WordNet (basic)

word lookup

```
SELECT word,posid,sensenum,synsetid,SUBSTRING(definition FROM 1 FOR 64) FROM words LEFT JOIN senses USING (wordid) LEFT JOIN synsets USING (synsetid)
WHERE word = 'option' ORDER BY posid,sensenum
```

word	posid	sensenum	synsetid	SUBSTRING(definition FROM 1 FOR 64)
option	n	1	106273	the right to buy or sell property at an agreed price; the right
option	n	2	67349	one of a number of things from which only one can be chosen
option	n	3	3401	the act of choosing or selecting

```
SELECT word,posid,sensenum,synsetid,SUBSTRING(definition FROM 1 FOR 64) FROM words LEFT JOIN senses USING (wordid) LEFT JOIN synsets USING (synsetid)
WHERE word = 'want' ORDER BY posid,sensenum
```

word	posid	sensenum	synsetid	SUBSTRING(definition FROM 1 FOR 64)
want	n	1	113218	a state of extreme poverty
want	n	2	112991	the state of needing something that is absent or unavailable
want	n	3	85925	anything that is necessary but lacking
want	n	4	76139	a specific feeling of desire
want	v	1	32094	feel or have a desire for; want strongly
want	v	2	21987	have need of
want	v	3	24008	hunt or look for; want for a particular reason
want	v	4	14650	wish or demand the presence of
want	v	5	45379	be without, lack; be deficient in

```
SELECT word,posid,sensenum,synsetid,SUBSTRING(definition FROM 1 FOR 64) FROM words LEFT JOIN senses USING (wordid) LEFT JOIN synsets USING (synsetid)
WHERE word = 'like' AND posid = 'v' ORDER BY posid,sensenum
```

word	posid	sensenum	synsetid	SUBSTRING(definition FROM 1 FOR 64)
like	v	1	32087	to hope, to desire or to prefer to have something, or to do some
like	v	2	31301	find enjoyable or agreeable
like	v	3	31296	be fond of
like	v	4	14394	feel about or towards; consider, evaluate, or regard
like	v	5	32104	want to have

```
SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM words LEFT JOIN senses USING (wordid) LEFT JOIN synsets USING (synsetid) WHERE
```

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
fear	n	1	an emotion experienced in anticipation of some specific pain or
fear	n	2	an anxious feeling
fear	n	3	a feeling of profound respect for someone or something
fear	v	1	be afraid or feel anxious or apprehensive about a possible or pr
fear	v	2	be afraid or scared of; be frightened of
fear	v	3	be sorry; used to introduce an unpleasant statement
fear	v	4	be uneasy or apprehensive about
fear	v	5	regard with feelings of respect and reverence; consider hallowed
fearful	a	1	lacking courage; ignobly timid and faint-hearted
fearful	s	1	experiencing or showing fear
fearful	s	2	causing fear or dread or terror
fearful	s	3	extremely distressing
fearful	s	4	timid by nature or revealing timidity
fearfully	r	1	in fear
fearfully	r	2	in an alarming manner
fearfulness	n	1	an emotion experienced in anticipation of some specific pain or
fearfulness	n	2	the trait of being afraid
fearless	a	1	oblivious of dangers or perils or calmly resolute in facing them
fearless	s	1	invulnerable to fear or intimidation
fearlessly	r	1	without fear
fearlessness	n	1	feeling no fear
fearlessness	n	2	the trait of feeling no fear
fearsome	s	1	causing fear or dread or terror
fearsomely	r	1	in a fearsome manner

ending with "wards"

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
afterwards	r	1	happening at a time subsequent to a reference time
backwards	r	1	at or to or toward the back or rear
backwards	r	2	in a manner or order or direction the reverse of normal
bend over backwards	v	1	try very hard to please someone
downwards	r	1	spatially or metaphorically from a higher to a lower level or po
eastwards	r	1	toward the east
edwards	n	1	American theologian whose sermons and writings stimulated a peri
fall over backwards	v	1	try very hard to please someone
forwards	r	1	at or to or toward the front; forward
forwards	r	2	in a forward direction
frontwards	r	1	at or to or toward the front; forward

heavenwards	r	1	toward heaven
homewards	r	1	toward home
inwards	r	1	to or toward the inside of
inwards	r	2	toward the center or interior
jonathan edwards	n	1	American theologian whose sermons and writings stimulated a peri
landwards	r	1	toward land
northwards	r	1	in a northern direction
onwards	r	1	in a forward direction
outwards	r	1	toward the outside
rearwards	r	1	at or to or toward the back or rear
seawards	r	1	in the direction of the sea
sidewards	r	1	toward one side
skywards	r	1	toward the sky
soar upwards	v	1	rise rapidly
southwards	r	1	toward the south
spacewards	r	1	towards outer space
upwards	r	1	spatially or metaphorically from a lower to a higher position
upwards	r	2	to a later time
westwards	r	1	toward the west

containing "ipod"

```
SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM words LEFT JOIN senses USING (wordid) LEFT JOIN synsets USING (synsetid) WHERE word LIKE '%ipod%' ORDER BY word,posid,sensenum
```

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
amphipod	n	1	a kind of malacostracan crustacean
amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-
antipodal	n	1	the relation of opposition along a diameter
antipodal	a	1	relating to the antipodes or situated at opposite sides of the e
antipodal opposition	n	1	the relation of opposition along a diameter
antipode	n	1	direct opposite
antipodean	a	1	relating to the antipodes or situated at opposite sides of the e
antipodes	n	1	any two places or regions on diametrically opposite sides of the
camera tripod	n	1	a tripod used to support a camera
dipodidae	n	1	Old World jerboas
dipodomys	n	1	kangaroo rats
dipodomys ordi	n	1	most widely distributed kangaroo rat: plains and mountain areas
dipodomys phillipsii	n	1	any of various leaping rodents of desert regions of North Americ
family dipodidae	n	1	Old World jerboas
genus dipodomys	n	1	kangaroo rats
genus microdipodops	n	1	kangaroo mice
hemipode	n	1	small quail-like terrestrial bird of southern Eurasia and northe
ipod	n	1	(trademark) a pocket-sized device used to play music files
microdipodops	n	1	kangaroo mice

order amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-	
tripod	n	1	a three-legged rack used for support	
video ipod	n	1	(trademark) an iPod that can also play video files	

synset members

synset members

```
SELECT synsetid,posid,GROUP_CONCAT(word),SUBSTRING(definition FROM 1 FOR 60) FROM synsets LEFT JOIN senses USING (synsetid) LEFT JOIN words AS w
USING (wordid) WHERE synsetid IN (1,2,3,4,5) GROUP BY synsetid
```

synsetid	posid	GROUP_CONCAT(word)	SUBSTRING(definition FROM 1 FOR 60)
1	a	able	(usually followed by `to') having the necessary means or ski
2	n	entity	that which is perceived or known or inferred to have its own
3	r	a capella,a cappella	without musical accompaniment
4	v	breathe,respire,suspire,take a breath	draw air into, and expel out of, the lungs
5	r	a.d.,ad,anno domini	in the Christian era; used before dates after the supposed y

members of synsets "want" belongs to

```
SELECT y.synsetid,y.posid,GROUP_CONCAT(sw2.word),SUBSTRING(definition FROM 1 FOR 60) FROM words AS sw LEFT JOIN senses AS s USING (wordid) LEFT JOIN
synsets AS y USING (synsetid) LEFT JOIN senses AS s2 ON (y.synsetid = s2.synsetid) LEFT JOIN words AS sw2 ON (sw2.wordid = s2.wordid) WHERE sw.word = 'want'
GROUP BY synsetid
```

synsetid	posid	GROUP_CONCAT(sw2.word)	SUBSTRING(definition FROM 1 FOR 60)
14650	v	want	wish or demand the presence of
21987	v	want,require,need	have need of
24008	v	want	hunt or look for; want for a particular reason
32094	v	want,desire	feel or have a desire for; want strongly
45379	v	want	be without, lack; be deficient in
76139	n	wish,wishing,want	a specific feeling of desire
85925	n	want,need	anything that is necessary but lacking
112991	n	deficiency,lack,want	the state of needing something that is absent or unavailable
113218	n	want,privation,neediness,deprivation	a state of extreme poverty

synonyms

synonyms for "want"

```
SELECT y.synsetid,y.posid,GROUP_CONCAT(sw2.word),SUBSTRING(definition FROM 1 FOR 60) FROM words AS sw LEFT JOIN senses AS s USING (wordid) LEFT JOIN
synsets AS y USING (synsetid) LEFT JOIN senses AS s2 ON (y.synsetid = s2.synsetid) LEFT JOIN words AS sw2 ON (sw2.wordid = s2.wordid) WHERE sw.word = 'want'
AND sw.wordid <> sw2.wordid GROUP BY synsetid
```

synsetid	posid	GROUP_CONCAT(sw2.word)	SUBSTRING(definition FROM 1 FOR 60)
21987	v	need,require	have need of
32094	v	desire	feel or have a desire for; want strongly
76139	n	wish,wishing	a specific feeling of desire

85925	n	need	anything that is necessary but lacking
112991	n	deficiency,lack	the state of needing something that is absent or unavailable
113218	n	deprivation,neediness,privation	a state of extreme poverty

semantical relations

get words semantically-related to "horse"

```
SELECT s.sensenum,sw.word,relation,dw.word AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM synsets_synsets AS l LEFT JOIN senses AS s ON
(l.synset1id = s.synsetid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN senses AS d ON
(l.synset2id = d.synsetid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE sw.word = 'horse' ORDER BY
relationid,s.sensenum
```

sensenum	word	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	horse	hypernym	supply	provide with a horse or horses
1	horse	hypernym	provide	provide with a horse or horses
1	horse	hypernym	ply	provide with a horse or horses
1	horse	hypernym	equid	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hypernym	equine	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hypernym	cater	provide with a horse or horses
2	horse	hypernym	gymnastic apparatus	a padded gymnastic apparatus on legs
2	horse	hypernym	exerciser	a padded gymnastic apparatus on legs
3	horse	hypernym	troops	troops trained to fight on horseback
3	horse	hypernym	soldiery	troops trained to fight on horseback
3	horse	hypernym	military personnel	troops trained to fight on horseback
4	horse	hypernym	framework	a framework for holding wood that is being sawed
4	horse	hypernym	frame	a framework for holding wood that is being sawed
5	horse	hypernym	chess piece	a chessman shaped to resemble the head of a horse; can move
5	horse	hypernym	chessman	a chessman shaped to resemble the head of a horse; can move
1	horse	hyponym	workhorse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	post-horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	poster	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	post horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	racehorse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	harness horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stalking-horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	steeplechaser	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	high stepper	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pacer	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stepper	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	chestnut	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	liver chestnut	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	bay	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	sorrel	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	palomino	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pinto	

				solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	remount	provide with a horse or horses
1	horse	hyponym	bangtail	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	dawn horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	eohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mesohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	protohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	male horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	gee-gee	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stablemate	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stable companion	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	roan	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	female horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mare	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mount	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	saddle horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	polo pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	riding horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	race horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	wild horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	hack	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	hack	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	jade	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	plug	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	nag	solid-hoofed herbivorous quadruped domesticated since prehis
2	horse	hyponym	side horse	a padded gymnastic apparatus on legs
2	horse	hyponym	pommel horse	a padded gymnastic apparatus on legs
2	horse	hyponym	buck	a padded gymnastic apparatus on legs
2	horse	hyponym	long horse	a padded gymnastic apparatus on legs
2	horse	hyponym	vaulting horse	a padded gymnastic apparatus on legs
4	horse	hyponym	trestle	a framework for holding wood that is being sawed
1	horse	part meronym	horseback	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	horse's foot	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	horseflesh	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	encolure	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	withers	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	gaskin	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	poll	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	part meronym	horsemeat	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	member holonym	genus equus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	member holonym	equus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	member meronym	foal	solid-hoofed herbivorous quadruped domesticated since prehis

3	horse	member meronym	cavalryman	troops trained to fight on horseback
3	horse	member meronym	trooper	troops trained to fight on horseback
3	horse	domain topic	military machine	troops trained to fight on horseback
3	horse	domain topic	war machine	troops trained to fight on horseback
3	horse	domain topic	military	troops trained to fight on horseback
3	horse	domain topic	armed services	troops trained to fight on horseback
3	horse	domain topic	armed forces	troops trained to fight on horseback
5	horse	domain topic	chess	a chessman shaped to resemble the head of a horse; can move
5	horse	domain topic	chess game	a chessman shaped to resemble the head of a horse; can move

get hypernyms for "horse"

```
SELECT s.sensenum,sw.word,relation,dw.word AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM synsets_synsets AS l LEFT JOIN senses AS s ON (l.synset1id = s.synsetid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN senses AS d ON (l.synset2id = d.synsetid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE sw.word = 'horse' AND relationid=1 AND sy.posid='n' ORDER BY relationid,s.sensenum
```

sensenum	word	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	horse	hypernym	equid	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hypernym	equine	solid-hoofed herbivorous quadruped domesticated since prehis
2	horse	hypernym	exerciser	a padded gymnastic apparatus on legs
2	horse	hypernym	gymnastic apparatus	a padded gymnastic apparatus on legs
3	horse	hypernym	military personnel	troops trained to fight on horseback
3	horse	hypernym	soldiery	troops trained to fight on horseback
3	horse	hypernym	troops	troops trained to fight on horseback
4	horse	hypernym	frame	a framework for holding wood that is being sawed
4	horse	hypernym	framework	a framework for holding wood that is being sawed
5	horse	hypernym	chess piece	a chessman shaped to resemble the head of a horse; can move
5	horse	hypernym	chessman	a chessman shaped to resemble the head of a horse; can move

get hyponyms for "horse"

```
SELECT s.sensenum,sw.word,relation,dw.word AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM synsets_synsets AS l LEFT JOIN senses AS s ON (l.synset1id = s.synsetid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN senses AS d ON (l.synset2id = d.synsetid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE sw.word = 'horse' AND relationid=2 AND sy.posid='n' ORDER BY relationid,s.sensenum
```

sensenum	word	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	horse	hyponym	roan	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stable companion	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stablemate	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	gee-gee	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	dawn horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	eohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mesohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	protohippus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	male horse	solid-hoofed herbivorous quadruped domesticated since prehis

