

BI / read / 12

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|-------------|--|--|--|--|--|
| query | BI / read / 12 | | | | |
| title | How many persons have a given number of messages | | | | |
| pattern | <div><div><div>2. personCount = count</div><div><div>Person</div></div><div>count Persons grouped by messageCount value</div></div><div><div>«opt» hasCreator</div><div><div>1. messageCount = count</div><div><div>Message</div><div>content not empty and length < \$lengthThreshold and \$startDate < creationDate</div></div></div><div><div>replyOf*0..</div><div><div>Post</div><div>language in \$languages</div></div></div></div></div> | | | | |
| description | <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 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. <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><div>1</div><div>\$startDate</div><div>Date</div><div>Selected randomly from a 60-day interval.</div></div> <div><div>2</div><div>\$lengthThreshold</div><div>32-bit Integer</div><div>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.</div></div> <div><div>3</div><div>\$languages</div><div>{String}</div><div>Only the most frequently used languages</div></div> | | | | |
| result | <div><div>1</div><div>messageCount</div><div>32-bit Integer</div><div>A</div><div>Number of Messages created</div></div> <div><div>2</div><div>personCount</div><div>32-bit Integer</div><div>A</div><div>Number of Persons with messageCount Messages</div></div> | | | | |
| sort | <div><div>1</div><div>personCount</div><div>↓</div><div></div></div> <div><div>2</div><div>messageCount</div><div>↓</div><div></div></div> | | | | |
| 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 | | | | |