

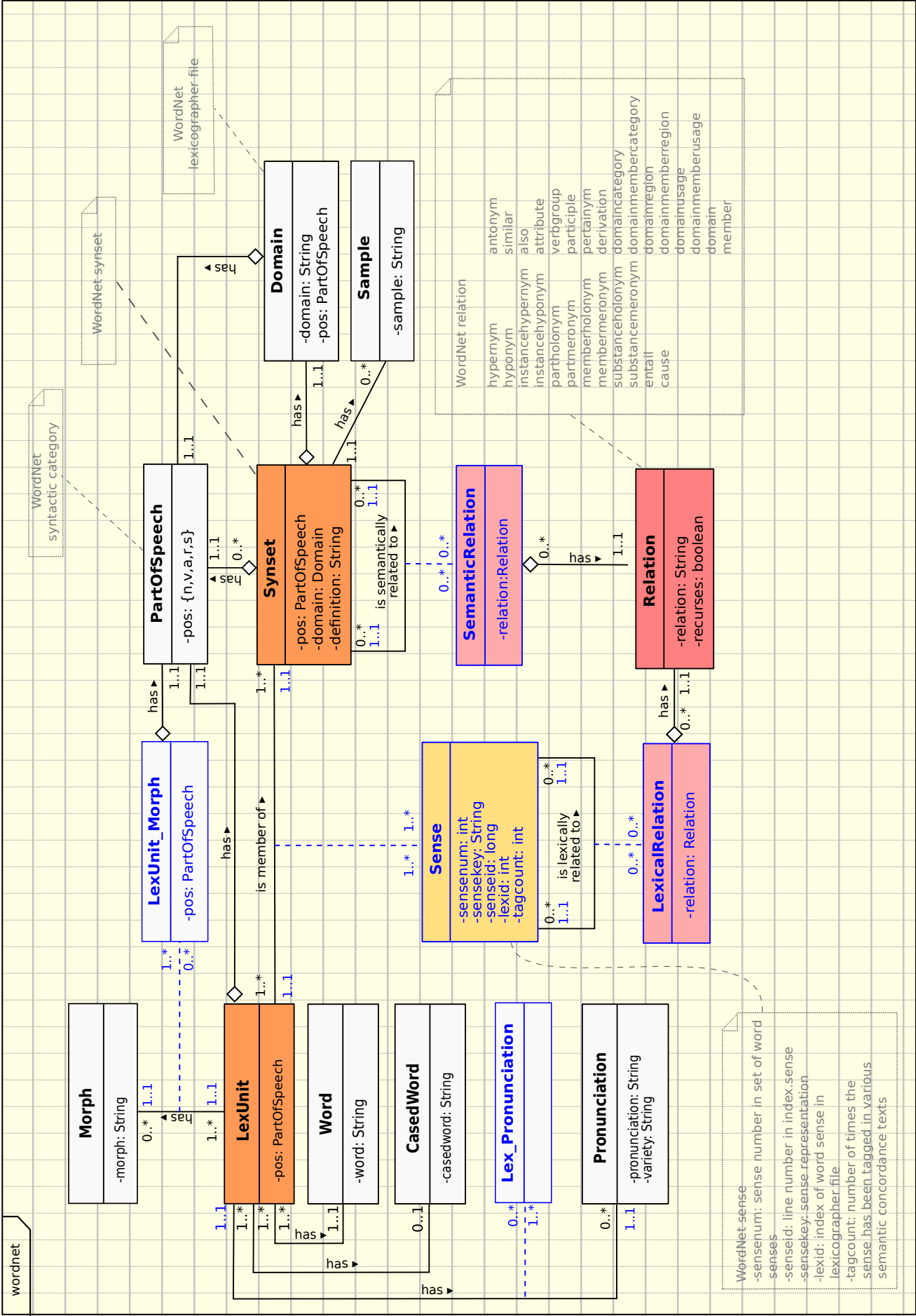


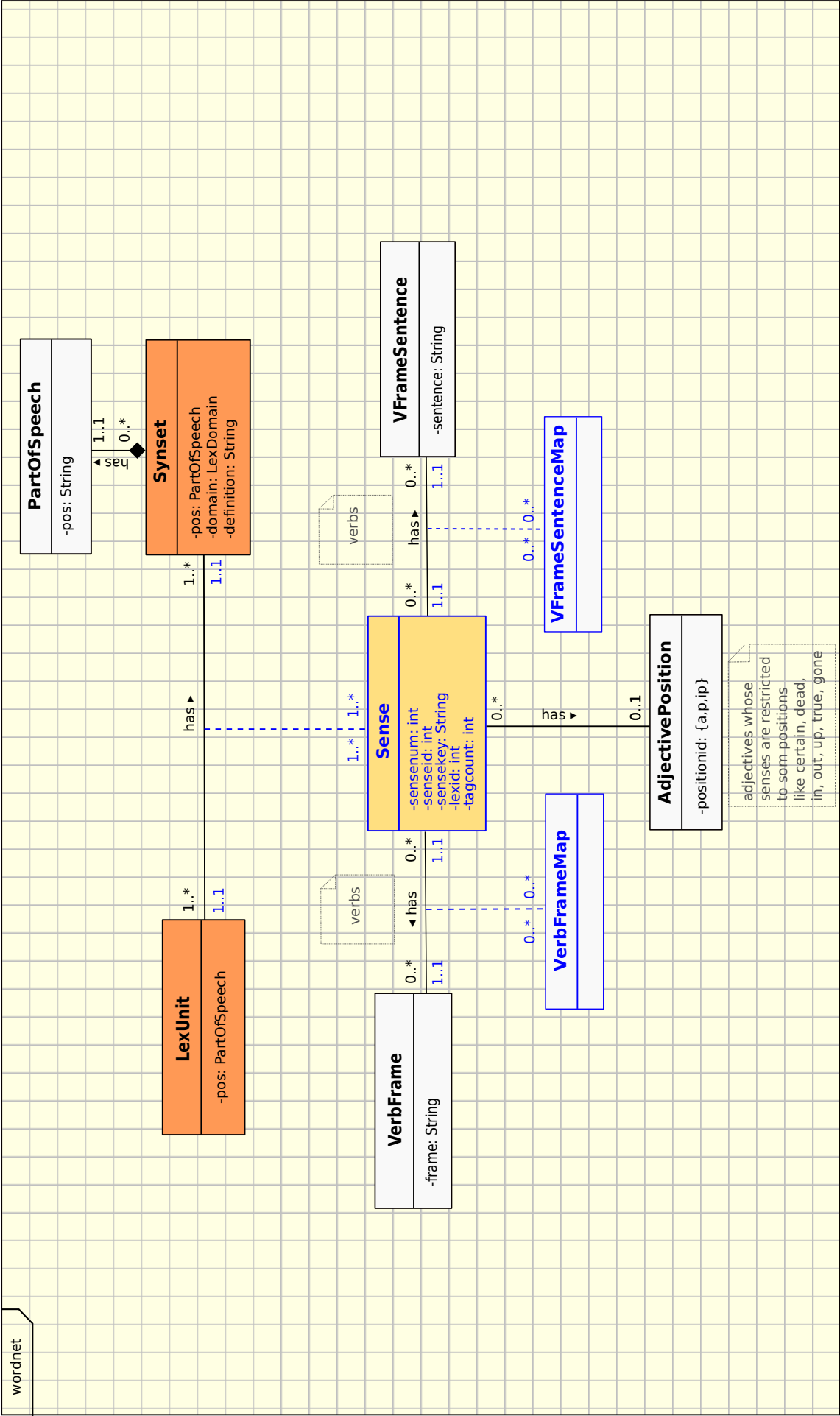
# SQL-UNET DESIGN

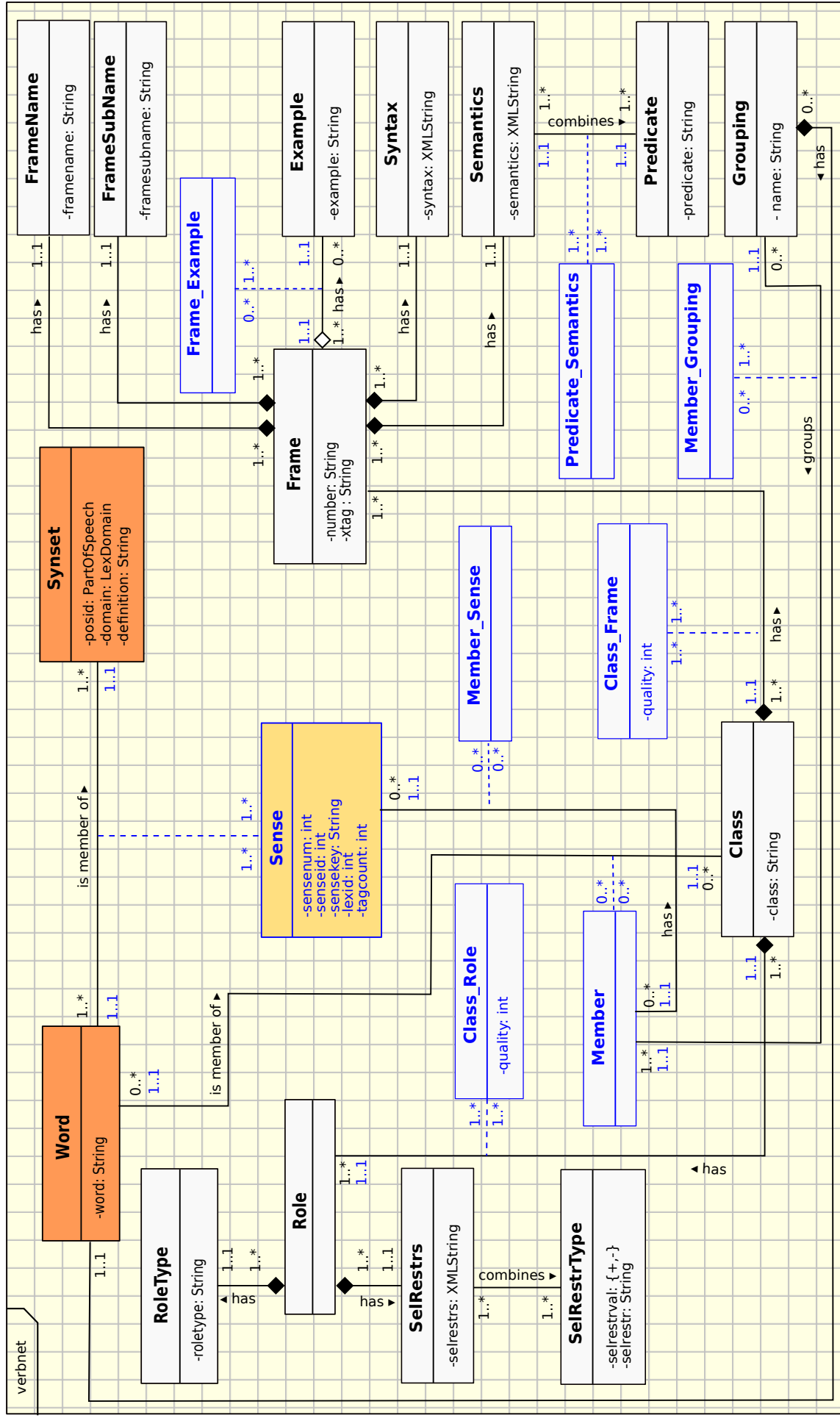
sqlunet 2.0  
version 6.0.0  
September 2022

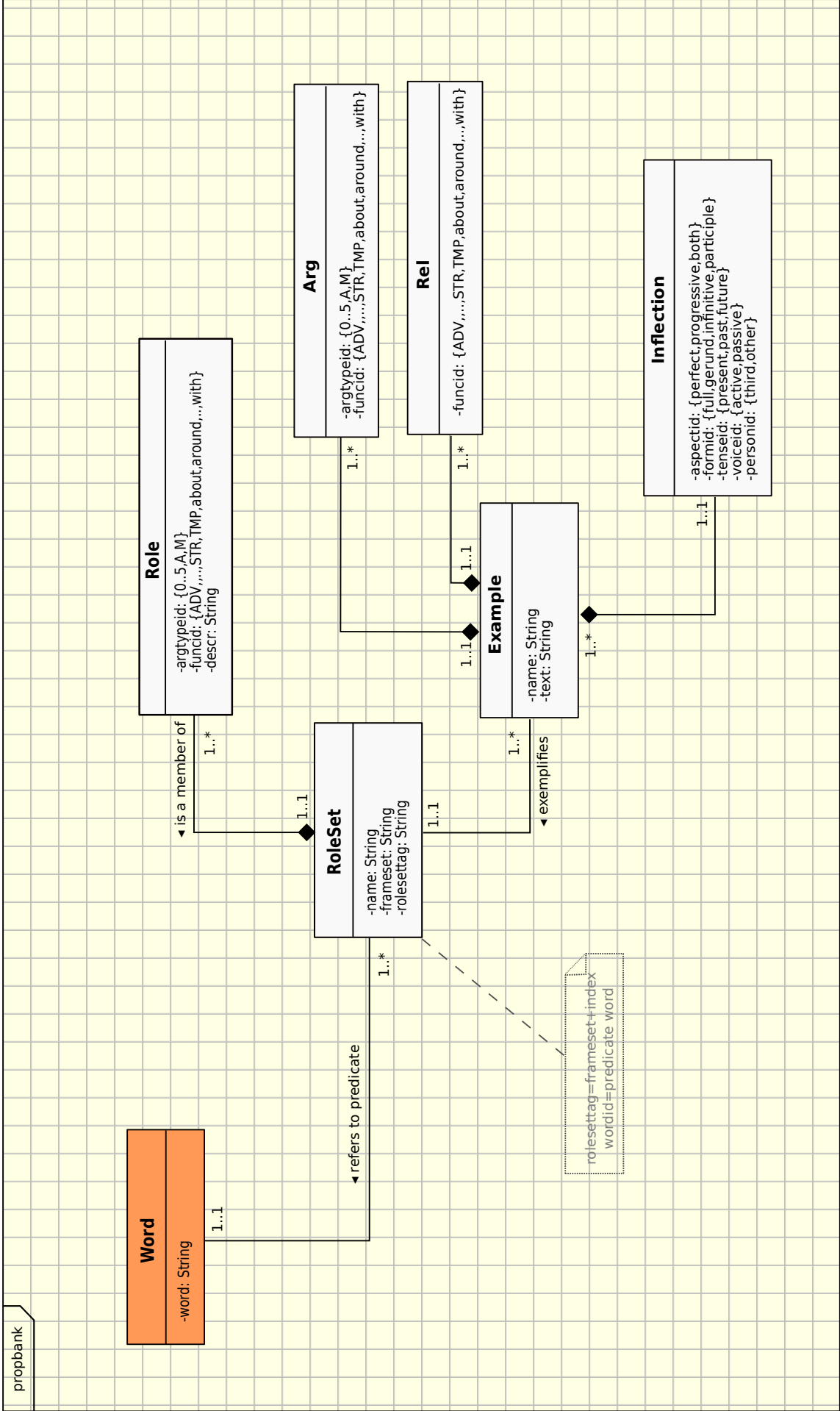
Bernard Bou  
<[sqlunet@gmail.com](mailto:sqlunet@gmail.com)>

