



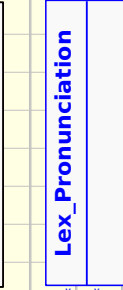
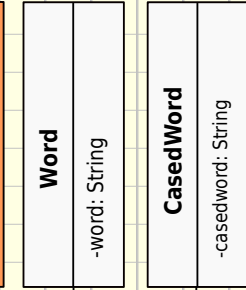
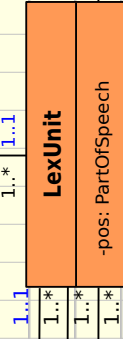
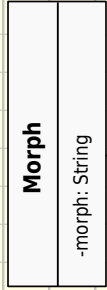
SQL-UNET DESIGN

sqlunet 2.0
version 6.1.0
October 2022

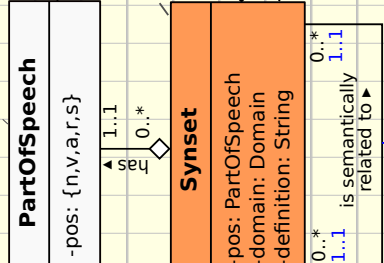
Bernard Bou
<sqlunet@gmail.com>

UML

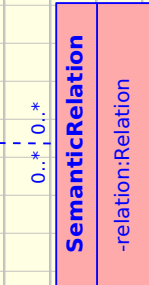
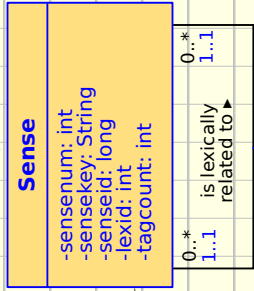
wordnet



WordNet syntactic category



WordNet lexicographer file

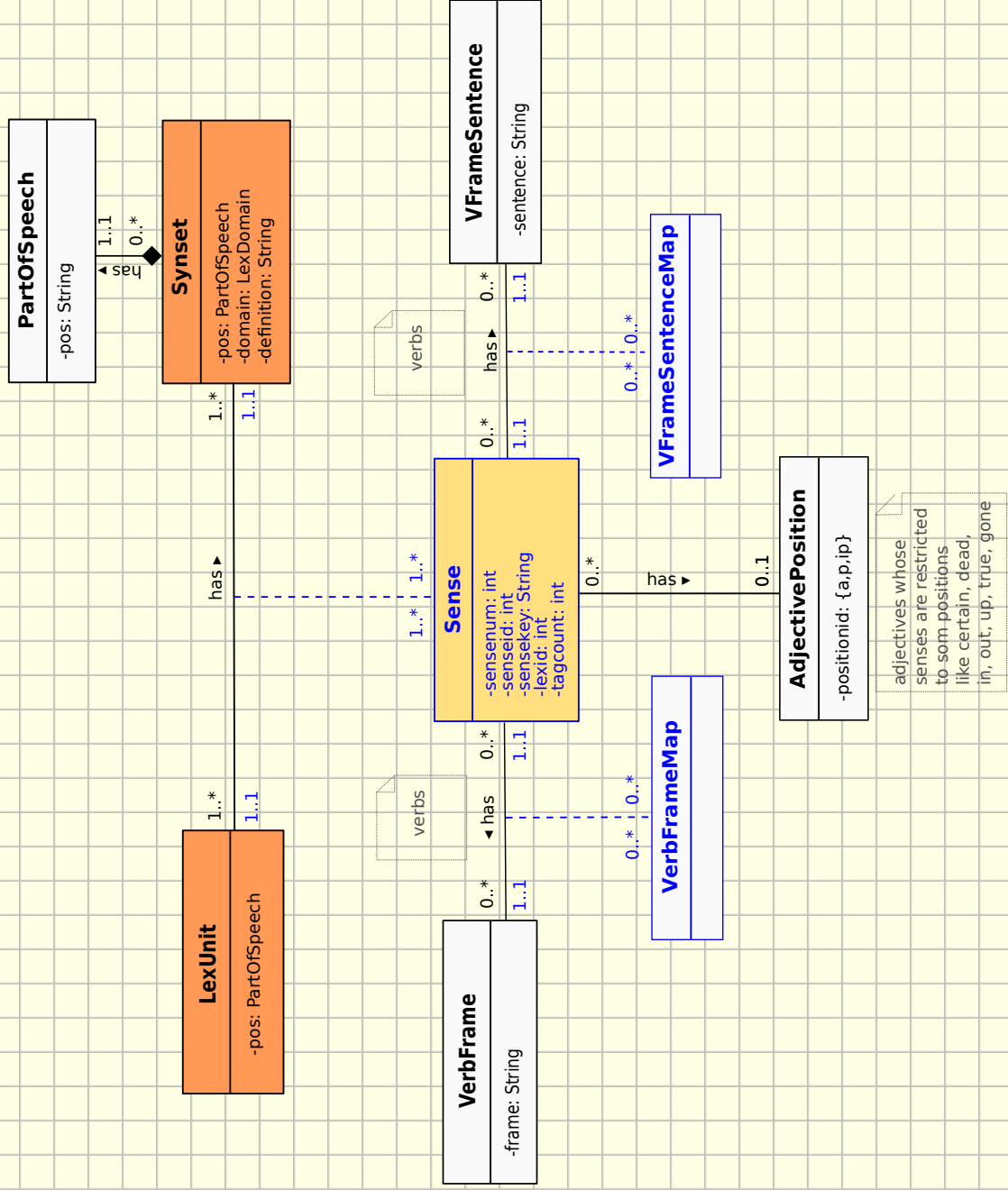


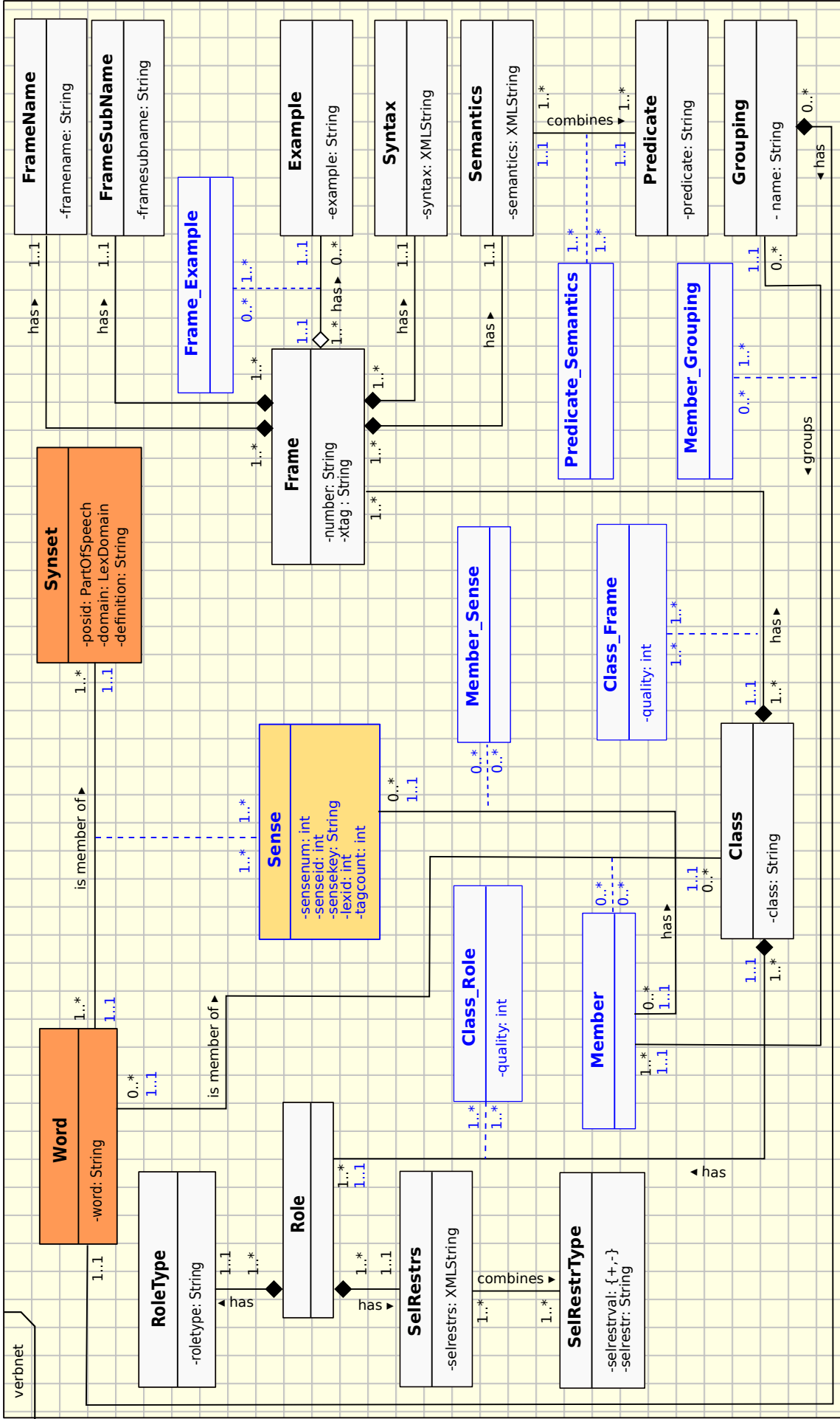
WordNet relation

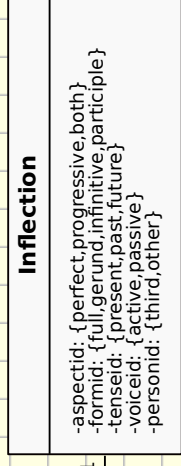
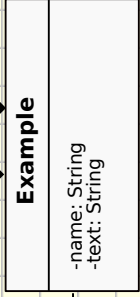
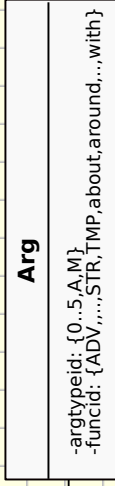
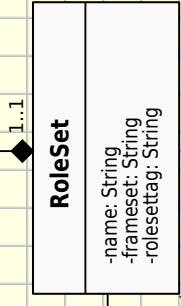
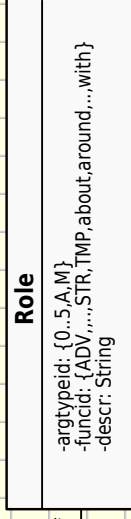
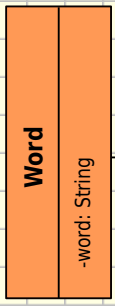
- antonym
- similar
- also
- attribute
- verbgroup
- participle
- pertainym
- membermeronym
- substanceholonym
- domaincategory
- domainmembercategory
- entail
- cause
- domainmemberregion
- domainmessage
- domainmemberusage
- domain
- member

WordNet-sense

- sensenum: sense number in set of word senses
- senseid: line number in index.sense
- sensekey: sense representation
- lexid: index of word sense in lexicographer file
- tagcount: number of times the sense has been tagged in various semantic concordance texts







