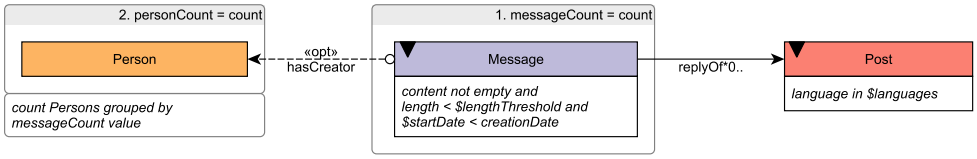
BI / read / 12

query	BI / read / 12
title	How many persons have a given number of messages
pattern	
description	For each Person, count the number of Messages they made (`messageCount`). Only count Messages with the following attributes: • Its `content` is not empty (and consequently, the `imageFile` attribute is empty for Posts). • Its `creationDate` is after `$startDate` (exclusive, equality is not allowed). • Its `length` is below the `$lengthThreshold` (exclusive, equality is not allowed). • It is written in any of the given `$languages`. – 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. 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`. For each `messageCount` value, count the number of Persons with exactly `messageCount` Messages (with the required attributes).

params

1	`$startDate`	Date	Selected randomly from a 60-day interval.
2	`$lengthThreshold`	32-bit Integer	Balanced against `startDate` to filter around 30% of the Messages within a language and keep the variance low. The selection of this parameter uses a factor table of bucketed Message lengths and creation dates.
3	`$languages`	{String}	Only the most frequently used languages

result

1	`messageCount`	32-bit Integer	A	Number of Messages created
2	`personCount`	32-bit Integer	A	Number of Persons with `messageCount` Messages

sort

1	`personCount`	↓
2	`messageCount`	↓

limit	n/a
CPs	1.1, 1.2, 1.4, 2.6, 3.2, 4.2, 4.3, 8.1, 8.2, 8.3, 8.4, 8.5