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query	BI / read / 1				
title	Posting summary				
pattern	<div><div>message: Message</div><div>creationDate < \$datetime</div><div>length year(creationDate)</div></div>				
desc.	<p>Given a datetime, find all Messages created before that moment. Group them by a 3-level grouping:</p> <ol style="list-style-type: none">by year of creationfor each year, group into Message types: is Comment or notfor each year-type group, split into four groups based on length of their content<ul style="list-style-type: none">0: $0 \leq \text{length} < 40$ (short)1: $40 \leq \text{length} < 80$ (one liner)2: $80 \leq \text{length} < 160$ (tweet)3: $160 \leq \text{length}$ (long)				
params	<div>1datetimeDateTime</div>	For later microbatches, later datetime parameters are selected keep the variance low (<0.5%)			
result	<div>1year</div>	32-bit Integer	R	year(message.creationDate)	
	<div>2isComment</div>	Boolean	M	True for Comments, False for Posts	
	<div>3lengthCategory</div>	32-bit Integer	C	0 for short, 1 for one-liner, 2 for tweet, 3 for long	
	<div>4messageCount</div>	32-bit Integer	A	Total number of Messages in that group	
	<div>5averageMessageLength</div>	32-bit Float	A	Average length of the Message content in that group	
	<div>6sumMessageLength</div>	32-bit Integer	A	Sum of all Message content lengths	
	<div>7percentageOfMessages</div>	32-bit Float	A	Number of Messages in group as a percentage of all messages created before the given date	
sort	<div>1year</div>	↓			
	<div>2isComment</div>	↑	False < True, i.e. Posts come first and Comments second		
	<div>3lengthCategory</div>	↑	order based on the lengthCategory value		
limit	n/a				
CPs	1.2, 3.2, 4.1, 4.2, 8.5				