◀ is a member of
1..*

1..1

◀ refers to predicate

1..*

1..1

1..1

◀ exemplifies
1..*

rolesettag = frameset + index
wordid = predicate word

1..1

1..*

1..1

1..1

1..1

1..1

1..1

1..1

1..1

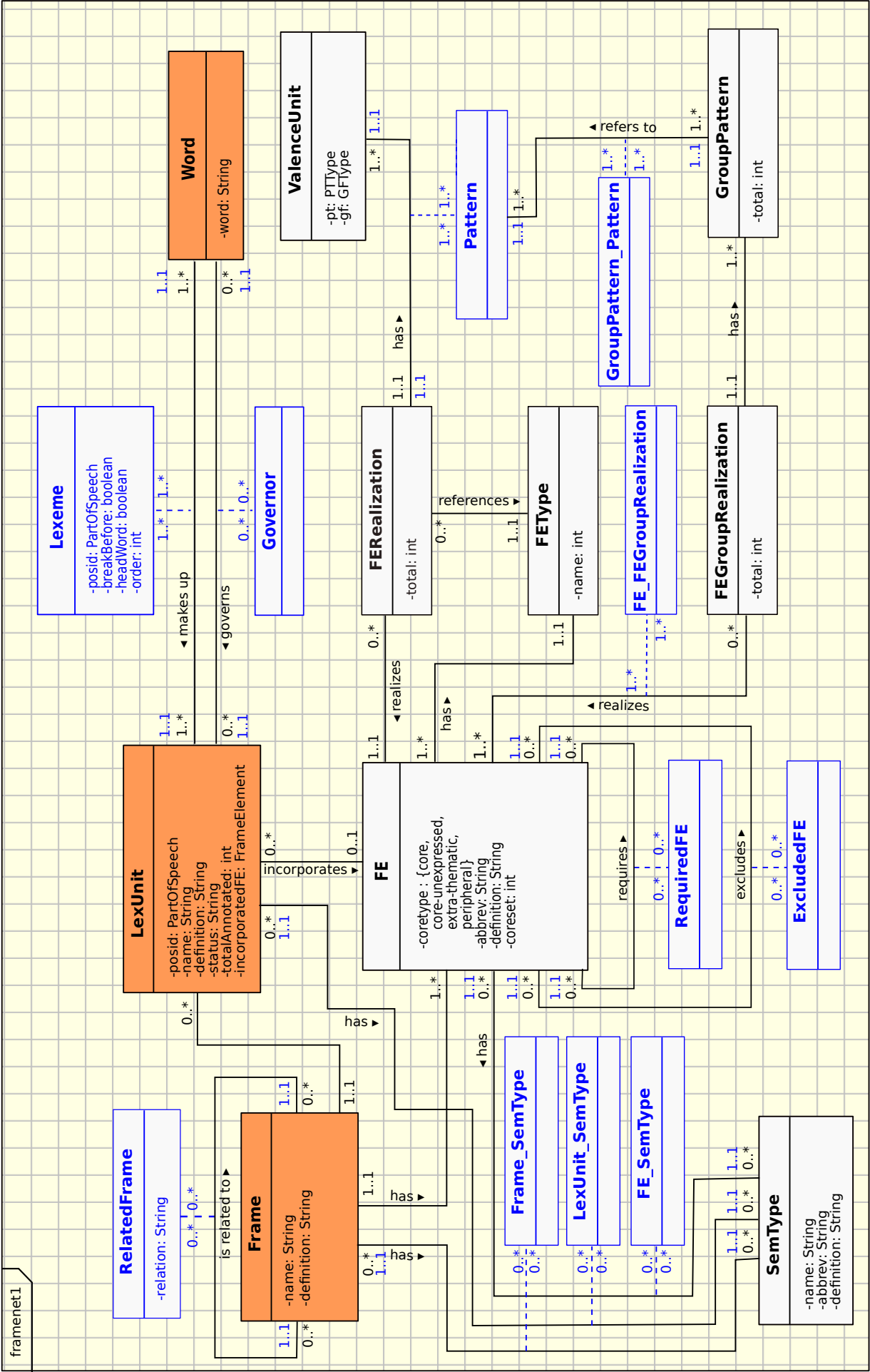
1..1

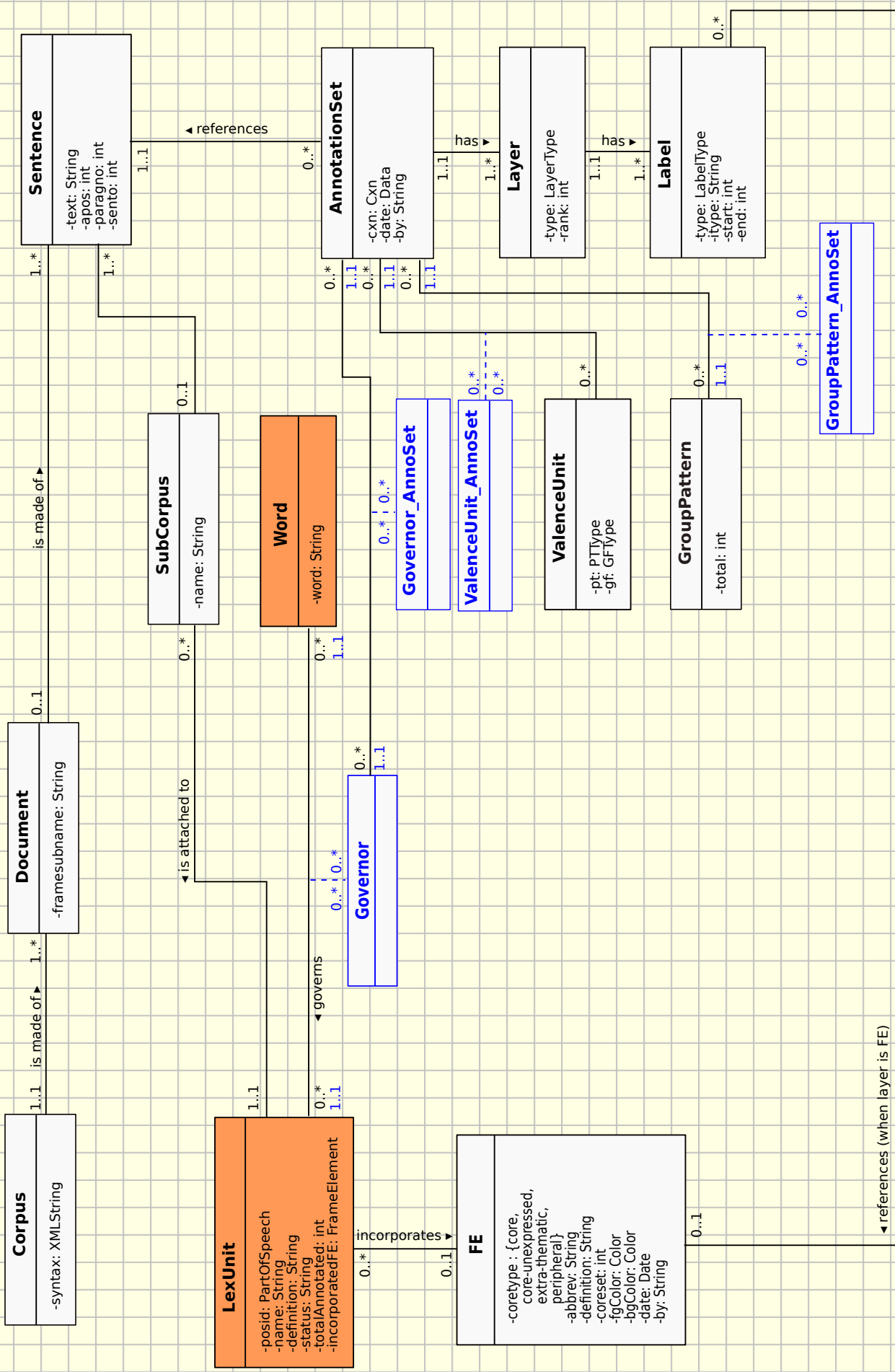
1..1

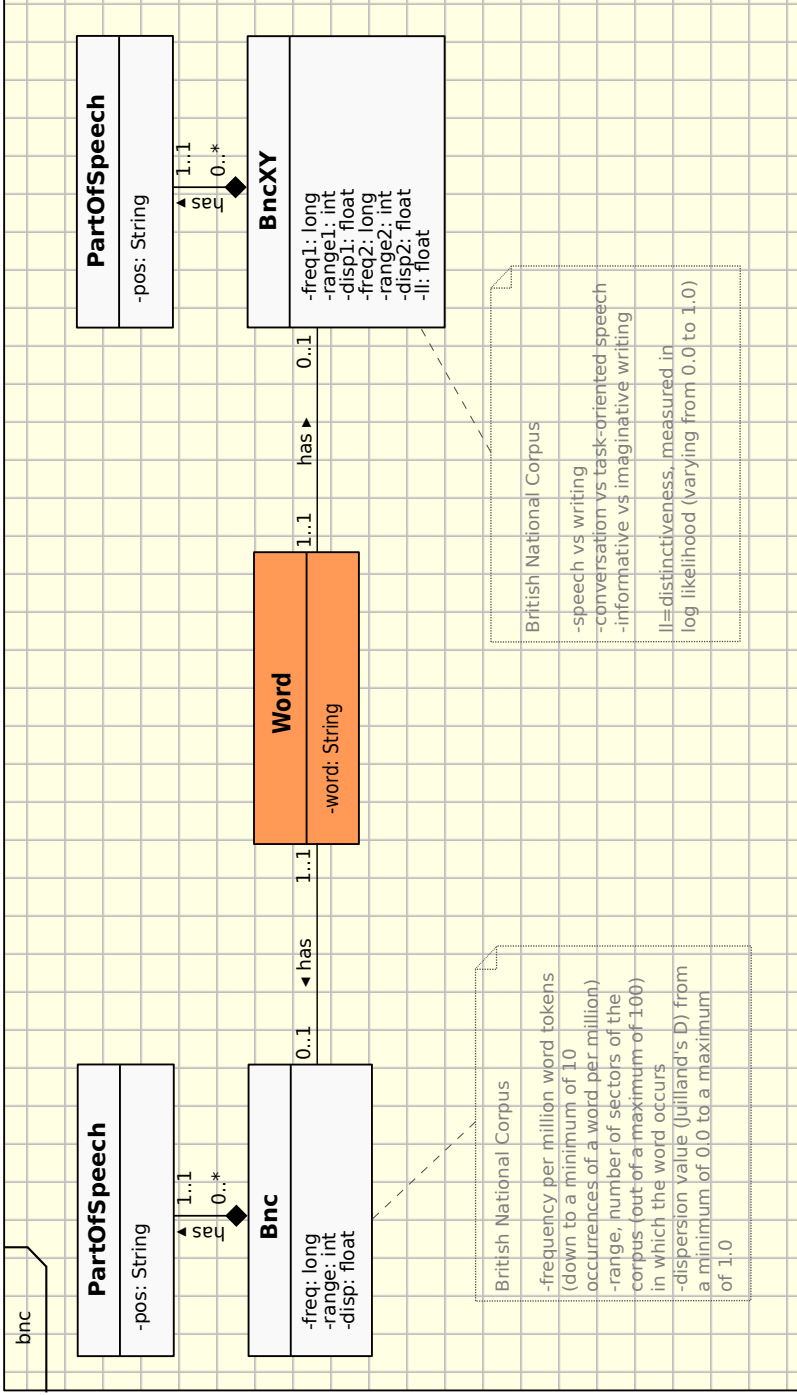
1..1

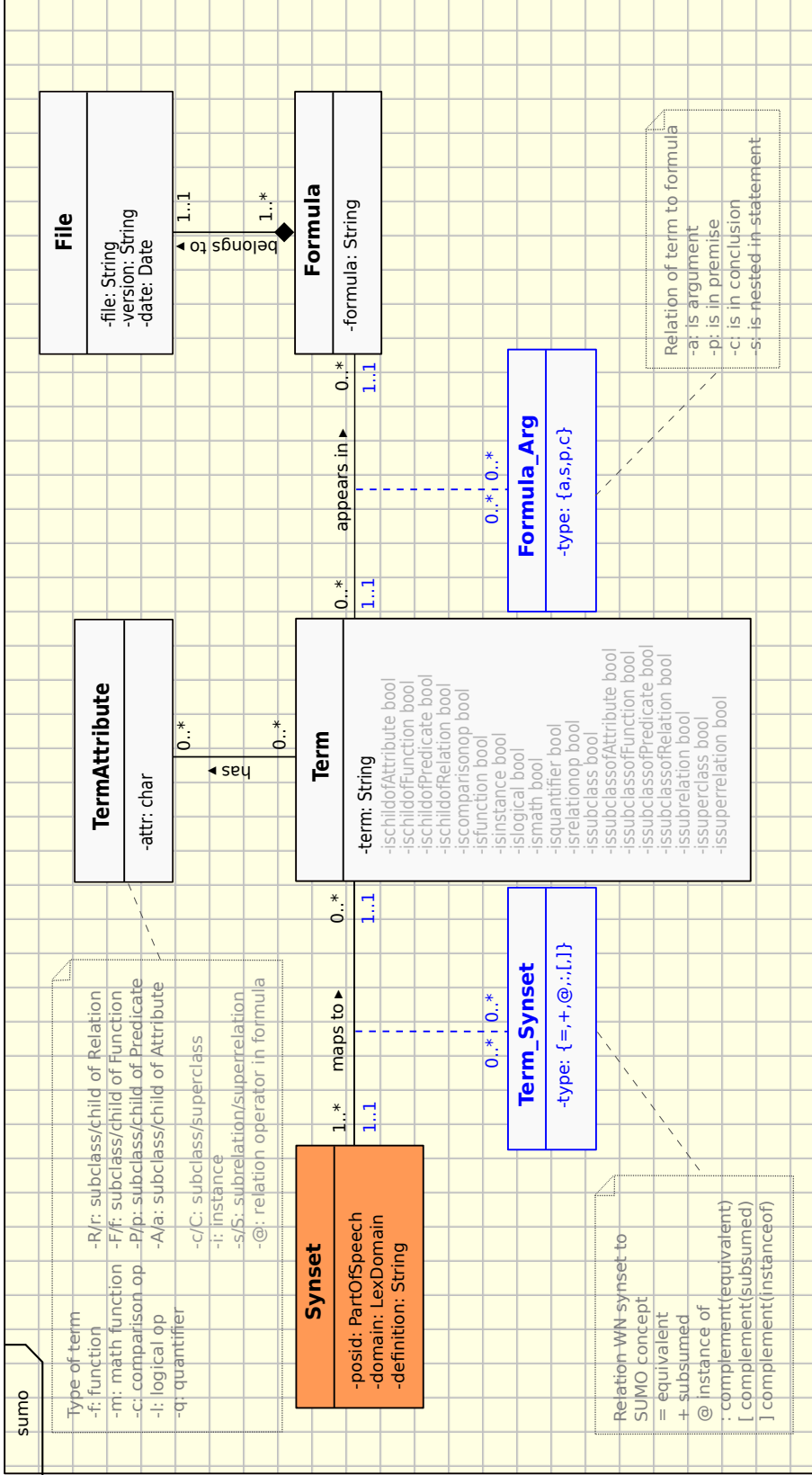
1..1

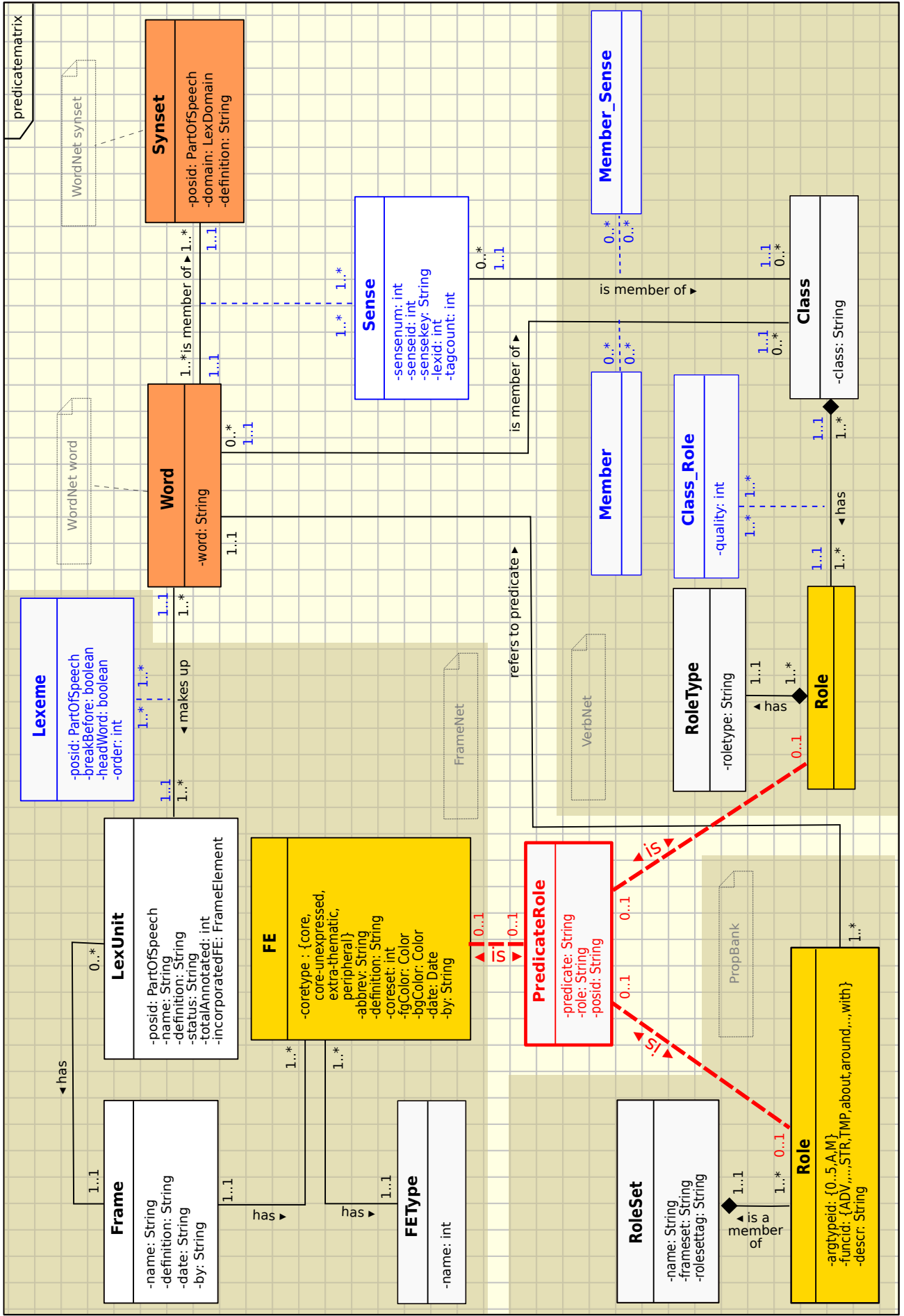
1..1



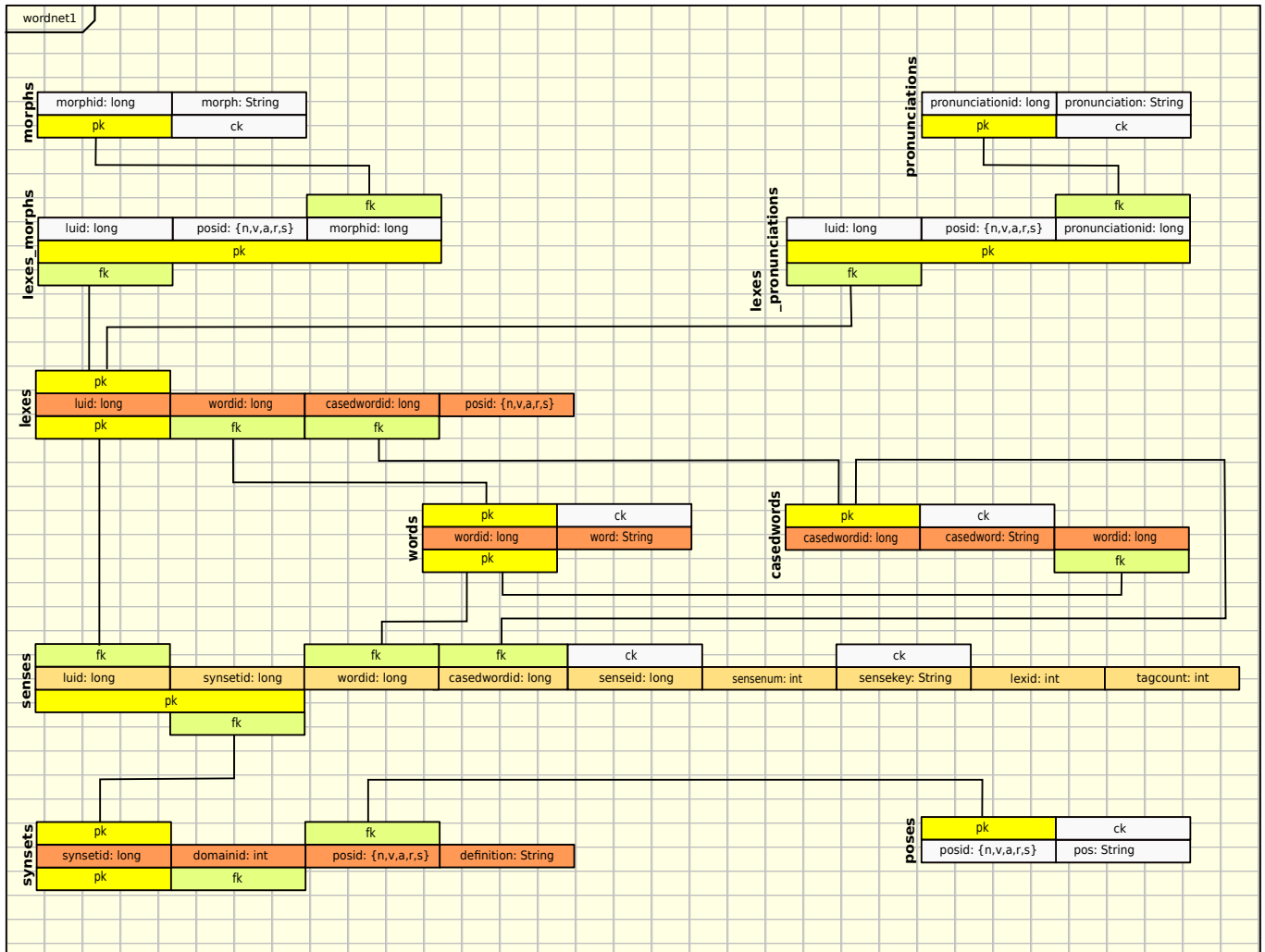


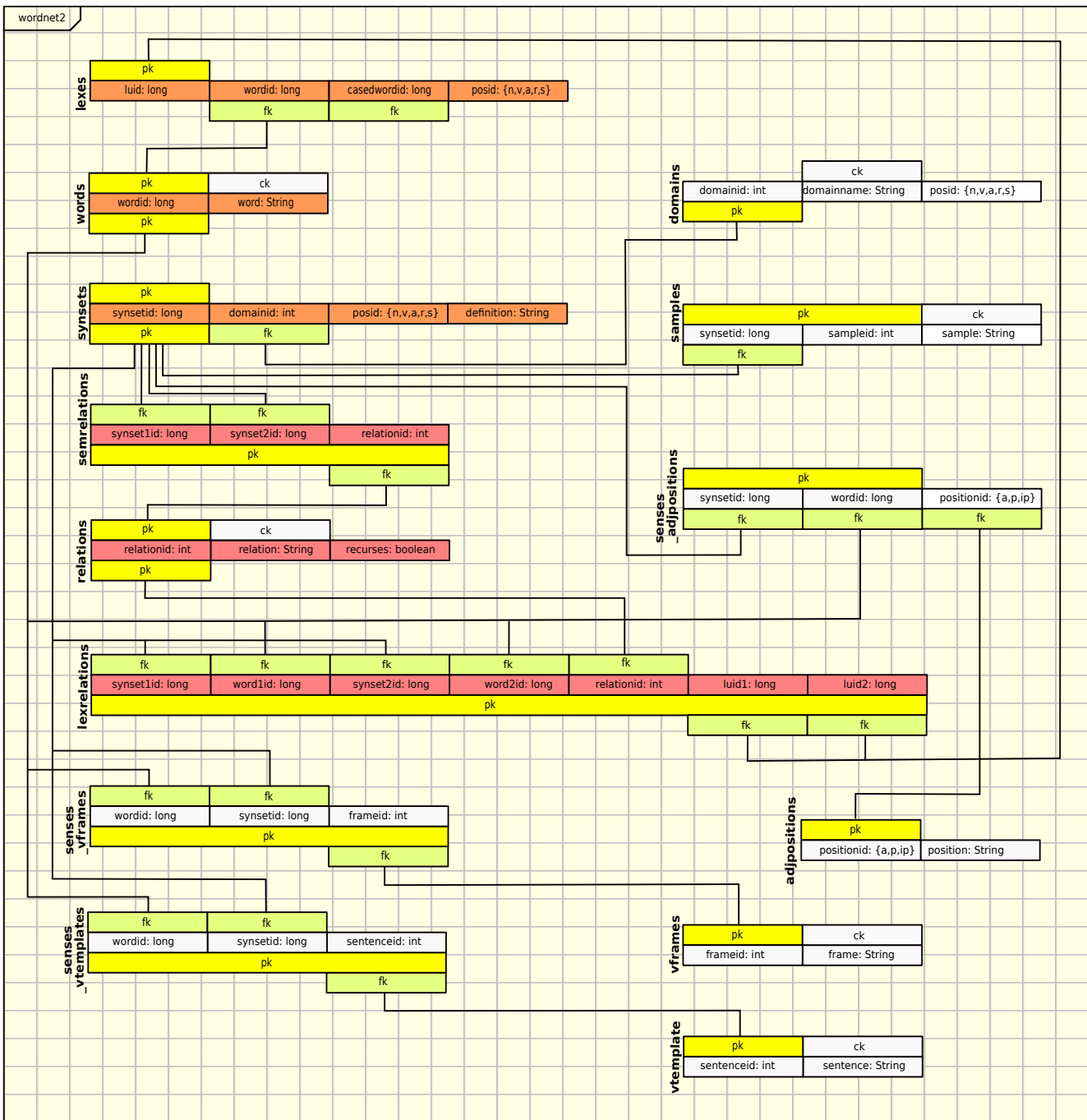




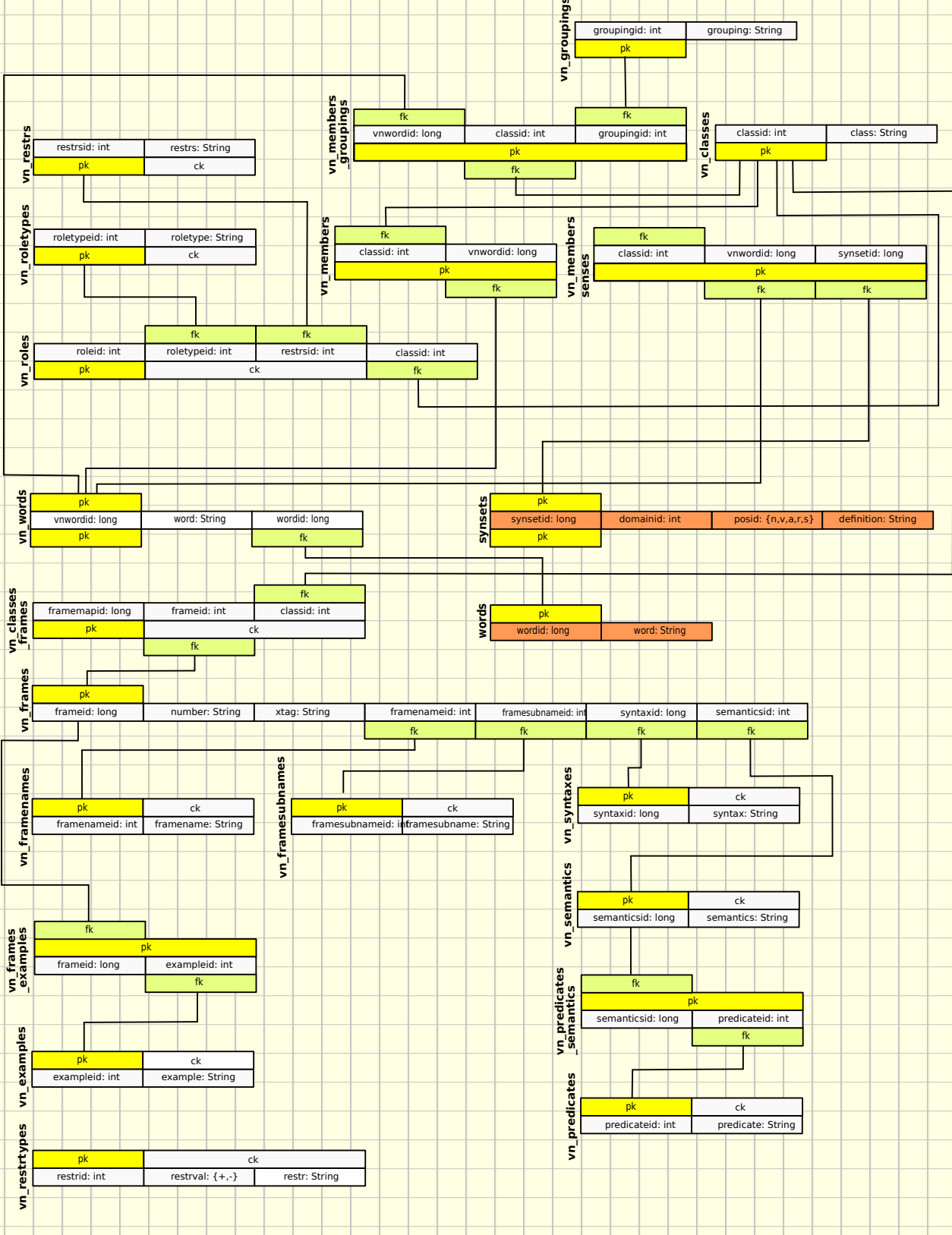


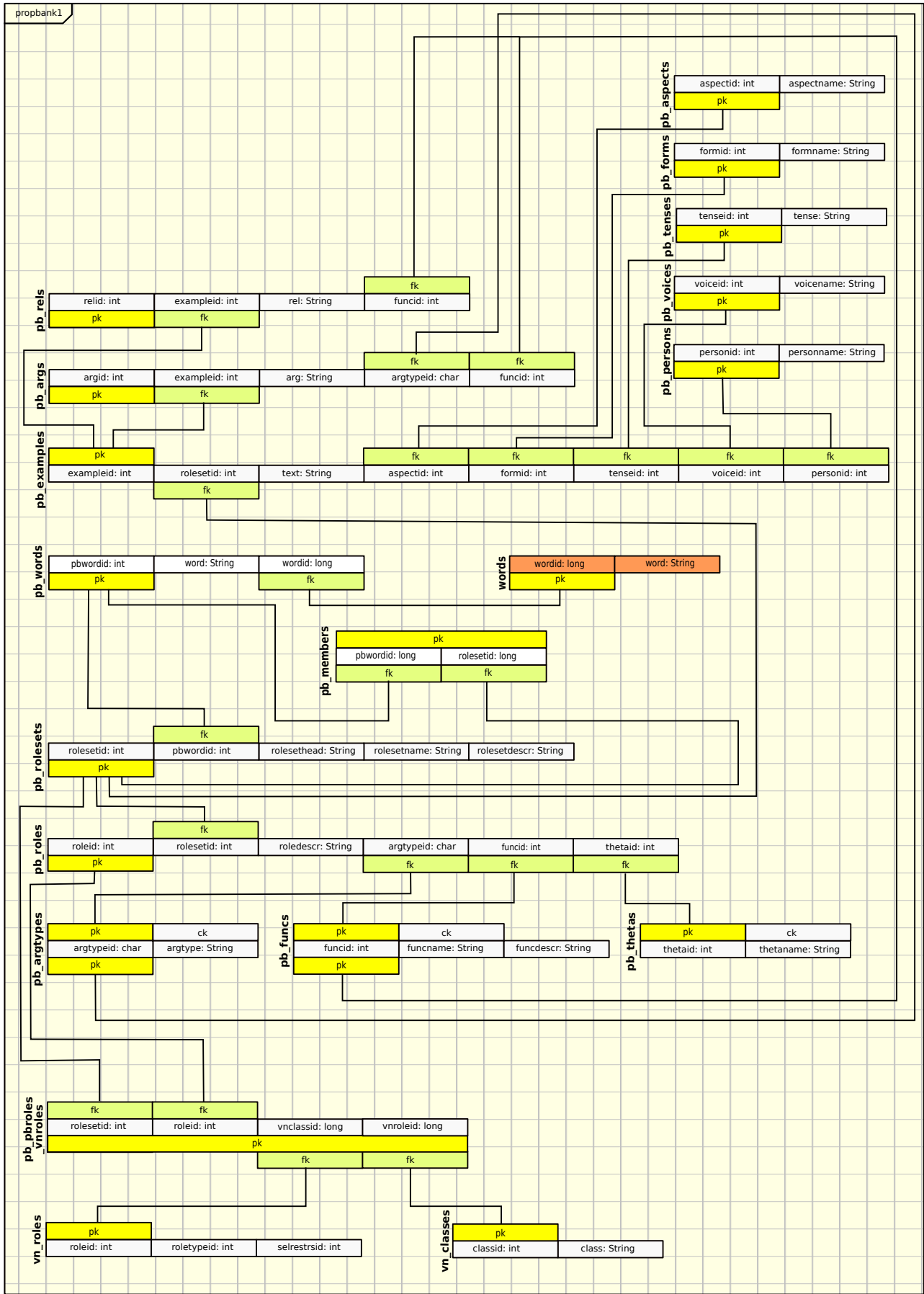
SCHEMAS

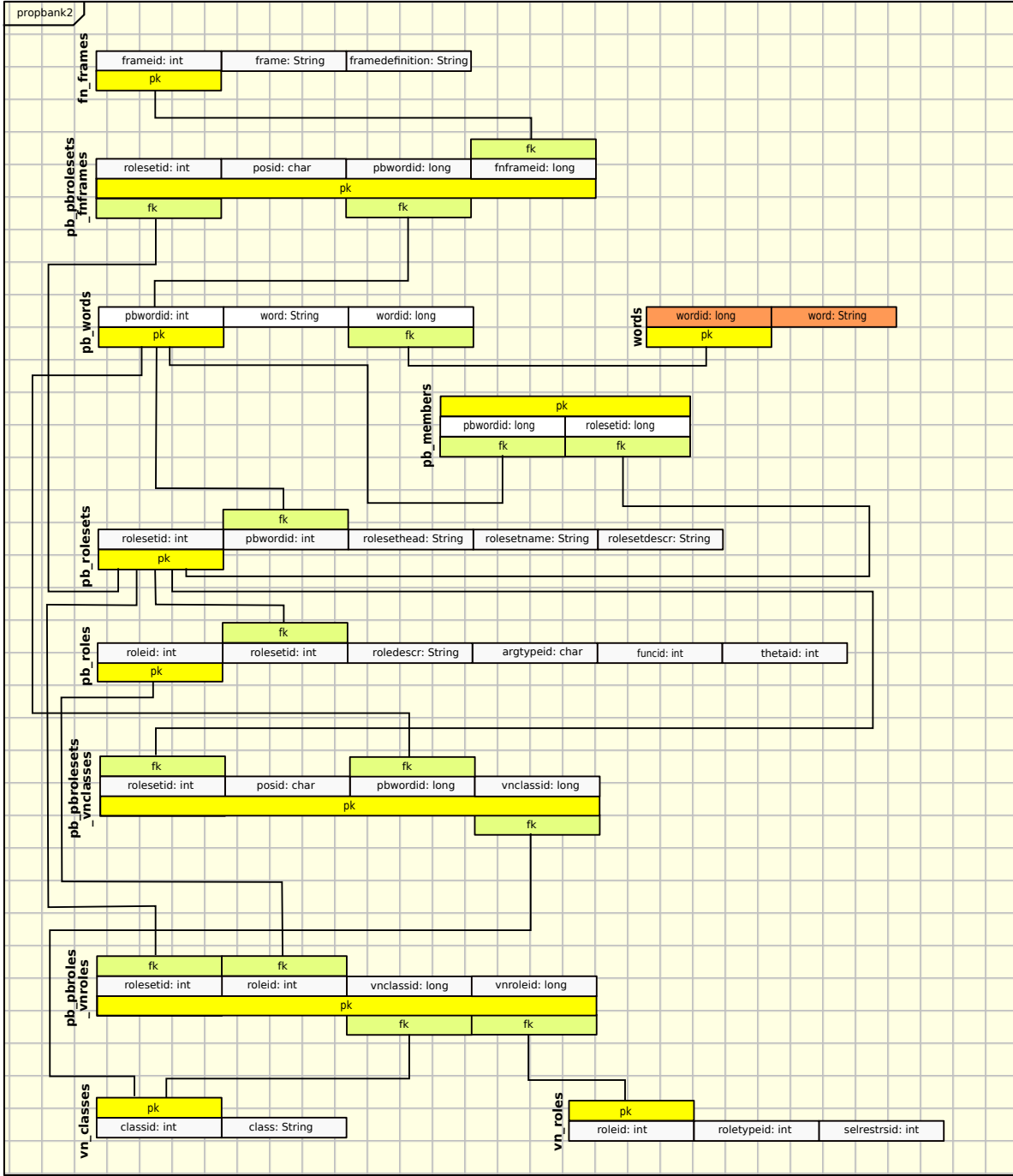




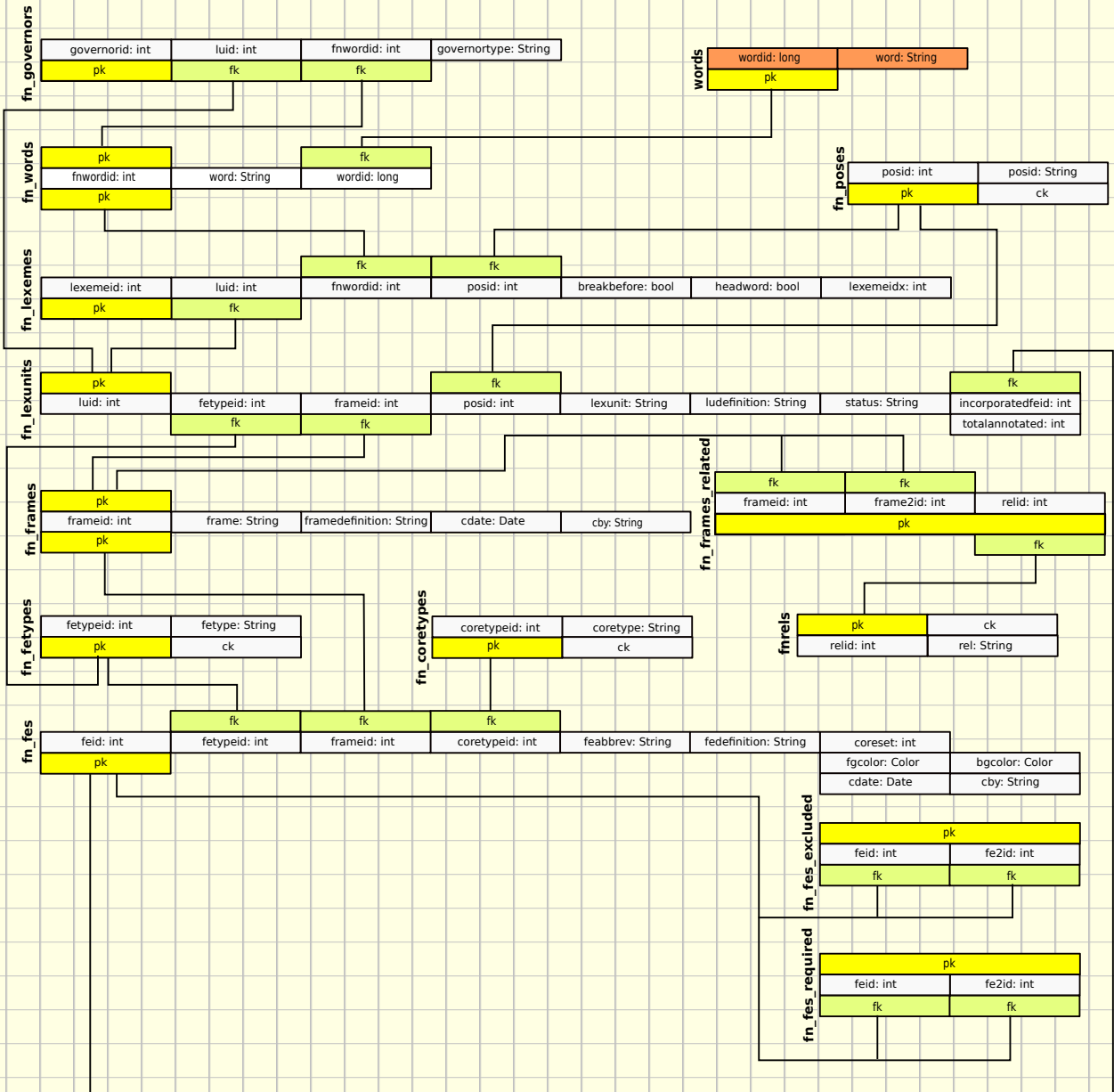
verbriet

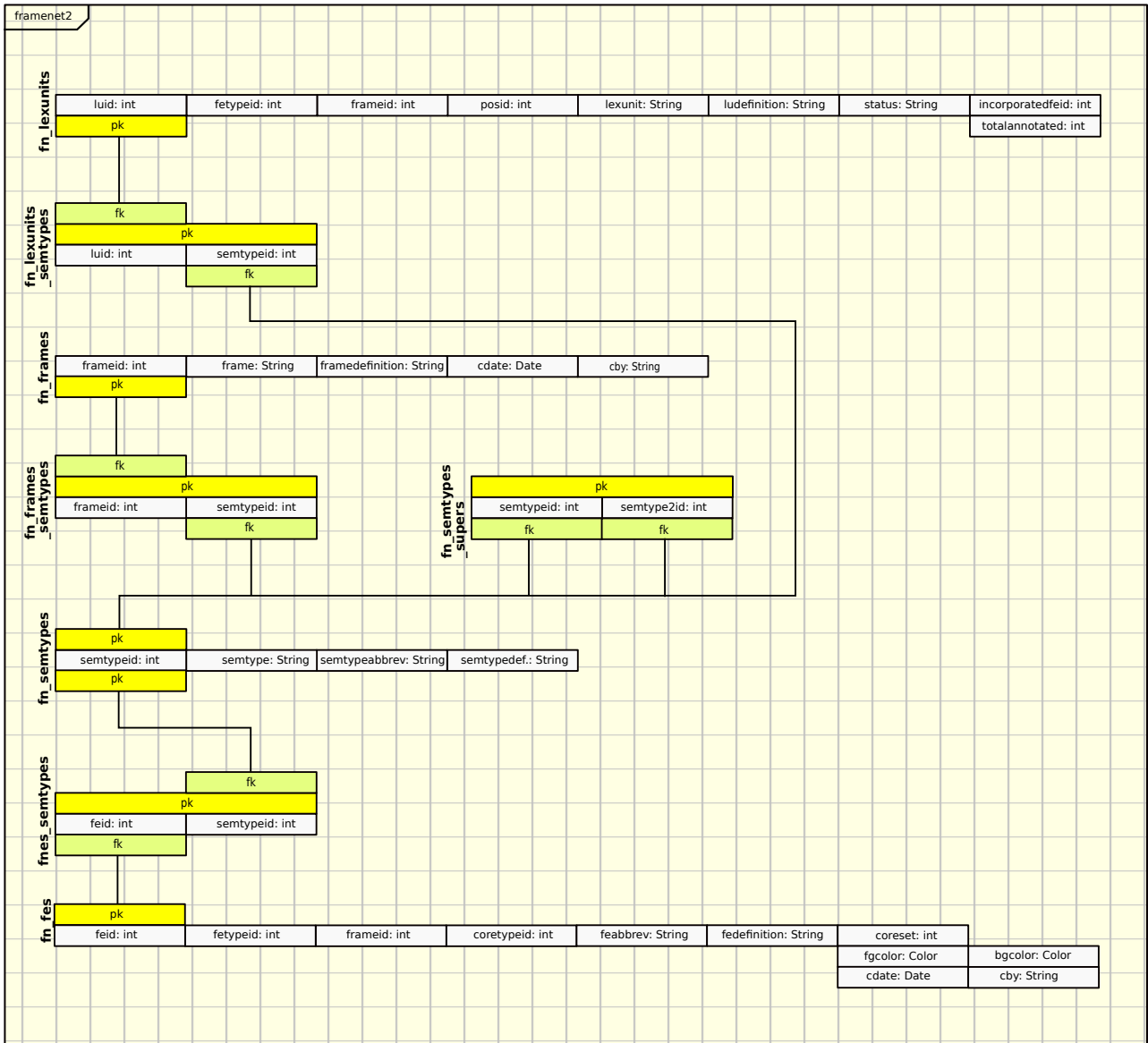


