

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 Højén](#)

Agenda and Meeting Notes

| Description | Owner | Notes |
|--|----------------------------|--|
| Welcome and apologies | Linda Bird | |
| Query Language - Recap from previous meetings | Linda Bird | <p>Examples: version and language</p> <ul style="list-style-type: none">◦ << 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 <p>Notes</p> <ul style="list-style-type: none">◦ 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.caseSignificancel**
 - D.caseSignificancel = 900000000000448009 |entire term case insensitive|
 - D.caseSignificancel = 90000000000017005 |entire term case sensitive|
 - D.caseSignificancel = 90000000000020002 |only initial character case insensitive|
- **D.caseSignificance**
 - D.caseSignificance = `"insensitive"`
 - D.caseSignificance = `"sensitive"`
 - D.caseSignificance = `"initialCharInsensitive"`
- **D.typeId**
 - D.typeId = 90000000000003001 |fully specified name|
 - D.typeId = 90000000000013009 |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 = 90000000000003001 |fully specified name|
 - FSN = `"*heart" LANGUAGE X`
 - D.term = `"*heart"`, D.type = `"FSN"`, D.acceptability = `"LANGUAGE X"`
 - D.term = `"*heart"`, D.typeId = 90000000000003001 |fully specified name|, D.acceptabilityId = `"LANGUAGE X"`
- **synonym**
 - synonym = `"*heart"`
 - D.term = `"*heart"`, D.type = `"synonym"`
 - D.term = `"*heart"`, D.typeId = 90000000000013009 |synonym|
 - synonym = `"*heart" LANGUAGE X`
 - D.term = `"*heart"`, D.type = `"synonym"`, D.acceptability = `"LANGUAGE X"`
 - D.term = `"*heart"`, D.typeId = 90000000000013009 |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 | <p>How do we support language preferences, which are defined over multiple language reference sets? For example:</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ◦ 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ◦ E.g. Danish LRS that does a partial translation of the International Release <ul style="list-style-type: none"> ▪ 999999 Danish language reference set ELSE GB English reference set |
| URI Specification | Linda Bird | <ul style="list-style-type: none"> • Status update • URLs for canonical necessary normal form and necessary (long/short) normal form <ul style="list-style-type: none"> ◦ 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: <ul style="list-style-type: none"> ◦ 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 | <p>Other topics for discussion. For example:</p> <ul style="list-style-type: none"> • Query language - Can we de-scope relationship filters? • ECL suggestions - Ability to execute maps in ECL <ul style="list-style-type: none"> ◦ 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.