

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					
BI 8	desc.	Given a datetime, find all Messages created before that moment. Group them by a 3-level grouping:			
BI 9					
BI 10					
BI 11					
BI 12					
BI 13					
BI 14					
BI 15					
BI 16					
BI 17					
BI 18	params	1	datetime	DateTime	For later microbatches, later datetime parameters are selected keep the variance low (<0.5%)
BI 20					
result	1	year	32-bit Integer	R	year(message.creationDate)
	2	isComment	Boolean	M	True for Comments, False for Posts
	3	lengthCategory	32-bit Integer	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
sort	1	year	↓		
	2	isComment	↑	False < True, i.e. Posts come first and Comments second	
	3	lengthCategory	↑	order based on the lengthCategory value	
CPs	1.2, 3.2, 4.1, 4.2, 8.5				