1	horse	hyponym	female horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mare	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	mount	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	riding horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	saddle horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	polo pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	wild horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	hack	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	hack	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	jade	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	nag	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	plug	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pony	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	bangtail	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	race horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	racehorse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	steeplechaser	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stalking-horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	harness horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	workhorse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	post-horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	post horse	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	poster	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pacer	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	high stepper	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	stepper	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	chestnut	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	liver chestnut	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	bay	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	sorrel	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	palomino	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	hyponym	pinto	solid-hoofed herbivorous quadruped domesticated since prehis
2	horse	hyponym	pommel horse	a padded gymnastic apparatus on legs
2	horse	hyponym	side horse	a padded gymnastic apparatus on legs
2	horse	hyponym	buck	a padded gymnastic apparatus on legs
2	horse	hyponym	long horse	a padded gymnastic apparatus on legs
2	horse	hyponym	vaulting horse	a padded gymnastic apparatus on legs
4	horse	hyponym	trestle	a framework for holding wood that is being sawed

get words semantically-related to "horse" grouped by type

SELECT s.sensenum,sw.word,relation,GROUP_CONCAT(dw.word) AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM synsets_synsets AS l LEFT JOIN

senses AS s ON (l.synset1id = s.synsetid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN senses AS d ON (l.synset2id = d.synsetid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE sw.word = 'horse' GROUP BY relationid, relation, s.sensenum, sw.word, definition ORDER BY relationid,s.sensenum

sensenum	word	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	horse	hypernym	supply,provide,ply,cater	provide with a horse or horses
1	horse	hypernym	equid,equine	solid-hoofed herbivorous quadruped domesticated since prehis
2	horse	hypernym	gymnastic apparatus,exerciser	a padded gymnastic apparatus on legs
3	horse	hypernym	troops,soldiery,military personnel	troops trained to fight on horseback
4	horse	hypernym	framework,frame	a framework for holding wood that is being sawed
5	horse	hypernym	chess piece,chessman	a chessman shaped to resemble the head of a horse; can move
1	horse	hyponym	remount	provide with a horse or horses
1	horse	hyponym	pacer,racehorse,steeplechaser,stalking-horse,harness horse,workhorse,post-horse,post horse,poster,high stepper,stepper,chestnut,liver chestnut,bay,sorrel,palomino,pinto,bangtail,dawn horse,eohippus,mesohippus,protohippus,male horse,gee-gee,stablemate,stable companion,roan,female horse,mare,mount,saddle horse,pony,polo pony,riding horse,race horse,wild horse,hack,hack,pony,jade,plug,nag	solid-hoofed herbivorous quadruped domesticated since prehis
2	horse	hyponym	side horse,pommel horse,buck,long horse,vaulting horse	a padded gymnastic apparatus on legs
4	horse	hyponym	trestle	a framework for holding wood that is being sawed
1	horse	part meronym	horseback,horse's foot,horseflesh,encolure,withers,gaskin,poll,horsemeat	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	member holonym	genus equus,equus	solid-hoofed herbivorous quadruped domesticated since prehis
1	horse	member meronym	foal	solid-hoofed herbivorous quadruped domesticated since prehis
3	horse	member meronym	cavalryman,trooper	troops trained to fight on horseback
3	horse	domain topic	military machine,war machine,military,armed services,armed forces	troops trained to fight on horseback
5	horse	domain topic	chess,chess game	a chessman shaped to resemble the head of a horse; can move

lexical relations

get words lexically-related to "black"

```
SELECT s.sensenum,sw.word,sy.posid,relation,dw.word AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM senses_senses AS l LEFT JOIN senses AS s ON
(l.synset1id = s.synsetid AND l.word1id = s.wordid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN
senses AS d ON (l.synset2id = d.synsetid AND l.word2id = d.wordid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE
sw.word = 'black' ORDER BY relationid,sy.posid,s.sensenum
```

sensenum	word	posid	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	black	n	antonym	white	the quality or state of the achromatic color of least lightn
3	black	n	antonym	white	(board games) the darker pieces
1	black	a	antonym	white	being of the achromatic color of maximum darkness; having li
2	black	a	antonym	white	of or belonging to a racial group especially of sub-Saharan
1	black	n	derivation	black	the quality or state of the achromatic color of least lightn
1	black	v	derivation	black	make or become black
1	black	a	derivation	blackness	being of the achromatic color of maximum darkness; having li
6	black	s	derivation	blackness	extremely dark
11	black	s	derivation	blackness	(of coffee) without cream or sugar
12	black	s	derivation	blackness	soiled with dirt or soot

get antonym to adjective "black"

```
SELECT s.sensenum,sw.word,sy.posid,relation,dw.word AS relatedlemma,SUBSTRING(definition FROM 1 FOR 60) FROM senses_senses AS l LEFT JOIN senses AS s ON
(l.synset1id = s.synsetid AND l.word1id = s.wordid) LEFT JOIN words AS sw ON s.wordid = sw.wordid LEFT JOIN synsets AS sy ON (l.synset1id = sy.synsetid) LEFT JOIN
senses AS d ON (l.synset2id = d.synsetid AND l.word2id = d.wordid) LEFT JOIN words AS dw ON d.wordid = dw.wordid LEFT JOIN relations USING (relationid) WHERE
sw.word = 'black' AND relationid=30 AND sy.posid='a' ORDER BY relationid,s.sensenum
```

sensenum	word	posid	relation	relatedlemma	SUBSTRING(definition FROM 1 FOR 60)
1	black	a	antonym	white	being of the achromatic color of maximum darkness; having li
2	black	a	antonym	white	of or belonging to a racial group especially of sub-Saharan

WordNet (dictionary-like, with views)

dictionary

"want" entry

```
SELECT word,posid,sensenum,synsetid,SUBSTRING(definition FROM 1 FOR 64),SUBSTRING(sampleset FROM 1 FOR 50) FROM dict WHERE word = 'want' ORDER BY
posid,sensenum
```

word	posid	sensenum	synsetid	SUBSTRING(definition FROM 1 FOR 64)	SUBSTRING(sampleset FROM 1 FOR 50)
want	n	1	113218	a state of extreme poverty	
want	n	2	112991	the state of needing something that is absent or unavailable	there is a serious lack of insight into the proble
want	n	3	85925	anything that is necessary but lacking	he had sufficient means to meet his simple needs|I
want	n	4	76139	a specific feeling of desire	he got his wish|he was above all wishing and desir
want	v	1	32094	feel or have a desire for; want strongly	I want to go home now|I want my own room
want	v	2	21987	have need of	This piano wants the attention of a competent tune
want	v	3	24008	hunt or look for; want for a particular reason	Your former neighbor is wanted by the FBI|Uncle Sa

| want | v | 4 | 14650 | wish or demand the presence of | I want you here at noon! |
| want | v | 5 | 45379 | be without, lack; be deficient in | want courtesy\|want the strength to go on living\|fl |

"like" verb entry

SELECT word,posid,sensenum,synsetid,SUBSTRING(definition FROM 1 FOR 64),SUBSTRING(sampleset FROM 1 FOR 50) FROM dict WHERE word = 'like' AND posid = 'v' ORDER BY posid,sensenum

word	posid	sensenum	synsetid	SUBSTRING(definition FROM 1 FOR 64)	SUBSTRING(sampleset FROM 1 FOR 50)
like	v	1	32087	to hope, to desire or to prefer to have something, or to do some	Do you care to try this dish?|Would you like to co
like	v	2	31301	find enjoyable or agreeable	I like jogging|She likes to read Russian novels
like	v	3	31296	be fond of	I like my nephews
like	v	4	14394	feel about or towards; consider, evaluate, or regard	How did you like the President's speech last night
like	v	5	32104	want to have	I'd like a beer now!

"want" as verb entry

SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64),SUBSTRING(sampleset FROM 1 FOR 50) FROM dict WHERE word = 'want' AND posid = 'v' ORDER BY posid,sensenum

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)	SUBSTRING(sampleset FROM 1 FOR 50)
want	v	1	feel or have a desire for; want strongly	I want to go home now|I want my own room
want	v	2	have need of	This piano wants the attention of a competent tune
want	v	3	hunt or look for; want for a particular reason	Your former neighbor is wanted by the FBI|Uncle Sa
want	v	4	wish or demand the presence of	I want you here at noon!
want	v	5	be without, lack; be deficient in	want courtesy|want the strength to go on living|fl

"want" as noun with tag information

SELECT word,posid,sensenum,tagcount,SUBSTRING(definition FROM 1 FOR 64) FROM dict WHERE word = 'want' ORDER BY posid,sensenum

word	posid	sensenum	tagcount	SUBSTRING(definition FROM 1 FOR 64)
want	n	1	3	a state of extreme poverty
want	n	2	1	the state of needing something that is absent or unavailable
want	n	3	1	anything that is necessary but lacking
want	n	4	1	a specific feeling of desire
want	v	1	389	feel or have a desire for; want strongly
want	v	2	15	have need of
want	v	3	3	hunt or look for; want for a particular reason
want	v	4	2	wish or demand the presence of
want	v	5		be without, lack; be deficient in

starting with "fear"

SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM dict WHERE word LIKE 'fear%' ORDER BY word,posid,sensenum

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
fear	n	1	an emotion experienced in anticipation of some specific pain or
fear	n	2	an anxious feeling
fear	n	3	a feeling of profound respect for someone or something
fear	v	1	be afraid or feel anxious or apprehensive about a possible or pr
fear	v	2	be afraid or scared of; be frightened of
fear	v	3	be sorry; used to introduce an unpleasant statement
fear	v	4	be uneasy or apprehensive about
fear	v	5	regard with feelings of respect and reverence; consider hallowed
fearful	a	1	lacking courage; ignobly timid and faint-hearted
fearful	s	1	experiencing or showing fear
fearful	s	2	causing fear or dread or terror
fearful	s	3	extremely distressing
fearful	s	4	timid by nature or revealing timidity
fearfully	r	1	in fear
fearfully	r	2	in an alarming manner
fearfulness	n	1	an emotion experienced in anticipation of some specific pain or
fearfulness	n	2	the trait of being afraid
fearless	a	1	oblivious of dangers or perils or calmly resolute in facing them
fearless	s	1	invulnerable to fear or intimidation
fearlessly	r	1	without fear
fearlessness	n	1	feeling no fear
fearlessness	n	2	the trait of feeling no fear
fearsome	s	1	causing fear or dread or terror
fearsomely	r	1	in a fearsome manner

ending with "wards"

SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM dict WHERE word LIKE '%wards' ORDER BY word,posid,sensenum

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
afterwards	r	1	happening at a time subsequent to a reference time
backwards	r	1	at or to or toward the back or rear
backwards	r	2	in a manner or order or direction the reverse of normal
bend over backwards	v	1	try very hard to please someone
downwards	r	1	spatially or metaphorically from a higher to a lower level or po
eastwards	r	1	toward the east
edwards	n	1	American theologian whose sermons and writings stimulated a peri
fall over backwards	v	1	try very hard to please someone
forwards	r	1	at or to or toward the front; forward
forwards	r	2	in a forward direction
frontwards	r	1	at or to or toward the front; forward
heavenwards	r	1	toward heaven
homewards	r	1	toward home

inwards	r	1	to or toward the inside of
inwards	r	2	toward the center or interior
jonathan edwards	n	1	American theologian whose sermons and writings stimulated a peri
landwards	r	1	toward land
northwards	r	1	in a northern direction
onwards	r	1	in a forward direction
outwards	r	1	toward the outside
rearwards	r	1	at or to or toward the back or rear
seawards	r	1	in the direction of the sea
sidewards	r	1	toward one side
skywards	r	1	toward the sky
soar upwards	v	1	rise rapidly
southwards	r	1	toward the south
spacewards	r	1	towards outer space
upwards	r	1	spatially or metaphorically from a lower to a higher position
upwards	r	2	to a later time
westwards	r	1	toward the west

containing "ipod"

SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM dict WHERE word LIKE '%ipod%' ORDER BY word,posid,sensenum

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
amphipod	n	1	a kind of malacostracan crustacean
amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-
antipodal	n	1	the relation of opposition along a diameter
antipodal	a	1	relating to the antipodes or situated at opposite sides of the e
antipodal opposition	n	1	the relation of opposition along a diameter
antipode	n	1	direct opposite
antipodean	a	1	relating to the antipodes or situated at opposite sides of the e
antipodes	n	1	any two places or regions on diametrically opposite sides of the
camera tripod	n	1	a tripod used to support a camera
dipodidae	n	1	Old World jerboas
dipodomys	n	1	kangaroo rats
dipodomys ordi	n	1	most widely distributed kangaroo rat: plains and mountain areas
dipodomys phillipsii	n	1	any of various leaping rodents of desert regions of North Americ
family dipodidae	n	1	Old World jerboas
genus dipodomys	n	1	kangaroo rats
genus microdipodops	n	1	kangaroo mice
hemipode	n	1	small quail-like terrestrial bird of southern Eurasia and northe
ipod	n	1	(trademark) a pocket-sized device used to play music files
microdipodops	n	1	kangaroo mice
order amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-
tripod	n	1	a three-legged rack used for support
video ipod	n	1	(trademark) an iPod that can also play video files

starting with "rhino", ending with "s"

SELECT word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM dict WHERE word LIKE 'rhino%s' ORDER BY word,posid,sensenum

word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
rhinoceros	n	1	massive powerful herbivorous odd-toed ungulate of southeast Asia
rhinoceros antiquitatis	n	1	extinct thick-haired species of Arctic regions
rhinoceros unicornis	n	1	having one horn
rhinonicteris	n	1	orange horseshoe bats
rhinonicteris aurantius	n	1	a common bat of northwestern Australia having orange or yellow f
rhinoptera bonasus	n	1	large ray found along eastern coast of North America
rhinosporidiosis	n	1	fungal infection of the nose; often acquired while swimming
rhinostenosis	n	1	narrowing of the passages in the nasal cavities
rhinotracheitis	n	1	a respiratory infection of the nose and throat in cattle
rhinovirus	n	1	any of a group of picornaviruses that are responsible for many u

with lexical domain

SELECT domainname,word,posid,sensenum,SUBSTRING(definition FROM 1 FOR 64) FROM dict INNER JOIN domains USING(domainid,posid) WHERE word LIKE '%ipod%' ORDER BY domainid,word,posid,sensenum

domainname	word	posid	sensenum	SUBSTRING(definition FROM 1 FOR 64)
adj.pert	antipodal	a	1	relating to the antipodes or situated at opposite sides of the e
adj.pert	antipodean	a	1	relating to the antipodes or situated at opposite sides of the e
noun.animal	amphipod	n	1	a kind of malacostracan crustacean
noun.animal	amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-
noun.animal	dipodidae	n	1	Old World jerboas
noun.animal	dipodomys	n	1	kangaroo rats
noun.animal	dipodomys ordi	n	1	most widely distributed kangaroo rat: plains and mountain areas
noun.animal	dipodomys phillipsii	n	1	any of various leaping rodents of desert regions of North Americ
noun.animal	family dipodidae	n	1	Old World jerboas
noun.animal	genus dipodomys	n	1	kangaroo rats
noun.animal	genus microdipodops	n	1	kangaroo mice
noun.animal	hemipode	n	1	small quail-like terrestrial bird of southern Eurasia and northe
noun.animal	microdipodops	n	1	kangaroo mice
noun.animal	order amphipoda	n	1	small flat-bodied semiterrestrial crustaceans: whale lice; sand-
noun.artifact	camera tripod	n	1	a tripod used to support a camera
noun.artifact	ipod	n	1	(trademark) a pocket-sized device used to play music files
noun.artifact	tripod	n	1	a three-legged rack used for support
noun.artifact	video ipod	n	1	(trademark) an iPod that can also play video files
noun.location	antipodes	n	1	any two places or regions on diametrically opposite sides of the
noun.relation	antipodal	n	1	the relation of opposition along a diameter
noun.relation	antipodal opposition	n	1	the relation of opposition along a diameter
noun.relation	antipode	n	1	direct opposite

matching definition

SELECT SUBSTRING(definition FROM 1 FOR 64) FROM synsets WHERE posid= 'n' AND definition LIKE '(trademark)%' LIMIT 20

SUBSTRING(definition FROM 1 FOR 64)
(trademark) a guide dog trained to guide a blind person
(trademark) a pocket-sized device used to play music files
(trademark) an iPod that can also play video files
(trademark) a child's plastic construction set for making mechan
(trademark) an in-line skate
(trademark) a desktop rotary card index with removable cards; us
(trademark) a self-balancing personal transportation device with
(trademark) a pocket-sized stereo system with light weight earph
(trademark) a hollow plastic ball with cutouts
(trademark) an operating system with a graphical user interface
(trademark) a sweet aromatic French wine (red or white) used chi
(trademark) a liquid that temporarily disables a person; prepare
(trademark) a microscopic and traceable identification particle

synset members

SELECT synsetid,posid,GROUP_CONCAT(word),SUBSTRING(definition FROM 1 FOR 60) FROM dict WHERE synsetid IN (1,2,3,4,5) GROUP BY synsetid

synsetid	posid	GROUP_CONCAT(word)	SUBSTRING(definition FROM 1 FOR 60)
1	a	able	(usually followed by `to') having the necessary means or ski
2	n	entity	that which is perceived or known or inferred to have its own
3	r	a capella,a cappella	without musical accompaniment
4	v	breathe,respire,suspire,take a breath	draw air into, and expel out of, the lungs
5	r	a.d.,ad,anno domini	in the Christian era; used before dates after the supposed y

synset members

SELECT synsetid,posid,GROUP_CONCAT(word),SUBSTRING(definition FROM 1 FOR 60) FROM dict WHERE synsetid IN (SELECT synsetid FROM synsets INNER JOIN senses USING (synsetid) INNER JOIN words USING(wordid) WHERE word='spread') GROUP BY synsetid

synsetid	posid	GROUP_CONCAT(word)	SUBSTRING(definition FROM 1 FOR 60)
8133	n	spreading,spread	act of extending over a wider scope or expanse of space or t
12018	s	spread,dispersed	distributed or spread over a considerable extent
18515	v	disperse,spread,propagate,pass around,distribute,disseminate,diffuse,circulate,circularize,circularise,broadcast	cause to become widely known
18534	v	spread,go around,circulate	become widely known and passed on
24981	v	spread,distribute	distribute or disperse widely
25004	v	spread,propagate	become distributed or widespread
25854	s	spread,outspread	fully extended in width
28166	v	unfold,spread out,spread,open	spread out or open from a closed or folded state
28704	v	spread	distribute over a surface in a layer
28707	v	spread	cover by spreading something over

