

BI / read / 1

BI 1

BI 2

BI 3

BI 4

BI 5

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BI 20

query	BI / read / 1																																			
title	Posting summary																																			
pattern	<table><tr><td colspan="2">message: Message</td></tr><tr><td colspan="2">creationDate < \$datetime</td></tr><tr><td>length</td><td>year(creationDate)</td></tr></table>					message: Message		creationDate < \$datetime		length	year(creationDate)																									
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length	year(creationDate)																																			
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	<table><tr><td>1</td><td>datetime</td><td>DateTime</td><td colspan="2">For later microbatches, later datetime parameters are selected keep the variance low (<0.5%)</td></tr></table>	1	datetime	DateTime	For later microbatches, later datetime parameters are selected keep the variance low (<0.5%)																															
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result	<table><tr><td>1</td><td>year</td><td>32-bit Integer</td><td>R</td><td>year(message.creationDate)</td></tr><tr><td>2</td><td>isComment</td><td>Boolean</td><td>M</td><td>True for Comments, False for Posts</td></tr><tr><td>3</td><td>lengthCategory</td><td>32-bit Integer</td><td>C</td><td>0 for short, 1 for one-liner, 2 for tweet, 3 for long</td></tr><tr><td>4</td><td>messageCount</td><td>32-bit Integer</td><td>A</td><td>Total number of Messages in that group</td></tr><tr><td>5</td><td>averageMessageLength</td><td>32-bit Float</td><td>A</td><td>Average length of the Message content in that group</td></tr><tr><td>6</td><td>sumMessageLength</td><td>32-bit Integer</td><td>A</td><td>Sum of all Message content lengths</td></tr><tr><td>7</td><td>percentageOfMessages</td><td>32-bit Float</td><td>A</td><td>Number of Messages in group as a percentage of all messages created before the given date</td></tr></table>	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 Float	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
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CPs	1.2, 3.2, 4.1, 4.2, 8.5																																			