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query	BI / read / 13				
title	Zombies in a country				
pattern	<div><div>1. zombies = collect(zombie)</div><div><div><div>Country</div><div>name = \$country</div></div><div><div>City</div><div></div></div><div><div>zombie: Person</div><div>creationDate < \$endDate and (messageCount / months < 1)</div></div><div><div>message: Message</div><div>creationDate < \$endDate</div></div><div>Country -- isPartOf --> City</div><div>City -- isLocatedIn --> zombie: Person</div><div>zombie: Person -- «opt» hasCreator --> message: Message</div></div><div>messageCount = count(message)</div></div> <div><div>2. For each zombie IN zombies, calculate: zombieScore = zombieLikeCount / totalLikeCount</div><div><div><div>zombie: Person</div><div></div></div><div><div>likerPerson: Person</div><div>creationDate < \$endDate</div></div><div><div>Message</div><div></div></div><div><div>likerZombie: Person</div><div>creationDate < \$endDate and likerZombie IN zombies</div></div><div>likerPerson -- «opt» likes --> Message</div><div>likerZombie -- «opt» likes --> Message</div><div>Message -- hasCreator --> zombie: Person</div></div><div>totalLikeCount = count(likerPerson)</div><div>zombieLikeCount = count(likerZombie)</div></div>				
description	<p>Find zombies within the given \$country, and return their zombie scores. A zombie is a Person created before the given \$endDate, which has created an average of [0, 1) Messages per month, during the time range between profile’s creationDate and the given \$endDate. The number of months spans the time range from the creationDate of the profile to the \$endDate with partial months on both end counting as one month (e.g. a creationDate of Jan 31 and an \$endDate of Mar 1 result in 3 months).</p> <p>For each zombie, calculate the following:</p> <ul style="list-style-type: none">zombieLikeCount: the number of likes received from other zombies.totalLikeCount: the total number of likes received.zombieScore: zombieLikeCount / totalLikeCount. If the value of totalLikeCount is 0, the zombieScore of the zombie should be 0.0. <p>For both zombieLikeCount and totalLikeCount, only consider likes received from profiles that were created before the given \$endDate.</p>				
params	1	\$country	Long String	Selected from the largest Countries (India, China)	
	2	\$endDate	Date	Selected from the last days of the initial data set	
result	1	zombie.id	ID	R	
	2	zombieLikeCount	32-bit Integer	A	
	3	totalLikeCount	32-bit Integer	A	
	4	zombieScore	32-bit Float	A	Determined as zombieLikeCount / totalLikeCount
sort	1	zombieScore	↓		
	2	zombie.id	↑		
limit	100				
CPs	1.2, 2.1, 2.3, 2.4, 2.6, 3.2, 3.3, 4.2, 5.1, 5.3, 8.2, 8.4, 8.5				