32438	s	spread	prepared or arranged for a meal; especially having food set
35869	v	diffuse,fan out,spread,spread out	move outward
36220	v	scatter,spread,spread out	strew or distribute over an area
46357	v	overspread,spread	spread across or over
48467	n	bed cover,bed covering,bedcover,bedspread,counterpane,spread	decorative cover for a bed
57986	n	spread,cattle farm,cattle ranch,ranch	farm consisting of a large tract of land along with faciliti
62035	n	gap,spread	a conspicuous disparity or difference as between two figures
63767	n	spread,scatter	a haphazard distribution in all directions
63839	n	spread	the expansion of a person's girth (especially at middle age)
69434	n	spread,spread head,spreadhead,facing pages	two facing pages of a book or other publication
75897	n	spread,spreading	process or result of distributing or extending over a wide e
76648	n	banquet,feast,spread	a meal that is well prepared and greatly enjoyed
78539	n	paste,spread	a tasty mixture to be spread on bread or crackers or used in

WordNet (cased forms)

cased forms

```
SELECT * FROM words WHERE word='neolithic'
```

wordid	word
92121	neolithic

```
SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE word='neolithic'
```

wordid	word	casedwordid	casedword
92121	neolithic	23326	Neolithic

```
SELECT * FROM words WHERE word='baroque'
```

wordid	word
12048	baroque

```
SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE word='baroque'
```

wordid	word	casedwordid	casedword
12048	baroque	3696	Baroque

```
SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE word='shakespeare'
```

wordid	word	casedwordid	casedword

| 122051 | shakespeare | 30522 | | Shakespeare |

SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE casedword='shaKEspeare'

SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE casedword='Shakespeare'

wordid	word	casedwordid	casedword
122051	shakespeare	30522	Shakespeare

SELECT * FROM words INNER JOIN casedwords USING (wordid) WHERE word='am'

wordid	word	casedwordid	casedword
4547	am	125	AM
4547	am	1345	Am

SELECT * FROM words LEFT JOIN casedwords USING (wordid) WHERE word='abolition'

wordid	word	casedwordid	casedword
640	abolition		

SELECT casedword,definition FROM senses INNER JOIN casedwords USING (wordid,casedwordid) INNER JOIN synsets USING (synsetid) WHERE casedword='Jackson'

casedword	definition
Jackson	capital of the state of Mississippi on the Pearl River
Jackson	a town in western Tennessee
Jackson	a town in south central Michigan
Jackson	a town in western Wyoming
Jackson	7th president of the US; successfully defended New Orleans from the British in 1815; expanded the power of the presidency (1767-1845)
Jackson	general in the Confederate Army during the American Civil War whose troops at the first Battle of Bull Run stood like a stone wall (1824-1863)
Jackson	United States writer of romantic novels about the unjust treatment of Native Americans (1830-1885)
Jackson	United States civil rights leader who led a national campaign against racial discrimination and ran for presidential nomination (born in 1941)
Jackson	United States singer who did much to popularize gospel music (1911-1972)
Jackson	United States singer who began singing with his four brothers and later became a highly successful star during the 1980s (born in 1958)
Jackson	English film actress who later became a member of British Parliament (born in 1936)

SELECT casedword,definition FROM senses INNER JOIN casedwords USING (wordid,casedwordid) INNER JOIN synsets USING (synsetid) WHERE casedword='C'

casedword	definition
C	street names for cocaine
C	the 3rd letter of the Roman alphabet
C	a general-purpose programing language closely associated with the UNIX operating system
C	(music) the keynote of the scale of C major
C	a unit of electrical charge equal to the amount of charge transferred by a current of 1 ampere in 1 second
C	ten 10s
C	a degree on the centigrade scale of temperature

C	an abundant nonmetallic tetravalent element occurring in three allotropic forms: amorphous carbon and graphite and diamond; occurs in all organic compounds
C	one of the four nucleotides used in building DNA, also known as also known as deoxycytidylate, or dCMP; all four nucleotides have a common phosphate group and a sugar (ribose)
C	a base found in DNA and RNA and derived from pyrimidine; pairs with guanine
C	a vitamin found in fresh fruits (especially citrus fruits) and vegetables; prevents scurvy

```
SELECT word,casedword,SUBSTRING(definition FROM 1 FOR 64) FROM senses INNER JOIN words USING (wordid) LEFT JOIN casedwords USING
(wordid,casedwordid) INNER JOIN synsets USING (synsetid) WHERE word='C'
```

word	casedword	SUBSTRING(definition FROM 1 FOR 64)
c	C	street names for cocaine
c	C	the 3rd letter of the Roman alphabet
c	C	a general-purpose programing language closely associated with th
c	C	(music) the keynote of the scale of C major
c		the 3rd letter of the Roman alphabet
c	C	a unit of electrical charge equal to the amount of charge transf
c	C	ten 10s
c	C	a degree on the centigrade scale of temperature
c	C	an abundant nonmetallic tetravalent element occurring in three a
c	C	one of the four nucleotides used in building DNA, also known as
c	C	a base found in DNA and RNA and derived from pyrimidine; pairs w
c	C	a vitamin found in fresh fruits (especially citrus fruits) and v
c		the speed at which light travels in a vacuum; the constancy and
c		being ten more than ninety

word having several casedword forms

```
SELECT wordid,COUNT(casedwordid) AS N,GROUP_CONCAT(casedword) FROM casedwords GROUP BY wordid HAVING N > 1 ORDER BY N DESC
```

wordid	N	GROUP_CONCAT(casedword)
89952	2	MT,Mt
104981	2	PM,Pm
100581	2	PB,Pb
98519	2	PA,Pa
97404	2	OS,Os
94753	2	OB,Ob
94320	2	NP,Np
91776	2	NE,Ne
91773	2	ND,Nd
91768	2	NB,Nb
90773	2	Mv,mV
105012	2	PO,Po
89942	2	MS,Ms
88361	2	MO,Mo
88351	2	MN,Mn
87316	2	MIDI,Midi

85462	2	MD,Md
85430	2	MB,Mb
84301	2	MArch,March
84197	2	MAO,Mao
82697	2	MA,mA
119938	2	SE,Se
151422	2	ZB,Zb
151262	2	Young Turk,young Turk
150927	2	YB,Yb
146724	2	WAC,Wac
139690	2	Trojan Horse,Trojan horse
134620	2	TC,Tc
134617	2	TB,Tb
126041	2	SoHo,Soho
125123	2	SM,Sm
123120	2	SI,Si
76938	2	LA,La
118859	2	SC,Sc
118855	2	SB,Sb
115505	2	RN,Rn
114634	2	RH,Rh
114631	2	RF,Rf
111417	2	RAM,Ram
110881	2	RA,Ra
109306	2	PU,Pu
106783	2	PR,Pr
10787	2	BA,Ba
28707	2	Common Era,Common era
27306	2	CO,Co
25443	2	Christian Church,Christian church
23586	2	CF,Cf
22886	2	CE,Ce
22870	2	CD,Cd
19639	2	CA,Ca
17250	2	BR,Br
15070	2	Black Maria,black Maria
12644	2	Battle of Verdun,battle of Verdun
34973	2	Db,dB
9930	2	AU,Au
8873	2	Ashcan School,Ashcan school
8708	2	AS,As
7458	2	AR,Ar
6131	2	Anno Domini,anno Domini
4547	2	AM,Am
3795	2	ALGOL,Algol

3313	2	AL,Al
899	2	AC,Ac
51370	2	FM,Fm
76734	2	KR,Kr
75587	2	KB,kB
72671	2	IR,Ir
69891	2	IN,In
65628	2	HF,Hf
59198	2	GI,Gi
54686	2	GD,Gd
54680	2	GB,Gb
53796	2	GA,Ga
421	2	AB,Ab
50538	2	FL,Fl
47053	2	Fall of Man,Fall of man
45264	2	EU,Eu
44587	2	ER,Er
41612	2	EB,Eb
40718	2	DS,Ds
39687	2	DOS,DoS
34982	2	DDI,ddI
34981	2	DDC,ddC

senses having a casedword form

`SELECT COUNT(*) FROM senses WHERE NOT ISNULL(casedwordid)`

COUNT(*)
45934

words having a casedword form

`SELECT COUNT(*) FROM words INNER JOIN casedwords USING (wordid)`

COUNT(*)
42724

WordNet (relations)

relations

all relations

`SELECT * FROM relations ORDER BY relationid`

relationid	relation	recurses

1	hypernym	1
2	hyponym	1
3	instance hypernym	1
4	instance hyponym	1
11	part holonym	1
12	part meronym	1
13	member holonym	1
14	member meronym	1
15	substance holonym	1
16	substance meronym	1
21	entails	1
22	is entailed by	1
23	causes	1
24	is caused by	1
30	antonym	0
40	similar	0
50	also	0
60	attribute	0
70	verb group	0
71	participle	0
80	pertainym	0
81	derivation	0
91	domain topic	0
92	domain member topic	0
93	domain region	0
94	domain member region	0
95	exemplifies	0
96	is exemplified by	0
97	domain	0
98	member	0
99	other	0

semantical relations

all semantic relations

```
SELECT relation, COUNT(*) FROM synsets_synsets LEFT JOIN relations USING(relationid) GROUP BY relationid ORDER BY relationid
```

relation	COUNT(*)
hypernym	91503
hyponym	91503
instance hypernym	8589
instance hyponym	8589
part holonym	9199

part meronym	9199
member holonym	12291
member meronym	12291
substance holonym	830
substance meronym	830
entails	408
is entailed by	408
causes	221
is caused by	221
similar	23192
also	2730
attribute	1278
domain topic	6716
domain member topic	6716
domain region	1353
domain member region	1353
exemplifies	975
is exemplified by	975

max synset relations per synset

```
SELECT synset1id, COUNT(*) AS c, definition FROM synsets_synsets LEFT JOIN synsets AS s ON (s.synsetid = synset1id) GROUP BY synset1id ORDER BY c DESC LIMIT 5
```

synset1id	c	definition
81910	671	a large and densely populated urban area; may include several independent administrative districts
81543	613	the collection of rules imposed by authority
83436	528	a monarchy in northwestern Europe occupying most of the British Isles; divided into England and Scotland and Wales and Northern Ireland; `Great Britain' is often used loosely to refer to the United Kingdom
121	420	a human being; person, singular, assertive existential pronoun; pronoun, person, singular; quantifier: assertive existential
2580	402	cause to change; make different; cause a transformation

available semantic relations for synset

```
SELECT sy1.synsetid,sy1.definition,relation,COUNT(relation) FROM synsets_synsets LEFT JOIN synsets AS sy1 ON (sy1.synsetid = synset1id) LEFT JOIN relations USING (relationid) WHERE sy1.synsetid = 6 GROUP BY relationid
```

synsetid	definition	relation	COUNT(relation)
6	an entity that has physical existence	hypernym	1
6	an entity that has physical existence	hyponym	6

semantic relations for "pull"'s synsets)

```
SELECT w1.word,sy1.definition,relation,GROUP_CONCAT(w2.word),sy2.definition FROM synsets_synsets LEFT JOIN synsets AS sy1 ON (sy1.synsetid = synset1id) LEFT JOIN senses AS s1 ON (sy1.synsetid = s1.synsetid) LEFT JOIN words AS w1 ON (s1.wordid = w1.wordid) LEFT JOIN synsets AS sy2 ON (sy2.synsetid = synset2id) LEFT JOIN senses AS s2 ON (sy2.synsetid = s2.synsetid) LEFT JOIN words AS w2 ON (s2.wordid = w2.wordid) LEFT JOIN relations USING(relationid) WHERE w1.word = 'pull'
```

	GROUP BY sy1.synsetid,w1.word,sy1.definition,relationid,relation,sy2.synsetid,sy2.synsetid,sy2.definition ORDER BY sy1.synsetid,relationid			
word	**definition**	**relation**	**GROUP_CONCAT(w2.word)**	**definition**
pull	strain abnormally	hypernym	injure,wound	cause injuries or bodily harm to
pull	the act of pulling; applying force to move something toward or with you	hypernym	actuation,propulsion	the act of propelling
pull	the act of pulling; applying force to move something toward or with you	hyponym	draw,haul,haulage	the act of drawing or hauling something
pull	the act of pulling; applying force to move something toward or with you	hyponym	drag	the act of dragging (pulling with force)
pull	the act of pulling; applying force to move something toward or with you	hyponym	traction	(orthopedics) the act of pulling on a bone or limb (as in a fracture) to relieve pressure or align parts in a special way during healing
pull	the act of pulling; applying force to move something toward or with you	hyponym	pluck	the act of pulling and releasing a taut cord
pull	the act of pulling; applying force to move something toward or with you	hyponym	deracination,excision,extirpation	the act of pulling up or out; uprooting; cutting off from existence
pull	the act of pulling; applying force to move something toward or with you	hyponym	draft,draught,drawing	the act of moving a load by drawing or pulling
pull	the act of pulling; applying force to move something toward or with you	hyponym	jerk,tug	a sudden abrupt pull
pull	take away	hypernym	remove,take,take away,withdraw	remove something concrete, as by lifting, pushing, or taking off, or remove something abstract
pull	take away	similar	draw,get out,pull,pull out,take out	bring, take, or pull out of a container or from under a cover
pull	a sustained effort	hypernym	effort,elbow grease,exertion,sweat,travail	use of physical or mental energy; hard work
pull	a slow inhalation (as of tobacco smoke)	hypernym	aspiration,breathing in,inhalation,inspiration,intake	the act of inhaling; the drawing in of air (or other gases) as in breathing
pull	a slow inhalation (as of tobacco smoke)	hyponym	toke	a puff of a marijuana or hashish cigarette
pull	a slow inhalation (as of tobacco smoke)	part holonym	smoke,smoking	the act of smoking tobacco or other substances
pull	take sides with; align oneself with; show strong sympathy for	hypernym	side	take sides for or against
pull	remove, usually with some force or effort; also used in an abstract sense	hypernym	remove,take,take away,withdraw	remove something concrete, as by lifting, pushing, or taking off, or remove something abstract
pull	remove, usually with some force or effort; also used in an abstract sense	hyponym	squeeze out,wring out	extract (liquid) by squeezing or pressing
pull	remove, usually with some force or effort; also used in an abstract sense	hyponym	demodulate	extract information from a modulated carrier wave
pull	remove, usually with some force or effort; also used in an abstract sense	hyponym	thread	remove facial hair by tying a fine string around it and pulling at the string
pull	remove, usually with some force or effort; also used in an abstract sense	similar	take out,pull out,draw,get out,pull	bring, take, or pull out of a container or from under a cover
pull	strip of feathers	hypernym	strip	remove the surface from
pull	hit in the direction that the player is facing when carrying through the swing	hypernym	hit	cause to move by striking
pull	hit in the direction that the player is facing when carrying through the swing	domain topic	ball,baseball,baseball game	a ball game played with a bat and ball between two teams of nine players; teams take turns at bat trying to score runs
				cause to move or shift into a new position or place, both in a

pull	cause to move by pulling	hypernym	displace,move	concrete and in an abstract sense
pull	cause to move by pulling	hyponym	tug	pull or strain hard at
pull	cause to move by pulling	hyponym	pick off,pluck,pull off,tweak	pull or pull out sharply
pull	cause to move by pulling	hyponym	winch	pull or lift up with or as if with a winch
pull	cause to move by pulling	hyponym	jerk,yank	pull, or move with a sudden movement
pull	cause to move by pulling	hyponym	attract,draw,draw in,pull,pull in	direct toward itself or oneself by means of some psychological power or physical attributes
pull	cause to move by pulling	hyponym	cart,drag,hale,haul	draw slowly or heavily
pull	cause to move by pulling	hyponym	drag	pull, as against a resistance
pull	cause to move by pulling	hyponym	pick,pluck,plunk	pull lightly but sharply with a plucking motion
pull	cause to move by pulling	hyponym	stretch	pull in opposite directions
pull	cause to move by pulling	hyponym	abduct	pull away from the body
pull	cause to move by pulling	hyponym	adduct	draw a limb towards the body
pull	cause to move by pulling	hyponym	pull back	move to a rearward position; pull towards the back
pull	cause to move by pulling	hyponym	twitch	move or pull with a sudden motion
pull	cause to move by pulling	similar	pull	apply force so as to cause motion towards the source of the motion
pull	cause to move by pulling	similar	draw,pull	cause to move in a certain direction by exerting a force upon, either physically or in an abstract sense
pull	direct toward itself or oneself by means of some psychological power or physical attributes	hypernym	draw,pull	cause to move by pulling
pull	direct toward itself or oneself by means of some psychological power or physical attributes	hyponym	arrest,catch,get	attract and fix
pull	direct toward itself or oneself by means of some psychological power or physical attributes	hyponym	draw in,retract	pull inward or towards a center
pull	direct toward itself or oneself by means of some psychological power or physical attributes	hyponym	bring	attract the attention of
pull	direct toward itself or oneself by means of some psychological power or physical attributes	hyponym	tug	pull hard
pull	direct toward itself or oneself by means of some psychological power or physical attributes	similar	draw in,retract	pull inward or towards a center
pull	direct toward itself or oneself by means of some psychological power or physical attributes	similar	curl,curl up,draw in	shape one's body into a curl
pull	tear or be torn violently	hypernym	bust,rupture,snap,tear	separate or cause to separate abruptly
pull	apply force so as to cause motion towards the source of the motion	hypernym	force	do forcibly; exert force
pull	apply force so as to cause motion towards the source of the motion	hyponym	hike up,hitch up	pull up
pull	apply force so as to cause motion towards the source of the motion	hyponym	draw close	pull towards oneself
pull	apply force so as to cause motion towards the source of the motion	hyponym	pull back,draw back,retract	use a surgical instrument to hold open (the edges of a wound or an organ)
pull	apply force so as to cause motion towards the source of the motion	hyponym	pick at,pluck at,pull at	pluck or pull at with the fingers
pull	apply force so as to cause motion towards the source of the motion	hyponym	attract	exert a force on (a body) causing it to approach or prevent it from moving away
pull	apply force so as to cause motion towards the source of the motion	hyponym	gather	draw and bring closer

