# README

This is made with MySQL workbench, and is a model.

I got part of the idea from <http://cleancodedevelopment-qualityseal.blogspot.com/2013/06/translation-multilingualmultilanguage.html> , the last picture, obviously heavily modified.

The important part is that there is a table Word, with only ID, so that translations of each languages can be made in the Translation table.

Also **FieldToTranslate** is very important as a table. The FieldName can be things like “word” ( for the actual word ), or “Description/Explanation”, or “part-of-speech information (e.g. verb, noun, adjective, … that will be entered in the actual Translation table).

The Language table is obvious into what it does.

The SynonymGroup table is necessary as I want to make a group for all words that are synonyms with each other. You need to check the SynonymGroupId of the word you need, and you can easily search for all words that are synonyms.

Antonyms are made as a “loop” or примка to the same table ( Translation, from AntonymId to TranslationId )with a 1:1 relationship(this is why the field is also made unique.)

Hypernyms are made as a “loop” or примка to the same table ( Translation, from HypernimTranslationId to TranslationId )with a 1:n relationship. This way all sub parts ( like oak, pine, walnut-tree ) will point to only one “seed” ( the TranslationId of “tree” in this scenario ).

Made this way the tables should be very optimized and fast.