## BI / read / 1

BI 1	query	BI / read / 1
BI 2	title	Posting summary
BI 3		message: Message
BI 4	nattorn	creationDate < \$dateTime
BI 5	pattern	length
BI 6		year(creationDate)
BI 8		Given a datetime, find all Messages created before that moment. Group them by a 3-level group-
BI 9		ing:
BI 10		1. by year of creation
BI 11		2. for each year, group into Message types: is Comment or not
BI 12		3. for each year-type group, split into four groups based on length of their content
BI 13	desc.	
BI 14		• 0: 0 ≤ length < 40 (short)
BI 15		• 1: $40 \le \text{length} < 80$ (one liner)
BI 16		<ul> <li>2: 80 ≤ length &lt; 160 (tweet)</li> <li>3: 160 ≤ length (long)</li> </ul>
BI 17 BI 18		5. 100 \(\sigma\) length (long)
BI 19		English and the latest and the second and the secon
BI 20	params	1 datetime DateTime For later microbatches, later datetime parameters are selected keep the variance low (<0.5%)
	•	selected keep the variance low (<0.5%)
		1 year 32-bit Integer R year(message.creationDate)
		2 isComment Boolean M True for Comments, False for Posts
		22 hit latered 0 of for short, 1 for one-liner, 2 for tweet, 3 for
		3 lengthCategory 32-bit Integer C long
		4 messageCount 32-bit Integer A Total number of Messages in that group
	result	averageMessageLength 32-bit Float A Average length of the Message content in
		that group
		6 sumMessageLength 32-bit Integer A Sum of all Message content lengths
		Number of Messages in group as a
		7 percentageOfMessages 32-bit Float A percentage of all messages created before
		the given date
		1 year
	_	2 isComment ↑ False < True, i.e. Posts come first and Comments second
	sort	
		3 lengthCategory   ↑ order based on the lengthCategory value
	limit	n/a
	CPs	1.2, 3.2, 4.1, 4.2, 8.5