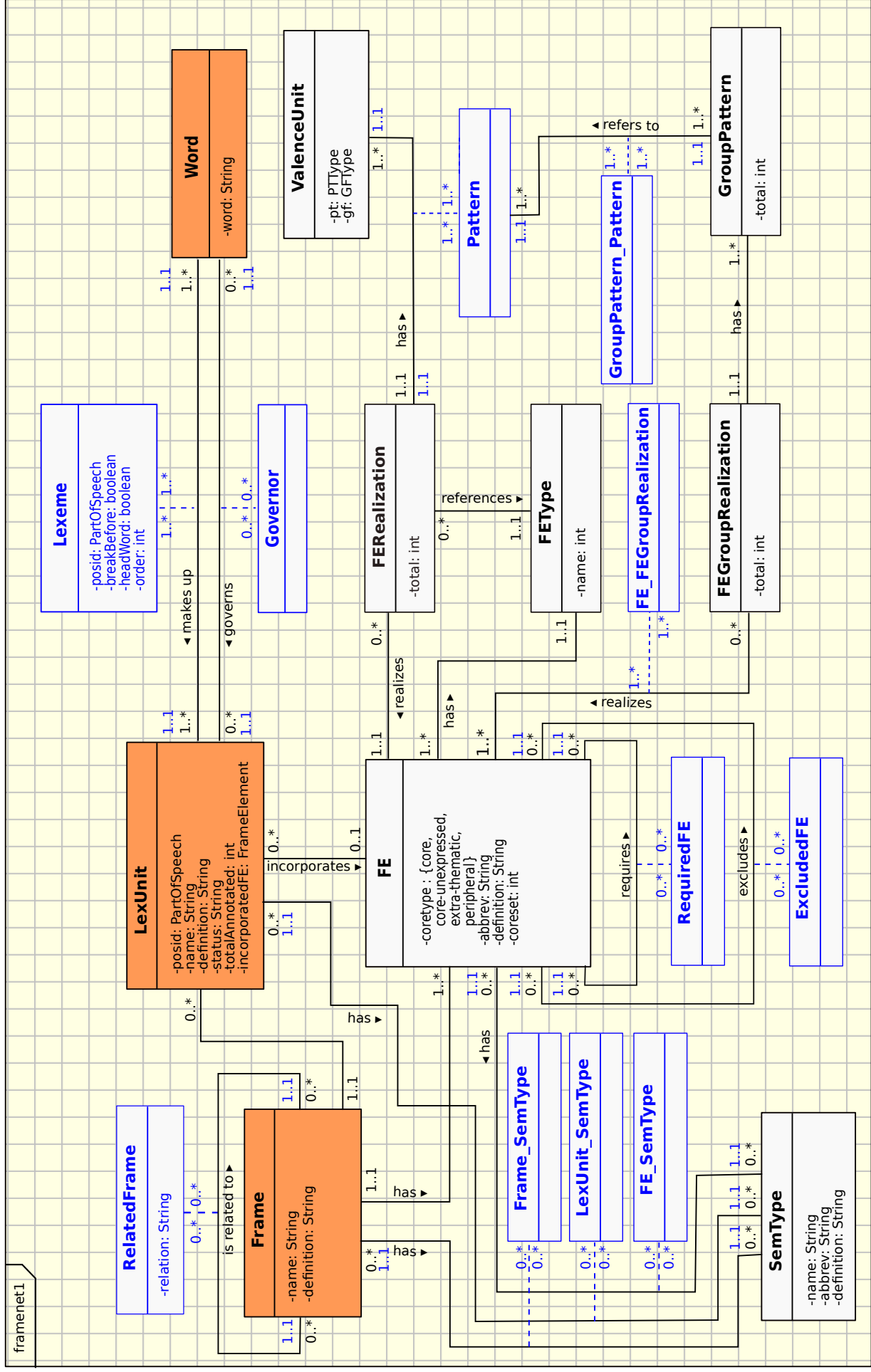
**UML**

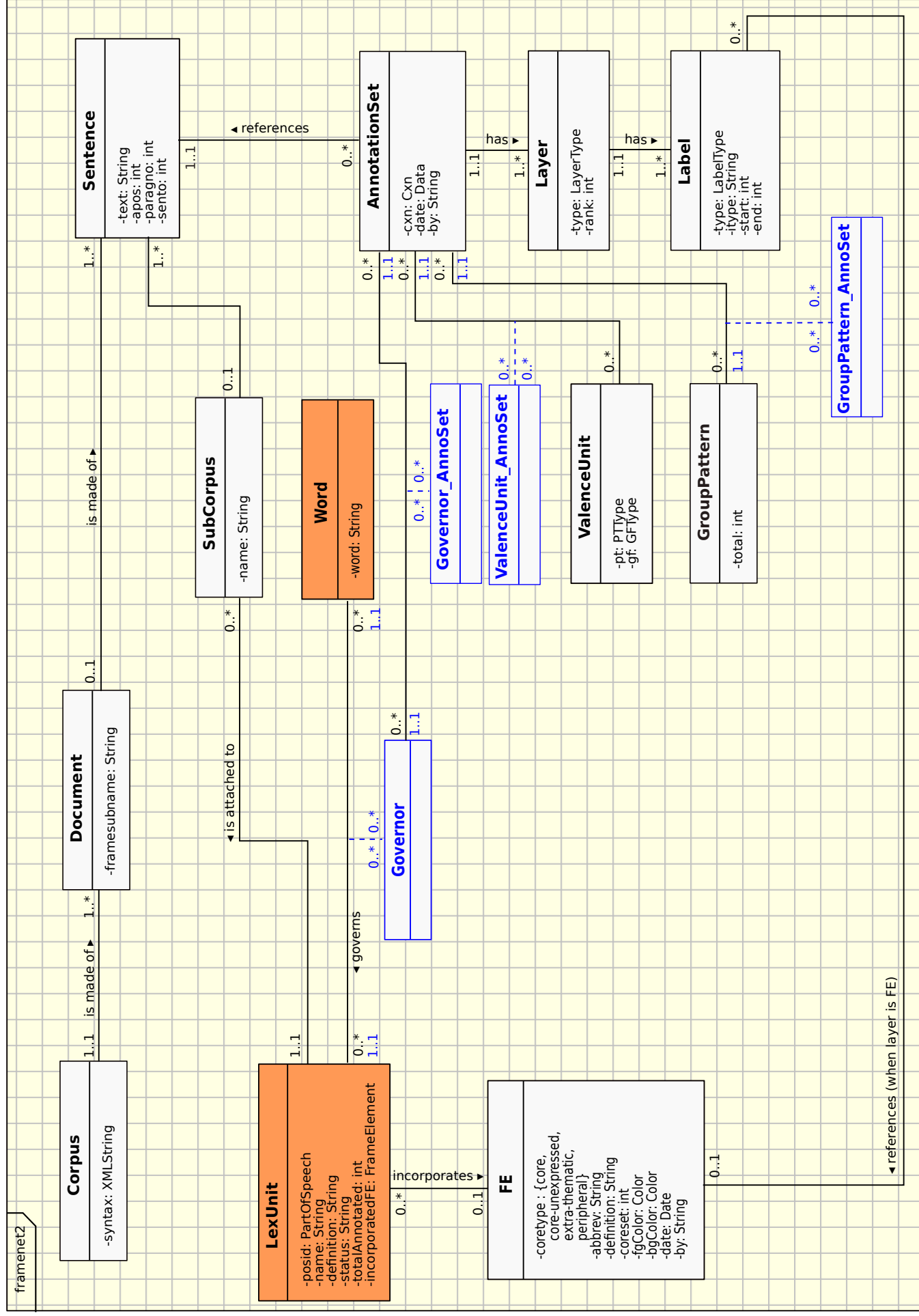




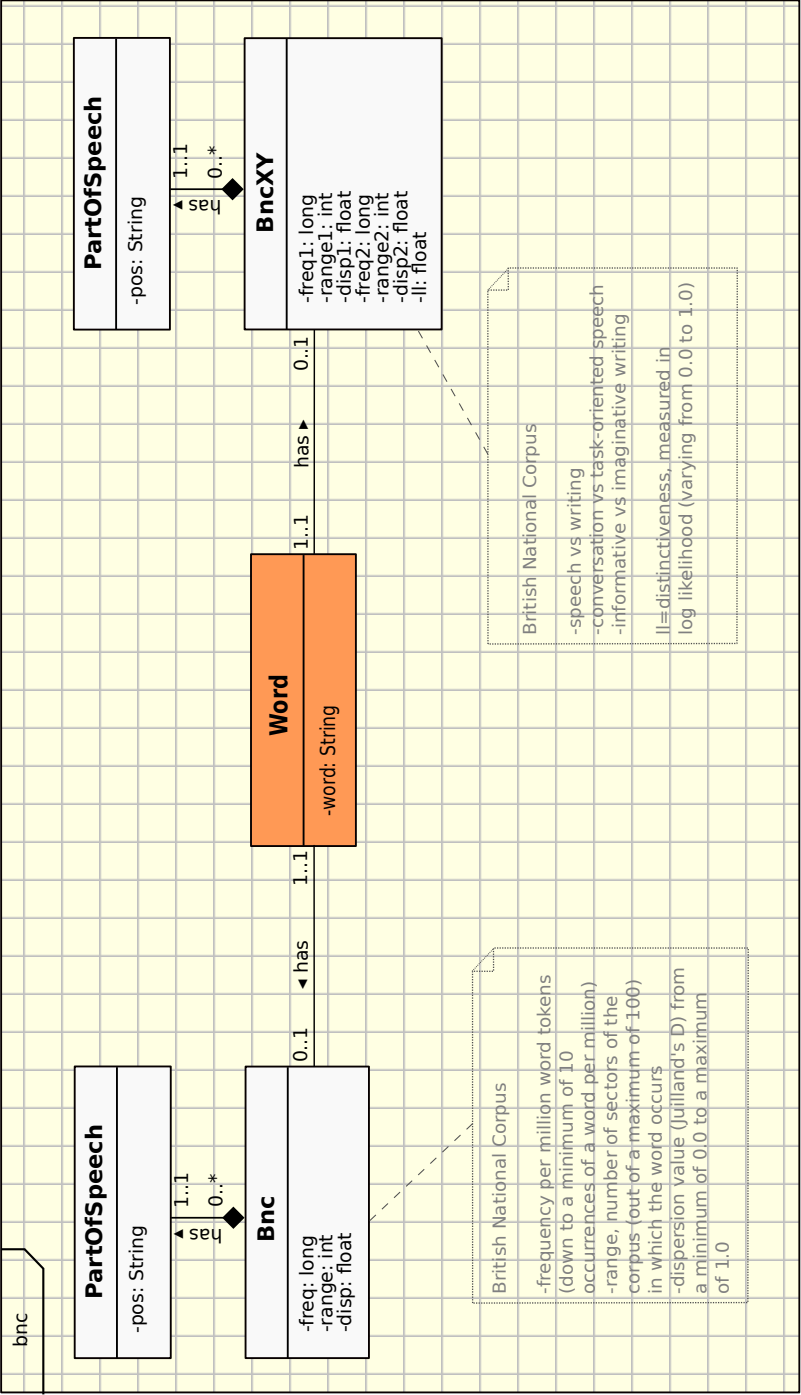


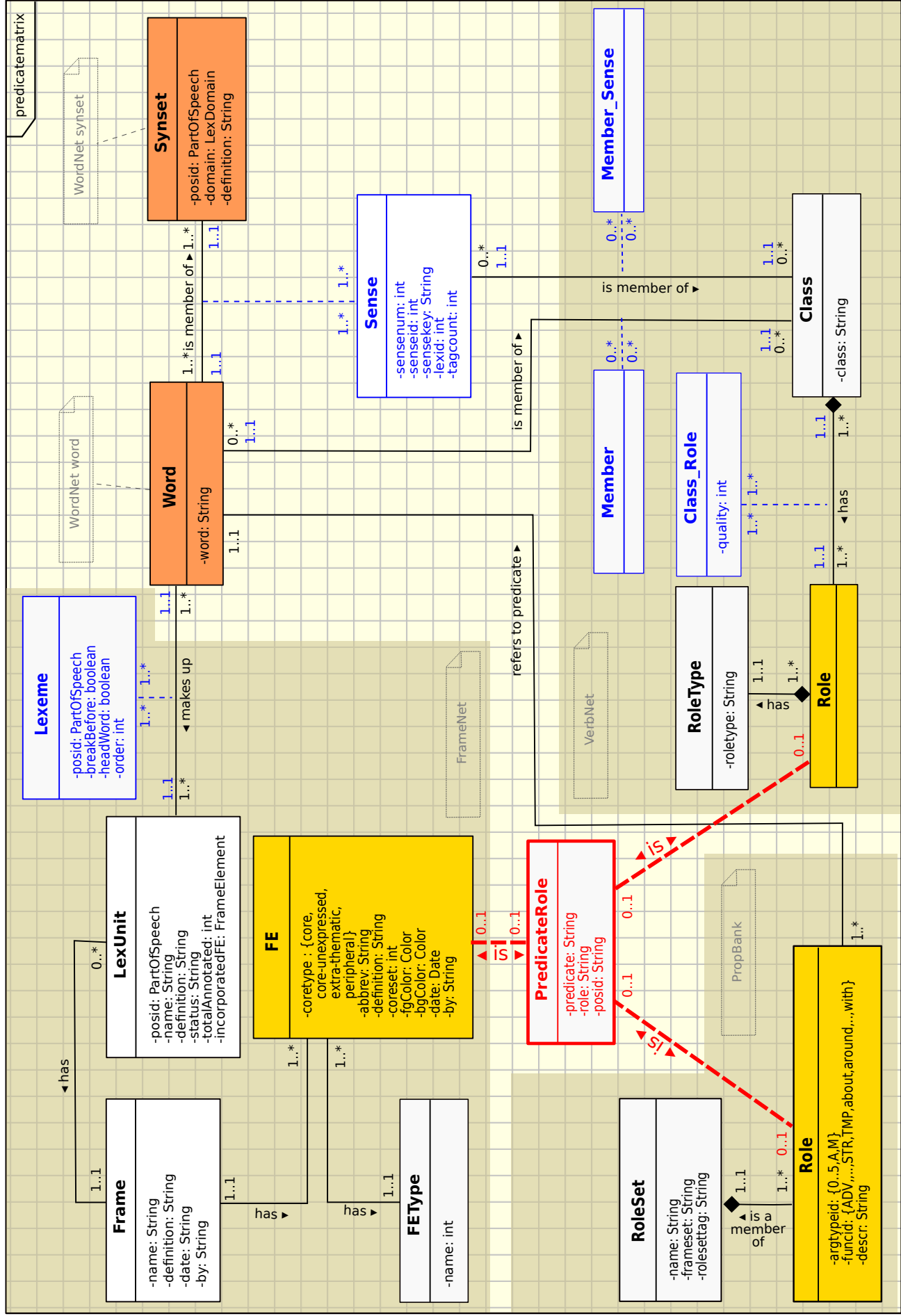




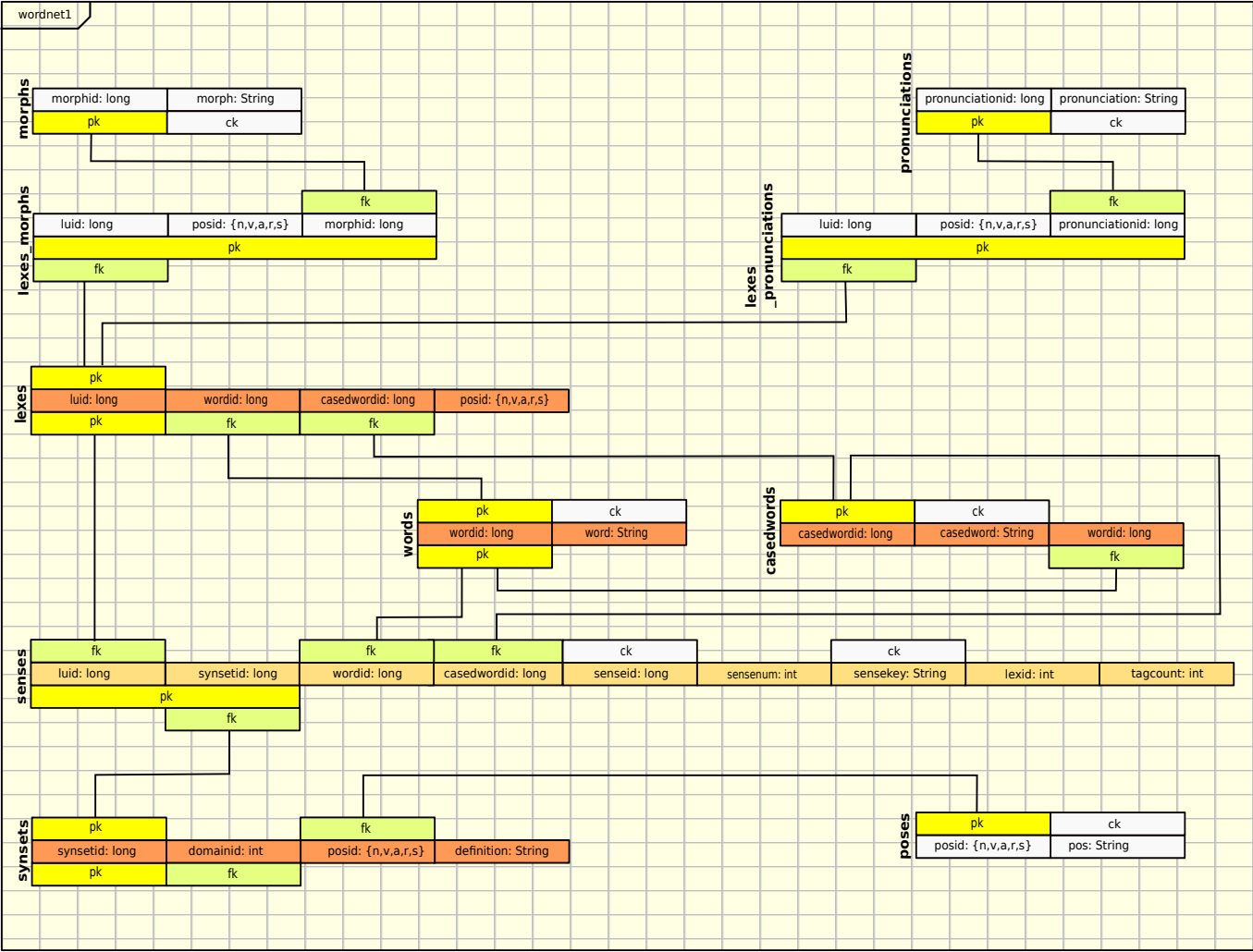




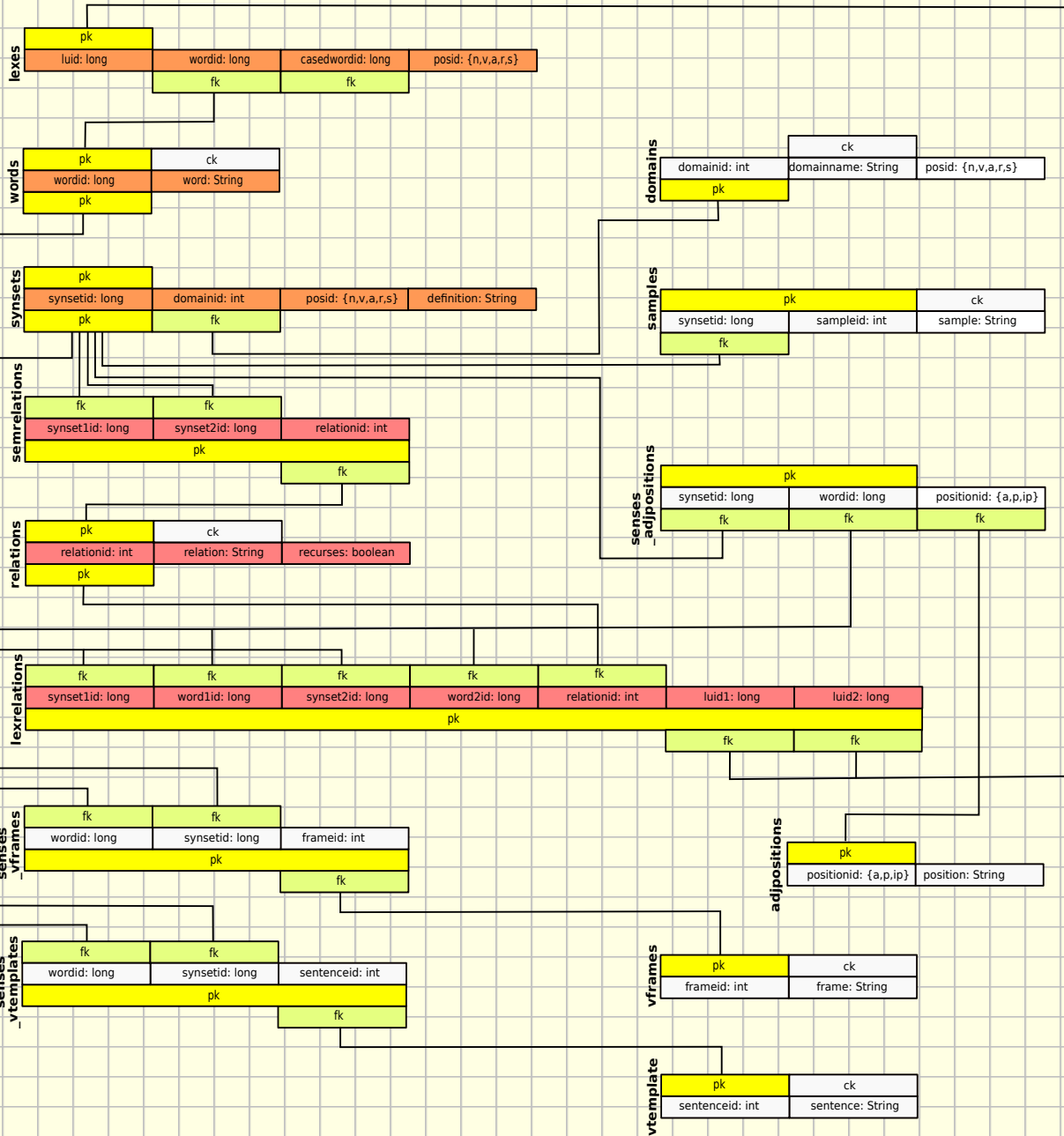


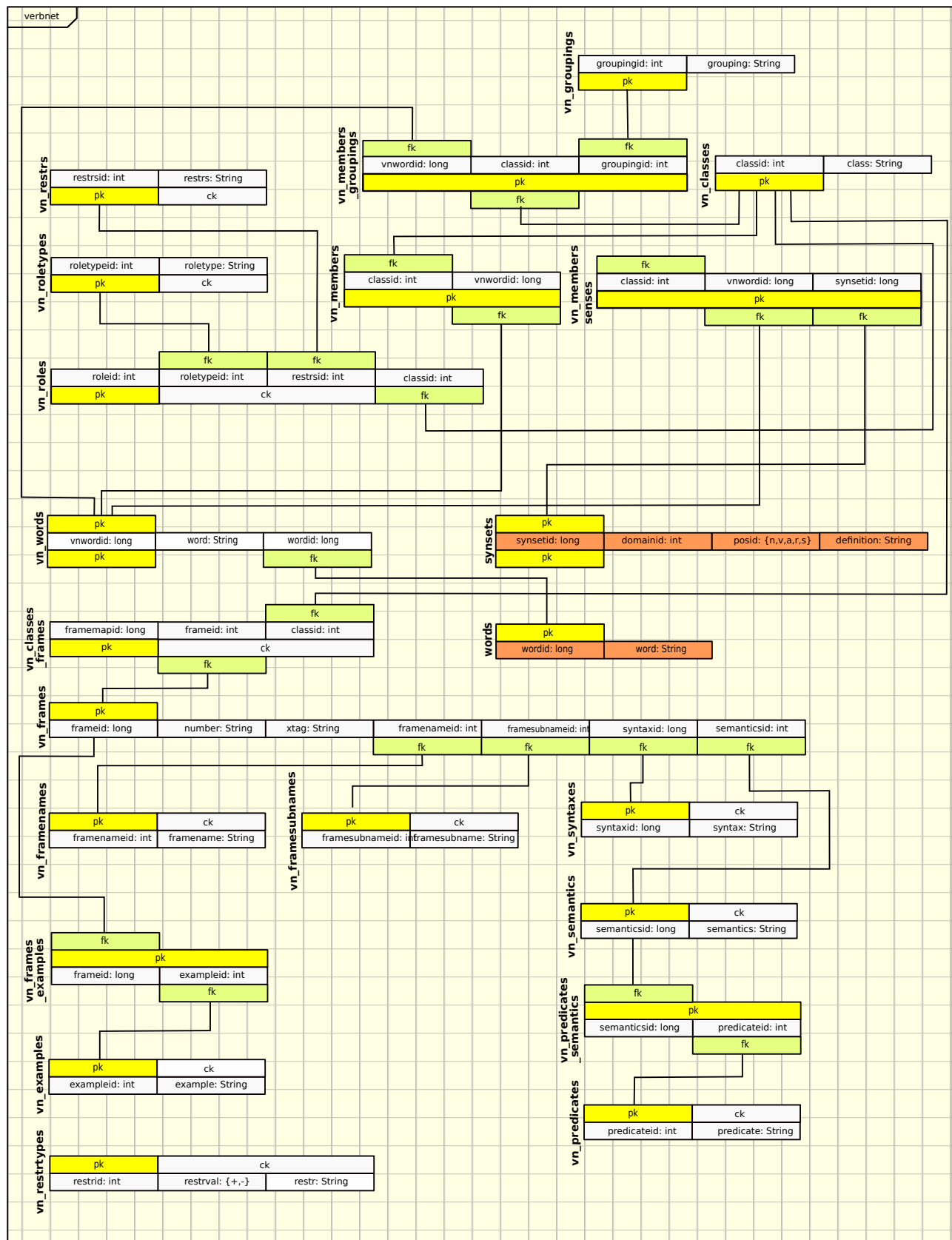


**SCHEMAS**

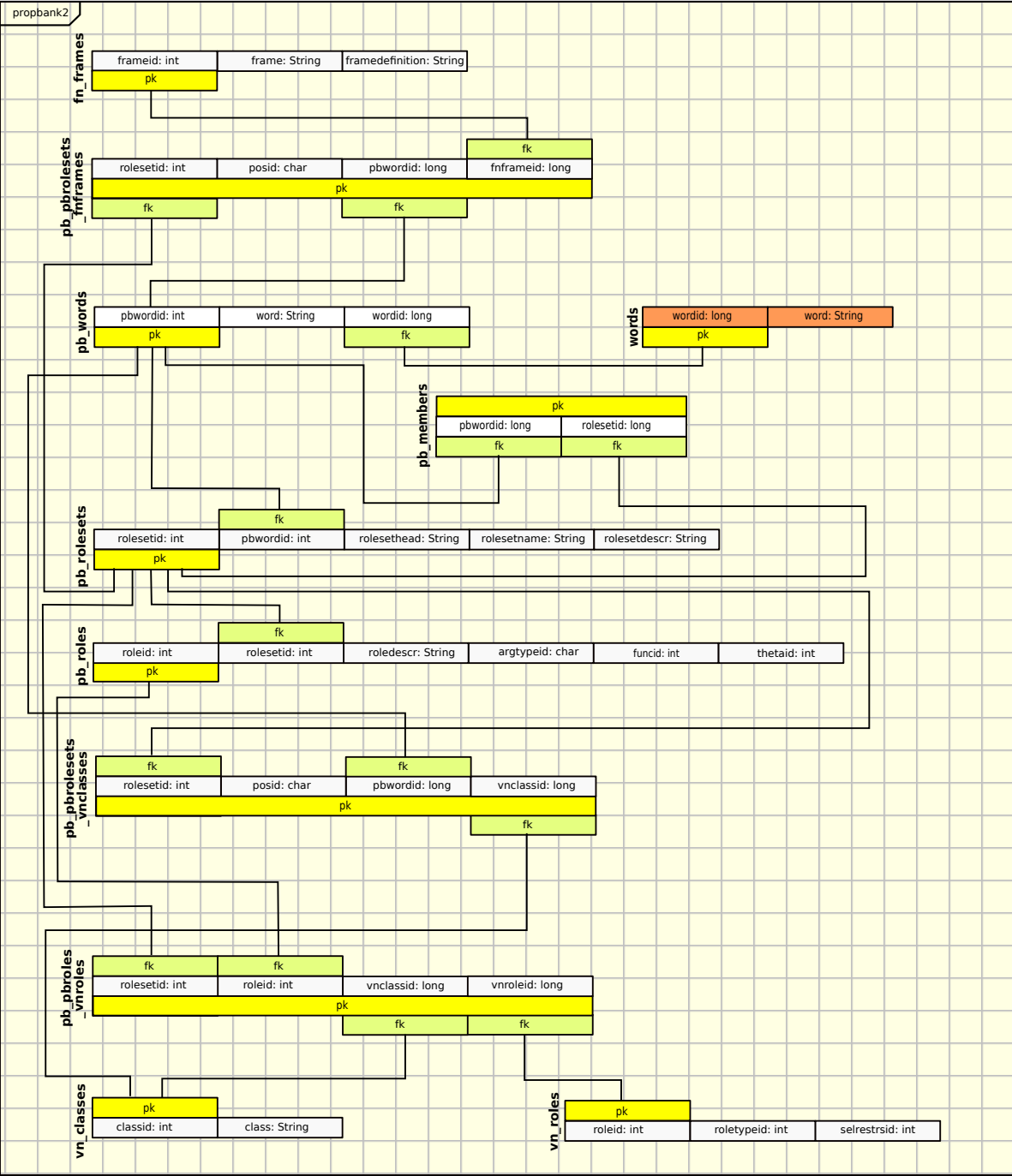


wordnet2

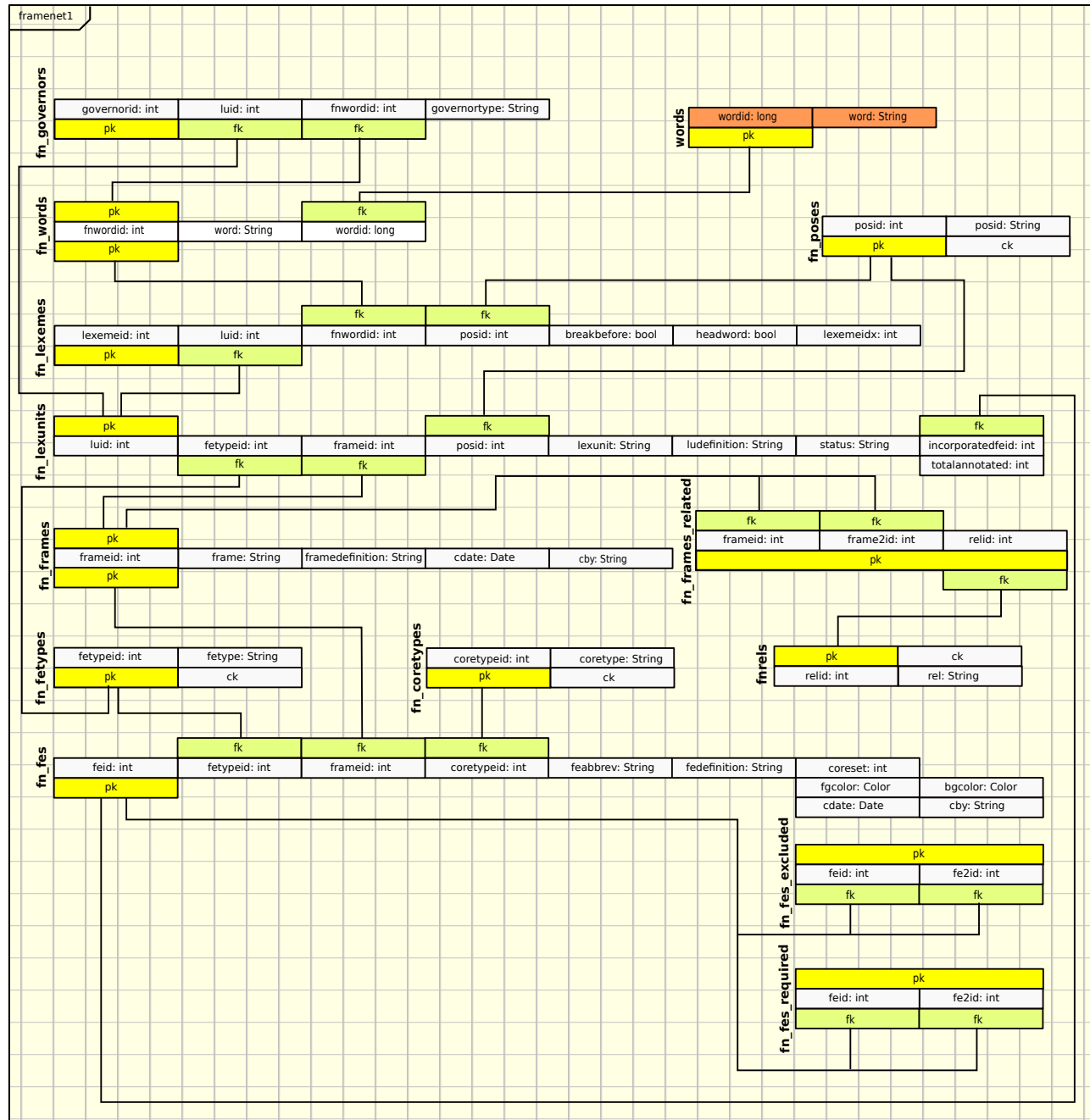


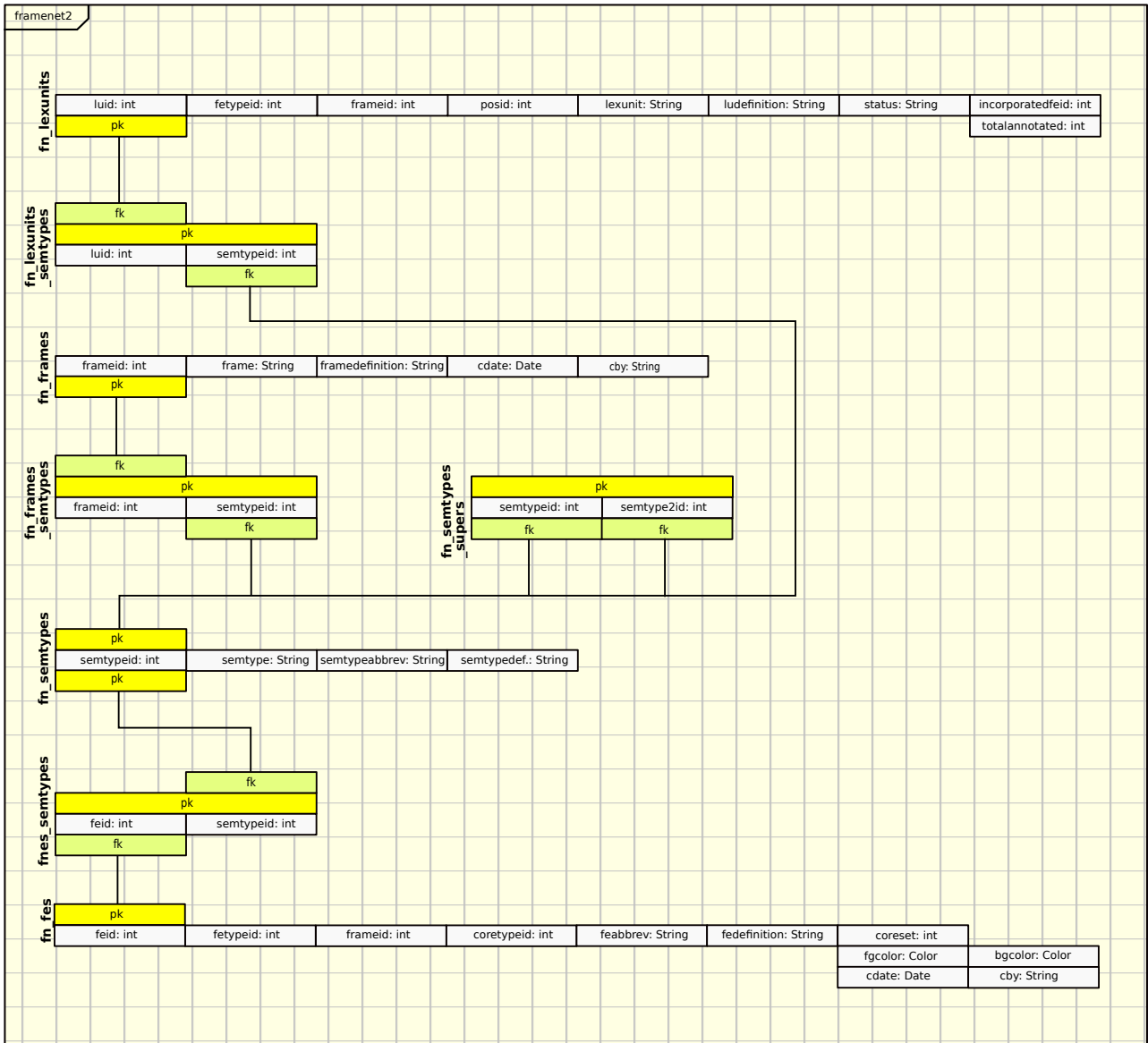


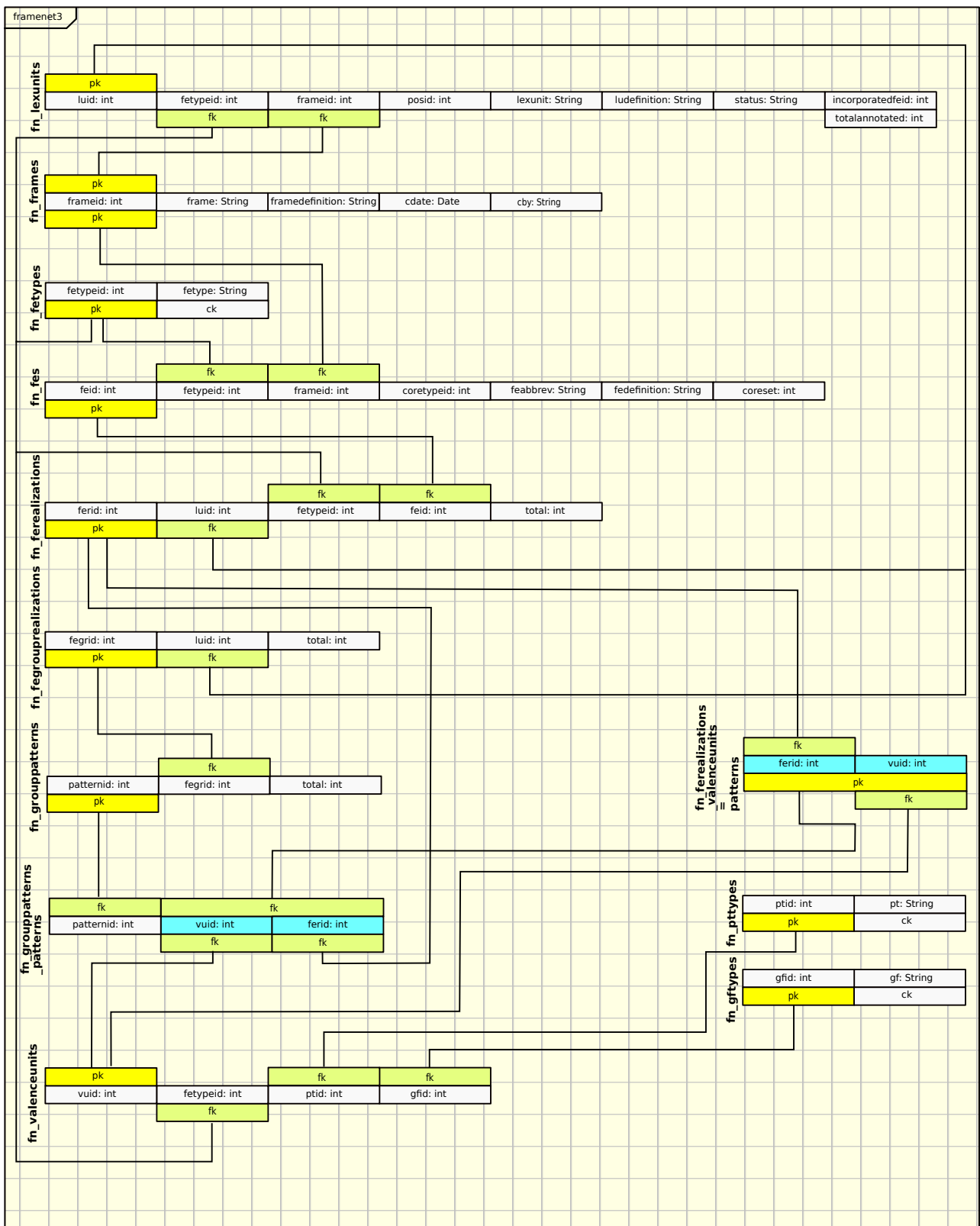












fn\_frames

frameid: int	frame: String	framedefinition: String	cdate: Date	cby: String
pk				

fn\_lexunits

luid: int	fetypeid: int	frameid: int	posid: int	lexunit: String	ludéfinition: String	status: String	incorporatedfeid: int	totalannotated: int
