## **Inverted Index Example**

Suppose we have a posting list with 4 entries:

[ { docld = 1, freq = 3}, { docld = 258, freq = 4}, { docld = 4,294,967,038, freq = 16,777,215 } ]

## **Group Varint encoding format**

Simplified view of dictionary:

(between 5 and 17 bytes used for every 4 digits/every 2 posting list elements)

Posting Pointers	Freq	More columns
		•••
	4	
	ij	

Length Byte of the form:	$L_1$ bytes	$L_2$ bytes	$L_3$ bytes	$L_4$ bytes	
of the form: $L_1L_2L_3L_4$	Number 1	Number 2	Number 3	Number 4	

Where  $L_i$  is 2 bits, representing length of integer(betwen 1 and 4 bytes)

Postings file: Num (1B) Num (1B) Num (1B) Num (2B) Num (1B) Num (1B) 11100000 00010000 257 1 Num (4B) Num (3B) Num (1B) Num (1B) 4,294,966,780 16,777,215