pull	apply force so as to cause motion towards the source of the motion	hyponym	twist,wrench	twist or pull violently or suddenly, especially so as to remove (something) from that to which it is attached or from where it originates
pull	apply force so as to cause motion towards the source of the motion	similar	draw,pull	cause to move by pulling
pull	rein in to keep from winning a race	hypernym	rein in,rein	stop or check by or as if by a pull at the reins
pull	operate when rowing a boat	hypernym	row	propel with oars
pull	bring, take, or pull out of a container or from under a cover	hypernym	withdraw,take away,take,remove	remove something concrete, as by lifting, pushing, or taking off, or remove something abstract
pull	bring, take, or pull out of a container or from under a cover	hyponym	unsheathe	draw from a sheath or scabbard
pull	bring, take, or pull out of a container or from under a cover	similar	pull	take away
pull	bring, take, or pull out of a container or from under a cover	similar	draw,take out	take liquid out of a container or well
pull	bring, take, or pull out of a container or from under a cover	similar	pull out,tear out,take out,rip out,pull up,pull,extract,draw out	remove, usually with some force or effort; also used in an abstract sense
pull	steer into a certain direction	hypernym	drive	cause someone or something to move by driving
pull	steer into a certain direction	similar	pull	move into a certain direction
pull	move into a certain direction	hypernym	drive	move by being propelled by a force
pull	move into a certain direction	hyponym	cut in	drive in front of another vehicle leaving too little space for that vehicle to maneuver comfortably
pull	move into a certain direction	similar	pull	steer into a certain direction
pull	cause to move in a certain direction by exerting a force upon, either physically or in an abstract sense	hypernym	displace,move	cause to move or shift into a new position or place, both in a concrete and in an abstract sense
pull	cause to move in a certain direction by exerting a force upon, either physically or in an abstract sense	similar	draw,pull	cause to move by pulling
pull	perform an act, usually with a negative connotation	hypernym	act,move	perform an action, or work out or perform (an action)
pull	perform an act, usually with a negative connotation	hyponym	make	carry out or commit
pull	perform an act, usually with a negative connotation	hyponym	recommit	commit once again, as of a crime
pull	a device used for pulling something	hypernym	device	an instrumentality invented for a particular purpose
pull	a device used for pulling something	hyponym	bellpull	a handle or cord that is pulled to ring a doorbell or a servant's bell etc.
pull	a device used for pulling something	hyponym	pull chain	a chain (usually with a handle at the end) that is pulled in order to operate some mechanism (e.g. to flush a toilet)
pull	special advantage or influence	hypernym	advantage,vantage	the quality of having a superior or more favorable position
pull	the force used in pulling	hypernym	force	(physics) the influence that produces a change in a physical quantity
pull	a sharp strain on muscles or ligaments	hypernym	harm,hurt,injury,trauma	any physical damage to the body caused by violence or accident or fracture etc.; the condition of an injury
pull	a sharp strain on muscles or ligaments	hyponym	sprain	a painful injury to a joint caused by a sudden wrenching of its ligaments

available semantic relations for "pull"'s synsets)

```
SELECT w1.word,sy1.synsetid,sy1.definition,GROUP_CONCAT(DISTINCT relation) FROM synsets_synsets LEFT JOIN synsets AS sy1 ON (sy1.synsetid = synset1id) LEFT
JOIN senses AS s1 ON (sy1.synsetid = s1.synsetid) LEFT JOIN words AS w1 ON (s1.wordid = w1.wordid) LEFT JOIN relations USING (relationid) WHERE w1.word = 'pull'
GROUP BY sy1.synsetid ORDER BY sy1.synsetid
```

word	synsetid	definition	GROUP_CONCAT(DISTINCT relation)
pull	1372	strain abnormally	hypernym
pull	2333	the act of pulling; applying force to move something toward or with you	hypernym,hyponym
pull	12487	take away	hypernym,similar
pull	13361	a sustained effort	hypernym
pull	16535	a slow inhalation (as of tobacco smoke)	hypernym,hyponym,part holonym
pull	21379	take sides with; align oneself with; show strong sympathy for	hypernym
pull	24534	remove, usually with some force or effort; also used in an abstract sense	hypernym,hyponym,similar
pull	25070	strip of feathers	hypernym
pull	25455	hit in the direction that the player is facing when carrying through the swing	domain topic,hypernym
pull	26085	cause to move by pulling	hypernym,hyponym,similar
pull	27013	direct toward itself or oneself by means of some psychological power or physical attributes	hypernym,hyponym,similar
pull	28063	tear or be torn violently	hypernym
pull	28662	apply force so as to cause motion towards the source of the motion	hypernym,hyponym,similar
pull	32621	rein in to keep from winning a race	hypernym
pull	33982	operate when rowing a boat	hypernym
pull	34787	bring, take, or pull out of a container or from under a cover	hypernym,hyponym,similar
pull	35823	steer into a certain direction	hypernym,similar
pull	35825	move into a certain direction	hypernym,hyponym,similar
pull	36582	cause to move in a certain direction by exerting a force upon, either physically or in an abstract sense	hypernym,similar
pull	44510	perform an act, usually with a negative connotation	hypernym,hyponym
pull	57786	a device used for pulling something	hypernym,hyponym
pull	64114	special advantage or influence	hypernym
pull	98069	the force used in pulling	hypernym
pull	112157	a sharp strain on muscles or ligaments	hypernym,hyponym

lexical relations

all lexical relations

```
SELECT relation, COUNT(*) FROM senses_senses LEFT JOIN relations USING(relationid) GROUP BY relationid ORDER BY relationid
```

relation	COUNT(*)
antonym	8000
similar	2
also	1148
participle	73
pertainym	8073
derivation	74687
domain topic	14
domain member topic	14

domain region	158
domain member region	158
exemplifies	404
is exemplified by	404
other	4

max sense relations per synset

```
SELECT synset1id, word1id, COUNT(*) AS c,word,GROUP_CONCAT(DISTINCT relation),definition FROM senses_senses LEFT JOIN synsets AS s ON (s.synsetid =
synset1id) LEFT JOIN words AS w ON (w.wordid = word1id) LEFT JOIN relations USING(relationid) GROUP BY word1id,synset1id ORDER BY c DESC LIMIT 5
```

synset1id	word1id	c	word	GROUP_CONCAT(DISTINCT relation)	definition
72549	138491	298	trade name	is exemplified by	a name given to a product or service
83436	18023	93	britain	derivation,domain member region	a monarchy in northwestern Europe occupying most of the British Isles; divided into England and Scotland and Wales and Northern Ireland; `Great Britain' is often used loosely to refer to the United Kingdom
72551	138509	81	trademark	domain member topic,is exemplified by	a formally registered symbol identifying the manufacturer or distributor of a product
83255	20554	64	canada	derivation,domain member region	a nation in northern North America; the French were the first Europeans to settle in mainland Canada
7021	22024	15	carry	derivation	the act of carrying something

word lexical relations

```
SELECT w1.word,relation,w2.word,s1.definition,s2.definition FROM senses_senses LEFT JOIN synsets AS s1 ON (s1.synsetid = synset1id) LEFT JOIN synsets AS s2 ON
(s2.synsetid = synset2id) LEFT JOIN words AS w1 ON (w1.wordid = word1id) LEFT JOIN words AS w2 ON (w2.wordid = word2id) LEFT JOIN relations USING(relationid)
WHERE w1.word = 'pull' ORDER BY relationid
```

word	relation	word	definition	definition
pull	antonym	push	cause to move by pulling	move with force
pull	also	pull along	cause to move by pulling	pull along heavily, like a heavy load against a resistance
pull	also	pull back	cause to move by pulling	move to a rearward position; pull towards the back
pull	also	pull down	cause to move by pulling	tear down so as to make flat with the ground
pull	also	pull in	cause to move by pulling	direct toward itself or oneself by means of some psychological power or physical attributes
pull	also	pull off	cause to move by pulling	pull or pull out sharply
pull	also	pull out	cause to move by pulling	remove, usually with some force or effort; also used in an abstract sense
pull	also	pull up	cause to move by pulling	remove, usually with some force or effort; also used in an abstract sense
pull	derivation	pull	apply force so as to cause motion towards the source of the motion	the act of pulling; applying force to move something toward or with you
pull	derivation	pulling	cause to move by pulling	the act of pulling; applying force to move something toward or with you
pull	derivation	pull	apply force so as to cause motion towards the source of the motion	the force used in pulling
pull	derivation	puller	apply force so as to cause motion towards the source of the motion	someone who applies force so as to cause motion toward herself or

				himself
pull	derivation	pulling	apply force so as to cause motion towards the source of the motion	the act of pulling; applying force to move something toward or with you
pull	derivation	pull	perform an act, usually with a negative connotation	a sustained effort
pull	derivation	pull	a device used for pulling something	direct toward itself or oneself by means of some psychological power or physical attributes
pull	derivation	pull	the force used in pulling	direct toward itself or oneself by means of some psychological power or physical attributes
pull	derivation	pull	the force used in pulling	apply force so as to cause motion towards the source of the motion
pull	derivation	pull	a sharp strain on muscles or ligaments	strain abnormally
pull	derivation	pull	direct toward itself or oneself by means of some psychological power or physical attributes	the force used in pulling
pull	derivation	pull	direct toward itself or oneself by means of some psychological power or physical attributes	a device used for pulling something
pull	derivation	pull	direct toward itself or oneself by means of some psychological power or physical attributes	the act of pulling; applying force to move something toward or with you
pull	derivation	pull	strain abnormally	a sharp strain on muscles or ligaments
pull	derivation	puller	cause to move by pulling	someone who pulls or tugs or drags in an effort to move something
pull	derivation	pull	cause to move by pulling	the act of pulling; applying force to move something toward or with you
pull	derivation	pull	a sustained effort	perform an act, usually with a negative connotation
pull	derivation	pull	the act of pulling; applying force to move something toward or with you	apply force so as to cause motion towards the source of the motion
pull	derivation	pull	the act of pulling; applying force to move something toward or with you	direct toward itself or oneself by means of some psychological power or physical attributes
pull	derivation	pull	the act of pulling; applying force to move something toward or with you	cause to move by pulling

WordNet (misc)

adjective positions

adj having multiple positions

```
SELECT word,COUNT(DISTINCT positionid) AS N,GROUP_CONCAT(positionid),GROUP_CONCAT(senseid) FROM senses INNER JOIN senses_adjpositions USING (wordid,synsetid) LEFT JOIN words USING (wordid) LEFT JOIN synsets USING (synsetid) GROUP BY wordid HAVING N >1 ORDER BY N DESC
```

word	N	GROUP_CONCAT(positionid)	GROUP_CONCAT(senseid)
left	2	p,a	108270,108269
up	2	p,p,p,p,a	200647,200648,200649,200650,200646
true	2	a,a,a,a,p	195296,195294,195297,195298,195299
throwaway	2	p,a	190726,190727
supposed	2	a,p	184406,184403
square	2	a,p	178416,178417
several	2	a,p,a	168427,168426,168428
proper	2	ip,a	148501,148500
previous	2	a,p,a	147121,147119,147120
out	2	p,p,a,a,p,p,p,a	133426,133432,133427,133431,133428,133429,133422,133434
low-density	2	a,p	112654,112655
at rest	2	p,a	12206,12205

leading	2	p,a	107872,107870
in	2	a,p	96159,96160
heavy	2	p,a	89041,89047
gone	2	p,a	83318,83315
downward	2	a,ip	55989,55990
down	2	p,p,p,a,a	55902,55906,55908,55903,55904
dead	2	a,a,p,p	48472,48482,48479,48483
certain	2	p,p,a	31757,31758,31762
big	2	p,a	18777,18773

uses of "out"

SELECT word,positionid,position,definition FROM senses INNER JOIN senses_adjpositions USING (wordid,synsetid) LEFT JOIN words USING (wordid) LEFT JOIN synsets USING (synsetid) INNER JOIN adjpositions USING (positionid) WHERE word = 'out'

word	positionid	position	definition
out	p	predicate	being out or having grown cold
out	p	predicate	knocked unconscious by a heavy blow
out	a	attributive	outside or external
out	a	attributive	directed outward or serving to direct something outward
out	p	predicate	excluded from use or mention
out	p	predicate	not worth considering as a possibility
out	p	predicate	not allowed to continue to bat or run
out	a	attributive	out of power; especially having been unsuccessful in an election

uses of "big"

SELECT word,positionid,position,definition FROM senses INNER JOIN senses_adjpositions USING (wordid,synsetid) LEFT JOIN words USING (wordid) LEFT JOIN synsets USING (synsetid) INNER JOIN adjpositions USING (positionid) WHERE word = 'big'

word	positionid	position	definition
big	p	predicate	in an advanced stage of pregnancy
big	a	attributive	prodigious

WordNet (morphology)

morphology

word from morph

SELECT * FROM morphs WHERE morph = 'better'

morphid	morph
298	better

morph from word

```
SELECT * FROM morphs LEFT JOIN lexes_morphs USING (morphid) LEFT JOIN words USING (wordid) WHERE word = 'good'
```

wordid	morphid	morph	luid	posid	word
60499	289	best	87820	a	good
60499	298	better	87820	a	good
60499	289	best	87823	s	good
60499	298	better	87823	s	good

chivy-chevied,chevies,chevying,chivied,chivvied,chivvies,chivvying

```
SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE word = 'chivy'
```

word	posid	morph
chivy	v	chevied
chivy	v	chevies
chivy	v	chevying
chivy	v	chivied
chivy	v	chivvied
chivy	v	chivvies
chivy	v	chivvying

quiz(n,v)-quizzes

```
SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE word = 'quiz'
```

word	posid	morph
quiz	n	quizzes
quiz	v	quizzed
quiz	v	quizzes
quiz	v	quizzing

gas(n,v)-gasses

```
SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE word = 'gas'
```

word	posid	morph
gas	n	gas
gas	n	gasses
gas	v	gassed
gas	v	gasses
gas	v	gassing

good,well-better

```
SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE morph = 'better'
```

word	posid	morph

good	a	better
good	s	better
well	a	better
well	r	better
well	s	better

well(a,r)-better

SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE word = 'well'

word	posid	morph
well	a	better
well	r	best
well	r	better
well	s	better

be-am,are,been,is,was,were

SELECT word,posid,morph FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) WHERE word = 'be'

word	posid	morph
be	v	am
be	v	are
be	v	been
be	v	is
be	v	was
be	v	were

morphs per word

SELECT word,COUNT(morph) AS N,GROUP_CONCAT(morph) AS morphs,GROUP_CONCAT(posid) FROM morphs LEFT JOIN lexes_morphs USING (morphid) LEFT JOIN words USING (wordid) GROUP BY word HAVING N > 1 LIMIT 20

word	N	morphs	GROUP_CONCAT(posid)
abet	2	abetted,abetting	v,v
abhor	2	abhorred,abhorring	v,v
abut	2	abutted,abutting	v,v
aby	2	abought,abye	v,v
acquit	2	acquitted,acquitting	v,v
ad-lib	2	ad-libbed,ad-libbing	v,v
admit	2	admitted,admitting	v,v
agora	2	agorae,agorae	n,n
airy	2	airier,airiest	s,s
allot	2	allotted,allotting	v,v
angry	4	angrier,angrier,angriest,angriest	a,s,a,s
annul	2	annulled,annulling	v,v

antheridium	2	andtheridia,antheridia	n,n
appal	2	appalled,appalling	v,v
appall	2	appalled,appalling	v,v
arc	2	arcked,arcking	v,v
argali	2	araglis,argali	n,n
arise	2	arisen,arose	v,v
arty	2	artier,artiest	s,s
ashy	2	ashier,ashiest	s,s