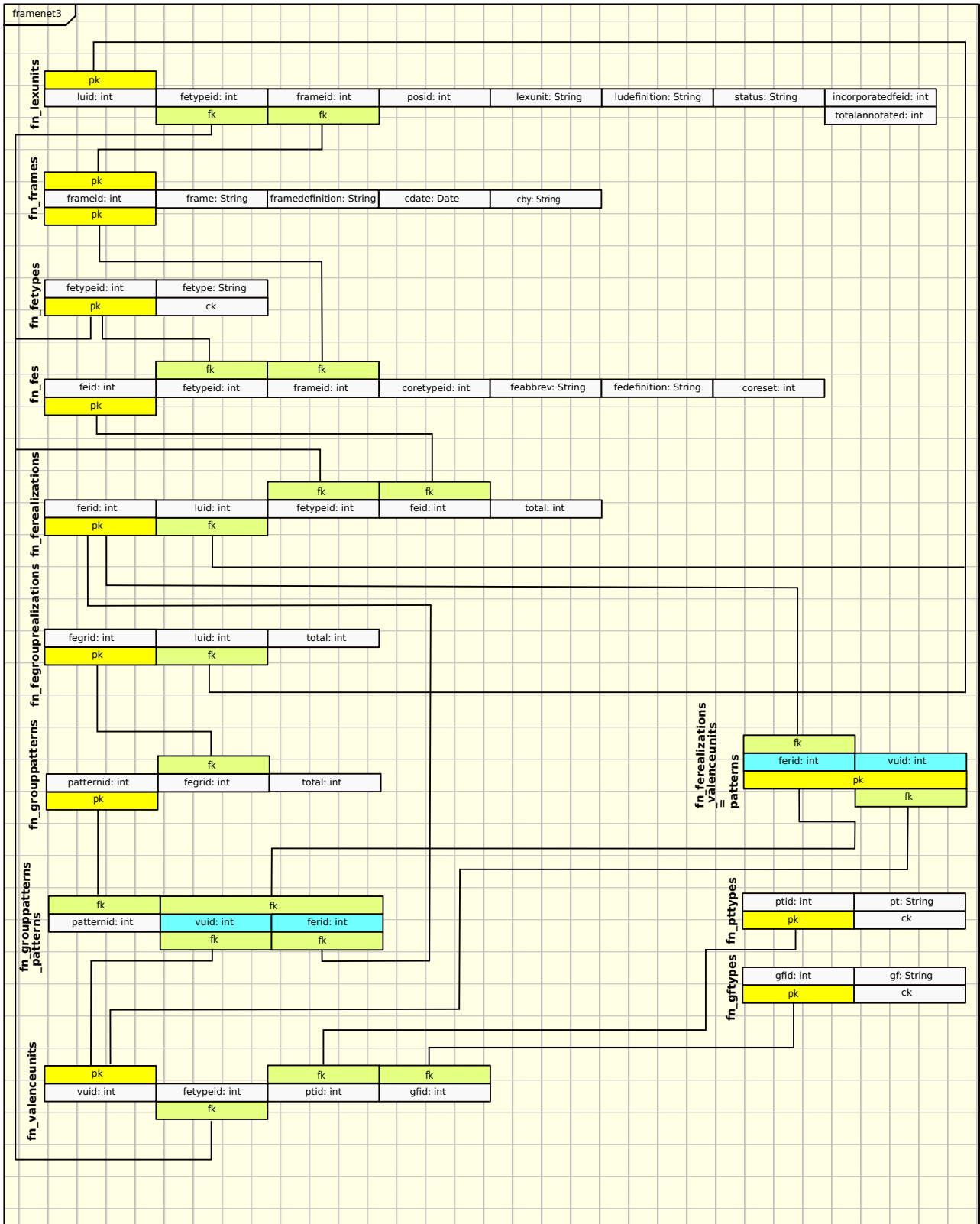




framenet1







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	ludefinition: String	status: String	incorporatedfeid: int	totalannotated: int
pk		fk						

fn_governors

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

fn_governors
_annosets

governorid: int	annosetid: int
fk	pk
	fk

fn_grouppatterns

patternid: int	fegrid: int	total: int
pk		

fn_grouppatterns
_annosets

patternid: int	annosetid: int
fk	pk
	fk

fn_valenceunits

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

fn_valenceunits
_annosets

vuid: int	annosetid: int
fk	pk
	fk

fn_subcorpuses

subcorpusid: int	luid: int	subcorpus: String
pk	fk	

fn_subcorpuses
sentences

subcorpusid: int	sentenceid: int
fk	pk
	fk

fn_documents