pk		fk						

fn\_governors

pk				
governorid: int	luid: int	wordid: long	governortype: String	
	fk			

fn\_governors  
\_annosets

fk	pk
governorid: int	annosetid: int
	fk

fn\_grouppatterns

pk		
patternid: int	fegrid: int	total: int

fn\_grouppatterns  
\_annosets

fk	pk
patternid: int	annosetid: int
	fk

fn\_valenceunits

pk			
vuid: int	ferid: int	ptid: int	gfid: int

fn\_valenceunits  
\_annosets

fk	pk
vuid: int	annosetid: int
	fk

fn\_subcorpus

subcorpusid: int	luid: int	subcorpus: String
pk	fk	

fn\_subcorpus  
sentences

fk	pk
subcorpusid: int	sentenceid: int
	fk

fn\_documents

documentid: int	corpusid: int	documentdescr: String
pk	fk	

fn\_corpuses

corpusid: int	corpus: String
pk	ck

fn\_sentences

pk	fk	fk				
sentenceid: int	documentid: int	corpusid: int	paragno: int	sentno: int	text: String	apos: int
pk						

fn\_annosets

annosetid: int	frameid: int	luid: int	cxnid: int	sentenceid: int	status: String	cdate: Date
pk			fk			

fn\_layers

layerid: int	annosetid: int	layertypeid: int	rank: int
pk	fk	fk	

fn\_cxns

pk	ck
cxnid: int	cxn: String

fn\_labeltypes

labeltypeid: int	labeltype: String
pk	ck

fn\_labeltypes

labeltypeid: int	labeltype: String
pk	ck

fn\_labeltypes

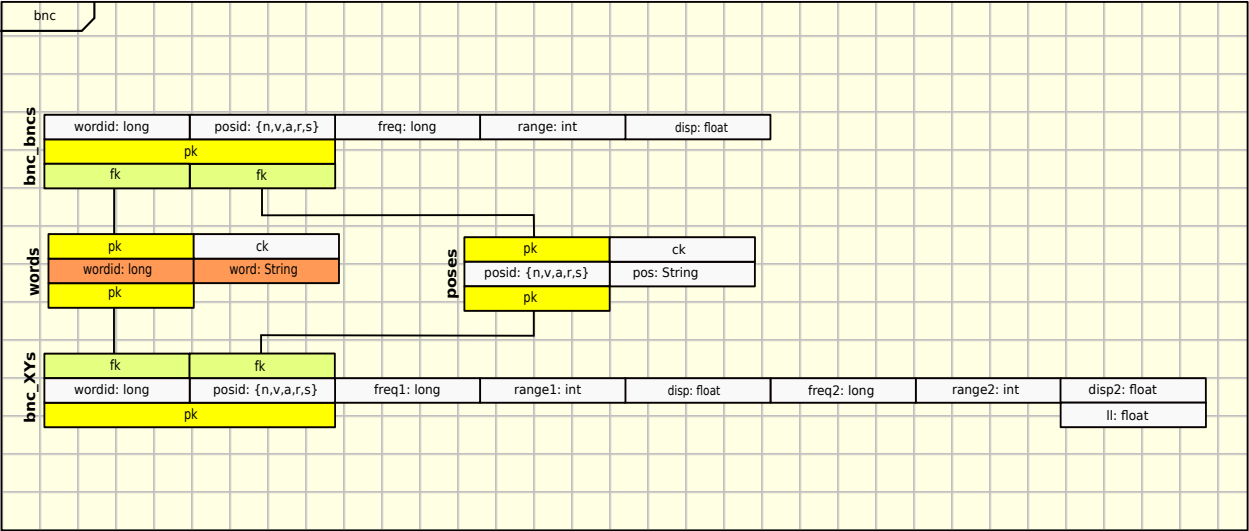
pk	ck
layertypeid: int	layertype: String

fn\_labels

pk	fk	fk	fk			
labelid: int	layerid: int	labeltypeid: int	labeltypeid: int	feid: int	start: int	end: int
				fk		

