A MAXIMAL SPANNING TREE

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The five-letter word network given below is partitioned into 27 subnetworks, each having a unique vowel-consonant pattern (Y in first position is deemed a consonant, otherwise a vowel). All words are in the Official Scrabble Players Dictionary; each subnetwork lists the total OSPD words in it. The network is a tree; there are no closed cycles. Since two subnetworks (one with CRWTH and PHPHT. the other with SCHMO and SCHWA) are unlinkable with the others, and three (vvvvv, vvvvc, vvvcv) are empty, the 27 that are left comprise a maximal spanning tree. No doubt a computer can be programmed to find one using fewer total words!

100payer14payee					
		layer	1116curse231curie		
				curve	
3anķhs				curvy	
		2101later	871curls-	curly	12ourie
		mater	carls		
368ankes		mates	marls-	19earls-	13early
antes			marts		
anted		mires	tarts		
acted		sires	torts-	647toots	
	66aired-	sired		boots-	-296booty
ached				boors	
ashed			11chiao	doors	
ashes		48shred		doers	
asses	58atria		1430chino	dyers	
arses		strew			
arsis		strep			
arris	11stria-		874chink	6eyers	
arras		strop	think		
			thank		
1			shank		
110arias		420stoop			
areas		scoop	shirk		
		scoot	shirt	42angle	
<u> </u>		shoot.	short		
4areae			sport		
				192anole	
				anode	
			183aport	abode	
abortabove					