

## BI / read / 2

BI 1	query	BI / read / 2											
BI 2	title	Tag evolution											
BI 3	pattern	<pre> classDiagram     class TagClass {         name = \$tagClass     }     class tag {         &lt;&lt;opt&gt;&gt; hasType TagClass     }     class name {         &lt;&lt;opt&gt;&gt; hasTag tag     }     class message {         creationDate in [\$date, \$date+100 days]     }     class countWindow1 {         &lt;&lt;opt&gt;&gt; hasType name     }     class countWindow2 {         &lt;&lt;opt&gt;&gt; hasType name     }      TagClass "1" --&gt; "1" tag : hasType     tag "1" --&gt; "1" name : hasTag     name "1" --&gt; "1" countWindow1 : hasType     message "1" --&gt; "1" name : creationDate     countWindow1 "1" --&gt; "1" name : hasType     name "1" --&gt; "1" countWindow2 : hasType     countWindow2 "1" --&gt; "1" name : hasType   </pre>											
BI 4													
BI 5													
BI 6													
BI 7													
BI 8													
BI 9													
BI 10													
BI 11													
BI 12													
BI 13													
BI 14	description	Find the Tags under a given \$tagClass that were used in Messages during in the 100-day time window starting at \$date and compare it with the 100-day time window that follows. For the Tags and for both time windows, compute the count of Messages.											
BI 15													
BI 16	params	1	\$date	Date	Based on the creation day – TagClass – number of Messages factor table: (a) A flashmob date (b) A non-flashmob date								
BI 17		2	\$tagClass	Long String	For both (a) and (b), TagClasses with a similar amount of Messages are selected								
BI 18	result	1	tag.name	Long String	R								
BI 19		2	countWindow1	32-bit Integer	A Occurrences of the tag during the first time window								
BI 20		3	countWindow2	32-bit Integer	A Occurrences of the tag during the second time window								
BI 21		4	diff	32-bit Integer	A Absolute difference of countWindow1 and countWindow2								
sort	<table border="1"> <tr> <td>1</td> <td>diff</td> <td>↓</td> <td></td> </tr> <tr> <td>2</td> <td>tag.name</td> <td>↑</td> <td></td> </tr> </table>				1	diff	↓		2	tag.name	↑		
1	diff	↓											
2	tag.name	↑											
limit	100												
CPs	2.4, 3.1, 3.2, 4.1, 4.2, 4.3, 5.3, 6.1, 8.2, 8.5												