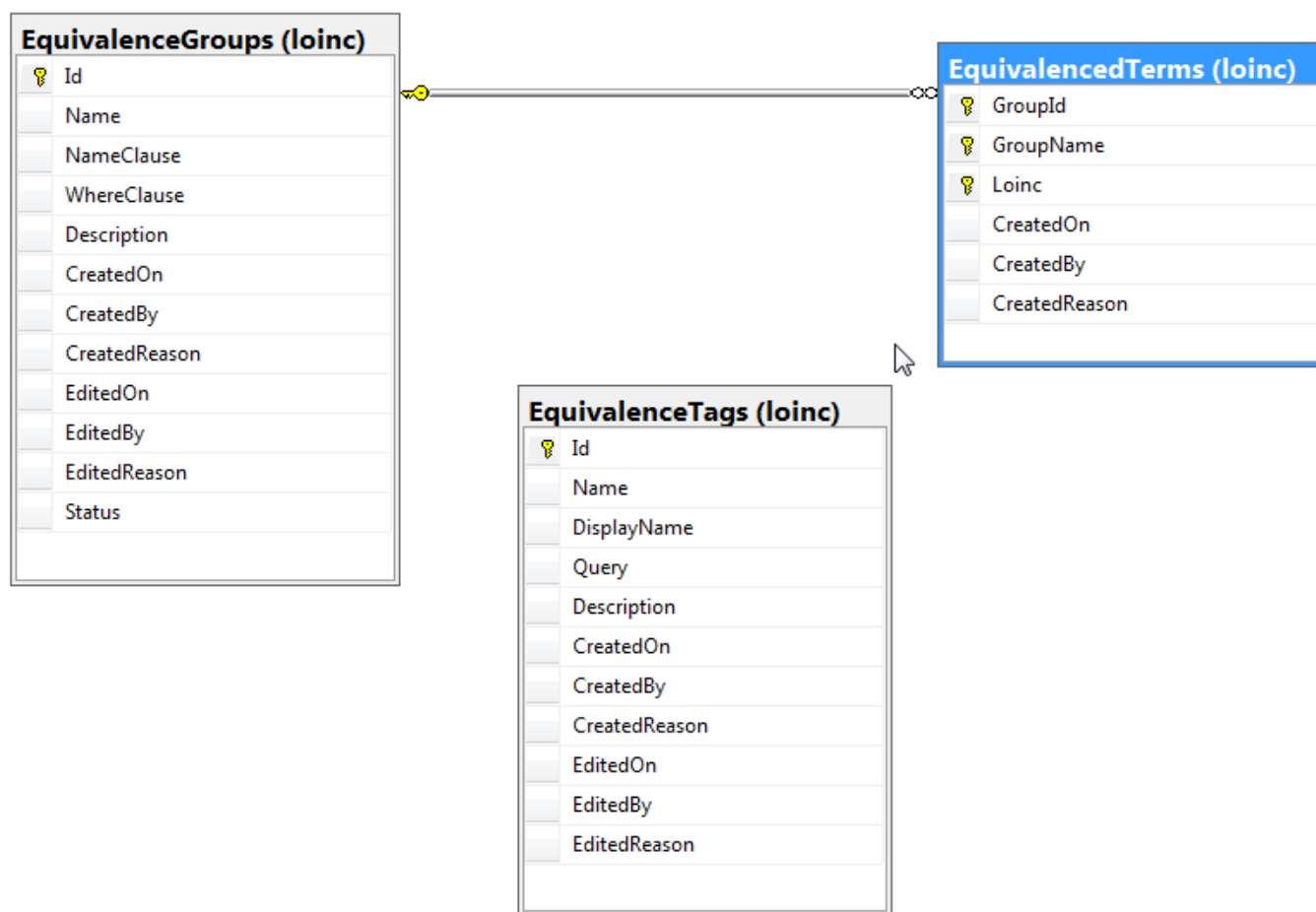


LOINC Equivalenced Terms

Overview

The LOINC equivalencing process is designed to group related LOINC terms into groups that will be useful to clinicians in certain circumstances. Background information on the rational for this process can be found in the [original Basecamp project](#).

Tables



Equivalence tags

Equivalence tags are small fragments of SQL that can be used in a WHERE clause of a query that can be executed against the loinc.LOINC_DETAIL_TYPE_1 table. These tags can be used as "building blocks" in the equivalence groups records to provide a scoping function for the groups.