documentid: int	corpusid: int	documentdescr: String
pk	fk	

fn_corpuses

corpusid: int	corpus: String
pk	ck

fn_sentences

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

fn_annotsets

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

fn_layers

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

fn_cxns

cxnid: int	cxn: String
pk	ck

fn_labeltypes

labeltypeid: int	labeltype: String
pk	ck

fn_labeltypes

labeltypeid: int	labeltype: String
pk	ck

fn_layertypes

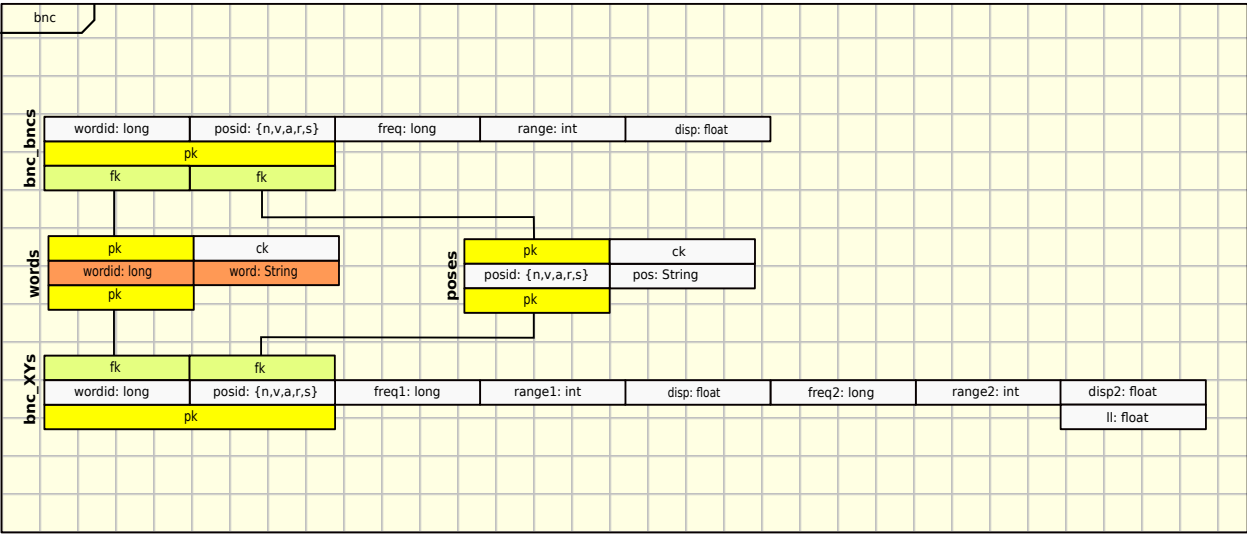
layertypeid: int	layertype: String
pk	ck

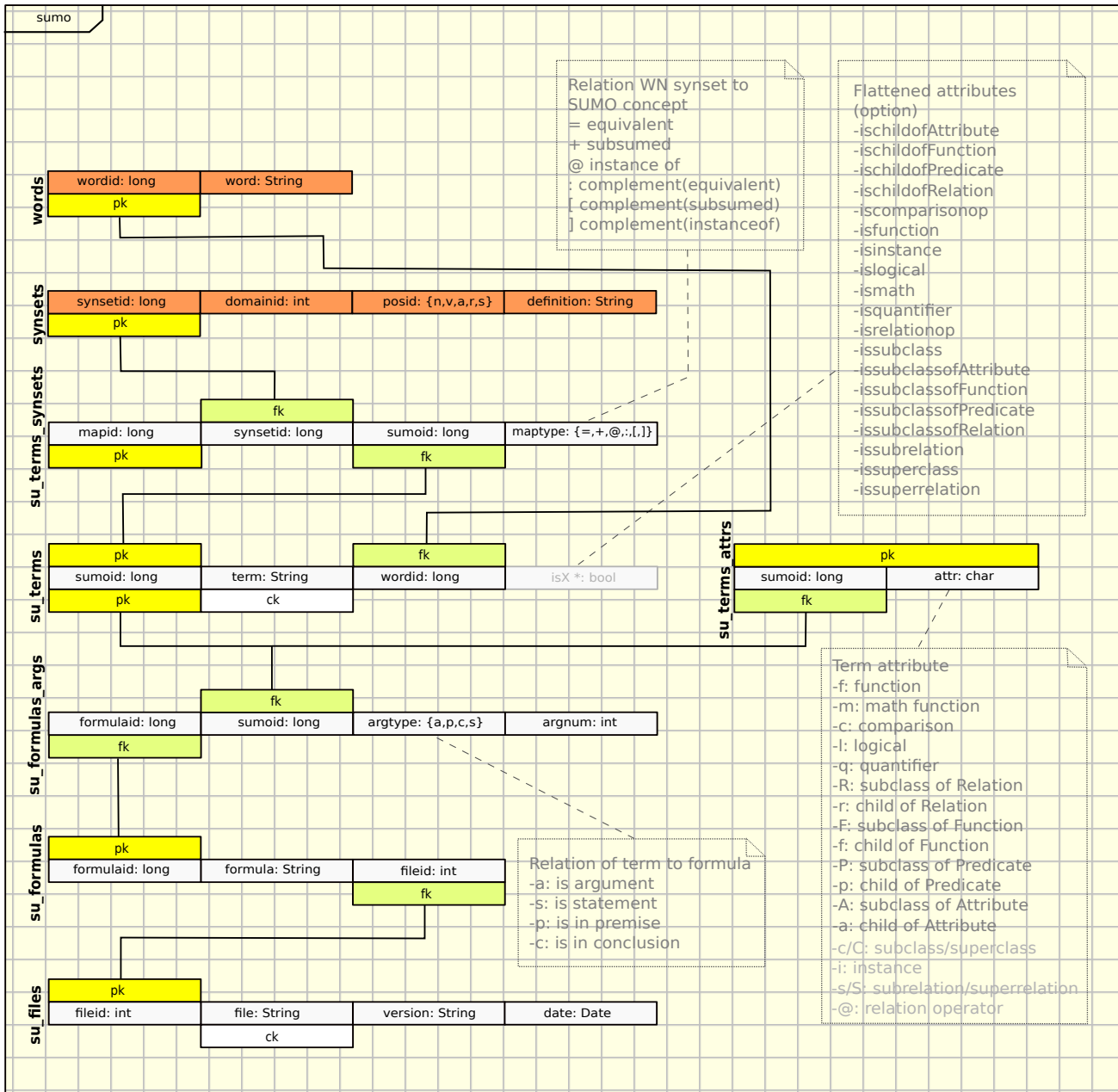
fn_labels

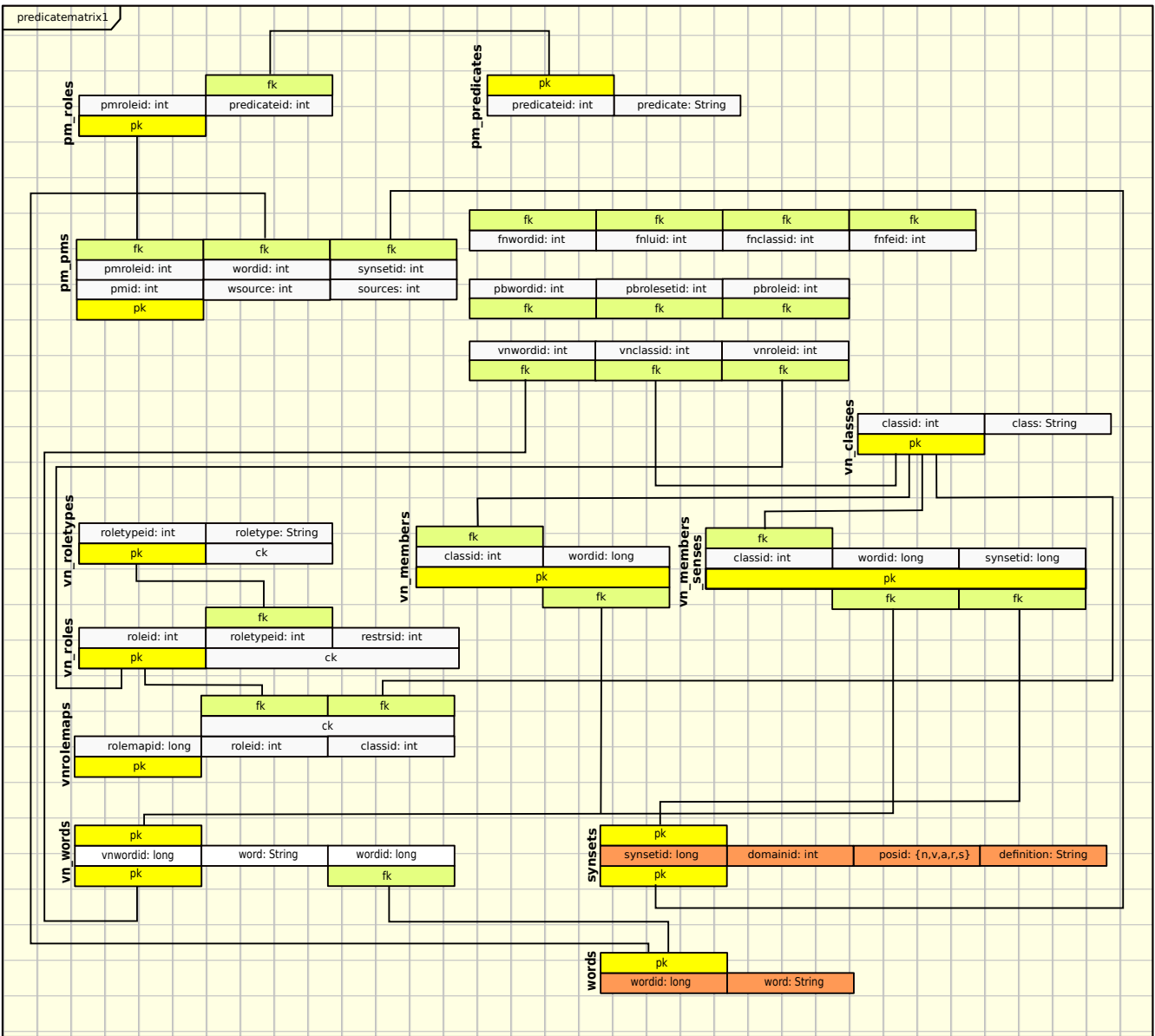
labelid: int	layerid: int	labeltypeid: int	labeltypeid: int	feid: int	start: int	end: int
pk	fk	fk	fk	fk		