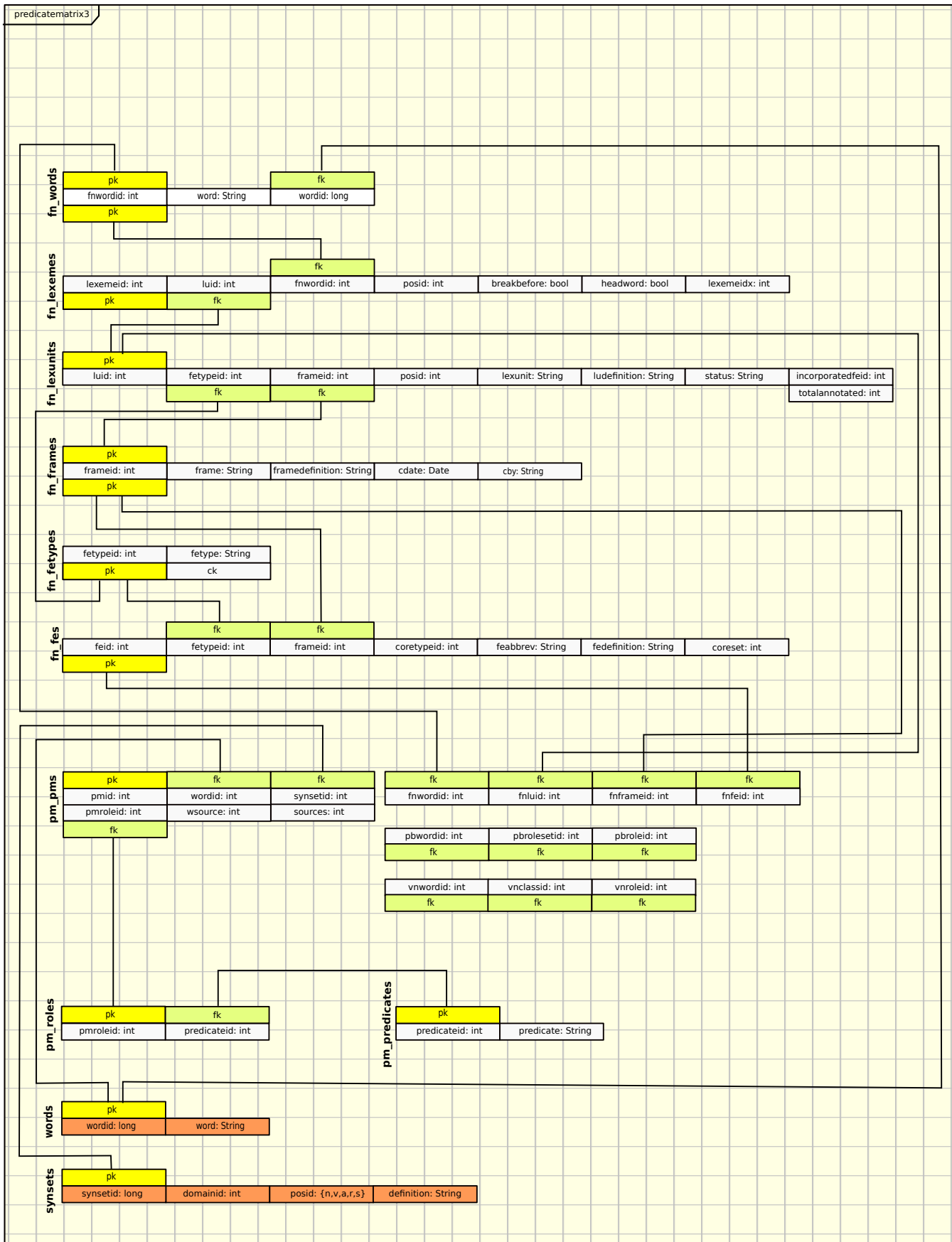
fn\_fes

pk						
feid: int	fetypeid: int	frameid: int	coretypeid: int	feabbrev: String	fedefinition: String	coreset: int











# TABLES

## SQL WordNet - core

## core

words
- <u>wordid</u> : long
-word: String

lexes
- <u>luid</u> : long
- <u>wordid</u> : long
-casedwordid: String
-posid: {n,v,a,r,s}

senses
- <u>luid</u> : long
- <u>wordid</u> : long
-casedwordid: long
- <u>synsetid</u> : long
-senseum: int
-senseid: long
-sensekey: String
-lexid: int
-tagcount: int

synsets
- <u>synsetid</u> : long
-posid: {n,v,a,r,s}
-domainid: int
-definition: String

## types

relations
- <u>relationid</u> : int
-relation: String
-recurses: boolean

poses
- <u>posid</u> : {n,v,a,r,s}
-pos: String

domains
- <u>domainid</u> : int
-domain: String
-domainname: String
-posid: {n,v,a,r,s}

adjpositions
- <u>positionid</u> : {a,p,ip}
-position: String

## relations

lexrelations
- <u>synset1id</u> : long
- <u>luid</u> : long
- <u>word1id</u> : long
- <u>synset1id</u> : long
- <u>luid</u> : long
- <u>word2id</u> : long
- <u>relationid</u> : int

semrelations
- <u>synset1id</u> : long
- <u>synset2id</u> : long
- <u>relationid</u> : int

## extra

casedwords
- <u>casedid</u> : long
- <u>wordid</u> : long
-casedword: String

pronunciations
- <u>pronunciationid</u> : long
-pronunciation: String

morphs
- <u>morphid</u> : long
-morph: String

samples
- <u>synsetid</u> : long
- <u>sampleid</u> : int
-sample: String

vframes
- <u>frameid</u> : int
-frame: String

vtemplates
- <u>template</u> : int
-template: String

lexes_pronunciations
- <u>luid</u> : long
- <u>wordid</u> : long
- <u>posid</u> : {n,v,a,r,s}
- <u>pronunciationid</u> : long
-variety: String

lexes_morphs
- <u>luid</u> : long
- <u>wordid</u> : long
- <u>posid</u> : {n,v,a,r,s}
- <u>morphid</u> : long

senses_adjpositions
- <u>synsetid</u> : long
- <u>luid</u> : long
- <u>wordid</u> : long
- <u>positionid</u> : {a,p,ip}

senses_vframes
- <u>synsetid</u> : long
- <u>luid</u> : long
- <u>wordid</u> : long
- <u>frameid</u> : int

senses_vtemplates
- <u>synsetid</u> : long
- <u>luid</u> : long
- <u>wordid</u> : long
- <u>templateid</u> : int

verbnets

**vn\_classes**

-classid: int  
 -class: String  
 -classtag: String

**vn\_members**

-vnwordid: int  
 -classid: int

**vn\_members\_senses**

-classid: int  
 -synsetid: long  
 -vnwordid: int  
 -wordid: long  
 -senseenum: int  
 -sensekey: String  
 -quality: float

**vn\_frames\_examples**

-frameid: int  
 -exampleid: int

**vn\_examples**

-exampleid: int  
 -example: String

**vn\_classes\_frames**

-frameid: int  
 -classid: int

**vn\_framenames**

-framenameid: int  
 -framename: String

**vn\_frames**

-frameid: int  
 -number: String  
 -xtag: String  
 -framenameid: int  
 -framesubnameid: int  
 -syntaxid: int  
 -semanticid: int

**vn\_framesubnames**

-framesubnameid: int  
 -framesubname: String

**vn\_predicates\_semantics**

-semanticid: int  
 -predicateid: int

**vn\_predicates**

-predicateid: int  
 -predicate: String

**vn\_roles**

-roleid: int  
 -roletypeid: int  
 -classid: int  
 -selrestrid: int

**vn\_roletypes**

-roletypeid: int  
 -roletype: String

**vn\_restrs**

-restrid: int  
 -restrs: String

**vn\_restrtypes**

-restrid: int  
 -restrval: String  
 -restr: String

**vn\_semantics**

-semanticid: int  
 -semantics: String

**vn\_syntaxes**

-syntaxid: int  
 -syntax: String

**vn\_members\_groupings**

-classid: int  
 -wordid: long  
 -groupingid: int

**vn\_groupings**

-groupingid: int  
 -grouping: String

proppbank

**pb\_members**

-pbwordid: long  
 -roleetid: int

**pb\_rolesets**

-roleetid: int  
 -pbwordid: long  
 -roleset: String  
 -rolesetdesc: String  
 -rolesetname: String  
 -rolesethead: String

**pb\_roles**

-roleid: int  
 -roleetid: int  
 -roledescr: String  
 -argtypeid: char  
 -funcid: int  
 -thetaid: int

**pb\_examples**

-exampleid: int  
 -roleetid: int  
 -exemplename: String  
 -text: String  
 -aspectid: int  
 -formid: int  
 -tenseid: int  
 -voiceid: int  
 -personid: int

**pb\_args**

-argid: int  
 -exampleid: int  
 -text: String  
 -argtypeid: char  
 -funcid: int

**pb\_rels**

-relid: int  
 -exampleid: int  
 -text: String  
 -funcid: int

**pb\_argtypes**

-argtypeid: char  
 -argtype: String

**pb\_funcs**

-funcid: int  
 -funcname: String  
 -funcdescr: String

**pb\_aspects**

-aspectid: int  
 -aspectname: String

**pb\_forms**

-formid: int  
 -formname: String

**pb\_tenses**

-tenseid: int  
 -tense: String

**pb\_voices**

-voiceid: int  
 -voicename: String

**pb\_persons**

-personid: int  
 -personname: String

**pb\_thetas**

-thetaid: int  
 -thetaname: String

**pb\_pbroles\_vnroles**

-roleetid: int  
 -roleid: int  
 -roletypeid: int  
 -vnclassid: long  
 -vnroleid: long

**pb\_pbrolesets\_vnclasses**

-roleetid: int  
 -vnclassid: long  
 -pos: char  
 -pbwordid: long

framenet

**fn\_frames**

-frameid: int  
-frame: String  
-framedefinition: String

**fn\_frames\_related**

-frameid: int  
-frame2id: int  
-relid: int

**fnrels**

-relid: int  
-rel: String

**fn\_coretypes**

-coretypeid: int  
-coretype: String

**fn\_poses**

-posid: int  
-posid: String

**fn\_governors**

-governorid: int  
-luid: int  
-fnwordid: long  
-governortype: String

**fn\_words**

-wordid: long  
-word: String

**fn\_corpuses**

-corpusid: int  
-corpus: String

**fn\_subcorpus**

-subcorpusid: int  
-luid: int  
-subcorpus: String

**fn\_documents**

-documentid: int  
-corpusid: int  
-documentdescr: String

**fn\_sentences**

-sentenceid: int  
-documentid: int  
-corpusid: int  
-paragno: int  
-sentno: int  
-text: String  
-apos: int

**fn\_semtypes**

-semtypeid: int  
-semtype: String  
-semtypeabbrev: String  
-semtypedefinition: String

**fnsemtypes\_super**

-semtypeid: int  
-semtype2id: int

**fn\_frames\_semtypes**

-frameid: int  
-semtypeid: int

**fn\_lexunits\_semtypes**

-luid: int  
-semtypeid: int

**fn\_fes\_semtypes**

-feid: int  
-semtypeid: int

**fn\_lexunits**

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-frameid: int  
-posid: int  
-lexunit: String  
-luddefinition: String  
-ludict: char  
-incorporatedfeid: int  
-totalannotated: int  
-noccurs: int

**fn\_lexemes**

-lexemeid: int  
-luid: int  
-fnwordid: long  
-posid: int

**fn\_fes**

-feid: int  
-fetypeid: int  
-frameid: int  
-coretypeid: int  
-feabbrev: String  
-fedefinition: String  
-coreset: int

**fn\_subcorpus\_sentences**

-subcorpusid: int  
-sentenceid: int

**fn\_ferealizations**

-ferid: int  
-luid: int  
-fetypeid: int  
-feid: int  
-total: int

**fn\_fegroupprealizations**

-fegrid: int  
-luid: int  
-total: int

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-feid: int  
-fe2id: int

**fn\_fes\_excluded**

-feid: int  
-fe2id: int

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**fn\_pttypes**

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-pt: String

**fn\_gftypes**

-gfid: int  
-gf: String

**fn\_labeltypes**

-labeltypeid: int  
-labeltype: String

**fn\_layertypes**

-layertypeid: int  
-layertype: String

**fn\_cxns**

-cxnid: int  
-cxn: String

**fn\_patterns**

-ferid: int  
-vuid: int

**fn\_grouppatterns**

-patternid: int  
-fegrid: int  
-total: int

**fn\_grouppatterns\_patterns**

-patternid: int  
-vuid: int  
-ferid: int

**fn\_valenceunits**

-vuid: int  
-fetypeid: int  
-ptid: int  
-gfid: int

**fn\_layers**

-layerid: int  
-annosetid: int  
-layertypeid: int  
-rank: int

**fn\_labels**

-labelid: int  
-layerid: int  
-labeltypeid: int  
-start: int  
-end: int  
-feid: int

**fn\_annosets**

-annosetid: int  
-frameid: int  
-luid: int  
-cxnid: int  
-sentenceid: int  
-text: String

**fn\_valenceunits\_annosets**

-vuid: int  
-annosetid: int

**fn\_governors\_annosets**

-governorid: int  
-annosetid: int

**fn\_grouppatterns\_annosets**

-patternid: int  
-annosetid: int

bnc

**bncs**

-wordid: long  
-posid: enum('n','v','a','r','s')  
-freq: long  
-range: int  
-disp: float

**bncXYs**

-wordid: long  
-posid: enum('n','v','a','r','s')  
-freq1: long  
-range1: int  
-disp1: float  
-freq2: long  
-range2: int  
-disp2: float  
-ll: float

predicatematrix

**pm\_pms**

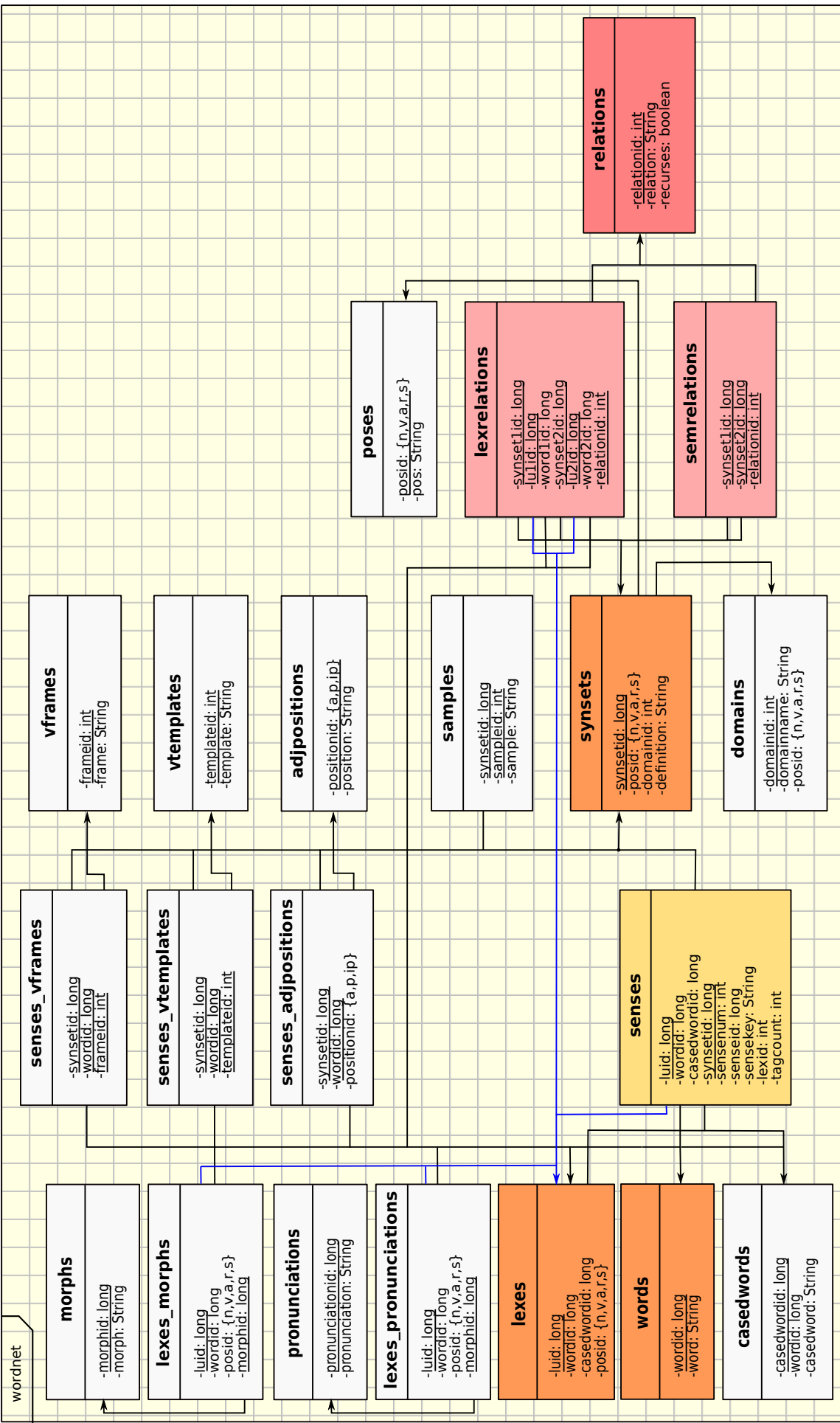
- pm\_pms: int
- pmroleid: int
- wordid: int
- synsetid: int
- sensekey: String
- vnwordid: int
- vnclassid: int
- vnroleid: int
- pbwordid: int
- pbrolesetid: int
- pbroleid: int
- fnwordid: int
- fnluid: int
- fnframeid: int
- fnfeid: int
- fetypeid: int
- wsource: int