word per morph

```
SELECT morph,COUNT(word) AS N,GROUP_CONCAT(word) AS lemmas,GROUP_CONCAT(posid) FROM morphs LEFT JOIN lexes_morphs USING (morphid) LEFT JOIN
words USING (wordid) GROUP BY morph HAVING N > 1 LIMIT 20
```

morph	N	lemmas	GROUP_CONCAT(posid)
agorae	2	agora,agora	n,n
angrier	2	angry,angry	a,s
angriest	2	angry,angry	a,s
appalled	2	appal,appall	v,v
appalling	2	appal,appall	v,v
assegais	2	assagai,assegai	n,n
auspices	2	auspex,auspice	n,n
axes	2	ax,axis	n,n
bacchantes	2	bacchant,bacchante	n,n
bases	2	base,basis	n,n
beadsmen	2	beadsman,bedesman	n,n
best	3	good,good,well	a,s,r
better	5	good,good,well,well,well	a,s,a,r,s
bicennaries	2	bicentenary,bicentennial	n,n
bigger	2	big,big	a,s
biggest	2	big,big	a,s
bloodier	2	bloody,bloody	a,s
bloodiest	2	bloody,bloody	a,s
bonier	2	bony,bony	a,s
boniest	2	bony,bony	a,s

word - 3 (or more) morphs

```
SELECT word,COUNT(wordid) AS N,GROUP_CONCAT(morph),GROUP_CONCAT(posid) FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs
USING (morphid) GROUP BY wordid HAVING N > 2 ORDER BY N DESC
```

word	N	GROUP_CONCAT(morph)	GROUP_CONCAT(posid)
dry	9	dried,drier,drier,driest,driest,dryer,dryer,dryest,dryest	v,a,s,a,s,a,s,a,s
shy	9	shied,shier,shier,shiest,shiest,shyer,shyer,shyest,shyest	v,a,s,a,s,a,s,a,s
chivy	7	chevied,chevies,chevying,chivied,chivvied,chivvies,chivvying	v,v,v,v,v,v,v
be	6	am,are,been,is,was,were	v,v,v,v,v,v

dim	6	dimmed,dimmer,dimmer,dimmest,dimmest,dimming	v,a,s,a,s,v
fat	6	fatted,fatter,fatter,fattest,fattest,fatting	v,a,s,a,s,v
fit	6	fitted,fitter,fitter,fittest,fittest,fitting	v,a,s,a,s,v
thin	6	thinned,thinner,thinner,thinnest,thinnest,thinning	v,a,s,a,s,v
wet	6	wetted,wetter,wetter,wettest,wettest,wetting	v,a,s,a,s,v
bloody	5	bloodied,bloodier,bloodier,bloodiest,bloodiest	v,a,s,a,s
busy	5	busied,busier,busier,busiest,busiest	v,a,s,a,s
dirty	5	dirtied,dirtier,dirtier,dirtiest,dirtiest	v,a,s,a,s
empty	5	emptied,emptier,emptier,emptiest,emptiest	v,a,s,a,s
gas	5	gas,gassed,gasses,gasses,gassing	n,v,n,v,v
steady	5	steadied,steadier,steadier,steadiest,steadiest	v,a,s,a,s
swap	5	swapped,swapping,swopped,swopping,swops	v,v,v,v,v
tidy	5	tidied,tidier,tidier,tidiest,tidiest	v,a,s,a,s
trammel	5	trameled,trameling,tramelled,tramelling,tramels	v,v,v,v,v
angry	4	angrier,angrier,angriest,angriest	a,s,a,s
bad	4	worse,worse,worst,worst	a,s,a,s
beget	4	begat,begetting,begot,begotten	v,v,v,v
big	4	bigger,bigger,biggest,biggest	a,s,a,s
bony	4	bonier,bonier,boniest,boniest	a,s,a,s
brassy	4	brassier,brassier,brassiest,brassiest	a,s,a,s
bumpy	4	bumpier,bumpier,bumpiest,bumpiest	a,s,a,s
cloudy	4	cloudier,cloudier,cloudiest,cloudiest	a,s,a,s
coordinate	4	co-ordinate,co-ordinated,co-ordinates,co-ordinating	v,v,v,v
dumpy	4	dumpier,dumpier,dumpiest,dumpiest	a,s,a,s
dun	4	dunned,dunner,dunnest,dunning	v,s,s,v
early	4	earlier,earlier,earliest,earliest	a,s,a,s
earthy	4	earthier,earthier,earthiest,earthiest	a,s,a,s
easy	4	easier,easier,easiest,easiest	a,s,a,s
fishy	4	fishier,fishier,fishiest,fishiest	a,s,a,s
flaky	4	flakier,flakier,flakiest,flakiest	a,s,a,s
flat	4	flatter,flatter,flattest,flattest	a,s,a,s
fleshy	4	fleshier,fleshier,fleshiest,fleshiest	a,s,a,s
flimsy	4	flimsier,flimsier,flimsiest,flimsiest	a,s,a,s
flinty	4	flintier,flintier,flintiest,flintiest	a,s,a,s
forbid	4	forbad,forbade,forbidden,forbidding	v,v,v,v
free	4	freer,freer,freest,freest	a,s,a,s
friendly	4	friendlier,friendlier,friendliest,friendliest	a,s,a,s
glad	4	gladder,gladder,gladdest,gladdest	a,s,a,s
good	4	best,best,better,better	a,s,a,s
grubby	4	grubbier,grubbier,grubbiest,grubbiest	a,s,a,s
guilty	4	guiltier,guiltier,guiltiest,guiltiest	a,s,a,s
hairy	4	hairier,hairier,hairiest,hairiest	a,s,a,s
happy	4	happier,happier,happiest,happiest	a,s,a,s
healthy	4	healthier,healthier,healthiest,healthiest	a,s,a,s
heavy	4	heavier,heavier,heaviest,heaviest	a,s,a,s

hot	4	hotter,hotter,hottest,hottest	a,s,a,s
hungry	4	hungrier,hungrier,hungriest,hungriest	a,s,a,s
juicy	4	juicier,juicier,juiciest,juiciest	a,s,a,s
jumpy	4	jumpier,jumpier,jumpiest,jumpiest	a,s,a,s
leaky	4	leakier,leakier,leakiest,leakiest	a,s,a,s
lively	4	livelier,livelier,liveliest,liveliest	a,s,a,s
loopy	4	loopier,loopier,loopiest,loopiest	a,s,a,s
lucky	4	luckier,luckier,luckiest,luckiest	a,s,a,s
manly	4	manlier,manlier,manliest,manliest	a,s,a,s
mealy	4	mealier,mealier,mealiest,mealiest	a,s,a,s
meaty	4	meatier,meatier,meatiest,meatiest	a,s,a,s
moony	4	moonier,moonier,mooniest,mooniest	a,s,a,s
mousy	4	mousier,mousier,mousiest,mousiest	a,s,a,s
nasty	4	nastier,nastier,nastiest,nastiest	a,s,a,s
noisy	4	noisier,noisier,noisiest,noisiest	a,s,a,s
plucky	4	pluckier,pluckier,pluckiest,pluckiest	a,s,a,s
prim	4	primmed,primmer,primmest,primming	v,s,s,v
quiz	4	quizzed,quizzes,quizzes,quizzing	v,n,v,v
ratty	4	rattier,rattier,rattiest,rattiest	a,s,a,s
ready	4	readier,readier,readiest,readiest	a,s,a,s
real	4	reales,reales,reis,reis	n,n,n,n
rocky	4	rockier,rockier,rockiest,rockiest	a,s,a,s
ropy	4	ropier,ropier,ropiest,ropiest	a,s,a,s
sad	4	sadder,sadder,saddest,saddest	a,s,a,s
salty	4	saltier,saltier,saltiest,saltiest	a,s,a,s
sandy	4	sandier,sandier,sandiest,sandiest	a,s,a,s
seedy	4	seedier,seedier,seediest,seediest	a,s,a,s
shiny	4	shinier,shinier,shiniest,shiniest	a,s,a,s
skinny	4	skinnier,skinnier,skinniest,skinniest	a,s,a,s
sly	4	slier,sliest,slyer,slyest	s,s,s,s
smoky	4	smokier,smokier,smokiest,smokiest	a,s,a,s
soapy	4	soapier,soapier,soapiest,soapiest	a,s,a,s
sorry	4	sorrier,sorrier,sorriest,sorriest	a,s,a,s
spiny	4	spinier,spinier,spiniest,spiniest	a,s,a,s
splashy	4	splashier,splashier,splashiest,splashiest	a,s,a,s
squat	4	squatted,squatter,squattest,squatting	v,s,s,v
starchy	4	starchier,starchier,starchiest,starchiest	a,s,a,s
stormy	4	stormier,stormier,stormiest,stormiest	a,s,a,s
strong	4	stronger,stronger,strongest,strongest	a,s,a,s
sturdy	4	sturdier,sturdier,sturdiest,sturdiest	a,s,a,s
tan	4	tanned,tanner,tannest,tanning	v,s,s,v
tear	4	tore,tore,torn,torn	v,v,v,v
thirsty	4	thirstier,thirstier,thirstiest,thirstiest	a,s,a,s
thrifty	4	thriftier,thriftier,thriftiest,thriftiest	a,s,a,s

tinny	4	tinnier,tinnier,tinniest,tinniest	a,s,a,s
trim	4	trimmed,trimmer,trimmest,trimming	v,s,s,v
true	4	truer,truer,truest,truest	a,s,a,s
ugly	4	uglier,uglier,ugliest,ugliest	a,s,a,s
unfriendly	4	unfriendlier,unfriendlier,unfriendliest,unfriendliest	a,s,a,s
unhappy	4	unhappier,unhappier,unhappiest,unhappiest	a,s,a,s
unhealthy	4	unhealthier,unhealthier,unhealthiest,unhealthiest	a,s,a,s
unholy	4	unholier,unholier,unholiest,unholiest	a,s,a,s
wan	4	wanned,wanner,wannest,wanning	v,s,s,v
wary	4	warier,warier,wariest,wariest	a,s,a,s
waxy	4	waxier,waxier,waxiest,waxiest	a,s,a,s
weedy	4	weedier,weedier,weediest,weediest	a,s,a,s
weighty	4	weightier,weightier,weightiest,weightiest	a,s,a,s
well	4	best,better,better,better	r,a,r,s
wintry	4	wintrier,wintrier,wintriest,wintriest	a,s,a,s
wiry	4	wirier,wirier,wiriest,wiriest	a,s,a,s
woody	4	woodier,woodier,woodiest,woodiest	a,s,a,s
worldly	4	worldlier,worldlier,worldliest,worldliest	a,s,a,s
worthy	4	worthier,worthier,worthiest,worthiest	a,s,a,s
wry	4	wrier,wriest,wryer,wryest	s,s,s,s
yeasty	4	yeastier,yeastier,yeastiest,yeastiest	a,s,a,s
young	4	younger,younger,youngest,youngest	a,s,a,s
ban	3	bani,banned,banning	n,v,v
bandy	3	bandied,bandier,bandiest	v,s,s
bear	3	bore,born,borne	v,v,v
bed	3	bed,bedded,bedding	v,v,v
begin	3	began,beginning,begun	v,v,v
bestride	3	bestrid,bestridden,bestrode	v,v,v
bid	3	bade,bidden,bidding	v,v,v
caddie	3	caddied,caddies,caddying	v,v,v
caddy	3	caddied,caddies,caddying	v,v,v
cleave	3	cleft,clove,cloven	v,v,v
cry	3	cried,crying,cryings	v,n,n
degas	3	degassed,degasses,degassing	v,v,v
dizzy	3	dizzied,dizzier,dizziest	v,s,s
fancy	3	fancied,fancier,fanciest	v,a,a
forget	3	forgetting,forgot,forgotten	v,v,v
get	3	getting,got,gotten	v,v,v
gin	3	gan,ginned,ginning	v,v,v
go	3	goes,gone,went	n,v,v
grip	3	gripped,gripping,gript	v,v,v
hallah	3	challoth,hallot,halloth	n,n,n
jolly	3	jollied,jollier,jolliest	v,s,s
lie	3	lain,lay,lying	v,v,v
man	3	manned,manning,men	v,v,n

muddy	3	muddied,muddier,muddiest	v,s,s
nonplus	3	nonplussed,nonplusses,nonplussing	v,v,v
os	3	ora,osar,ossa	n,n,n
overlie	3	overlain,overlay,overlying	v,v,v
pen	3	penned,penning,pent	v,v,v
program	3	programmed,programmes,programming	v,v,v
shit	3	shat,shitted,shitting	v,v,v
shrink	3	shrank,shrunk,shrunken	v,v,v
sing	3	sang,singing,sung	v,v,v
sink	3	sank,sunk,sunken	v,v,v
smite	3	smit,smitten,smote	v,v,v
spit	3	spat,spitted,spitting	v,v,v
swim	3	swam,swimming,swum	v,v,v
tallith	3	tallaisim,tallithes,tallitoth	n,n,n
transship	3	tranship,transshipped,transshipping	v,v,v
underlie	3	underlain,underlay,underlying	v,v,v
weary	3	wearied,wearier,weariest	v,s,s
whiz	3	whizzed,whizzes,whizzing	v,v,v

morph - 2 (or more) lemmas

```
SELECT morph,COUNT(morphid) AS N ,GROUP_CONCAT(word),GROUP_CONCAT(posid) FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) GROUP BY morphid HAVING N > 1 ORDER BY N DESC
```

morph	N	GROUP_CONCAT(word)	GROUP_CONCAT(posid)
better	5	good,good,well,well,well	a,s,a,r,s
best	3	good,good,well	a,s,r
agorae	2	agora,agora	n,n
angrier	2	angry,angry	a,s
angriest	2	angry,angry	a,s
appalled	2	appal,appall	v,v
appalling	2	appal,appall	v,v
assegais	2	assagai,assegai	n,n
auspices	2	auspex,auspice	n,n
axes	2	ax,axis	n,n
bacchantes	2	bacchant,bacchante	n,n
bases	2	base,basis	n,n
beadsmen	2	beadsman,bedesman	n,n
bicennaries	2	bicentenary,bicentennial	n,n
bigger	2	big,big	a,s
biggest	2	big,big	a,s
bloodier	2	bloody,bloody	a,s
bloodiest	2	bloody,bloody	a,s
bonier	2	bony,bony	a,s
boniest	2	bony,bony	a,s

brants	2	brant,brent	n,n
brassier	2	brassy,brassy	a,s
brassiest	2	brassy,brassy	a,s
bumpier	2	bumpy,bumpy	a,s
bumpiest	2	bumpy,bumpy	a,s
busier	2	busy,busy	a,s
busiest	2	busy,busy	a,s
caddied	2	caddie,caddy	v,v
caddies	2	caddie,caddy	v,v
caddying	2	caddie,caddy	v,v
chelae	2	chela,chela	n,n
cloudier	2	cloudy,cloudy	a,s
cloudiest	2	cloudy,cloudy	a,s
dimmer	2	dim,dim	a,s
dimmest	2	dim,dim	a,s
dirtier	2	dirty,dirty	a,s
dirtiest	2	dirty,dirty	a,s
distilled	2	distil,distill	v,v
distilling	2	distil,distill	v,v
djinn	2	djinni,djinny	n,n
drier	2	dry,dry	a,s
driest	2	dry,dry	a,s
dryer	2	dry,dry	a,s
dryest	2	dry,dry	a,s
dumpier	2	dumpy,dumpy	a,s
dumpiest	2	dumpy,dumpy	a,s
earlier	2	early,early	a,s
earliest	2	early,early	a,s
earthier	2	earthy,earthy	a,s
earthiest	2	earthy,earthy	a,s
easier	2	easy,easy	a,s
easiest	2	easy,easy	a,s
emptier	2	empty,empty	a,s
emptiest	2	empty,empty	a,s
enrolled	2	enrol,enroll	v,v
enrolling	2	enrol,enroll	v,v
enthralled	2	enthral,enthrall	v,v
enthralling	2	enthral,enthrall	v,v
entozoa	2	entozoan,entozoon	n,n
epizoa	2	epizoan,epizoon	n,n
fatter	2	fat,fat	a,s
fattest	2	fat,fat	a,s
feed	2	fee,feed	v,v
fishier	2	fishy,fishy	a,s
fishiest	2	fishy,fishy	a,s