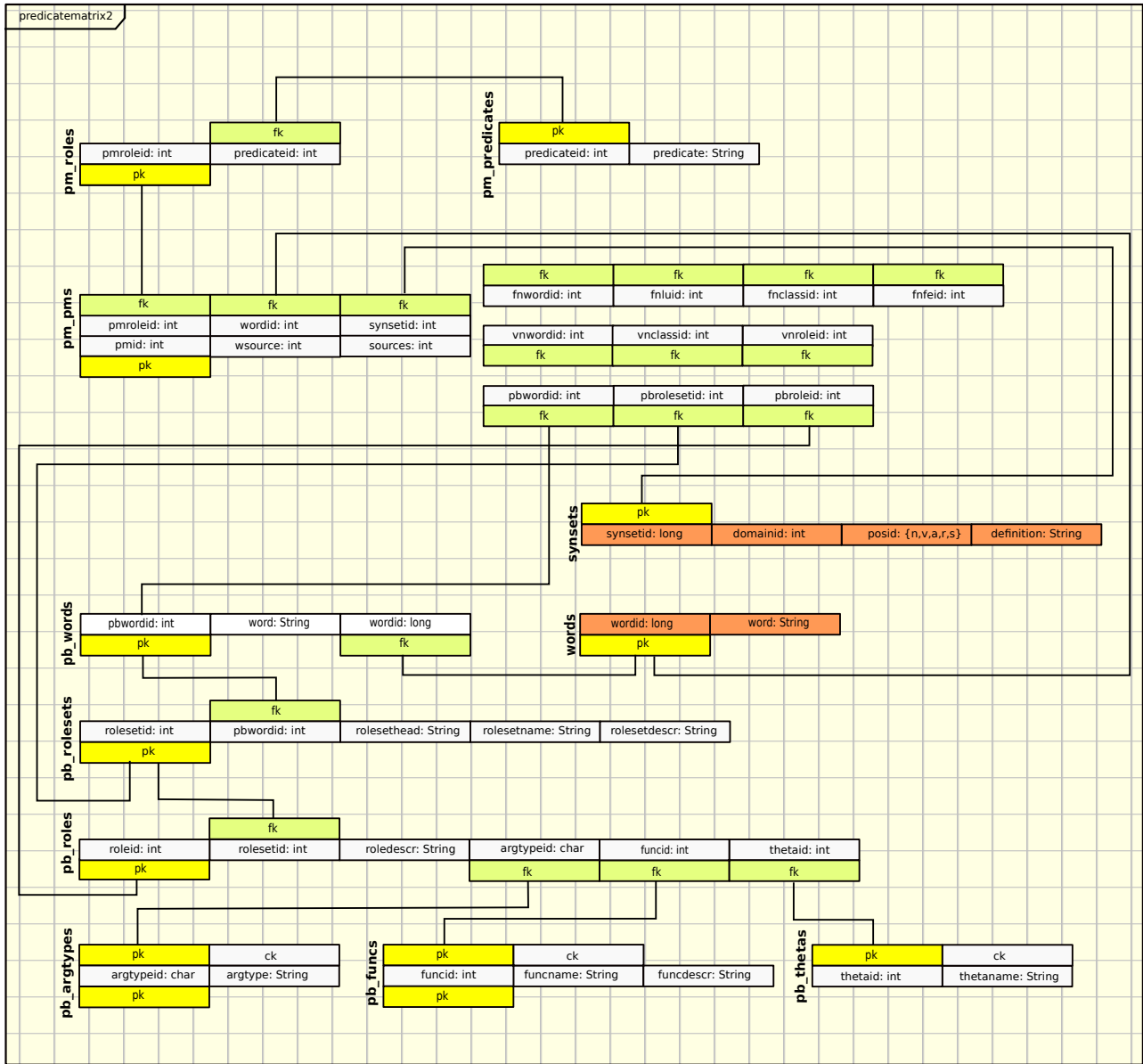
fn_fes

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









fn_words

pk	fnwordid: int	word: String	fk	wordid: long
pk				

fn_lexemes

lexemeid: int	luid: int	fk	fnwordid: int	posid: int	breakbefore: bool	headword: bool	lexemeid: int
pk		fk					

fn_lexunits

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

fn_frames

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

fn_fetypes

fetypeid: int	fetype: String
pk	ck

fn_fes

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

pm_pms

pk	fk	fk	fk	fk	fk	fk	fk
pmid: int	wordid: int	synsetid: int	fnwordid: int	fnluid: int	fnframeid: int	fnfeid: int	
pmroleid: int	wsource: int	sources: int					
fk							

pm_predicates

pk	predicateid: int	predicate: String
----	------------------	-------------------

pm_roles

pk	fk
pmroleid: int	predicateid: int

words

pk	wordid: long	word: String
----	--------------	--------------

synsets

pk	synsetid: long	domainid: int	posid: {n,v,a,r,s}	definition: String
----	----------------	---------------	--------------------	--------------------

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
 -selrestrsid: int

vn_roletypes

-roletypeid: int
 -roletype: String

vn_restrs

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 -restrs: String

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 -restr: String

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vn_syntaxes

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 -syntax: String

vn_members_groupings

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

vn_groupings

-groupingid: int
 -grouping: String

propbank

pb_members

-pbwordid: long
-roleetid: int

pb_rolesets

-roleetid: int
-pbwordid: long
-roleid: 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
-examplename: 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

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 -frame2id: int
 -relid: int

fnrels

-relid: int
 -rel: String

fn_coretypes

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fn_poses

-posid: int
 -posid: String

fn_governors

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

fn_words

-wordid: long
 -word: String

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 -corpus: String

fn_subcorpuses

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 -luid: int
 -subcorpus: String

fn_documents

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 -corpusid: int
 -documentdescr: String

fn_sentences

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

fn_semtypes

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 -semtype: String
 -semtypeabbrev: String
 -semtypedefinition: String

fnsemtypes_super

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 -semtype2id: int

fn_frames_semtypes

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 -semtypeid: int

fn_lexunits_semtypes

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 -semtypeid: int

fn_fes_semtypes

-feid: int
 -semtypeid: int

fn_lexunits

-luid: int
 -frameid: int
 -posid: int
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 -ludefinition: String
 -ludict: char
 -incorporatedfeid: int
 -totalannotated: int
 -noccurs: int

fn_lexemes

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 -fnwordid: long
 -posid: int

fn_fes

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 -fetypeid: int
 -frameid: int
 -coretypeid: int
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 -fedefinition: String
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-subcorpusid: int
 -sentenceid: int

fn_ferealizations

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

fn_fegrouprealizations

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

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fn_fes_excluded

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fn_gftypes

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fn_labeltypes

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fn_layertypes

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 -layertype: String

fn_cxns

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fn_patterns

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 -fegrid: int
 -total: int

fn_grouppatterns_patterns

-patternid: int
 -void: int
 -ferid: int

fn_valenceunits

-void: 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
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 -luid: int
 -cxnid: int
 -sentenceid: int
 -text: String

fn_valenceunits_annosets

-void: 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

sumo

su_terms

-sumoid: long
-term: String
-isX*: bool
-wordid: int

su_terms_attrs

-sumoid: long
-attr: char

su_terms_synsets

-mapid: long
-posid: {n,v,a,r}
-sumoid: long
-maptype: {=,+,@,.,[,]}
-synsetid: long

su_formulas

-formulaid: long
-formula: String
-fileid: int

su_formulas_args

-formulaid: long
-sumoid: long
-argtype: {a,s,p,c}
-argnum: int

su_files

-fileid: int
-file: String
-version: String
-date: Date

predicatematrix

pm_pms

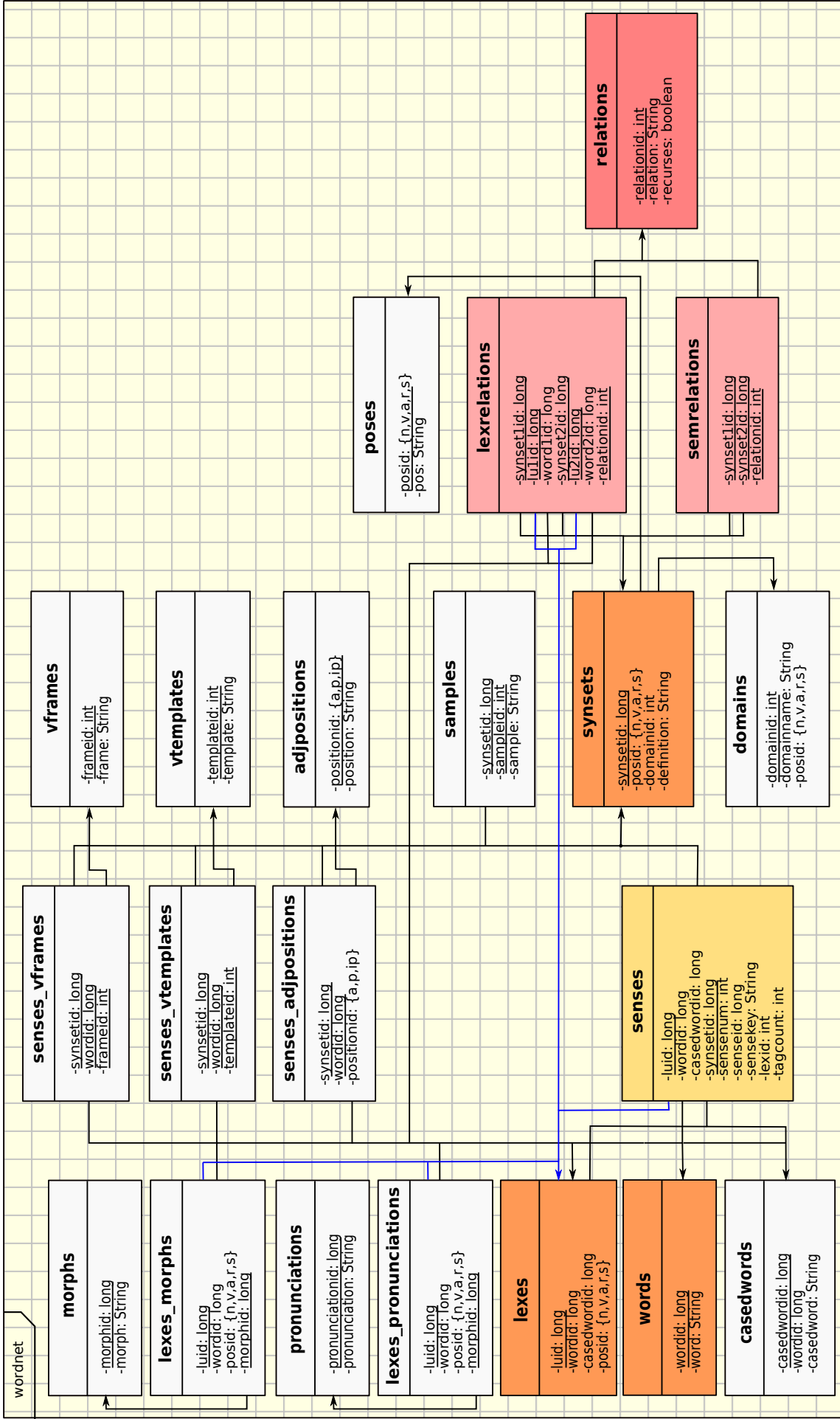
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-sensekey: String
-vnwordid: int
-vnclassid: int
-vnroleid: int
-pbwordid: int
-pbroleid: int
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-fnluid: int
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-fnfeid: int
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-wsource: int

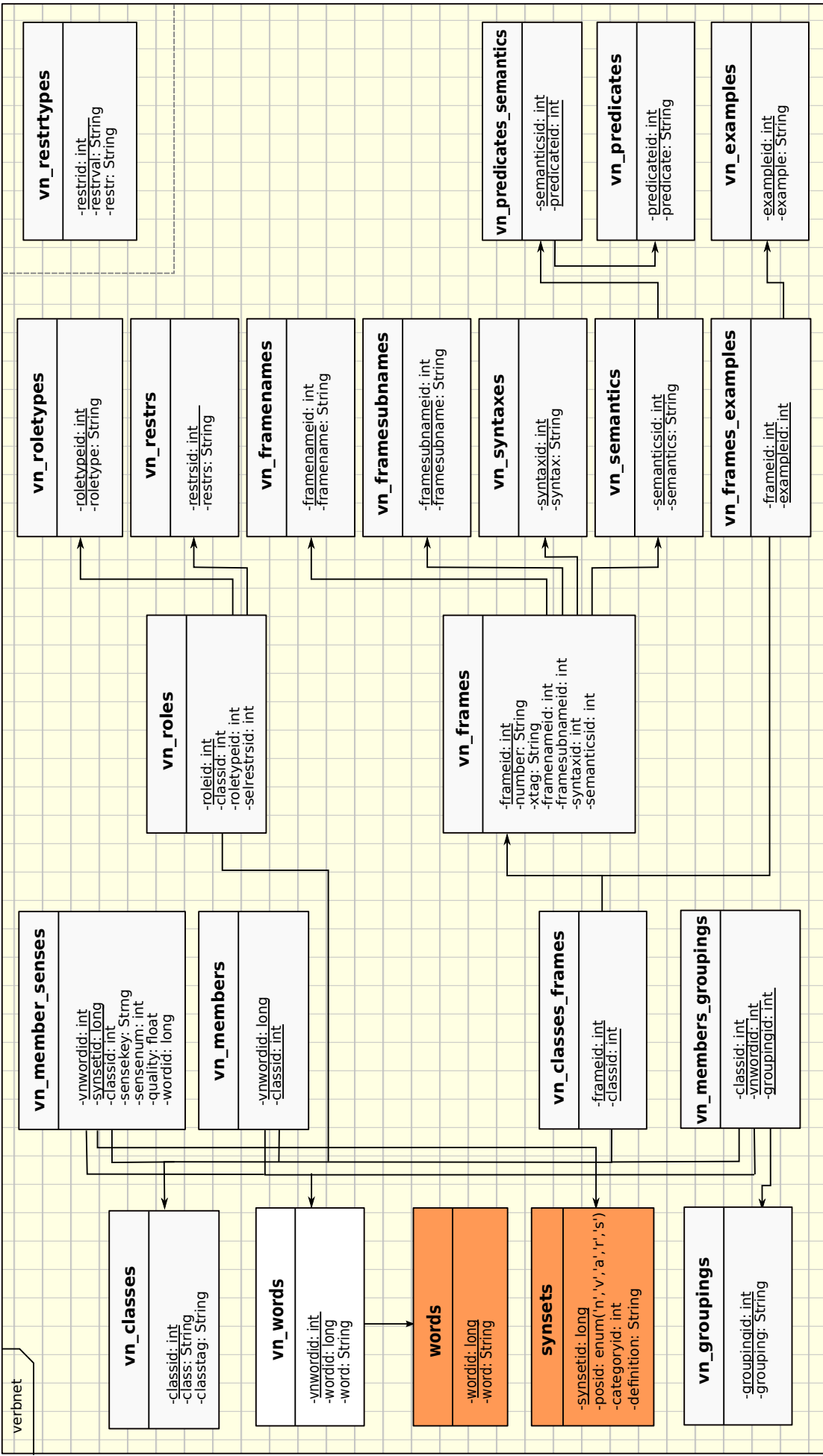
pm_roles

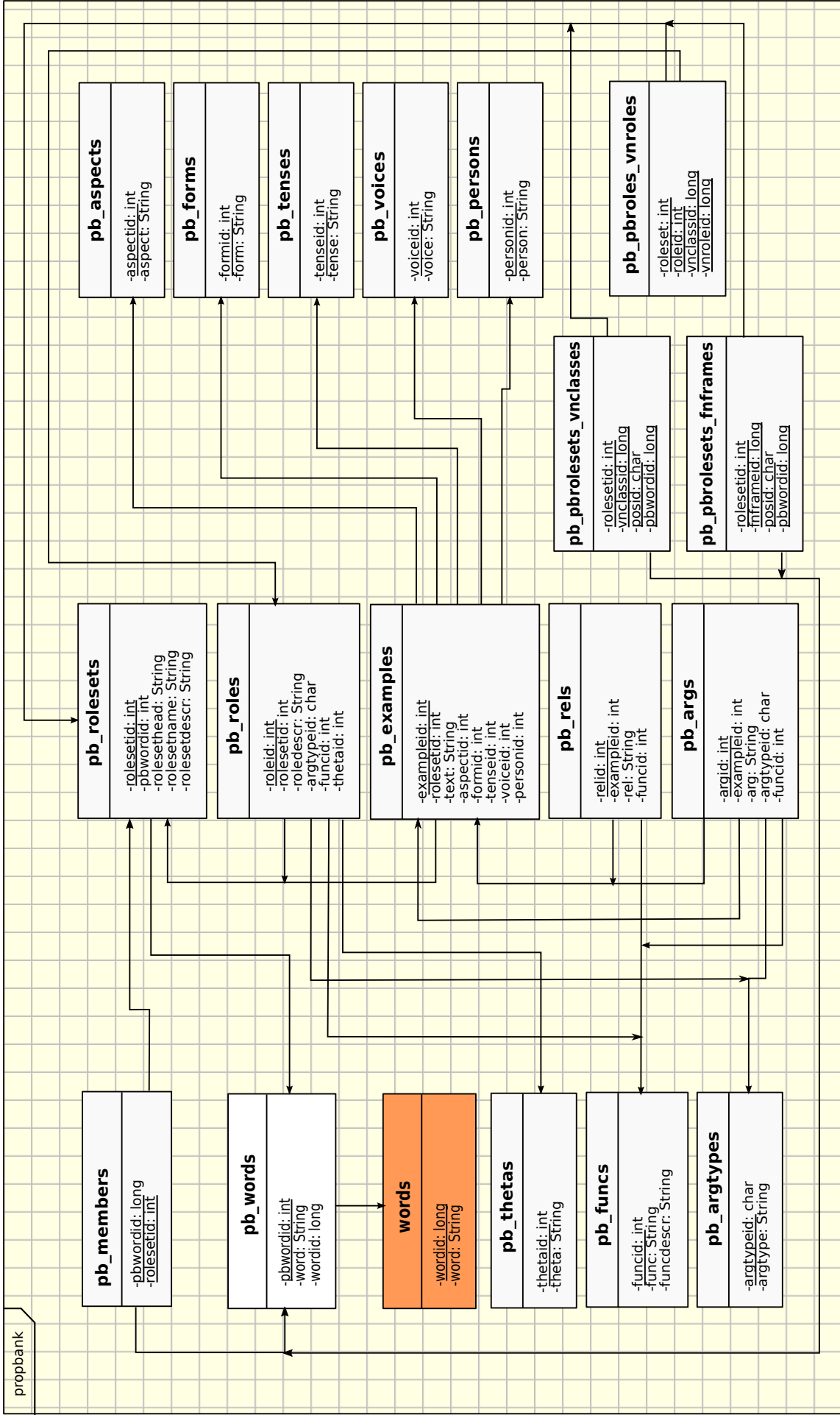
-pmroleid: int
-predicateid: int
-role: String
-pos: char

pm_predicates

-predicateid: int
-predicate: String







framenet1

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

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

fn_framerelations
-relationid: int
-relation: String

fn_poses
-posid: int
-posid: String

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

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

words
-wordid: long
-word: String

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

fnsemtypes_super
-semtypeid: int
-semtype2id: int

fn_frames_semtypes
-frameid: int
-semtypeid: int

fn_fes_semtypes
-feid: int
-semtypeid: int

fn_lexunits_semtypes
-luid: int
-semtypeid: int

fn_lexunits
-luid: int
-frameid: int
-posid: int
-lexunit: String
-ludefinition: String
-luidict: char
-incorporatedfeid: int
-statusid: int
-totalannotated: int
-noccurr: int