**pm\_roles**

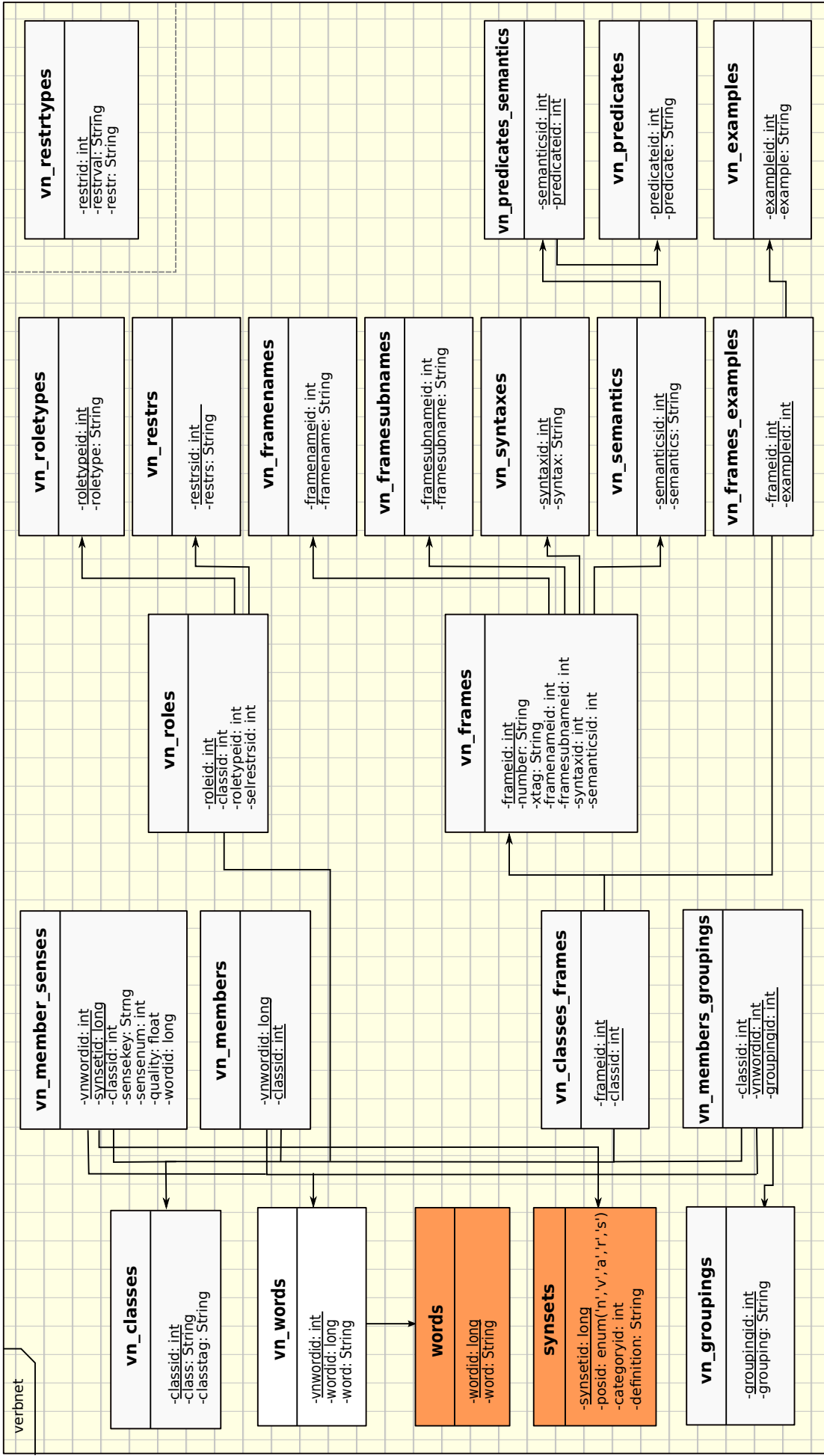
- pmroleid: int
- predicateid: int
- role: String
- pos: char