fitter	2	fit,fit	a,s
fittest	2	fit,fit	a,s
flakier	2	flaky,flaky	a,s
flakiest	2	flaky,flaky	a,s
flatter	2	flat,flat	a,s
flattest	2	flat,flat	a,s
fleshier	2	fleshy,fleshy	a,s
fleshiest	2	fleshy,fleshy	a,s
flimsier	2	flimsy,flimsy	a,s
flimsiest	2	flimsy,flimsy	a,s
flintier	2	flinty,flinty	a,s
flintiest	2	flinty,flinty	a,s
freer	2	free,free	a,s
freest	2	free,free	a,s
friendlier	2	friendly,friendly	a,s
friendliest	2	friendly,friendly	a,s
fulfilled	2	fulfil,fulfill	v,v
fulfilling	2	fulfil,fulfill	v,v
gasses	2	gas,gas	n,v
gladder	2	glad,glad	a,s
gladdest	2	glad,glad	a,s
grubbier	2	grubby,grubby	a,s
grubbiest	2	grubby,grubby	a,s
guiltier	2	guilty,guilty	a,s
guiltiest	2	guilty,guilty	a,s
hairier	2	hairy,hairy	a,s
hairiest	2	hairy,hairy	a,s
halteres	2	halter,haltere	n,n
happier	2	happy,happy	a,s
happiest	2	happy,happy	a,s
healthier	2	healthy,healthy	a,s
healthiest	2	healthy,healthy	a,s
heavier	2	heavy,heavy	a,s
heaviest	2	heavy,heavy	a,s
hotter	2	hot,hot	a,s
hottest	2	hot,hot	a,s
hungrier	2	hungry,hungry	a,s
hungriest	2	hungry,hungry	a,s
ichthyosauruses	2	ichthyosaur,ichthyosaurus	n,n
installed	2	instal,install	v,v
installing	2	instal,install	v,v
juicier	2	juicy,juicy	a,s
juiciest	2	juicy,juicy	a,s
jumpier	2	jumpy,jumpy	a,s
jumpiest	2	jumpy,jumpy	a,s

leakier	2	leaky,leaky	a,s
leakiest	2	leaky,leaky	a,s
leaves	2	leaf,leave	n,n
litai	2	lit,litas	n,n
livelier	2	lively,lively	a,s
liveliest	2	lively,lively	a,s
loopier	2	loopy,loopy	a,s
loopiest	2	loopy,loopy	a,s
luckier	2	lucky,lucky	a,s
luckiest	2	lucky,lucky	a,s
manlier	2	manly,manly	a,s
manliest	2	manly,manly	a,s
masses	2	mass,masse	n,n
mealier	2	mealy,mealy	a,s
mealiest	2	mealy,mealy	a,s
meatier	2	meaty,meaty	a,s
meatiest	2	meaty,meaty	a,s
modest	2	modest,modest	a,s
monades	2	monad,monas	n,n
moonier	2	moony,moony	a,s
mooniest	2	moony,moony	a,s
mousier	2	mousy,mousy	a,s
mousiest	2	mousy,mousy	a,s
nastier	2	nasty,nasty	a,s
nastiest	2	nasty,nasty	a,s
noisier	2	noisy,noisy	a,s
noisiest	2	noisy,noisy	a,s
oedemata	2	edema,oedema	n,n
oesophagi	2	esophagus,oesophagus	n,n
offer	2	off,off	a,s
overflown	2	overflow,overfly	v,v
paraleipses	2	paraleipsis,paralipsis	n,n
plectra	2	plectron,plectrum	n,n
ploughmen	2	ploughman,plowman	n,n
pluckier	2	plucky,plucky	a,s
pluckiest	2	plucky,plucky	a,s
prothalamia	2	prothalamion,prothalamium	n,n
quizzes	2	quiz,quiz	n,v
rabatos	2	rabato,rebato	n,n
rattier	2	ratty,ratty	a,s
rattiest	2	ratty,ratty	a,s
readier	2	ready,ready	a,s
readiest	2	ready,ready	a,s
reales	2	real,real	n,n
reis	2	real,real	n,n

rockier	2	rocky,rocky	a,s
rockiest	2	rocky,rocky	a,s
ropier	2	ropy,ropy	a,s
ropiest	2	ropy,ropy	a,s
sadder	2	sad,sad	a,s
saddest	2	sad,sad	a,s
saguaros	2	saguaro,sahuaro	n,n
saltier	2	salty,salty	a,s
saltiest	2	salty,salty	a,s
sandier	2	sandy,sandy	a,s
sandiest	2	sandy,sandy	a,s
seedier	2	seedy,seedy	a,s
seediest	2	seedy,seedy	a,s
shier	2	shy,shy	a,s
shiest	2	shy,shy	a,s
shinier	2	shiny,shiny	a,s
shiniest	2	shiny,shiny	a,s
shofroth	2	shofar,shophar	n,n
shyer	2	shy,shy	a,s
shyest	2	shy,shy	a,s
signori	2	signior,signore	n,n
singing	2	sing,singe	v,v
skinnier	2	skinny,skinny	a,s
skinniest	2	skinny,skinny	a,s
smokier	2	smoky,smoky	a,s
smokiest	2	smoky,smoky	a,s
soapier	2	soapy,soapy	a,s
soapiest	2	soapy,soapy	a,s
soles	2	sol,sole	n,n
sorrier	2	sorry,sorry	a,s
sorriest	2	sorry,sorry	a,s
spinier	2	spiny,spiny	a,s
spiniest	2	spiny,spiny	a,s
splashier	2	splashy,splashy	a,s
splashiest	2	splashy,splashy	a,s
starchier	2	starchy,starchy	a,s
starchiest	2	starchy,starchy	a,s
steadier	2	steady,steady	a,s
steadiest	2	steady,steady	a,s
stormier	2	stormy,stormy	a,s
stormiest	2	stormy,stormy	a,s
stronger	2	strong,strong	a,s
strongest	2	strong,strong	a,s
sturdier	2	sturdy,sturdy	a,s
sturdiest	2	sturdy,sturdy	a,s

taeniae	2	taenia,tenia	n,n
taxes	2	tax,taxis	n,n
thinner	2	thin,thin	a,s
thinnest	2	thin,thin	a,s
thirstier	2	thirsty,thirsty	a,s
thirstiest	2	thirsty,thirsty	a,s
thriftier	2	thrifty,thrifty	a,s
thriftiest	2	thrifty,thrifty	a,s
tidier	2	tidy,tidy	a,s
tidiest	2	tidy,tidy	a,s
tinnier	2	tinny,tinny	a,s
tinniest	2	tinny,tinny	a,s
tore	2	tear,tear	v,v
torn	2	tear,tear	v,v
touracos	2	touraco,turaco	n,n
truer	2	true,true	a,s
truest	2	true,true	a,s
tyros	2	tiro,tyro	n,n
uglier	2	ugly,ugly	a,s
ugliest	2	ugly,ugly	a,s
unfriendlier	2	unfriendly,unfriendly	a,s
unfriendliest	2	unfriendly,unfriendly	a,s
unhappier	2	unhappy,unhappy	a,s
unhappiest	2	unhappy,unhappy	a,s
unhealthier	2	unhealthy,unhealthy	a,s
unhealthiest	2	unhealthy,unhealthy	a,s
unholier	2	unholy,unholy	a,s
unholiest	2	unholy,unholy	a,s
warier	2	wary,wary	a,s
wariest	2	wary,wary	a,s
waxier	2	waxy,waxy	a,s
waxiest	2	waxy,waxy	a,s
weedier	2	weedy,weedy	a,s
weediest	2	weedy,weedy	a,s
weightier	2	weighty,weighty	a,s
weightiest	2	weighty,weighty	a,s
wetter	2	wet,wet	a,s
wettest	2	wet,wet	a,s
wintrier	2	wintry,wintry	a,s
wintriest	2	wintry,wintry	a,s
wirier	2	wiry,wiry	a,s
wiriest	2	wiry,wiry	a,s
woodier	2	woody,woody	a,s
woodiest	2	woody,woody	a,s

worldlier	2	worldly,worldly	a,s
worldliest	2	worldly,worldly	a,s
worse	2	bad,bad	a,s
worst	2	bad,bad	a,s
worthier	2	worthy,worthy	a,s
worthiest	2	worthy,worthy	a,s
wound	2	wind,wind	v,v
yeastier	2	yeasty,yeasty	a,s
yeastiest	2	yeasty,yeasty	a,s
younger	2	young,young	a,s
youngest	2	young,young	a,s

morph matching several posid

```
SELECT word,morph,GROUP_CONCAT(posid),COUNT(*) AS N FROM lexes_morphs INNER JOIN words USING (wordid) INNER JOIN morphs USING (morphid) GROUP BY wordid,morphid HAVING N > 1 ORDER BY N DESC
```

word	morph	GROUP_CONCAT(posid)	N
well	better	a,r,s	3
agora	agorae	n,n	2
angry	angrier	a,s	2
angry	angriest	a,s	2
bad	worse	a,s	2
bad	worst	a,s	2
big	bigger	a,s	2
big	biggest	a,s	2
bloody	bloodier	a,s	2
bloody	bloodiest	a,s	2
bony	bonier	a,s	2
bony	boniest	a,s	2
brassy	brassier	a,s	2
brassy	brassiest	a,s	2
bumpy	bumpier	a,s	2
bumpy	bumpiest	a,s	2
busy	busier	a,s	2
busy	busiest	a,s	2
chela	chelae	n,n	2
cloudy	cloudier	a,s	2
cloudy	cloudiest	a,s	2
dim	dimmer	a,s	2
dim	dimmest	a,s	2
dirty	dirtier	a,s	2
dirty	dirtiest	a,s	2
dry	drier	a,s	2
dry	driest	a,s	2
dry	dryer	a,s	2

dry	dryest	a,s	2
dumpy	dumpier	a,s	2
dumpy	dumpiest	a,s	2
early	earlier	a,s	2
early	earliest	a,s	2
earthy	earthier	a,s	2
earthy	earthiest	a,s	2
easy	easier	a,s	2
easy	easiest	a,s	2
empty	emptier	a,s	2
empty	emptiest	a,s	2
fat	fatter	a,s	2
fat	fattest	a,s	2
fishy	fishier	a,s	2
fishy	fishiest	a,s	2
fit	fitter	a,s	2
fit	fittest	a,s	2
flaky	flakier	a,s	2
flaky	flakiest	a,s	2
flat	flatter	a,s	2
flat	flattest	a,s	2
fleshy	fleshier	a,s	2
fleshy	fleshiest	a,s	2
flimsy	flimsier	a,s	2
flimsy	flimsiest	a,s	2
flinty	flintier	a,s	2
flinty	flintiest	a,s	2
free	freer	a,s	2
free	freest	a,s	2
friendly	friendlier	a,s	2
friendly	friendliest	a,s	2
gas	gasses	n,v	2
glad	gladder	a,s	2
glad	gladdest	a,s	2
good	best	a,s	2
good	better	a,s	2
grubby	grubbier	a,s	2
grubby	grubbiest	a,s	2
guilty	guiltier	a,s	2
guilty	guiltiest	a,s	2
hairy	hairier	a,s	2
hairy	hairiest	a,s	2
happy	happier	a,s	2
happy	happiest	a,s	2
healthy	healthier	a,s	2

healthy	healthiest	a,s	2
heavy	heavier	a,s	2
heavy	heaviest	a,s	2
hot	hotter	a,s	2
hot	hottest	a,s	2
hungry	hungrier	a,s	2
hungry	hungriest	a,s	2
juicy	juicier	a,s	2
juicy	juiciest	a,s	2
jumpy	jumpier	a,s	2
jumpy	jumpiest	a,s	2
leaky	leakier	a,s	2
leaky	leakiest	a,s	2
lively	livelier	a,s	2
lively	liveliest	a,s	2
loopy	loopier	a,s	2
loopy	loopiest	a,s	2
lucky	luckier	a,s	2
lucky	luckiest	a,s	2
manly	manlier	a,s	2
manly	manliest	a,s	2
mealy	mealier	a,s	2
mealy	mealiest	a,s	2
meaty	meatier	a,s	2
meaty	meatiest	a,s	2
modest	modest	a,s	2
moony	moonier	a,s	2
moony	mooniest	a,s	2
mousy	mousier	a,s	2
mousy	mousiest	a,s	2
nasty	nastier	a,s	2
nasty	nastiest	a,s	2
noisy	noisier	a,s	2
noisy	noisiest	a,s	2
off	offer	a,s	2
plucky	pluckier	a,s	2
plucky	pluckiest	a,s	2
quiz	quizzes	n,v	2
ratty	rattier	a,s	2
ratty	rattiest	a,s	2
ready	readier	a,s	2
ready	readiest	a,s	2
real	reales	n,n	2
real	reis	n,n	2
rocky	rockier	a,s	2

rocky	rockiest	a,s	2
ropy	ropier	a,s	2
ropy	ropiest	a,s	2
sad	sadder	a,s	2
sad	saddest	a,s	2
salty	saltier	a,s	2
salty	saltiest	a,s	2
sandy	sandier	a,s	2
sandy	sandiest	a,s	2
seedy	seedier	a,s	2
seedy	seediest	a,s	2
shiny	shinier	a,s	2
shiny	shiniest	a,s	2
shy	shier	a,s	2
shy	shiest	a,s	2
shy	shyer	a,s	2
shy	shyest	a,s	2
skinny	skinnier	a,s	2
skinny	skinniest	a,s	2
smoky	smokier	a,s	2
smoky	smokiest	a,s	2
soapy	soapier	a,s	2
soapy	soapiest	a,s	2
sorry	sorrier	a,s	2
sorry	sorriest	a,s	2
spiny	spinier	a,s	2
spiny	spiniest	a,s	2
splashy	splashier	a,s	2
splashy	splashiest	a,s	2
starchy	starchier	a,s	2
starchy	starchiest	a,s	2
steady	steadier	a,s	2
steady	steadiest	a,s	2
stormy	stormier	a,s	2
stormy	stormiest	a,s	2
strong	stronger	a,s	2
strong	strongest	a,s	2
sturdy	sturdier	a,s	2
sturdy	sturdiest	a,s	2
tear	tore	v,v	2
tear	torn	v,v	2
thin	thinner	a,s	2
thin	thinnest	a,s	2
thirsty	thirstier	a,s	2
thirsty	thirstiest	a,s	2

thrifty	thriftier	a,s		2
thrifty	thriftiest	a,s		2
tidy	tidier	a,s		2
tidy	tidiest	a,s		2
tinny	tinnier	a,s		2
tinny	tinniest	a,s		2
true	truer	a,s		2
true	truest	a,s		2
ugly	uglier	a,s		2
ugly	ugliest	a,s		2
unfriendly	unfriendlier	a,s		2
unfriendly	unfriendliest	a,s		2
unhappy	unhappier	a,s		2
unhappy	unhappiest	a,s		2
unhealthy	unhealthier	a,s		2
unhealthy	unhealthiest	a,s		2
unholy	unholier	a,s		2
unholy	unholiest	a,s		2
wary	warier	a,s		2
wary	wariest	a,s		2
waxy	waxier	a,s		2
waxy	waxiest	a,s		2
weedy	weedier	a,s		2
weedy	weediest	a,s		2
weighty	weightier	a,s		2
weighty	weightiest	a,s		2
wet	wetter	a,s		2
wet	wettest	a,s		2
wind	wound	v,v		2
wintry	wintrier	a,s		2
wintry	wintriest	a,s		2
wiry	wirier	a,s		2
wiry	wiriest	a,s		2
woody	woodier	a,s		2
woody	woodiest	a,s		2
worldly	worldlier	a,s		2
worldly	worldliest	a,s		2
worthy	worthier	a,s		2
worthy	worthiest	a,s		2
yeasty	yeastier	a,s		2
yeasty	yeastiest	a,s		2
young	younger	a,s		2
young	youngest	a,s		2

WordNet (pronunciations)

pronunciations

pronunciations of "bow"

SELECT * FROM words INNER JOIN lexes_pronunciations USING (wordid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'bow' ORDER BY pronunciation

pronunciationid	wordid	word	luid	posid	variety	pronunciation
165	17104	bow	50486	n		baʊ
165	17104	bow	50488	v		baʊ
421	17104	bow	50487	n		bəʊ
421	17104	bow	50489	v		bəʊ

grouped pronunciations of "bow"

SELECT word,pronunciation FROM words INNER JOIN lexes_pronunciations USING (wordid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'bow' GROUP BY pronunciation ORDER BY pronunciation

word	pronunciation
bow	baʊ
bow	bəʊ

pronunciation of "bow" by sense

SELECT word,pronunciation,y.posid,sensekey,synsetid,definition FROM words AS w INNER JOIN lexes AS l USING (wordid) INNER JOIN senses AS s USING (luid) INNER JOIN synsets AS y USING (synsetid) INNER JOIN lexes_pronunciations AS lp USING (luid) LEFT JOIN pronunciations AS p USING (pronunciationid) WHERE word = 'bow' ORDER BY sensekey

word	pronunciation	posid	sensekey	synsetid	definition
bow	bəʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	baʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	bəʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	baʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	bəʊ	n	bow%1:25:00::	110012	something curved in shape
bow	baʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	baʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	bəʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow
bow	baʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down

from word "bow"

