BI / read / 1

BI 1	query	BI / read / 1
BI 2	title	Posting summary
BI 3 BI 4 BI 5 BI 6 BI 7 BI 8 BI 9 BI 10 BI 11 BI 12 BI 13 BI 14 BI 15 BI 16 BI 17 BI 18	pattern	message: Message creationDate < \$dateTime length year(creationDate)
	desc.	Given a datetime, find all Messages created before that moment. Group them by a 3-level grouping: 1. by year of creation 2. for each year, group into Message types: is Comment or not 3. for each year-type group, split into four groups based on length of their content • ∅: 0 ≤ length < 40 (short) • 1: 40 ≤ length < 80 (one liner) • 2: 80 ≤ length < 160 (tweet) • 3: 160 ≤ length (long)
BI 19 BI 20	params	Tor later microbatches, later datetime parameters are selected keep the variance low (<0.5%)
	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 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 Sum of all Message content in that group 6 sumMessageLength 32-bit Integer A Sum of all Message content lengths 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 1.2, 3.2, 4.1, 4.2, 8.5
	CPs	1.2, 3.2, 4.1, 4.2, 0.3