Tag Ids are strings of the form LT999-9. They are generated automatically when a record is added to the table. The process is controlled by the loinc.EquivalenceTagsSeq database sequence.

Here are a few examples:

Id	Name	Query
LT36-7	Blasts	COMPONENTCORE = 'Blasts'

LT4-5	MCnc	PROPERTYMIXEDCASE = 'MCnc'
LT9-4	Methodless	METHODMIXEDCASE is null

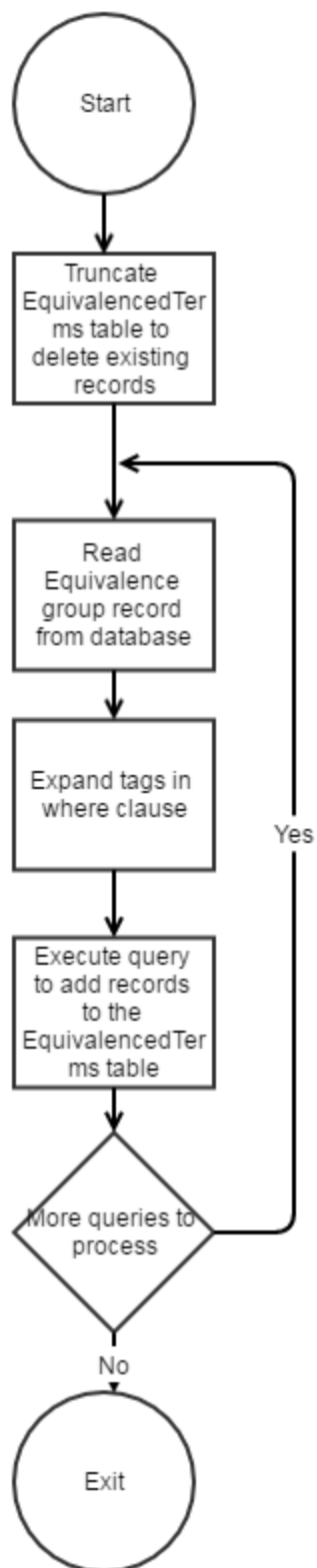
Equivalence groups

The EquivalenceGroups table contain the instructions for creating and naming the output groups. Each record in the table contains one set of instructions. Each instruction is created from the two fields in the table. The NameClause is used as part of a SQL select statement to create the value that will go into the EquivalendTerms.GroupName field. The WhereClause field is constructed of SQL and "Tags." When the "Tags" are expanded, the resulting SQL must be validate SQL that will be used in a WHERE clause against the loinc.LOINC_DETAIL_TYPE_1 table. The resulting query will look something like:

```
WITH Step1 (GrpId, GrpName, LoincNum)
AS (SELECT 'LG16-8',
          [componentcore]
          + [propertymixedcase]
          + [scalemixedcase]
          + [system],
          Ldt.LOINC_NUM
      FROM LOINC.LOINC_DETAIL_TYPE_1 LDT
      WHERE (propertymixedcase = 'Ncnc' AND CLASS = 'HEM/BC')),
Step2 (GrpId, GrpName)
AS (SELECT GrpId, GrpName
      FROM Step1
      GROUP BY GrpId, GrpName
      HAVING COUNT (1) > 1)
INSERT INTO loinc.equivalencedTerms (Groupid,
                                     GroupName,
                                     Loinc,
                                     CreatedReason)
    (SELECT Step1.GrpId,
            Step1.GrpName,
            Step1.LoincNum,
            'Created by loinc.LEG_PopulateEquivalencedTerms() stored
procedure'
      FROM Step1 INNER JOIN Step2 ON Step1.Grpname = Step2.Grpname)
```

Build equivalence groups process

The EquivalencedTerms table is populated by the loinc.LEG_PopulateEquivalencedTerms stored procedure. This procedure runs every night as part of our nightly batch processing. It completely empties the EquivalencedTerms table then repopulates it based on the rules stored in the EquivalenceGroups table. Any errors are logged in the dbo.BatchProcessLog table for viewing in the [daily report](#).



Release artifact

The ultimate goal of this process is to create a release artifact that we distribute with each release. This artifact is a .csv file named <PUTNAMEHERE>.

