FSN", D.acceptability = "preferred" ◦ D.term = "*heart", D.typeId = 90000000000003001 [fully specified name], D.acceptabilityId = 900000000000548007 [preferred] • preferredTextDefinition ◦ preferredTextDefinition = "*heart" ◦ D.term = "*heart", D.type = "TextDefinition", D.acceptability = "preferred" ◦ D.term = "*heart", D.typeId = 900000000000550004 [definition], D.acceptabilityId = 900000000000548007 [preferred] • acceptableSynonym * ◦ acceptableSynonym = "*heart" ◦ D.term = "*heart", D.type = "synonym", D.acceptability = "acceptable" ◦ D.term = "*heart", D.typeId = 90000000000013009 [synonym], D.acceptabilityId = 900000000000548007 [preferred] • acceptableFSN * ◦ acceptableFSN = "*heart" ◦ D.term = "*heart", D.type = "FSN", D.acceptability = "acceptable" ◦ D.term = "*heart", D.typeId = 90000000000003001 [fully specified name], D.acceptabilityId = 900000000000549004 [acceptable] • acceptableTextDefinition ◦ acceptableTextDefinition = "*heart" ◦ D.term = "*heart", D.type = "TextDefinition", D.acceptability = "acceptable" ◦ D.term = "*heart", D.typeId = 900000000000550004 [definition], D.acceptabilityId = 900000000000549004 [acceptable]
Query Language - Combining language reference sets	Linda Bird	How do we support language preferences, which are defined over multiple language reference sets? For example: • Suggestion: Use '+' to indicate additive (except for PT), and ',' to indicate priority order (with concept-level override). For example: ◦ LANGUAGE 999001891000000105 [Paediatric neurodisability outpatient diagnosis language reference set] , 900000000000508004 [GB English] ▪ Priority order: This means that if a concept has descriptions in the Paediatric LRS, then this LRS is used. But if a concept has no descriptions in the Paediatric LRS, then GB English is used ◦ LANGUAGE 999001881000000108[GB clinical extension LRS] + 900000000000508004 [GB English] ▪ Additive: This means that if a concept has a PT in both LRSSs, then the PTs in the Paediatric LRS take priority, and the PT in the GB English LRS becomes acceptable. Other terms are acceptable if they are acceptable in either LRS. ◦ LANGUAGE 999001891000000105 [Paediatric neurodisability outpatient diagnosis language reference set] , 999001881000000108[GB clinical extension LRS] + 900000000000508004 [GB English] ▪ Priority order and Additive: This means that if a concept has a PT in both LRSSs, then the PTs in the Paediatric LRS take priority, and the PT in the GB English LRS becomes acceptable. Other terms are acceptable if they are acceptable in either LRS.

Confirm next meeting date/time	Linda Bird	The next SLPG meeting will be held in 2 weeks at 20:00 UTC on Wednesday 9th May .
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