

BI / read / 12

query	BI / read / 12				
title	How many persons have a given number of messages				
pattern	<pre>graph LR subgraph "2. personCount = count" Person[Person] Filter1["count Persons grouped by messageCount value"] end subgraph "1. messageCount = count" Message[Message] Filter2["content not empty and length < \$lengthThreshold and \$date < creationDate"] end subgraph "Post" Post[Post] Filter3["language in \$languages"] end Message -- hasCreator --> Person Message -. "«opt» replyOf*0.." .-> Post</pre>				
desc.	<p>For each Person, count the number of Messages they made (messageCount). Only count Messages with the following attributes:</p> <ul style="list-style-type: none">• Its content is not empty (and consequently, the imageFile attribute is empty for Posts).• Its length is below the lengthThreshold (exclusive, equality is not allowed).• Its creationDate is after date (exclusive, equality is not allowed).• It is written in any of the given languages.<ul style="list-style-type: none">– The language of a Post is defined by its language attribute.– The language of a Comment is that of the Post that initiates the thread where the Comment replies to. <p>The Post and Comments in the reply tree’s path (from the Message to the Post) do not have to satisfy the constraints for content, length and creationDate.</p> <p>For each messageCount value, count the number of Persons with exactly messageCount Messages (with the required attributes).</p>				
params	<div>1</div>	date	Date		
	<div>2</div>	lengthThreshold	32-bit Integer	Selected as balanced against date to filter around 30% of the Messages within a language and keep the variance low	
	<div>3</div>	languages	{String}	Only the most frequently used languages are selected	
result	<div>1</div>	messageCount	32-bit Integer	A	Number of Messages created
	<div>2</div>	personCount	32-bit Integer	A	Number of Persons with messageCount Messages
sort	<div>1</div>	personCount	↓		
	<div>2</div>	messageCount	↓		
CPs	1.1, 1.2, 1.4, 3.2, 4.2, 4.3, 8.1, 8.2, 8.3, 8.4, 8.5				