BI / read / 1

BI 1	query	BI / read / 1
BI 2	title	Posting summary
BI 3		message: Message
BI 4		creationDate < \$datetime
BI 5	pattern	length
BI 6		year(creationDate)
BI 7		Given a datetime, find all Messages created before that moment. Group them by a 3-level group-
BI 9		ing:
BI 10		
BI 10		1. by year of creation
BI 12		2. for each year, group into Message types: is Comment or not
BI 13	desc.	3. for each year-type group, split into four groups based on length of their content
BI 14		• 0: 0 ≤ length < 40 (short)
BI 15		• 1: 40 ≤ length < 80 (one liner)
BI 16		• 2: 80 ≤ length < 160 (tweet)
BI 17		• 3: 160 ≤ length (long)
BI 18		
BI 19		For later microbatches, later datetime parameters are
BI 20	params	datetime DateTime DateTime DateTime Selected keep the variance low (<0.5%)
		selected neep the variance form (voice to)
		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
		1 long
		4 messageCount 32-bit Integer A Total number of Messages in that group
	result	5 averageMessageLength 32-bit Float A Average length of the Message content in
		averageMessageLength 32-bit Float A 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
	sort	1 year ↓
		2 isComment ↑ False < True, i.e. Posts come first and Comments second
		3 lengthCategory ↑ order based on the lengthCategory value
	limit	n/a
	CPs	1.2, 3.2, 4.1, 4.2, 8.5
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