

BI / read / 1

BI 1	query	BI / read / 1			
BI 2	title	Posting summary			
BI 3	pattern	<div> <div>message: Message</div> <div>creationDate < \$datetime</div> <div>length year(creationDate)</div> </div>			
BI 4					
BI 5					
BI 6					
BI 7	description	Given a \$datetime, find all Messages created before that moment. Group them by a 3-level grouping:			
BI 8		1. by year of creation			
BI 9		2. for each year, group into Message types: is Comment or not			
BI 10		3. for each year-type group, split into four groups based on length of their content			
BI 11		<ul style="list-style-type: none"> 0: $0 \leq \text{length} < 40$ (short) 			
BI 12		<ul style="list-style-type: none"> 1: $40 \leq \text{length} < 80$ (one liner) 			
BI 13		<ul style="list-style-type: none"> 2: $80 \leq \text{length} < 160$ (tweet) 			
BI 14		<ul style="list-style-type: none"> 3: $160 \leq \text{length}$ (long) 			
BI 15					
BI 16					
BI 17	params	1	\$datetime	DateTime	
BI 18					
BI 19	result	1	year	32-bit Integer	R
BI 20		2	isComment	Boolean	M
		3	lengthCategory	32-bit Integer	C
		4	messageCount	64-bit Integer	A
		5	averageMessageLength	32-bit Float	A
		6	sumMessageLength	64-bit Integer	A
		7	percentageOfMessages	32-bit Float	A
	sort	1	year	↓	
		2	isComment	↑	False < True, i.e. Posts come first and Comments second
		3	lengthCategory	↑	
	limit	n/a			
	CPs	1.2, 3.2, 4.1, 4.2, 8.5			