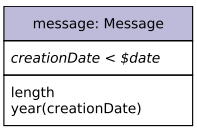
BI / read / 1

BI 1	query	BI / read / 1
BI 2	title	Posting summary
BI 3	pattern	
BI 4	desc.	Given a date, find all Messages created before that date. Group them by a 3-level grouping: 1. by year of creation 2. for each year, group into Message types: is Comment or not 3. for each year-type group, split into four groups based on length of their content • `0`: 0 <= length < 40 (short) • `1`: 40 <= length < 80 (one liner) • `2`: 80 <= length < 160 (tweet) • `3`: 160 <= length (long)
BI 5	params	1 `date` Date
BI 6	result	1 `year` 32-bit Integer R `year(message.creationDate)` 2 `isComment` Boolean M `true` for Comments, `false` for Posts 3 `lengthCategory` String C `0` for short, `1` for one-liner, `2` for tweet, `3` for long 4 `messageCount` 32-bit Integer A Total number of Messages in that group 5 `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
BI 7	sort	1 `year` ↓ 2 `isComment` ↑ `false` < `true`, i.e. the ordering puts Posts first, and Comments second 3 `lengthCategory` ↑ order based on the length of the category, `0` (short), `1` (one liner), etc.
BI 8	CPs	1.2, 3.2, 4.1, 8.5
BI 9		
BI 10		
BI 11		
BI 12		
BI 13		
BI 14		
BI 15		
BI 16		
BI 17		
BI 18		
BI 19		
BI 20		
BI 21		
BI 22		
BI 23		
BI 24		
BI 25		