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

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

fn_fetypes
-fetypeid: int
-fetype: String

fn_fes_required
-feid: int
-fe2id: int

fn_fes_excluded
-feid: int
-fe2id: int

fn_coretypes
-coretypeid: int
-coretype: String

fn_pttypes
-ptid: int
-pt: String

fn_gftypes
-gftid: int
-gft: String

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

fn_fegrouprealisations
-fegruid: int
-luid: int
-total: int

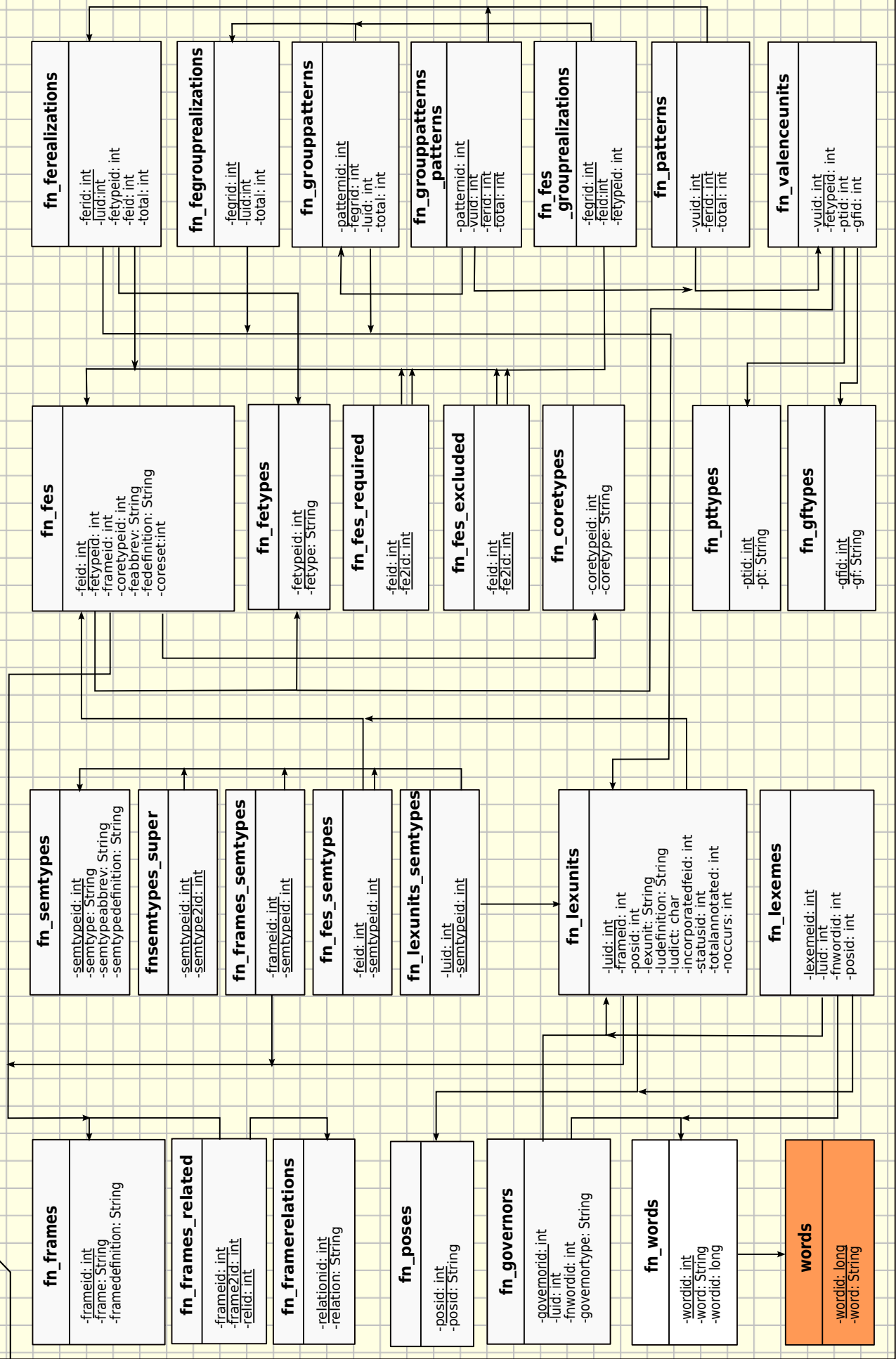
fn_grouppatterns
-patternid: int
-fegruid: int
-luid: int
-total: int

fn_grouppatterns_patterns
-patternid: int
-vuid: int
-ferid: int
-total: int

fn_fes_grouprealisations
-fegruid: int
-ferid: int
-fetypeid: int

fn_patterns
-vuid: int
-ferid: int
-total: int

fn_valenceunits
-vuid: int
-fetypeid: int
-ptid: int
-gftid: int



framernet2

fn_frames
-frameid: int
-frame: String
-framedefinition: String
-cdate: Date
-cby: String

fn_lexunits
-luid: int
-frameid: int
-posid: int
-lexunit: String
-ludfinition: String
-luidict: char
-incorporatedfeid: int
-statusid: int
-totalannotated: int
-nooccurs: int

fn_governors
-governorid: int
-luid: int
-wordid: long
-governortype: String

fn_governors_annotsets
-governorid: int
-annotsetid: int

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

fn_corpuses
-corpusid: int
-corpus: String

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

fn_subsentences
-subcorpusid: int
-sentenceid: int

fn_labeltypes
-labeltypeid: int
-labeltype: String

fn_layertypes
-layertypeid: int
-layertype: String

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

fn_grouppatterns_annotsets
-patternid: int
-annotsetid: int

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

fn_valenceunits_annotsets
-vuid: int
-annotsetid: int

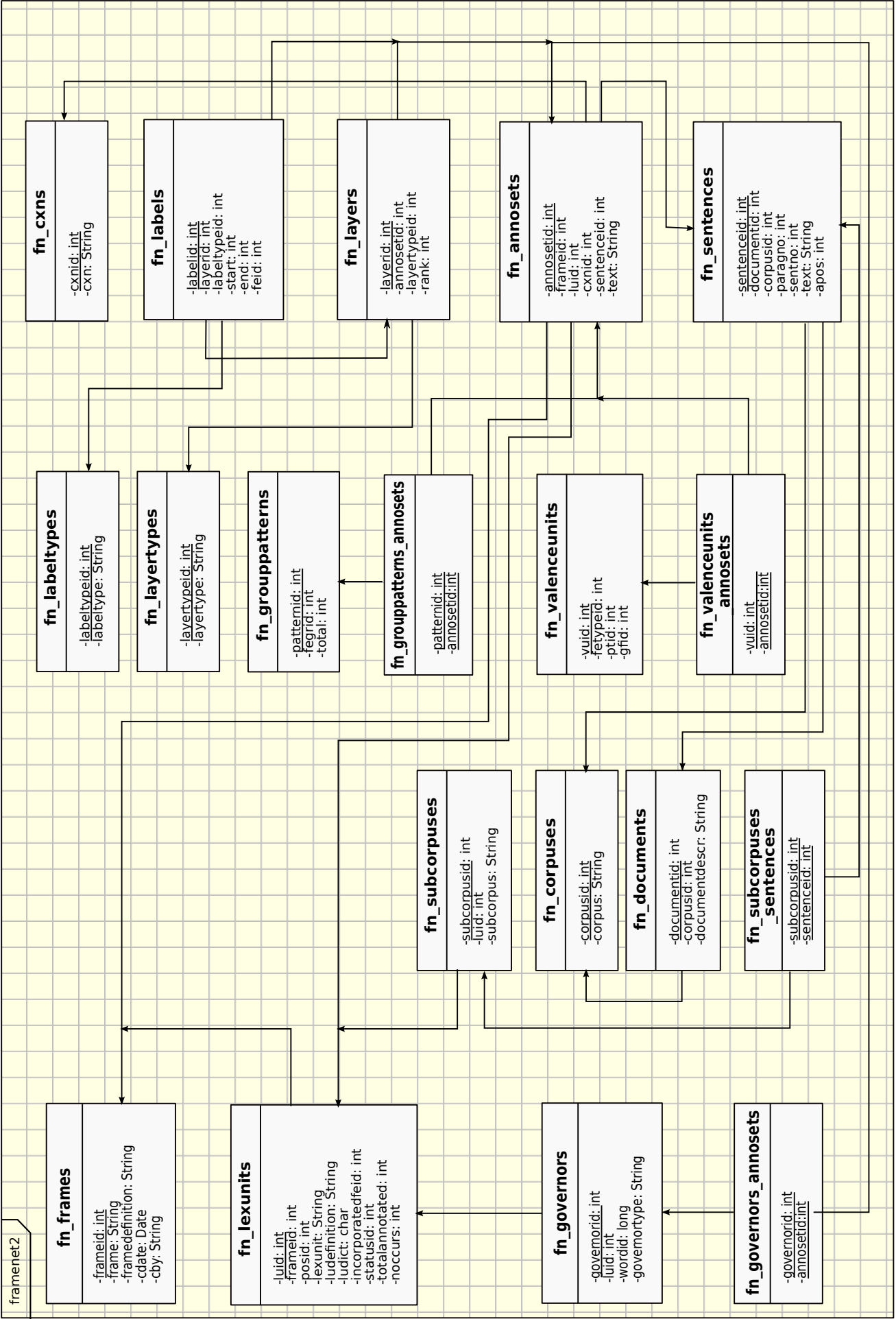
fn_cxns
-cxnid: int
-cxn: String

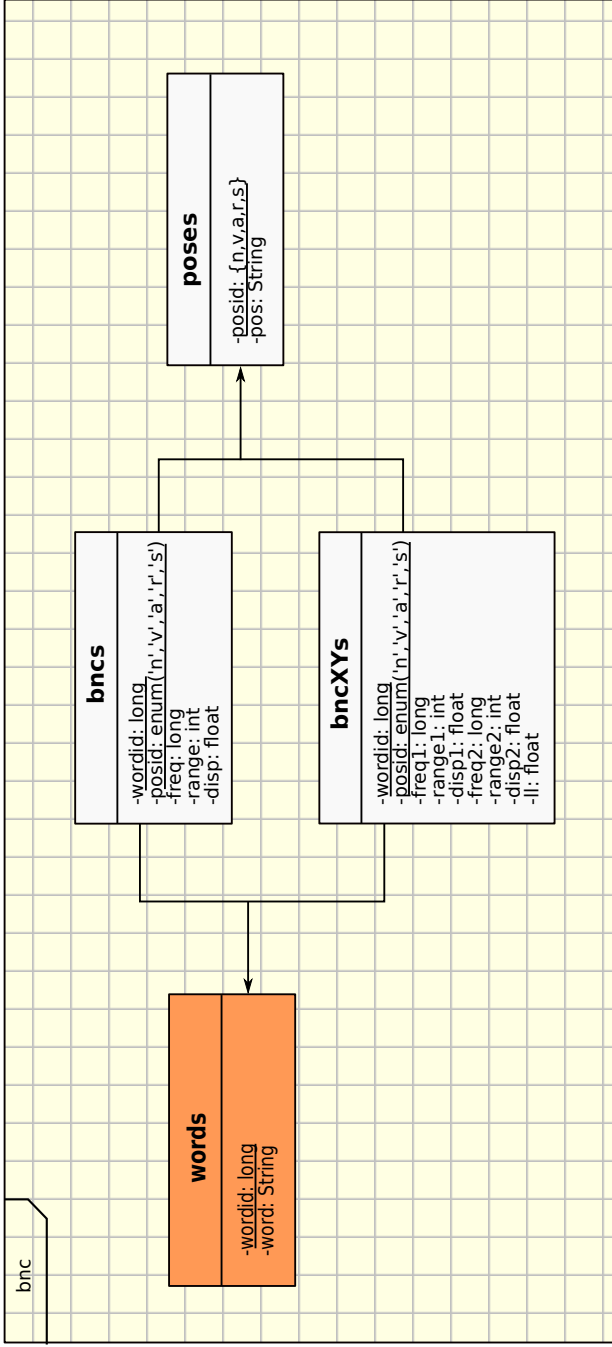
fn_labels
-labelid: int
-layerid: int
-labeltypeid: int
-start: int
-end: int
-feid: int

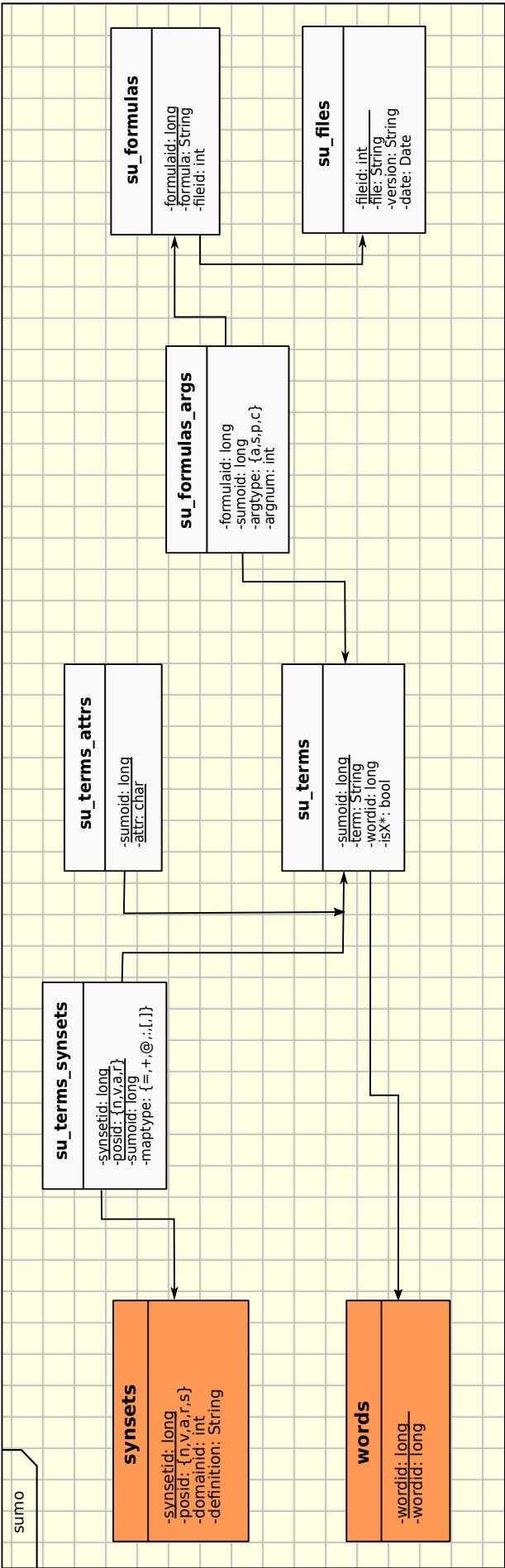
fn_layers
-layerid: int
-annotsetid: int
-layertypeid: int
-rank: int

fn_annotsets
-annotsetid: int
-frameid: int
-luid: int
-cxnid: int
-sentenceid: int
-text: String

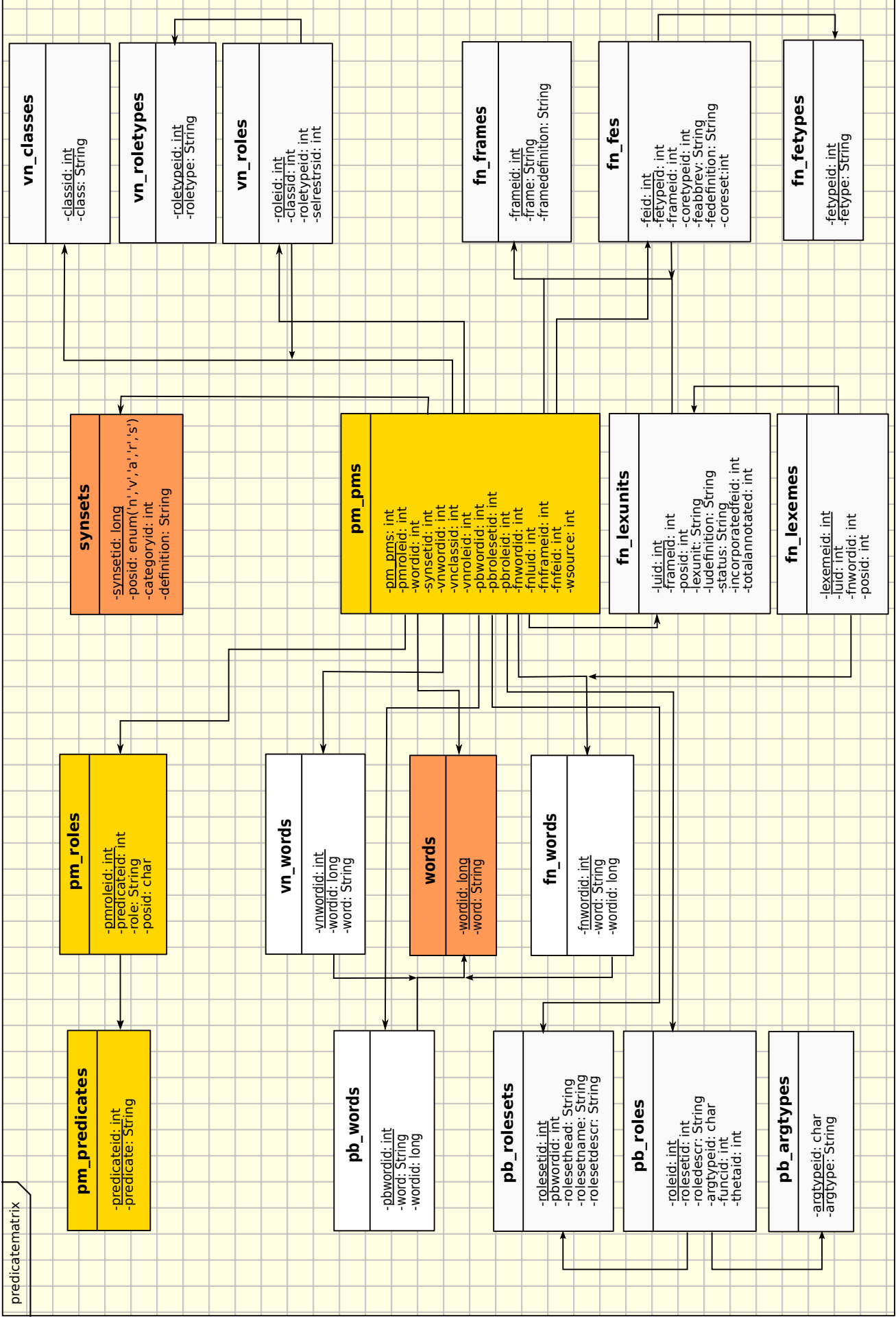
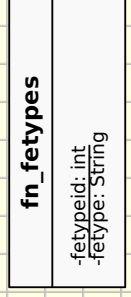
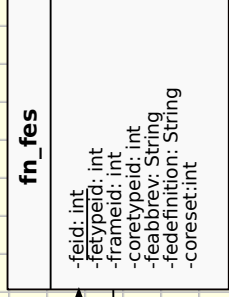
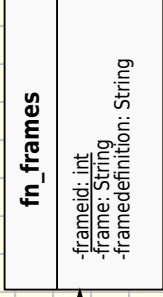
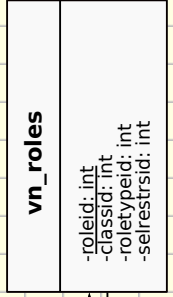
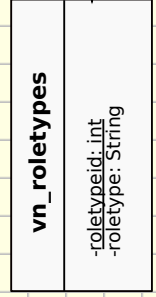
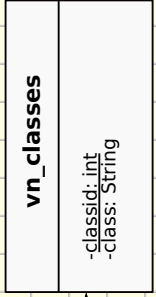
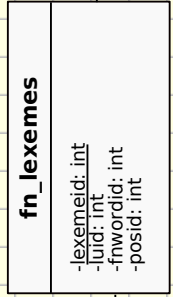
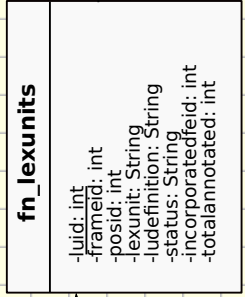
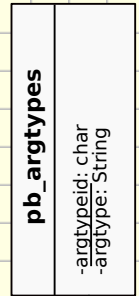
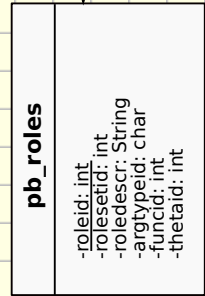
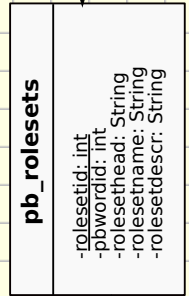
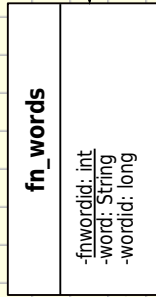
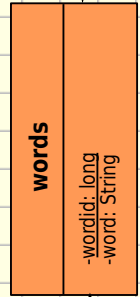
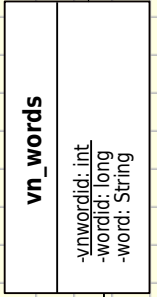
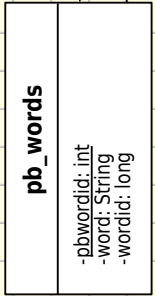
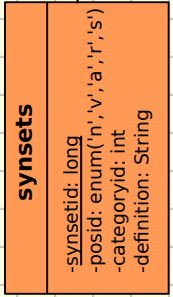
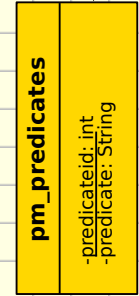
fn_sentences
-sentenceid: int
-documentid: int
-corpusid: int
-paragno: int
-sentno: int
-text: String
-apos: int