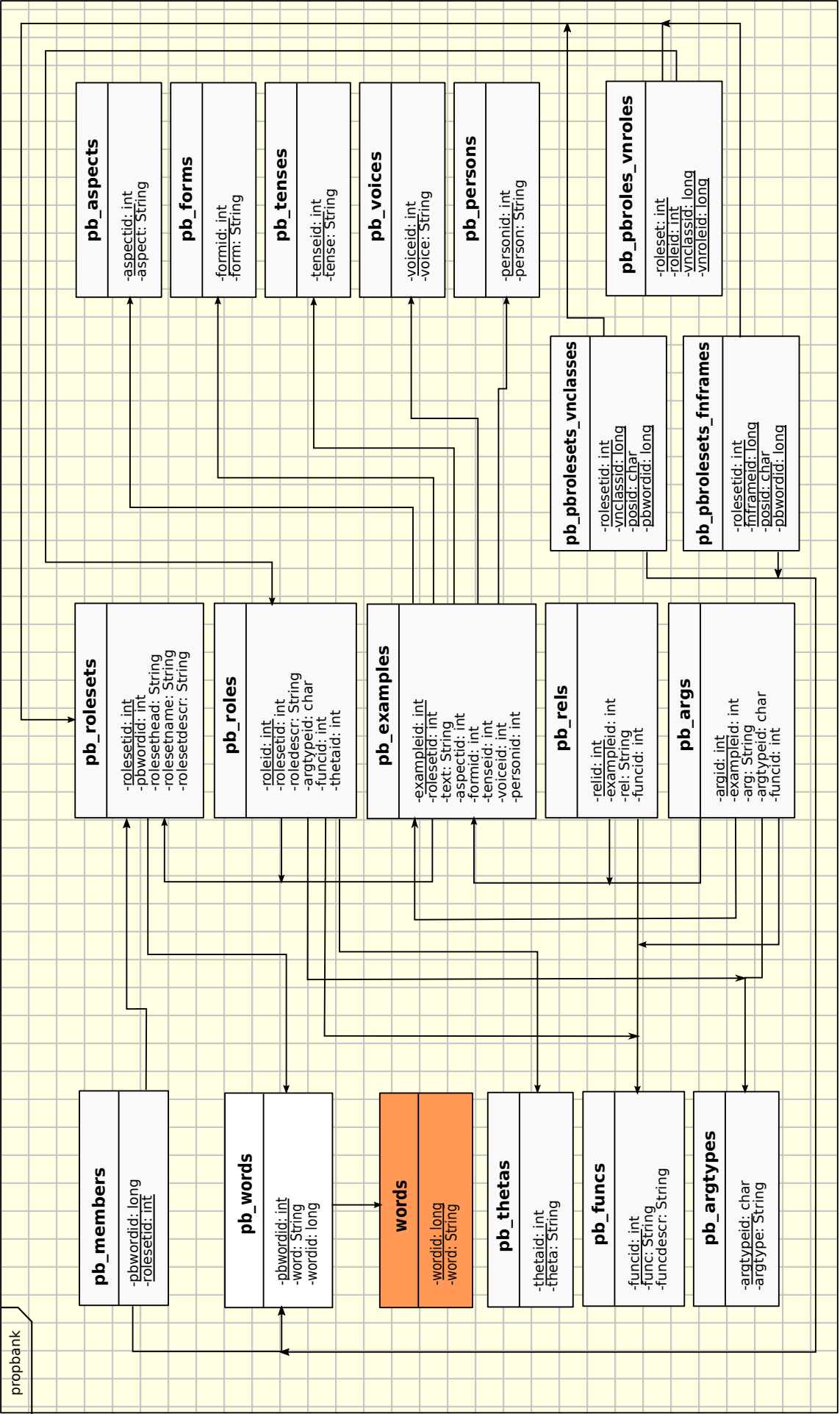
**pm\_predicates**

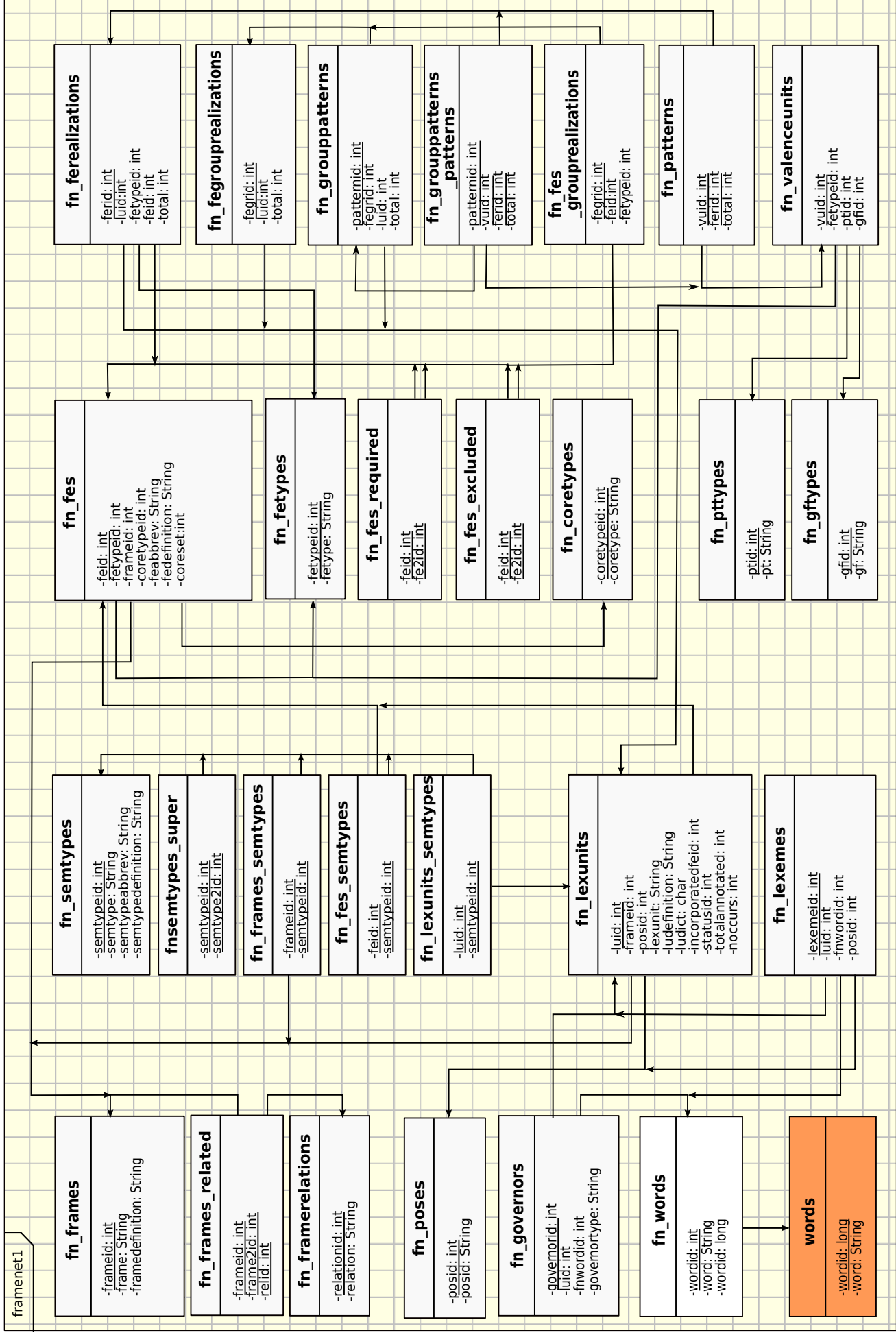
- predicateid: int
- predicate: String

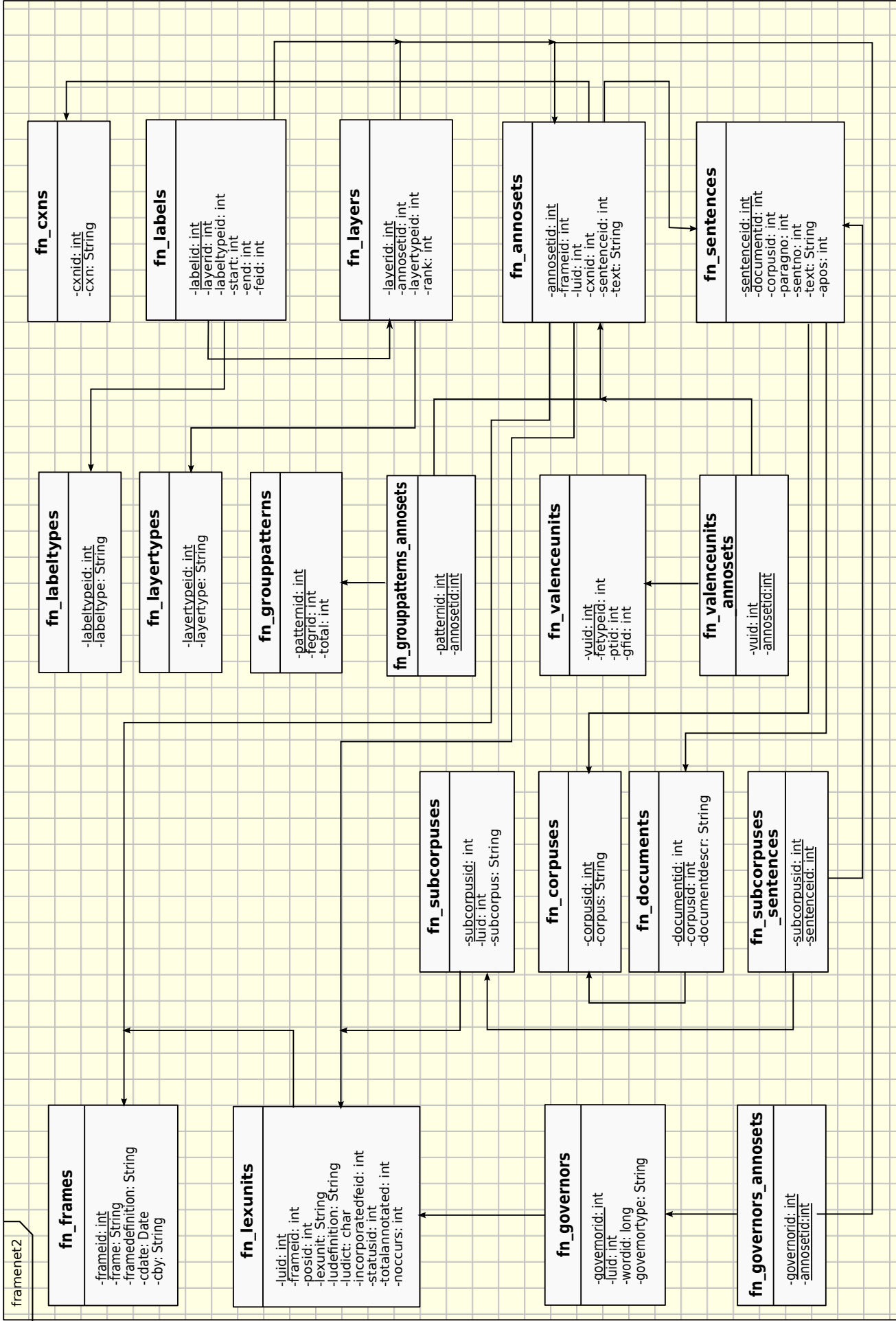


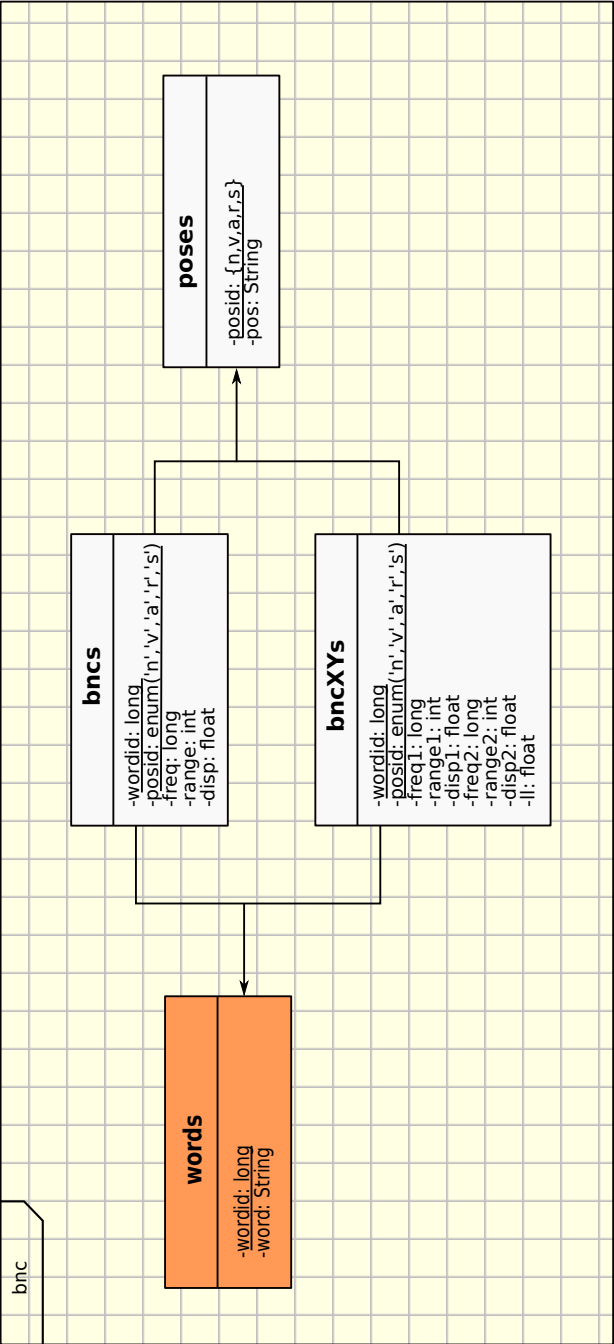












pm_predicates
-predicateid: int -predicate: String

pm_roles
-pmroleid: int -predicateid: int -role: String -posid: char

synsets
-synsetid: long -posid: enum('n','v','a','r','s') -categoryid: int -definition: String

vn_words
-vnwordid: int -wordid: long -word: String

pb_words
-pbwordid: int -word: String -wordid: long

words
-wordid: long -word: String

pb_rolesets
-rolesetid: int -pbwordid: int -rolesethead: String -rolesetname: String -rolesetdescr: String

fn_words
-fnwordid: int -word: String -wordid: long

pb_roles
-roleid: int -rolesetid: int -rolesetdesc: String -argtypeid: char -funcid: int -thetaid: int

pb_argtypes
-argtypeid: char -argtype: String

pm_pms
-pm_pms: int -pmroleid: int -wordid: int -synsetid: int -vnwordid: int -vnclassid: int -vnroleid: int -pbwordid: int -pbrolesetid: int -pbroleid: int -fnwordid: int -fnluid: int -fnframeid: int -fnfeid: int -wsource: int

fn_lexunits
-luid: int -frameid: int -posid: int -lexunit: String -ldefinition: String -status: String -incorporatedfeid: int -totalannotated: int

fn_lexemes
-lexemeid: int -luid: int -fnwordid: int -posid: int

vn_classes
-classid: int -class: String

vn_roletypes
-roletypeid: int -roletype: String

vn_roles
-roleid: int -classid: int -roletypeid: int -selfrestrsid: int

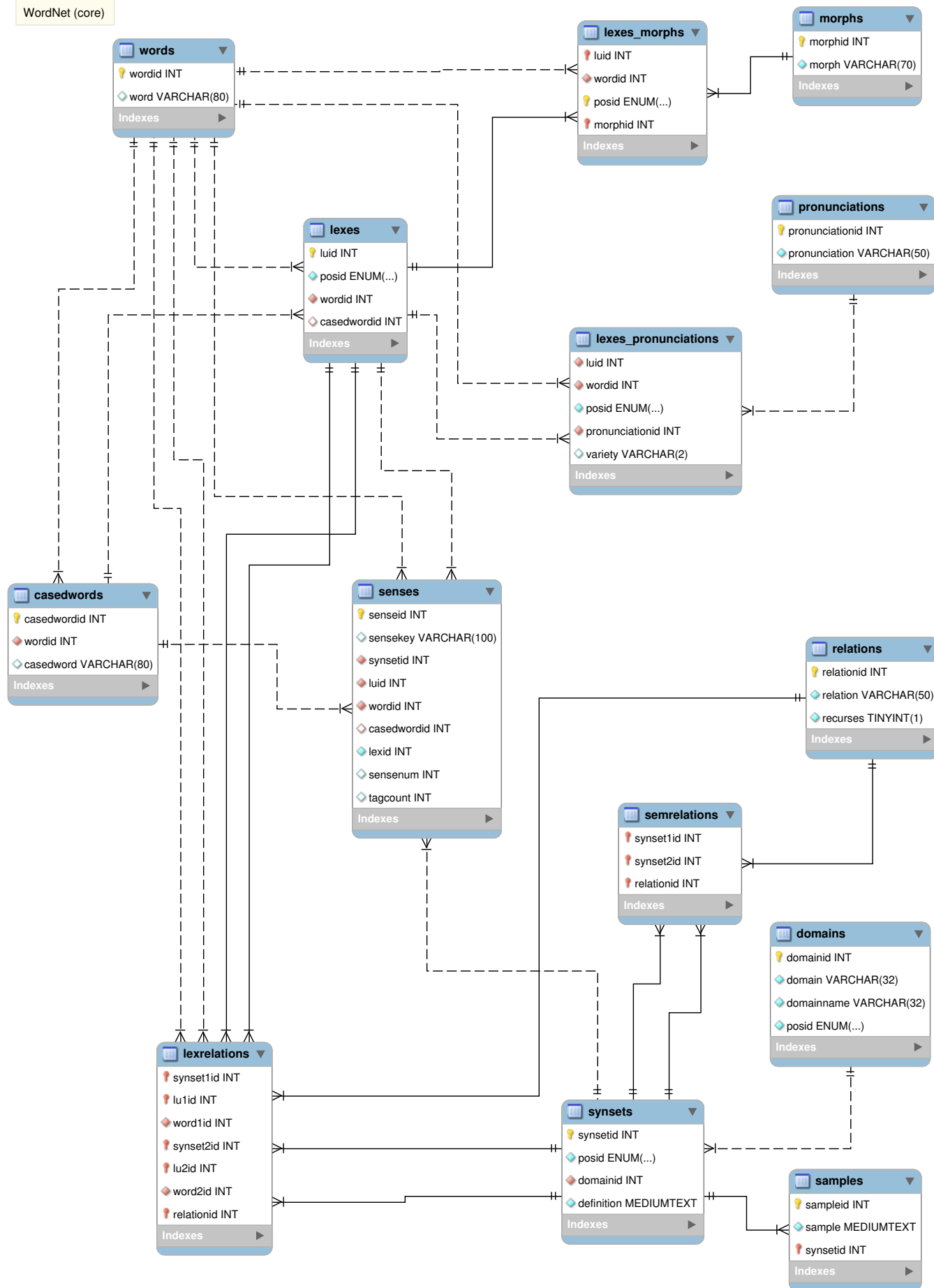
fn_frames
-frameid: int -frame: String -framedefinition: String

fn_fes
-feid: int -fetypeid: int -frameid: int -coretypeid: int -feabbrev: String -fedefinition: String -coreset: int

fn_fetypes
-fetypeid: int -fetype: String

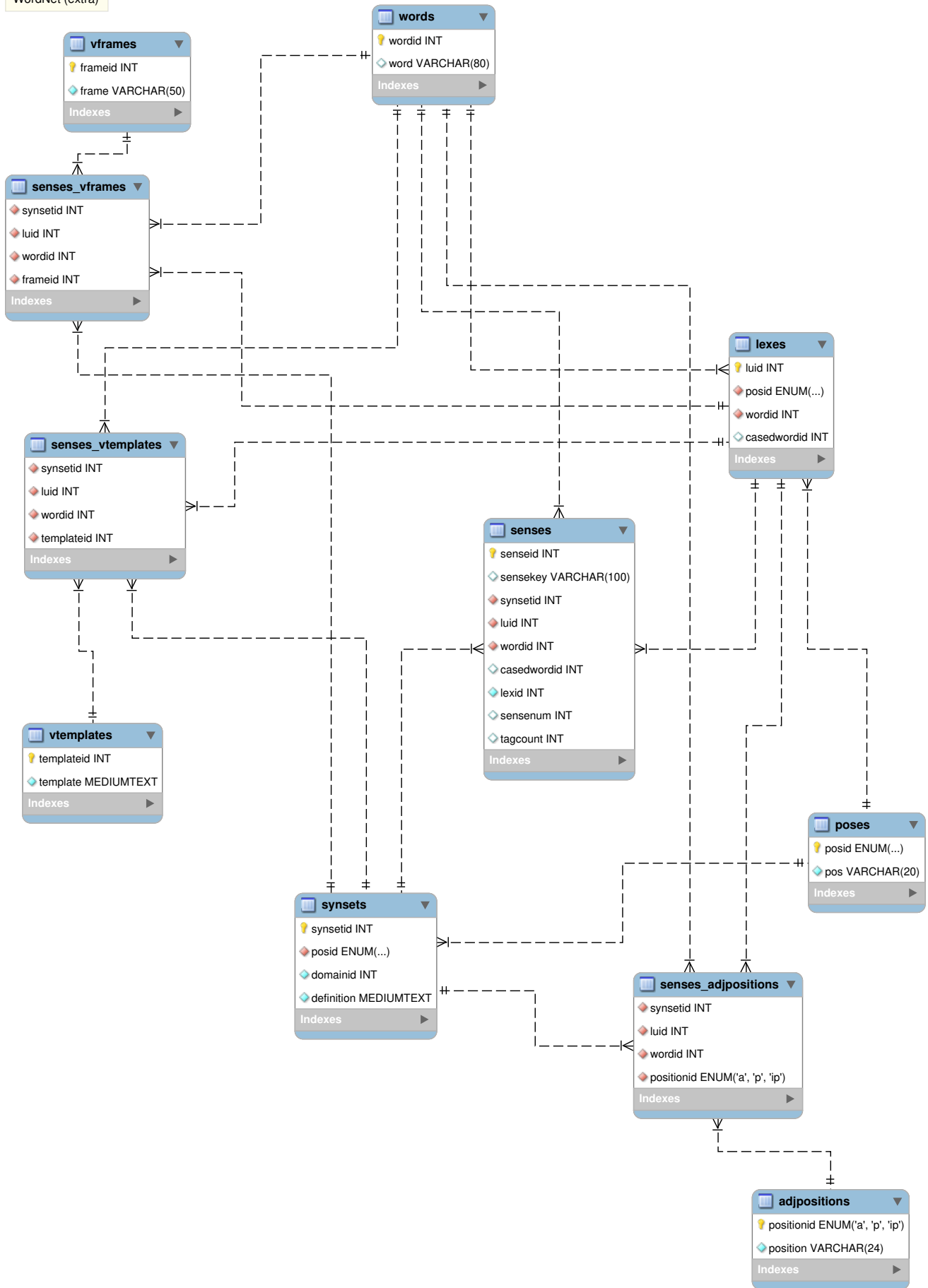


WordNet (core)



