## **Inverted Index Example** Suppose we have a posting list with 3 entries: $[ \{ docld = 1, freq = 3 \}, \{ docld = 258, freq = 4 \}, \{ docld = 4,294,967,038, \}$ freq = 16,777,215 } ] Simplified view of dictionary: Length Byte Posting More Freq **Pointers** columns... of the form: $L_1$ bytes Number 1 $L_1L_2L_3L_4$ ... ... ... 3 bytes)

Postings file:

**Group Varint encoding format** (between 5 and 17 bytes used for every 4 digits/every 2 posting list elements)  $L_2$  bytes  $L_3$  bytes  $L_4$  bytes Number 2 Number 3 Number 4 Where  $L_i$  is 2 bits, representing length of integer(betwen 1 and 4 Num (1B) Num (1B) Num (2B) Num (1B) Num (1B) Num (1B) 00010000 11100000 1 3 257 4 Num (4B) Num (3B) Num (1B) Num (1B) 4,294,966,780 16,777,215