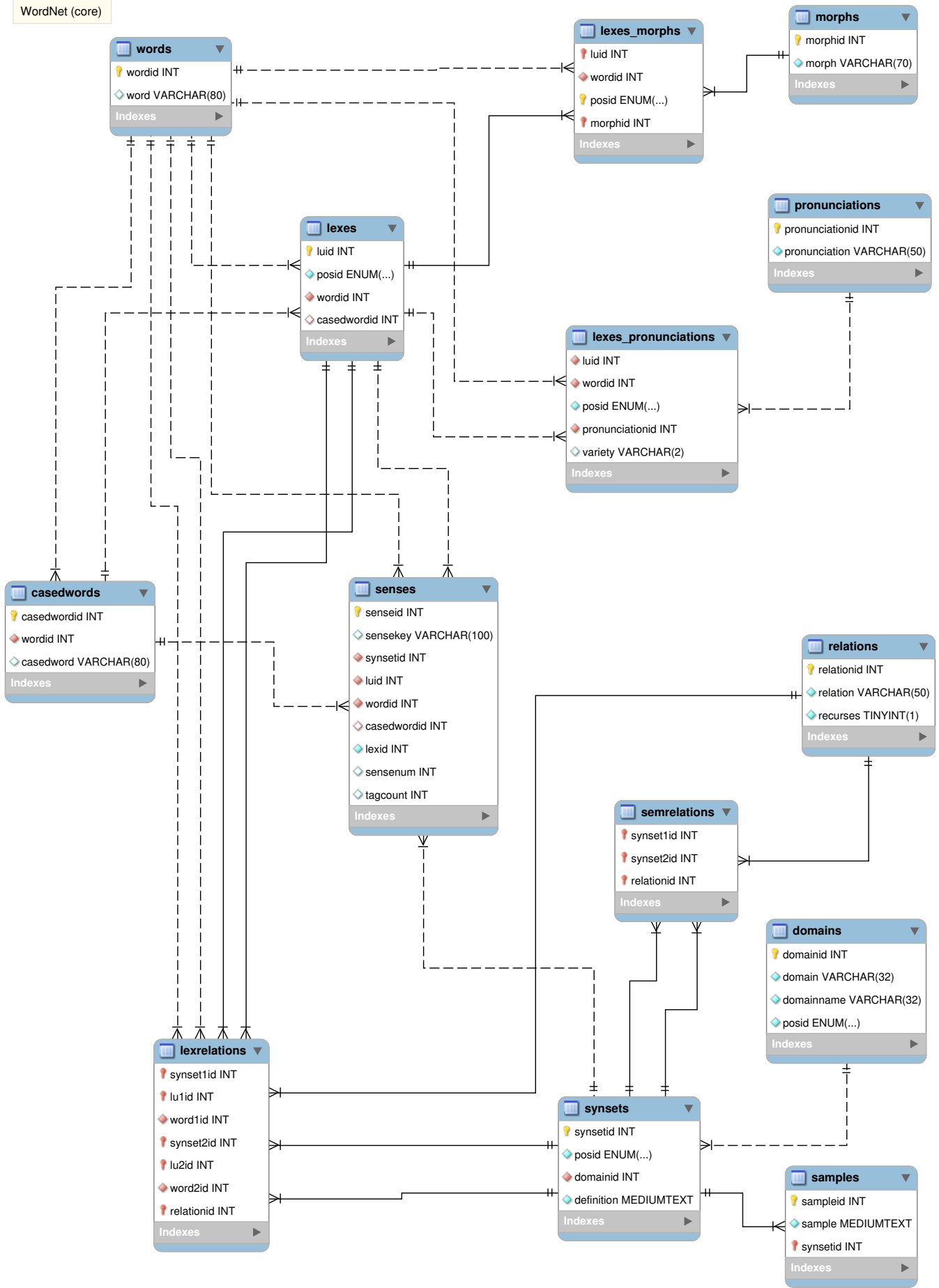


predicatematrix

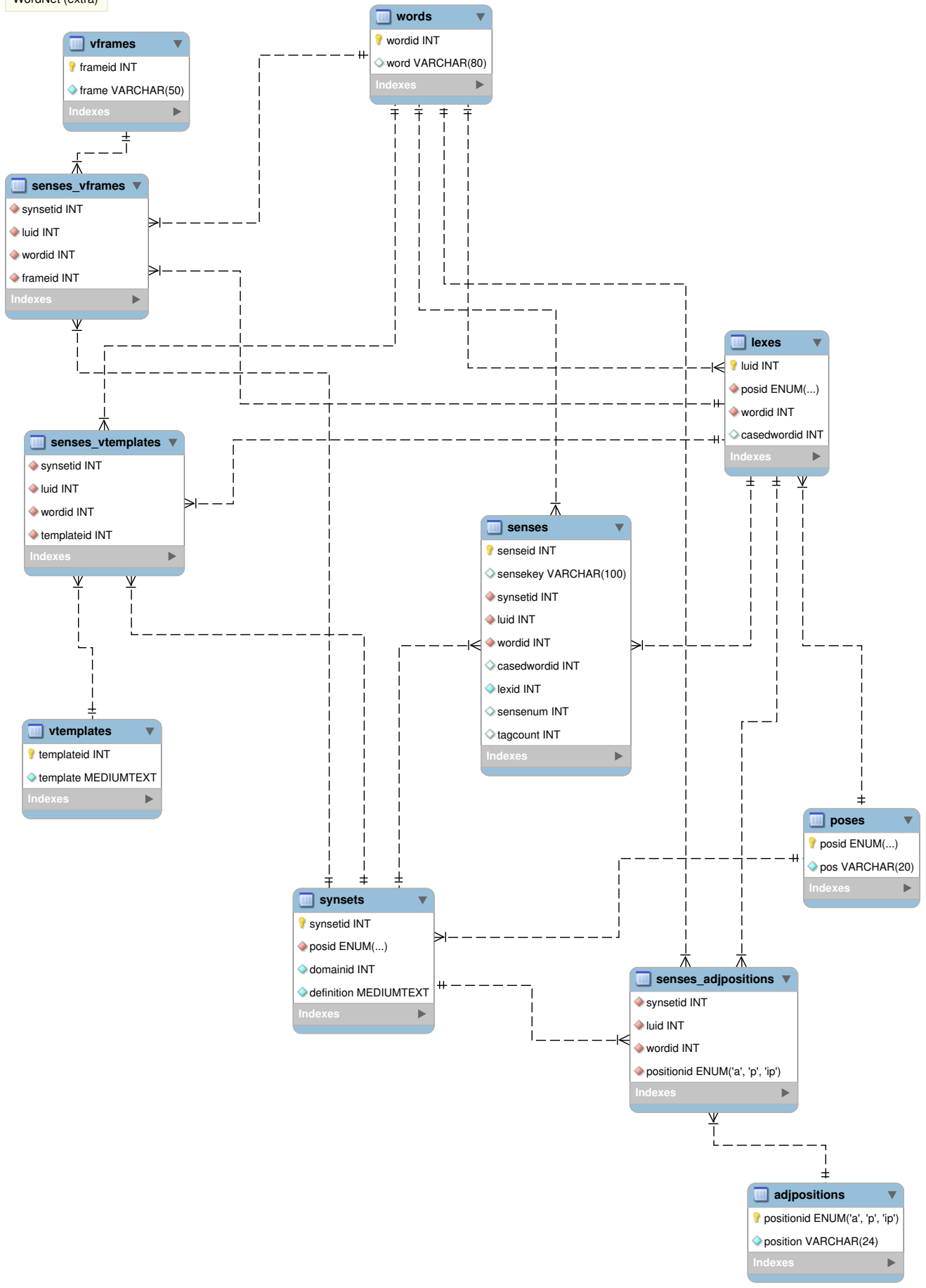




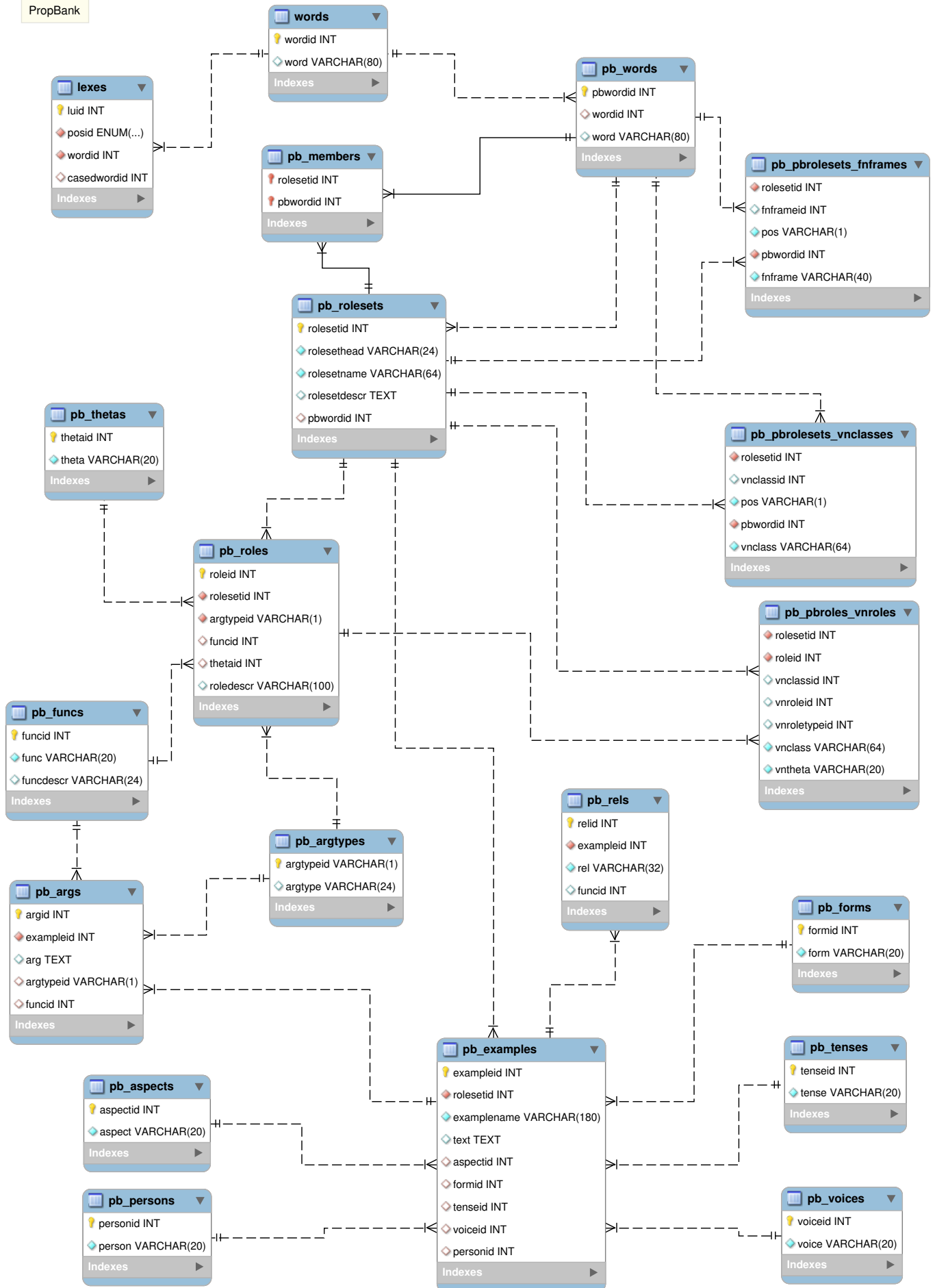
WordNet (core)

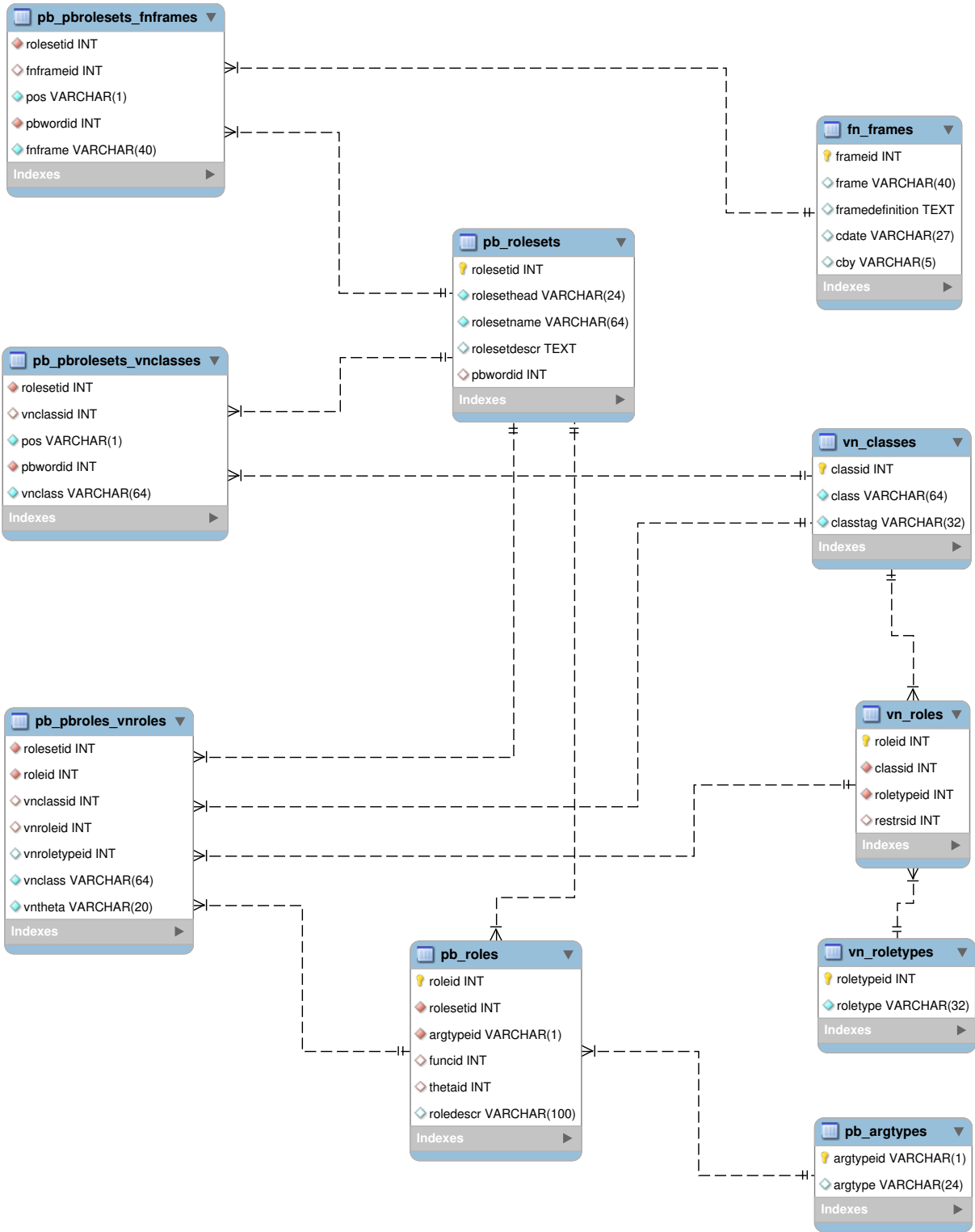


WordNet (extra)