SELECT word,pronunciation, variety, sensekey, definition FROM words INNER JOIN lexes USING (wordid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'bow' ORDER BY pronunciation,sensekey

word	pronunciation	variety	sensekey	definition
bow	baʊ		bow%1:06:02::	front part of a vessel or aircraft
bow	baʊ		bow%1:10:00::	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ		bow%1:10:01::	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	baʊ		bow%2:32:00::	bend one's knee or body, or lower one's head
bow	baʊ		bow%2:32:01::	yield to another's wish or opinion
bow	baʊ		bow%2:38:00::	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ		bow%2:38:01::	bend one's back forward from the waist on down
bow	bəʊ		bow%1:04:01::	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ		bow%1:06:00::	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ		bow%1:06:01::	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	bəʊ		bow%1:06:03::	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ		bow%1:06:04::	a decorative interlacing of ribbons
bow	bəʊ		bow%1:25:00::	something curved in shape
bow	bəʊ		bow%2:36:00::	play on a stringed instrument with a bow

from word "row"

SELECT word, pronunciation, variety, sensekey, definition FROM words INNER JOIN lexes USING (wordid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'row' ORDER BY pronunciation,sensekey

word	pronunciation	variety	sensekey	definition
row	ɹaʊ		row%1:10:00::	an angry dispute
row	ɹəʊ		row%1:04:00::	the act of rowing as a sport
row	ɹəʊ		row%1:06:00::	(construction) a layer of masonry
row	ɹəʊ		row%1:07:00::	a continuous chronological succession without an interruption
row	ɹəʊ		row%1:14:00::	an arrangement of objects or people side by side in a line
row	ɹəʊ		row%1:14:01::	a linear array of numbers, letters, or symbols side by side
row	ɹəʊ		row%1:17:00::	a long continuous strip (usually running horizontally)
row	ɹəʊ		row%2:38:00::	propel with oars

from word "bass"

SELECT word, pronunciation, variety, sensekey, definition FROM words INNER JOIN lexes USING (wordid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'bass' ORDER BY pronunciation,sensekey

word	pronunciation	variety	sensekey	definition
bass	beɪs		bass%1:06:02::	the member with the lowest range of a family of musical instruments
bass	beɪs		bass%1:07:01::	the lowest part of the musical range
bass	beɪs		bass%1:10:00::	the lowest adult male singing voice
bass	beɪs		bass%1:10:01::	the lowest part in polyphonic music

bass	beɪs		bass%1:18:00::	an adult male singer with the lowest voice
bass	beɪs		bass%5:00:00:low:03	having or denoting a low vocal or instrumental range
bass	bæs		bass%1:05:00::	nontechnical name for any of numerous edible marine and freshwater spiny-finned fishes
bass	bæs		bass%1:13:01::	any of various North American freshwater fish with lean flesh (especially of the genus Micropterus)
bass	bæs		bass%1:13:02::	the lean flesh of a saltwater fish of the family Serranidae

from word "wind"

SELECT word, pronunciation, variety, sensekey, definition FROM words INNER JOIN lexes USING (wordid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'wind' ORDER BY pronunciation,sensekey

word	pronunciation	variety	sensekey	definition
wind	waɪnd		wind%1:04:00::	the act of winding or twisting
wind	waɪnd		wind%2:35:00::	coil the spring of (some mechanical device) by turning a stem
wind	waɪnd		wind%2:35:02::	form into a wreath
wind	waɪnd		wind%2:35:03::	raise or haul up with or as if with mechanical help
wind	waɪnd		wind%2:35:06::	arrange or coil around
wind	waɪnd		wind%2:38:00::	to move or cause to move in a sinuous, spiral, or circular course
wind	waɪnd		wind%2:42:00::	extend in curves and turns
wind	'wɪnd		wind%1:04:01::	breath
wind	'wɪnd		wind%1:04:02::	a reflex that expels intestinal gas through the anus
wind	'wɪnd		wind%1:06:00::	a musical instrument in which the sound is produced by an enclosed column of air that is moved by bellows or the human breath
wind	'wɪnd		wind%1:10:00::	an indication of potential opportunity
wind	'wɪnd		wind%1:10:01::	empty rhetoric or insincere or exaggerated talk
wind	'wɪnd		wind%1:19:00::	air moving (sometimes with considerable force) from an area of high pressure to an area of low pressure
wind	'wɪnd		wind%1:19:01::	a tendency or force that influences events
wind	'wɪnd		wind%2:39:00::	catch the scent of; get wind of

from word "perfect"

SELECT word, pronunciation, variety, sensekey, definition FROM words INNER JOIN lexes USING (wordid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'perfect' ORDER BY pronunciation,sensekey

word	pronunciation	variety	sensekey	definition
perfect	pə'fɛkt	GB	perfect%2:30:00::	make perfect or complete
perfect	pɚ'fɛkt	US	perfect%2:30:00::	make perfect or complete
perfect	'pɜ:.fɪkt		perfect%1:24:00::	a tense of verbs used in describing action that has been completed (sometimes regarded as perfective aspect)
perfect	'pɜ:.fɪkt		perfect%3:00:00::	being complete of its kind and without defect or blemish
perfect	'pɜ:.fɪkt	GB	perfect%5:00:00:exact:00	precisely accurate or exact
perfect	'pɜ:.fɪkt	GB	perfect%5:00:00:unmitigated:00	without qualification; used informally as (often pejorative) intensifiers
perfect	'pɜfɪkt	US	perfect%5:00:00:exact:00	precisely accurate or exact
perfect	'pɜfɪkt	US	perfect%5:00:00:unmitigated:00	without qualification; used informally as (often pejorative) intensifiers

from pronunciation "baʊ"

```
SELECT word, pronunciation, variety, sensekey, definition FROM pronunciations INNER JOIN lexes_pronunciations AS m USING (pronunciationid) INNER JOIN words
USING (wordid) INNER JOIN lexes USING (luid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) WHERE pronunciation = 'baʊ' ORDER BY
sensekey
```

word	pronunciation	variety	sensekey	definition
bough	baʊ		bough%1:20:00::	any of the larger branches of a tree
bow	baʊ		bow%1:06:02::	front part of a vessel or aircraft
bow	baʊ		bow%1:10:00::	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ		bow%1:10:01::	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	baʊ		bow%2:32:00::	bend one's knee or body, or lower one's head
bow	baʊ		bow%2:32:01::	yield to another's wish or opinion
bow	baʊ		bow%2:38:00::	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ		bow%2:38:01::	bend one's back forward from the waist on down

from pronunciation "bəʊ"

```
SELECT word, pronunciation, variety, sensekey, definition FROM pronunciations INNER JOIN lexes_pronunciations AS m USING (pronunciationid) INNER JOIN words
USING (wordid) INNER JOIN lexes USING (luid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) WHERE pronunciation = 'bəʊ' ORDER BY
sensekey
```

word	pronunciation	variety	sensekey	definition
beau	bəʊ	GB	beau%1:18:00::	a man who is the lover of a man or woman
beau	bəʊ	GB	beau%1:18:01::	a man who is much concerned with his dress and appearance
bow	bəʊ		bow%1:04:01::	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ		bow%1:06:00::	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ		bow%1:06:01::	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	bəʊ		bow%1:06:03::	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ		bow%1:06:04::	a decorative interlacing of ribbons
bow	bəʊ		bow%1:25:00::	something curved in shape
bow	bəʊ		bow%2:36:00::	play on a stringed instrument with a bow

from pronunciation "'ziːɹəʊ" or "'zɪəɹəʊ"

```
SELECT word, pronunciation, variety, sensekey, definition FROM pronunciations INNER JOIN lexes_pronunciations AS m USING (pronunciationid) INNER JOIN words
USING (wordid) INNER JOIN lexes USING (luid) INNER JOIN senses USING (luid) INNER JOIN synsets USING (synsetid) WHERE pronunciation IN ('ziːɹəʊ', ''zɪəɹəʊ')
ORDER BY sensekey
```

word	pronunciation	variety	sensekey	definition
0	'ziːɹəʊ	US	0%1:23:00::	a mathematical element that when added to another number yields the same number
0	'zɪəɹəʊ	GB	0%1:23:00::	a mathematical element that when added to another number yields the same number

group pronunciations by word

```
SELECT word,GROUP_CONCAT(pronunciation SEPARATOR ' , '),GROUP_CONCAT(variety) FROM words INNER JOIN lexes_pronunciations USING (wordid) LEFT JOIN
pronunciations USING (pronunciationid) GROUP BY word LIMIT 20
```

word	GROUP_CONCAT(pronunciation SEPARATOR ' , ')	GROUP_CONCAT(variety)
0	ˈziːɹəʊ , ˈzɪəɹəʊ	US,GB
1	wan	
1900s	naɪn.tiːn.ˈhʌn.dɹədz	
1990s	ˈnaɪn.tiːn.ˈnaɪn.tiːz , ˈnaɪn.tin.ˈnaɪn.tiz	GB,US
1st	fɝst , fɜːst	US,GB
9/11	naɪn.əˈlɛvən	
a	eɪ̯ , eɪ̯	
a capella	ˌækəˈpɛlə , ˌækəˈpɛlə	
a cappella	ˌæ.kəˈpɛl.ə , ˌɑ kəˈpɛl.ə , ˌæ.kəˈpɛl.ə , ˌɑ kəˈpɛl.ə	GB,US,GB,US
a fortiori	ˈeɪ fɔɹˈjɔ·ɹaɪ	US
a lot	əˈlɒt , əˈlɑt	GB,US
aa	ˈɑː.ʔɑː , ˈɑ.ʔɑ , ˈɑː.ʔɑː , ˈɑ.ʔɑ	GB,US,GB,US
aalii	ɑːˈliːiː , ɑˈliˌi	GB,US
aar	ɑɹ , ɑːɹ	US,GB
aardvark	ˈɑːd.vɑːk , ˈɑɹd.vɑɹk	GB,US
aardwolf	ˈɑːd,wʊlf , ˈɑɹd.,wʊlf	GB,US
aare	ˈɑ.ɹə , ˈɑː.ɹə	US,GB
aaron	ˈɛɹ.ən , ˈæɹ.ən	US,GB
aaron's rod	ˈɜː.ɹ.ənz ɹɒd , ˈæɹ.ənz ɹɒd	GB,US
ab	æb , æb , æb	

words having several distinct standard pronunciations

SELECT word,GROUP_CONCAT(DISTINCT pronunciation SEPARATOR ' , '),GROUP_CONCAT(variety) FROM words INNER JOIN lexes_pronunciations USING (wordid)
LEFT JOIN pronunciations USING (pronunciationid) WHERE variety IS NULL GROUP BY word HAVING COUNT(DISTINCT pronunciation) > 1 LIMIT 20

word	GROUP_CONCAT(DISTINCT pronunciation SEPARATOR ' , ')	GROUP_CONCAT(variety)
advert	ədˈvɜː(ɹ)t , ˈædvɜː(ɹ)t	
affect	əˈfɛkt , ˈæ.fɛkt	
agape	əˈgeɪp , əˈgɑːpeɪ	
agora	ˈæ.gə.ɹə , ˌæg.əˈɹɑː	
alloy	əˈlɔɪ , ˈæ.lɔɪ	
alum	əˈlʌm , ˈæl.əm	
bass	beɪs , bæs	
birr	bɜː , bɪə	
bow	baʊ , bəʊ	
bowed	baʊd , boʊd	
brachiate	ˈbɹækɪeɪt , ˈbɹækɪət	
brat	bɹat , bɹɑt	
buffet	ˈbʊfeɪ , ˈbʌfɪt	
chela	ˈkilə , ˈt͡ʃei.lə	
chi	kaɪ , tʃiː	
chichi	ˈtʃi.tʃi , ˈʃi.ʃi	

cleanly	ˈkliːnli , ˈklɛnli	
commune	kəˈmjuːn , ˈkɒmjuːn	
concord	kənˈkɔɹd , ˈkɒn.kɔɹd	
content	kənˈtɛnt , ˈkɒn.tɛnt	

words having several distinct local pronunciations

```
SELECT word,GROUP_CONCAT(DISTINCT CONCAT(pronunciation,' [',variety,']') SEPARATOR ' , ') FROM words INNER JOIN lexes_pronunciations USING (wordid) LEFT JOIN pronunciations USING (pronunciationid) WHERE variety IS NOT NULL GROUP BY word HAVING COUNT(DISTINCT CONCAT(pronunciation, '@',variety)) > 1 LIMIT 20
```

word	GROUP_CONCAT(DISTINCT CONCAT(pronunciation,' [',variety,']') SEPARATOR ' , ')
0	ˈziːɹəʊ [US] , ˈzɪəɹəʊ [GB]
1990s	ˈnaɪn.tin.ˈnaɪn.tiz [US] , ˈnaɪn.tiːn.ˈnaɪn.tiːz [GB]
1st	fɜːst [GB] , fɝst [US]
a cappella	ˌæ.kəˈpɛl.ə [GB] , ˌɑ kəˈpɛl.ə [US]
a lot	əˈlɑt [US] , əˈlɒt [GB]
aa	ˈɑ.ʔɑ [US] , ˈɑː.ʔɑː [GB]
aalii	ɑˈli,i [US] , ɑːˈliːi [GB]
aar	ɑɹ [US] , ɑːɹ [GB]
aardvark	ˈɑɹd.vɑɹk [US] , ˈɑːd.vɑːk [GB]
aardwolf	ˈɑɹd.ˌwʊlf [US] , ˈɑːd.ˌwʊlf [GB]
aare	ˈɑ.ɹə [US] , ˈɑː.ɹə [GB]
aaron	ˈæ.ɹ.ən [GB] , ˈɛ.ɹ.ən [US]
aaron's rod	ˈæ.ɹ.ənz ɹɑd [US] , ˈɜː.ɹ.ənz ɹɒd [GB]
abaca	ˌæb.əˈkɑ [GB] , ˌæb.əˈkɑ [US]
abaft	əˈbæft [GB] , əˈbæft [US]
abalone	æb.əˈloʊ.ni [US] , æb.əˈləʊ.ni [GB]
abampere	æˈbæmpɪə [GB] , æˈbæmpɪɹ [US]
abandoned	əˈbæn.dn̩d [GB] , əˈbæn.dn̩d [US]
abandonment	əˈbæn.dn̩.mn̩t [GB] , əˈbæn.dn̩.mn̩t [US]
abash	əˈbæʃ [GB] , əˈbæʃ [US]

WordNet (legacy)

legacy

```
SELECT word,posid,sensekey,synsetid,definition FROM words INNER JOIN senses USING(wordid) INNER JOIN synsets USING (synsetid) WHERE word = 'bow' ORDER BY sensekey
```

word	posid	sensekey	synsetid	definition
bow	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow

bow	n	bow%1:06:02::49202	front part of a vessel or aircraft
bow	n	bow%1:06:03::49205	a knot with two loops and loose ends; used to tie shoelaces
bow	n	bow%1:06:04::49206	a decorative interlacing of ribbons
bow	n	bow%1:10:00::74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	n	bow%1:10:01::74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	n	bow%1:25:00::110012	something curved in shape
bow	v	bow%2:32:00::17461	bend one's knee or body, or lower one's head
bow	v	bow%2:32:01::17132	yield to another's wish or opinion
bow	v	bow%2:36:00::30578	play on a stringed instrument with a bow
bow	v	bow%2:38:00::35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	v	bow%2:38:01::35906	bend one's back forward from the waist on down

NEW QUERY

`SELECT word,l.posid,sensekey,synsetid,definition FROM words AS w INNER JOIN lexes AS l USING (wordid) INNER JOIN senses AS s USING (luid) INNER JOIN synsets AS y USING (synsetid) WHERE word = 'bow' ORDER BY sensekey`

word	posid	sensekey	synsetid	definition
bow	n	bow%1:04:01::12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	n	bow%1:06:00::49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	n	bow%1:06:01::49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	n	bow%1:06:02::49202	front part of a vessel or aircraft
bow	n	bow%1:06:03::49205	a knot with two loops and loose ends; used to tie shoelaces
bow	n	bow%1:06:04::49206	a decorative interlacing of ribbons
bow	n	bow%1:10:00::74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	n	bow%1:10:01::74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	n	bow%1:25:00::110012	something curved in shape
bow	v	bow%2:32:00::17461	bend one's knee or body, or lower one's head
bow	v	bow%2:32:01::17132	yield to another's wish or opinion
bow	v	bow%2:36:00::30578	play on a stringed instrument with a bow
bow	v	bow%2:38:00::35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	v	bow%2:38:01::35906	bend one's back forward from the waist on down