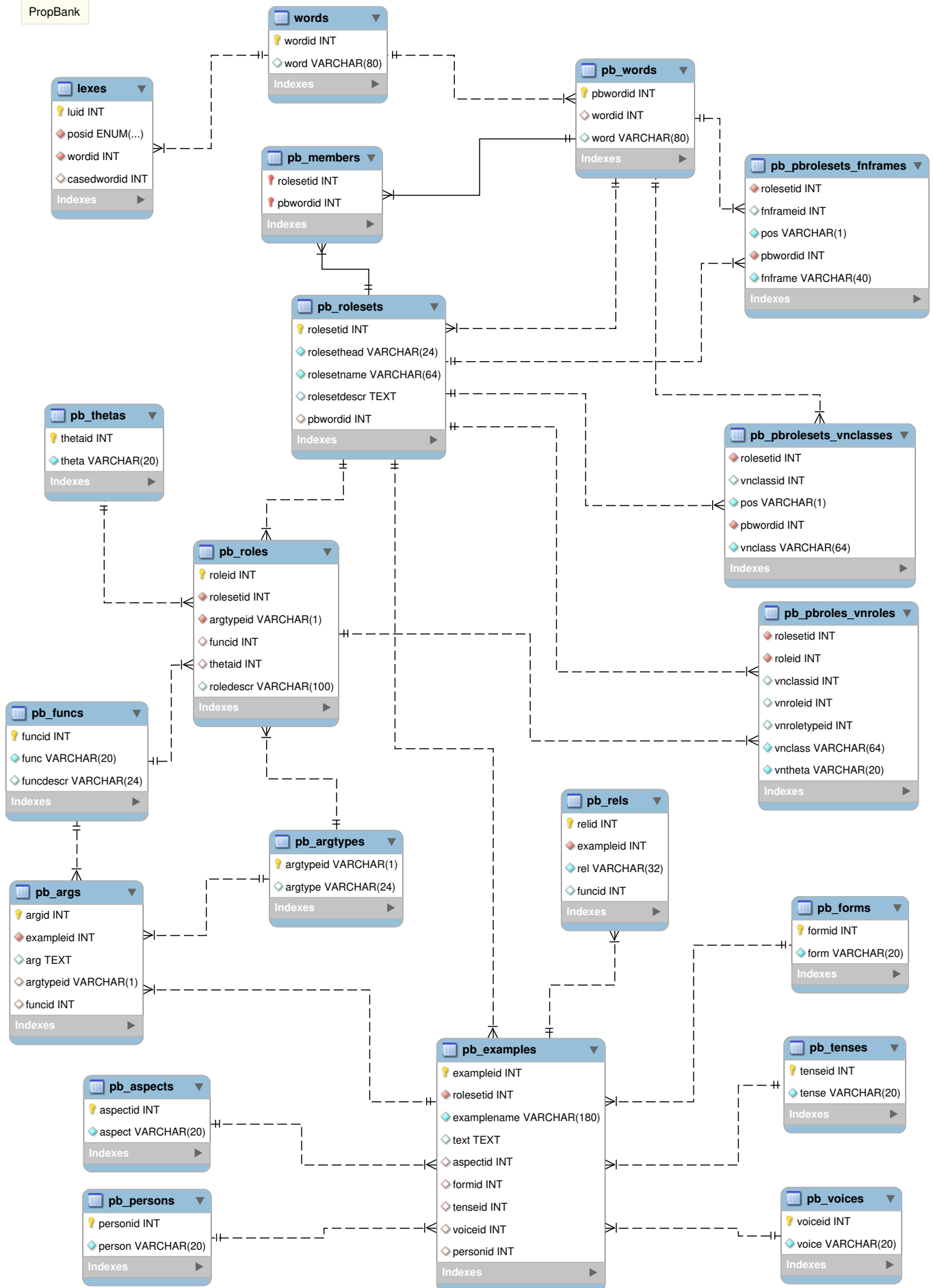


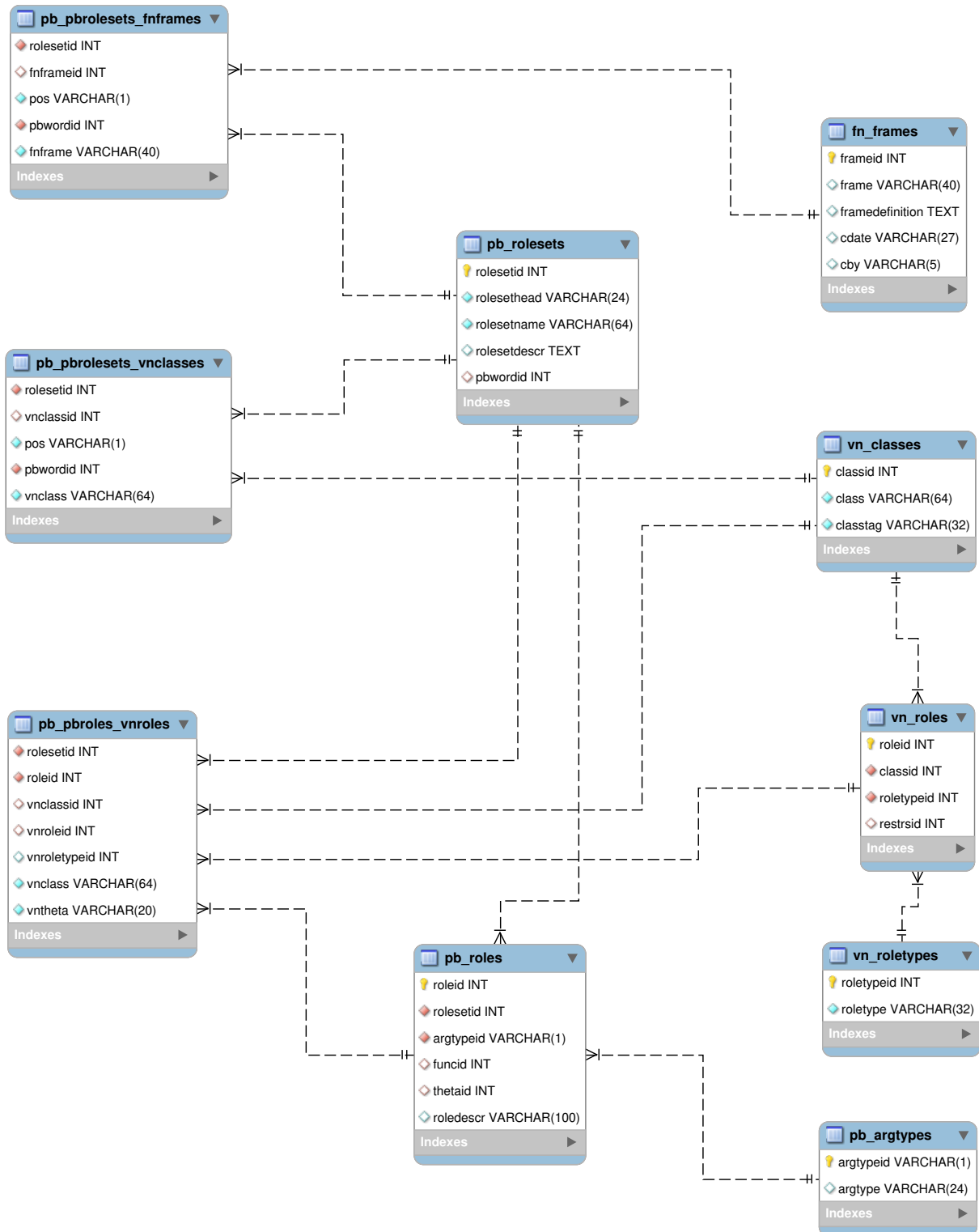
WordNet (extra)





PropBank

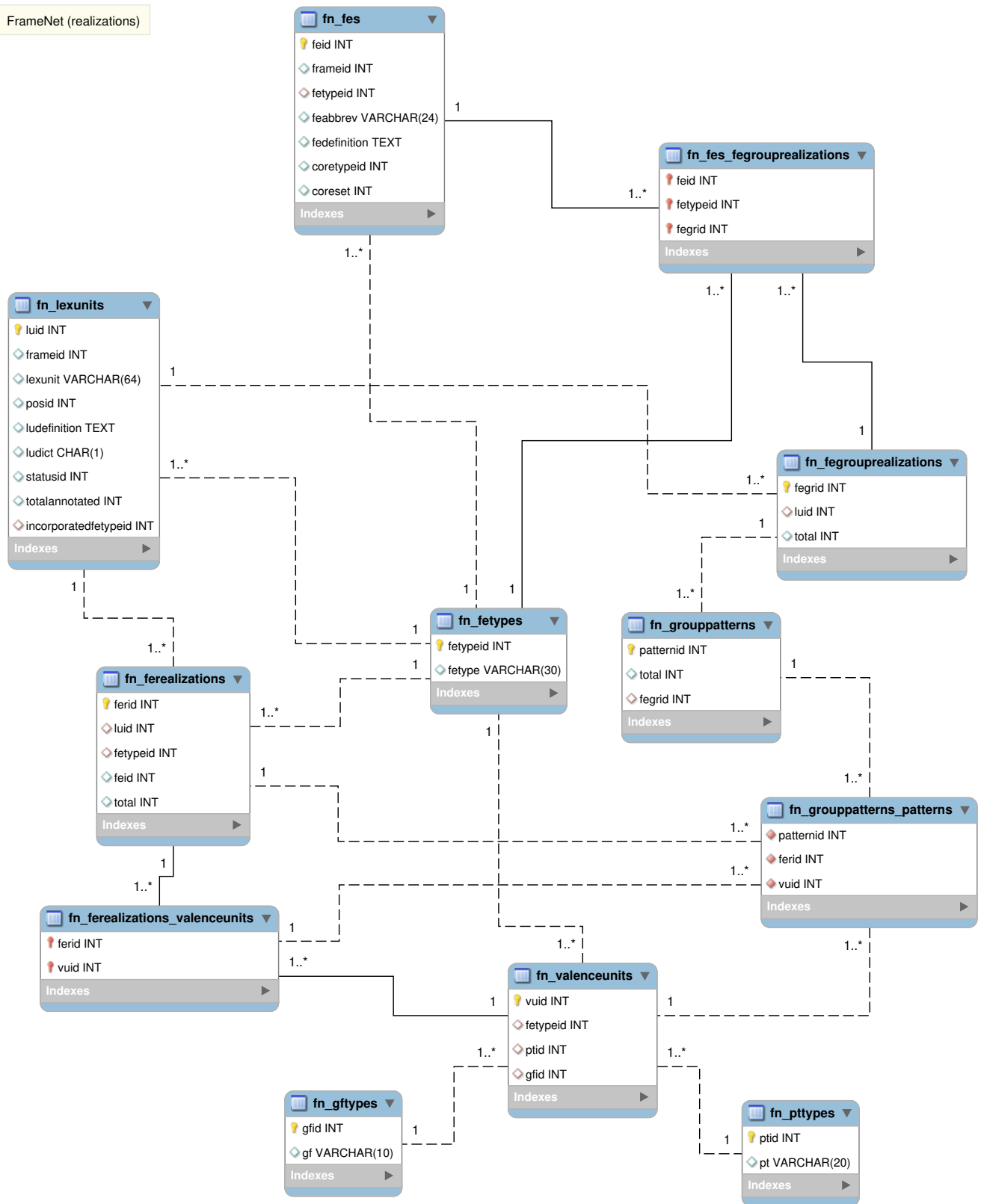




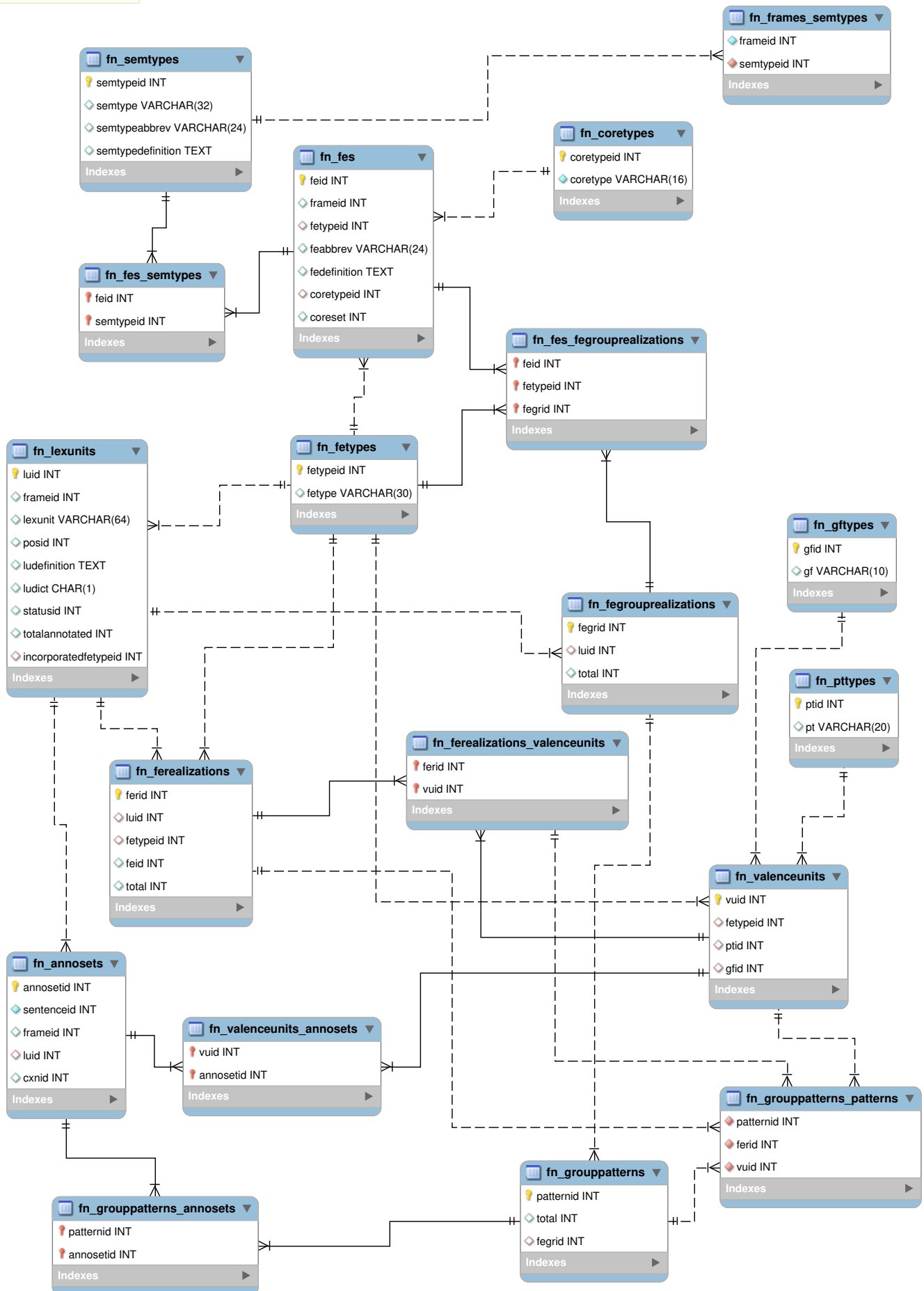




FrameNet (realizations)

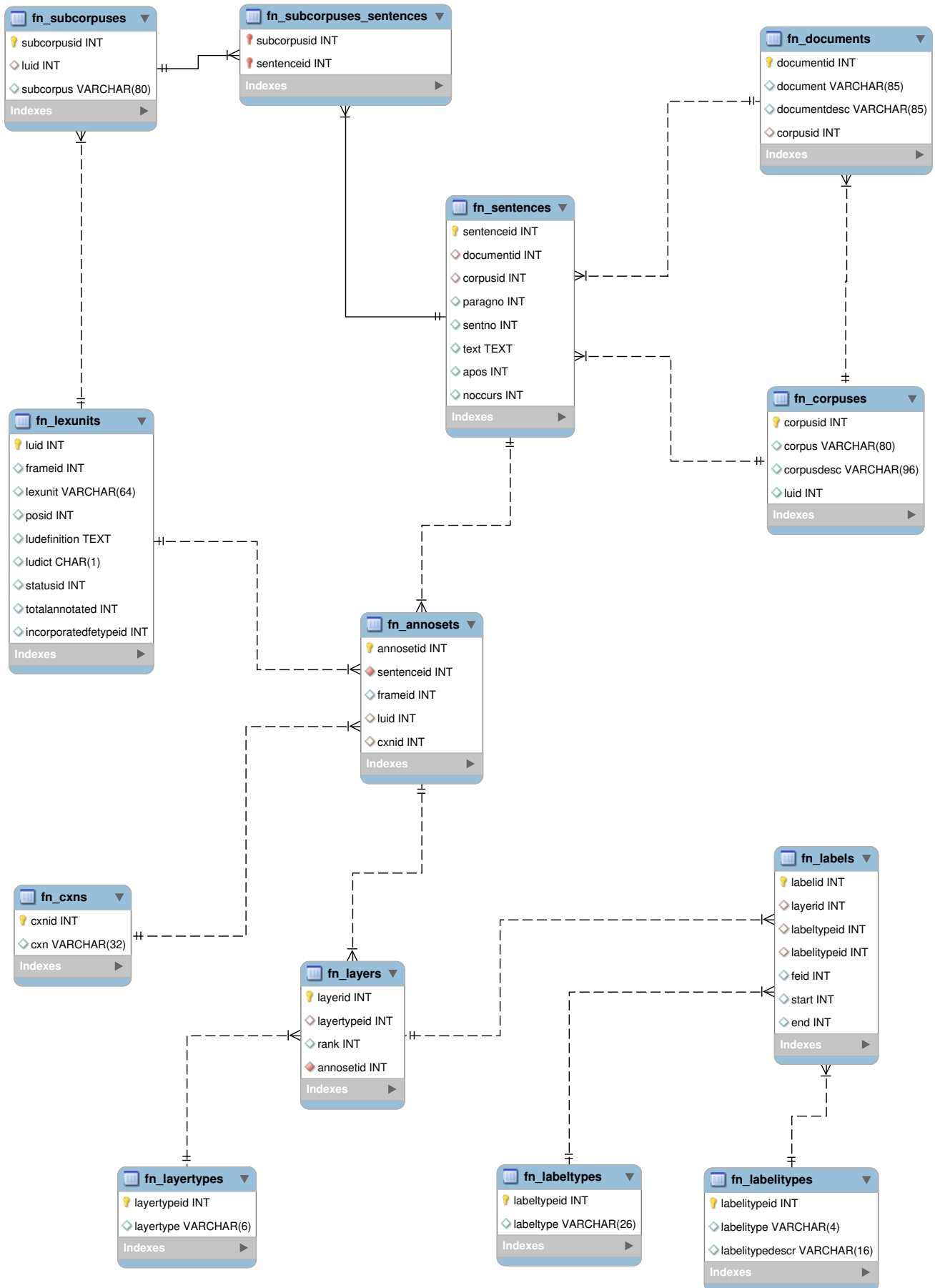


FrameNet (realizations)





FrameNet (annosets)



FrameNet (full text)