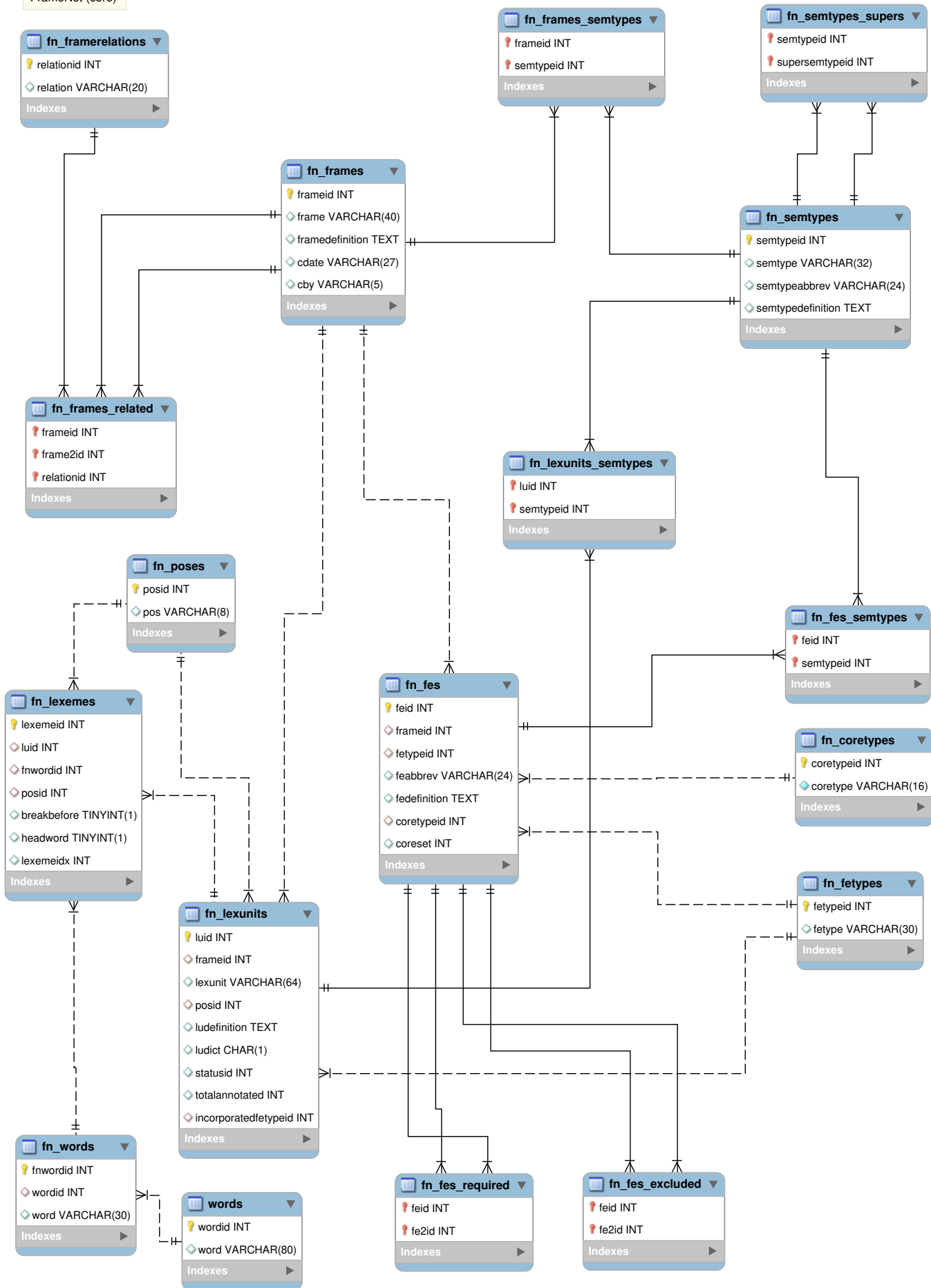


PropBank

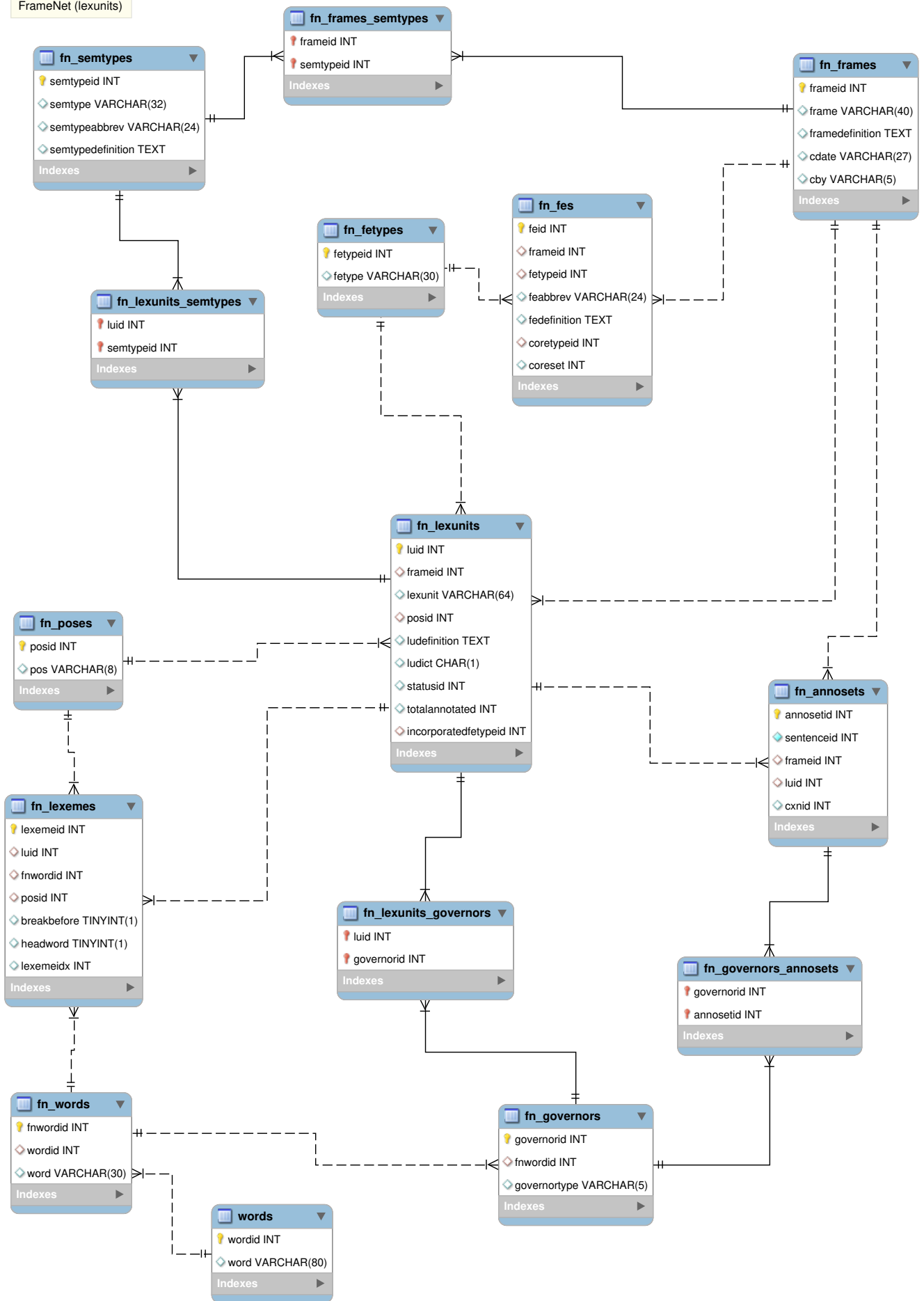




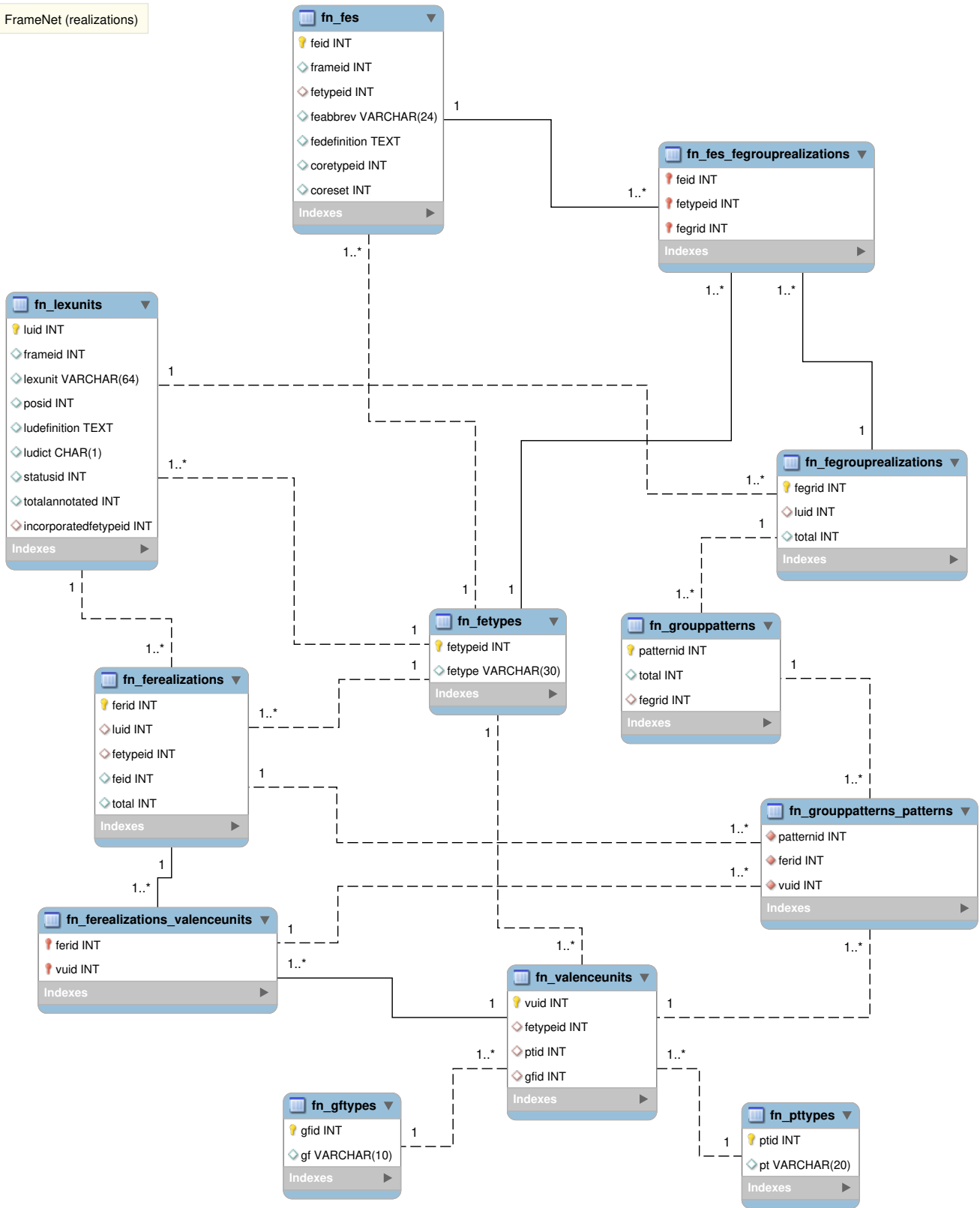
FrameNet (core)



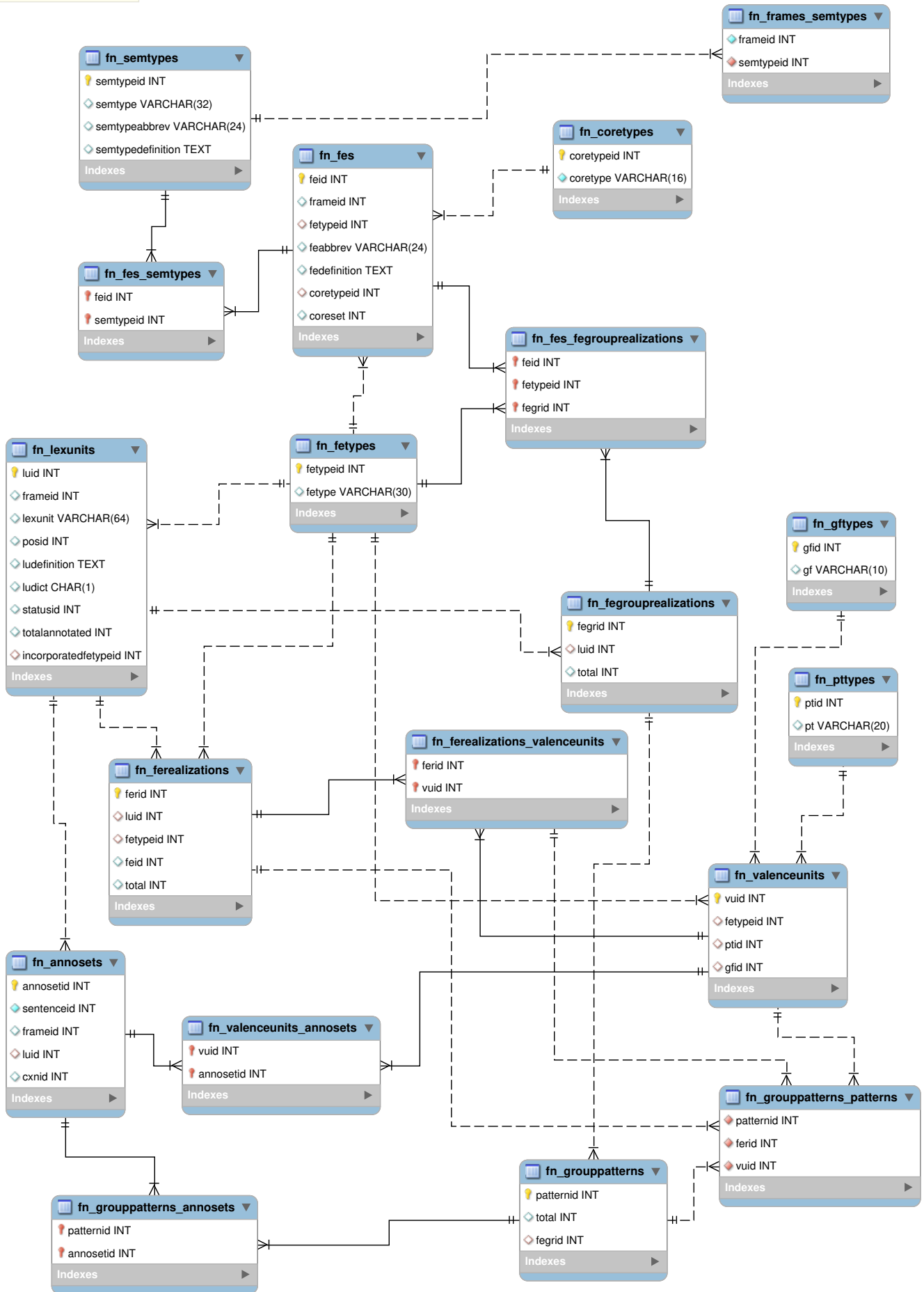
FrameNet (lexunits)



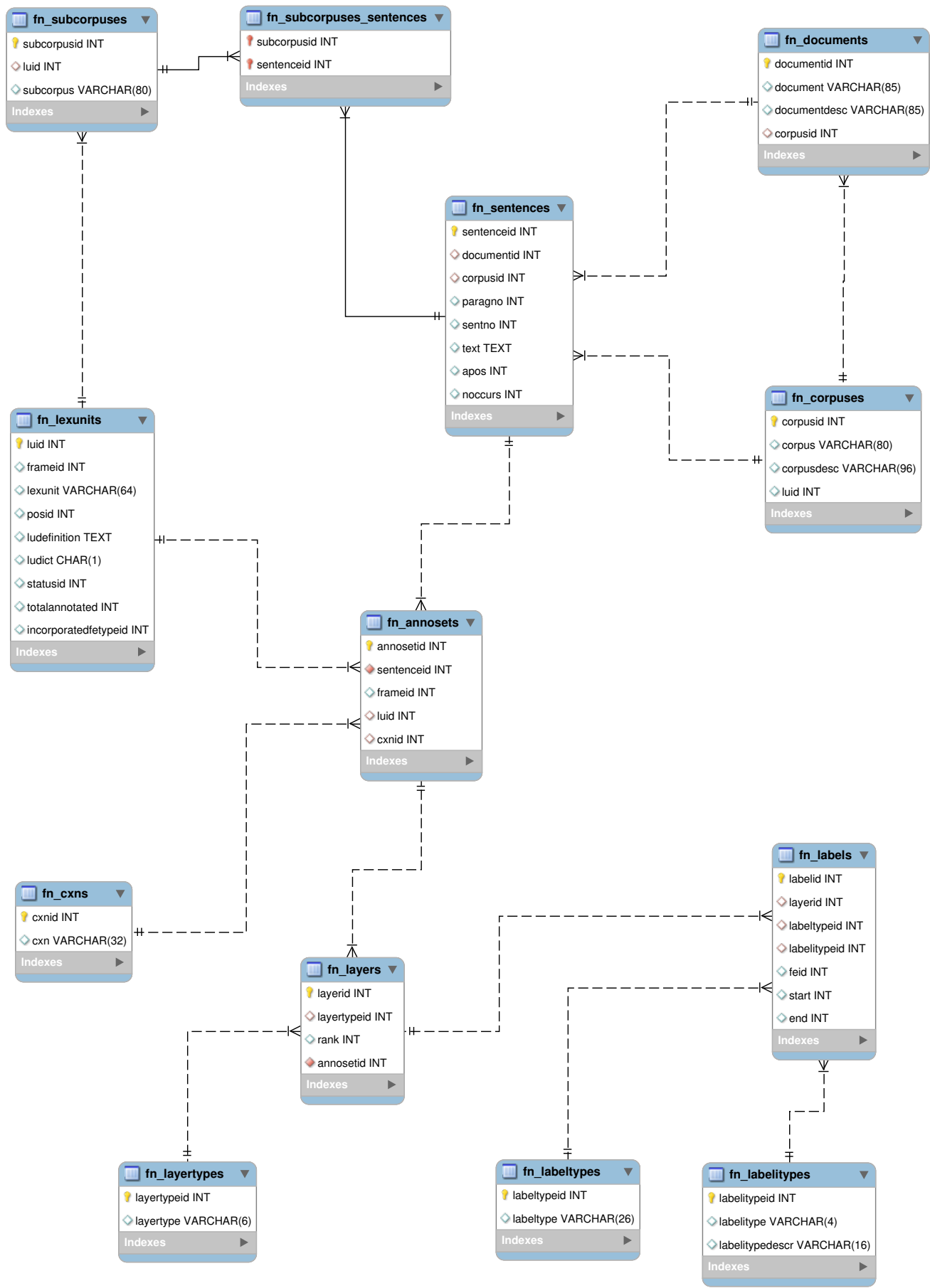
FrameNet (realizations)



FrameNet (realizations)



FrameNet (annosets)



FrameNet (full text)

