

## BI / read / 2

query	BI / read / 2																							
title	Tag evolution																							
pattern	<pre>graph TD     TagClass[TagClass] -- hasType --&gt; tag[tag: Tag]     tag -- "«opt» hasTag" --&gt; Message1[message: Message]     tag -- "«opt» hasTag" --&gt; Message2[message: Message]     subgraph Window1 [countWindow1 = count(message)]         Message1     end     subgraph Window2 [countWindow2 = count(message)]         Message2     end     Message1 -- "creationDate in [\$date, \$date+100 days)" --&gt; Window1     Message2 -- "creationDate in [\$date+100 days, \$date+200 days)" --&gt; Window2</pre>																							
desc.	Find the Tags under a given TagClass that were used in Messages during in the 100-day period starting at date and compare it with the 100-day period that follows. For the Tags and for both months, compute the count of Messages.																							
params	<table><tr><td>1</td><td>date</td><td>Date</td><td></td></tr><tr><td>2</td><td>tagClass</td><td>Long String</td><td>TagClasses with a similar amount of Messages are selected</td></tr></table>	1	date	Date		2	tagClass	Long String	TagClasses with a similar amount of Messages are selected															
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2	tagClass	Long String	TagClasses with a similar amount of Messages are selected																					
result	<table><tr><td>1</td><td>tag.name</td><td>Long String</td><td>R</td><td></td></tr><tr><td>2</td><td>countWindow1</td><td>32-bit Integer</td><td>A</td><td>Occurrences of the tagClass during the first time window</td></tr><tr><td>3</td><td>countWindow2</td><td>32-bit Integer</td><td>A</td><td>Occurrences of the tagClass during the second time window</td></tr><tr><td>4</td><td>diff</td><td>32-bit Integer</td><td>A</td><td>Absolute difference of countWindow1 and countWindow2</td></tr></table>	1	tag.name	Long String	R		2	countWindow1	32-bit Integer	A	Occurrences of the tagClass during the first time window	3	countWindow2	32-bit Integer	A	Occurrences of the tagClass during the second time window	4	diff	32-bit Integer	A	Absolute difference of countWindow1 and countWindow2			
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sort	<table><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																							