

## BI / read / 18

query	BI / read / 18																
title	How many persons have a given number of messages																
pattern	<div><div><div>2. personCount = count</div><div><div>Person</div></div><div>aggregate Persons having the same messageCount value</div></div><div><div>1. messageCount = count</div><div><div>Message</div><div>content not empty &amp; length &lt; \$lengthThreshold &amp; creationDate &gt; \$date</div></div></div><div><div>Post</div><div>language in \$languages</div></div><div>hasCreator</div><div>replyOf*0..</div></div>																
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"><li>• Its content is not empty (and consequently, imageFile empty for Posts).</li><li>• Its length is below the lengthThreshold (exclusive, equality is not allowed).</li><li>• Its creationDate is after date (exclusive, equality is not allowed).</li><li>• It is written in any of the given languages.</li></ul> <p>– The language of a Post is defined by its language attribute.</p> <p>– The language of a Comment is that of the Post that initiates the thread where the Comment replies to.</p> <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	<table><tr><td>1</td><td>date</td><td>Date</td><td></td></tr><tr><td>2</td><td>lengthThreshold</td><td>32-bit Integer</td><td></td></tr><tr><td>3</td><td>languages</td><td>String[]</td><td></td></tr></table>					1	date	Date		2	lengthThreshold	32-bit Integer		3	languages	String[]	
1	date	Date															
2	lengthThreshold	32-bit Integer															
3	languages	String[]															
result	<table><tr><td>1</td><td>messageCount</td><td>32-bit Integer</td><td>A</td><td>Number of Messages created</td></tr><tr><td>2</td><td>personCount</td><td>32-bit Integer</td><td>A</td><td>Number of Persons with messageCount messages</td></tr></table>					1	messageCount	32-bit Integer	A	Number of Messages created	2	personCount	32-bit Integer	A	Number of Persons with messageCount messages		
1	messageCount	32-bit Integer	A	Number of Messages created													
2	personCount	32-bit Integer	A	Number of Persons with messageCount messages													
sort	<table><tr><td>1</td><td>personCount</td><td>↓</td><td></td></tr><tr><td>2</td><td>messageCount</td><td>↓</td><td></td></tr></table>					1	personCount	↓		2	messageCount	↓					
1	personCount	↓															
2	messageCount	↓															
CPs	1.1, 1.2, 1.4, 3.2, 4.2, 4.3, 8.1, 8.2, 8.3, 8.4, 8.5																