ERRONEOUS QUERY

`SELECT word,pronunciation,y.posid,sensekey,synsetid,definition FROM words AS w INNER JOIN senses AS s USING(wordid) INNER JOIN synsets AS y USING (synsetid) INNER JOIN lexes_pronunciations AS sp USING (wordid) LEFT JOIN pronunciations AS p USING (pronunciationid) WHERE word = 'bow' ORDER BY sensekey`

word	pronunciation	posid	sensekey	synsetid	definition
bow	bəʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	baʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	baʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	baʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments

bow	baʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	baʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	baʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	bəʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	bəʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	baʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	baʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	bəʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	bəʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	baʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	baʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	baʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	baʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	bəʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	bəʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	bəʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	bəʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	baʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	baʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	bəʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	bəʊ	n	bow%1:25:00::	110012	something curved in shape
bow	baʊ	n	bow%1:25:00::	110012	something curved in shape
bow	baʊ	n	bow%1:25:00::	110012	something curved in shape
bow	bəʊ	n	bow%1:25:00::	110012	something curved in shape
bow	bəʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	baʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	baʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	bəʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	bəʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	baʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	baʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	bəʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	bəʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow
bow	baʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow
bow	baʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow

bow	bəʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow
bow	bəʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	bəʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	bəʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down
bow	baʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down
bow	baʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down
bow	bəʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down

CORRECT QUERY

```
SELECT word,pronunciation,y.posid,sensekey,synsetid,definition FROM words INNER JOIN lexes AS l USING (wordid) INNER JOIN senses AS s USING (luid) INNER JOIN synsets AS y USING (synsetid) INNER JOIN lexes_pronunciations USING (luid) LEFT JOIN pronunciations USING (pronunciationid) WHERE word = 'bow' ORDER BY sensekey
```

word	pronunciation	posid	sensekey	synsetid	definition
bow	bəʊ	n	bow%1:04:01::	12109	a stroke with a curved piece of wood with taut horsehair strands that is used in playing stringed instruments
bow	bəʊ	n	bow%1:06:00::	49197	a slightly curved piece of resilient wood with taut horsehair strands; used in playing certain stringed instruments
bow	bəʊ	n	bow%1:06:01::	49199	a weapon for shooting arrows, composed of a curved piece of resilient wood with a taut cord to propel the arrow
bow	baʊ	n	bow%1:06:02::	49202	front part of a vessel or aircraft
bow	bəʊ	n	bow%1:06:03::	49205	a knot with two loops and loose ends; used to tie shoelaces
bow	bəʊ	n	bow%1:06:04::	49206	a decorative interlacing of ribbons
bow	baʊ	n	bow%1:10:00::	74714	an appearance by actors or performers at the end of the concert or play in order to acknowledge the applause of the audience
bow	baʊ	n	bow%1:10:01::	74975	bending the head or body or knee as a sign of reverence or submission or shame or greeting
bow	bəʊ	n	bow%1:25:00::	110012	something curved in shape
bow	baʊ	v	bow%2:32:00::	17461	bend one's knee or body, or lower one's head
bow	baʊ	v	bow%2:32:01::	17132	yield to another's wish or opinion
bow	bəʊ	v	bow%2:36:00::	30578	play on a stringed instrument with a bow
bow	baʊ	v	bow%2:38:00::	35519	bend the head or the upper part of the body in a gesture of respect or greeting
bow	baʊ	v	bow%2:38:01::	35906	bend one's back forward from the waist on down

WordNet (verb frames/templates)

verb frames

get verb frames for "snow"

```
SELECT word,frame,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vframes INNER JOIN vframes USING (frameid) INNER JOIN words USING (wordid) INNER JOIN synsets USING (synsetid) WHERE word = 'snow'
```

word	frame	SUBSTRING(definition FROM 1 FOR 32)
snow	Somebody ----s somebody	conceal one's true motives from
snow	It is ----ing	fall as snow

get verb template for "rain"

```
SELECT word,template,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vtemplates LEFT JOIN vtemplates USING (templateid) INNER JOIN words USING (wordid)
INNER JOIN synsets USING (synsetid) WHERE word = 'rain'
```

word	template	SUBSTRING(definition FROM 1 FOR 32)
rain	It was %sing all day long	precipitate as rain

get verb frames for "clean"

```
SELECT word,frame,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vframes INNER JOIN vframes USING (frameid) RIGHT JOIN words USING (wordid) RIGHT
JOIN synsets USING (synsetid) WHERE word = 'clean' ORDER BY synsetid
```

word	frame	SUBSTRING(definition FROM 1 FOR 32)
clean	Somebody ----s somebody	clean one's body or parts thereo
clean	Somebody ----s something	clean one's body or parts thereo
clean	Somebody ----s	clean one's body or parts thereo
clean	Somebody ----s something	remove unwanted substances from,
clean	Somebody ----s something	remove shells or husks from
clean	Somebody ----s something	remove unwanted substances from
clean	Something ----s something	remove unwanted substances from
clean	Somebody ----s something PP	remove while making clean
clean	Somebody ----s something	make clean by removing dirt, fil
clean	Something ----s something	make clean by removing dirt, fil
clean	Somebody ----s	clean and tidy up the house
clean	Somebody ----s PP	remove all contents or possessio
clean	Somebody ----s somebody of something	remove all contents or possessio
clean	Somebody ----s something	remove all contents or possessio
clean	Something ----s something	remove all contents or possessio
clean	Somebody ----s somebody	deprive wholly of money in a gam
clean	Something ----s	be cleanable
clean	Something is ----ing PP	be cleanable

get verb template for "clean"

```
SELECT word,template,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vtemplates LEFT JOIN vtemplates USING (templateid) RIGHT JOIN words USING (wordid)
RIGHT JOIN synsets USING (synsetid) WHERE word = 'clean' ORDER BY synsetid
```

word	template	SUBSTRING(definition FROM 1 FOR 32)
clean	They %s themselves	clean one's body or parts thereo
clean	The chefs %s the vegetables	remove shells or husks from
clean	They %s the snow from the path	remove while making clean
clean	They %s the cape	make clean by removing dirt, fil

get verb frames for "write"

```
SELECT word,frame,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vframes INNER JOIN vframes USING (frameid) RIGHT JOIN words USING (wordid) RIGHT
JOIN synsets USING (synsetid) WHERE word = 'write' ORDER BY synsetid
```

word	frame	SUBSTRING(definition FROM 1 FOR 32)
write	Somebody ----s	communicate or express by writin
write	Somebody ----s that CLAUSE	communicate or express by writin
write	Somebody ----s somebody	communicate or express by writin
write	Somebody ----s something	communicate or express by writin
write	Somebody ----s something to somebody	communicate or express by writin
write	Somebody ----s somebody something	communicate or express by writin
write	Somebody ----s something	record data on a computer
write	Something ----s something	record data on a computer
write	Somebody ----s to somebody	communicate (with) in writing
write	Somebody ----s somebody	communicate (with) in writing
write	Somebody ----s	mark or trace words or symbols o
write	Somebody ----s something	mark or trace words or symbols o
write	Somebody ----s something	create code, write a computer pr
write	Somebody ----s something	produce a literary work
write	Somebody ----s something	write or name the letters that c
write	Somebody ----s	write music
write	Somebody ----s something	write music

get example template for "write"

```
SELECT word,template,SUBSTRING(definition FROM 1 FOR 32) FROM senses_vtemplates LEFT JOIN vtemplates USING (templateid) RIGHT JOIN words USING (wordid)
RIGHT JOIN synsets USING (synsetid) WHERE word = 'write' ORDER BY synsetid
```

word	template	SUBSTRING(definition FROM 1 FOR 32)
write	They %s them the information	communicate or express by writin
write	They %s the information to them	communicate or express by writin
write	Sam and Sue %s the movie	produce a literary work
write	Did he %s his major works over a short period of time?	write music

get verb frames and example template grouped by synset for "write"

```
SELECT word,SUBSTRING(definition FROM 1 FOR 32),SUBSTRING(GROUP_CONCAT(frame) FROM 1 FOR 70),SUBSTRING(GROUP_CONCAT(template) FROM 1 FOR
32) FROM senses_vframes INNER JOIN vframes USING (frameid) LEFT JOIN senses_vtemplates USING (synsetid,wordid) LEFT JOIN vtemplates USING (templateid)
RIGHT JOIN words USING (wordid) RIGHT JOIN synsets USING (synsetid) WHERE word = 'write' GROUP BY synsetid ORDER BY synsetid
```

word	SUBSTRING(definition FROM 1 FOR 32)	SUBSTRING(GROUP_CONCAT(frame) FROM 1 FOR 70)	SUBSTRING(GROUP_CONCAT(template) FROM 1 FOR 32)
write	communicate or express by writin	Somebody ----s somebody something,Somebody ----s something to somebody	They %s the information to them,
write	record data on a computer	Somebody ----s something,Something ----s something	
write	communicate (with) in writing	Somebody ----s to somebody,Somebody ----s somebody	
write	mark or trace words or symbols o	Somebody ----s,Somebody ----s something	
write	create code, write a computer pr	Somebody ----s something	

write	produce a literary work	Somebody ----s something	Sam and Sue %s the movie
write	write or name the letters that c	Somebody ----s something	
write	write music	Somebody ----s,Somebody ----s something	Did he %s his major works over a

verb frames matching n senses

```
SELECT frameid,frame,COUNT(*) AS N FROM senses INNER JOIN senses_vframes USING (wordid,synsetid) INNER JOIN vframes USING (frameid) LEFT JOIN words
USING (wordid) LEFT JOIN synsets USING (synsetid) GROUP BY frameid ORDER BY N DESC
```

frameid	frame	N
8	Somebody ----s something	13233
2	Somebody ----s	5152
9	Somebody ----s somebody	5079
11	Something ----s something	4897
1	Something ----s	3608
22	Somebody ----s PP	2219
10	Something ----s somebody	2127
4	Something is ----ing PP	1058
21	Somebody ----s something PP	1023
26	Somebody ----s that CLAUSE	676
20	Somebody ----s somebody PP	475
15	Somebody ----s something to somebody	386
14	Somebody ----s somebody something	202
24	Somebody ----s somebody to INFINITIVE	198
28	Somebody ----s to INFINITIVE	190
16	Somebody ----s something from somebody	152
17	Somebody ----s somebody with something	124
33	Somebody ----s VERB-ing	111
31	Somebody ----s something with something	104
6	Something ----s Adjective/Noun	69
7	Somebody ----s Adjective	67
27	Somebody ----s to somebody	64
13	Somebody ----s on something	57
18	Somebody ----s somebody of something	57
5	Something ----s something Adjective/Noun	54
29	Somebody ----s whether INFINITIVE	51
3	It is ----ing	43
34	It ----s that CLAUSE	42
30	Somebody ----s somebody into V-ing something	37
23	Somebody's (body part) ----s	35
19	Somebody ----s something on somebody	34
12	Something ----s to somebody	25
25	Somebody ----s somebody INFINITIVE	19
32	Somebody ----s INFINITIVE	9
35	Something ----s INFINITIVE	5

37	Somebody ----s for something	1
38	Somebody ----s on somebody	1
36	Somebody ----s at something	1
39	Somebody ----s out of somebody	1

sense matching n verb frames

SELECT sensekey,definition,COUNT(*) AS N FROM senses INNER JOIN senses_vframes USING (wordid,synsetid) INNER JOIN vframes USING (frameid) LEFT JOIN words USING (wordid) LEFT JOIN synsets USING (synsetid) GROUP BY sensekey,definition,senseid ORDER BY N DESC LIMIT 20

sensekey	definition	N
prepare%2:30:00::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	8
gear_up%2:30:00::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	8
attract%2:35:00::	direct toward itself or oneself by means of some psychological power or physical attributes	7
repulse%2:35:00::	cause to move back by force or influence	7
draw_in%2:35:00::	direct toward itself or oneself by means of some psychological power or physical attributes	7
force_back%2:35:00::	cause to move back by force or influence	7
beat_back%2:35:00::	cause to move back by force or influence	7
ready%2:30:00::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	7
set%2:30:09::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	7
take_hold%2:35:00::	have or hold in one's hands or grip	7
push_back%2:35:00::	cause to move back by force or influence	7
fix%2:30:03::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	7
pull%2:35:02::	direct toward itself or oneself by means of some psychological power or physical attributes	7
set_up%2:30:02::	make ready or suitable or equip in advance for a particular purpose or for some use, event, etc	7
drive%2:35:11::	cause to move back by force or influence	7
draw%2:35:06::	direct toward itself or oneself by means of some psychological power or physical attributes	7
repel%2:35:00::	cause to move back by force or influence	7
teach%2:32:00::	impart skills or knowledge to	7
pull_in%2:35:00::	direct toward itself or oneself by means of some psychological power or physical attributes	7
pass%2:38:05::	move past	6

verb frames for "prepare"

SELECT word,synsetid,frame,SUBSTRING(definition FROM 1 FOR 32) FROM senses INNER JOIN senses_vframes USING (wordid,synsetid) INNER JOIN vframes USING (frameid) LEFT JOIN words USING (wordid) LEFT JOIN synsets USING (synsetid) WHERE word = 'prepare'

word	synsetid	frame	SUBSTRING(definition FROM 1 FOR 32)
prepare	9037	Somebody ----s	make ready or suitable or equip
prepare	9037	Somebody ----s to INFINITIVE	make ready or suitable or equip
prepare	9037	Somebody ----s somebody	make ready or suitable or equip
prepare	9037	Somebody ----s somebody PP	make ready or suitable or equip
prepare	9037	Somebody ----s something	make ready or suitable or equip
prepare	9037	Somebody ----s something PP	make ready or suitable or equip

prepare	9037	Something ----s somebody	make ready or suitable or equip
prepare	9037	Something ----s something	make ready or suitable or equip
prepare	13002	Somebody ----s to somebody	undergo training or instruction
prepare	13009	Somebody ----s somebody	create by training and teaching
prepare	29339	Somebody ----s something	arrange by systematic planning a
prepare	29530	Somebody ----s something	prepare for eating by applying h
prepare	30989	Somebody ----s something	to prepare verbally, either for
prepare	37867	Somebody ----s something	lead up to and soften by soundin
prepare	41352	Somebody ----s somebody	educate for a future role or fun

WordNet (cardinality)

general

synset having N words (1..28)

```
SELECT MIN(N),MAX(N) FROM ( SELECT COUNT(wordid) AS N FROM synsets LEFT JOIN senses USING(synsetid) GROUP BY synsetid) AS C
```

MIN(N)	MAX(N)
1	28

word having N synset (1..75)

```
SELECT MIN(N),MAX(N) FROM ( SELECT COUNT(synsetid) AS N FROM words LEFT JOIN senses USING(wordid) GROUP BY wordid) AS C
```

MIN(N)	MAX(N)
1	75

morphology

morph having N words (1..3)

```
SELECT MIN(N),MAX(N) FROM ( SELECT COUNT(wordid) AS N FROM morphs LEFT JOIN lexes_morphs USING(morphid) GROUP BY morphid) AS C
```

MIN(N)	MAX(N)
1	5

word having N morphs (0..7)

```
SELECT MIN(N),MAX(N) FROM ( SELECT COUNT(morphid) AS N FROM words LEFT JOIN lexes_morphs USING(wordid) GROUP BY wordid) AS C
```

MIN(N)	MAX(N)
0	9

verb frames

sense having N vframes (0..8)

SELECT MIN(N),MAX(N) FROM (SELECT COUNT(frameid) AS N FROM senses LEFT JOIN senses_vframes USING(wordid,synsetid) GROUP BY synsetid,wordid) AS C

MIN(N)	MAX(N)
0	8

vframe having N senses (1..801)

SELECT MIN(N),MAX(N) FROM (SELECT COUNT(CONCAT(wordid,synsetid)) AS N FROM vframes LEFT JOIN senses_vframes USING(frameid) GROUP BY frameid) AS C

MIN(N)	MAX(N)
1	13233

verbframe sentences

sense having N vtemplates (0..8)

SELECT MIN(N),MAX(N) FROM (SELECT COUNT(templateid) AS N FROM senses LEFT JOIN senses_vtemplates USING(wordid,synsetid) GROUP BY synsetid,wordid) AS C

MIN(N)	MAX(N)
0	4

vtemplates having N senses (1..801)

SELECT MIN(N),MAX(N) FROM (SELECT COUNT(CONCAT(wordid,synsetid)) AS N FROM vtemplates LEFT JOIN senses_vtemplates USING(templateid) GROUP BY templateid) AS C

MIN(N)	MAX(N)
0	295