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query	BI / read / 1
title	Posting summary
pattern	message: Message creationDate < \$date length year(creationDate)
desc.	Given a date, find all <i>Messages</i> created before that date. Group them by a 3-level grouping: 1. by year of creation 2. for each year, group into <i>Message</i> types (<i>Posts</i> or <i>Comments</i>) 3. for each year-type group, split into four groups based on length of their content 1. 0 <= length < 40: short 2. 40 <= length < 80: one liner 3. 80 <= length < 160: tweet 4. 160 <= length: long
params	1 date Date
	1 messageYear 32-bit Integer R Year of the Message
result	2 messageType String M post/comment (in lowercase)
	3 lengthCategory String C short/one-liner/tweet/long (in lowercase)
	4 messageCount 32-bit Integer A Total number of Messages (Posts/Comments) in that group
	averageMessageLength 32-bit Integer A Average length of the Message content in that group
	6 sumMessageLength 32-bit Integer A Sum of all Message content lengths
	7 percentageOfMessages 32-bit Float A Number of Messages in group as a percentage of all messages created before the given date
	1 year ↓
sort	2 messageType \(\frac{1}{2}\) first <i>Posts</i> , then <i>Comments</i>
	3 lengthCategory ↑ order based on the length of the category, short, one liner, etc.
CPs	1.2, 3.2, 4.1