

## BI / read / 4

|         |   |                     |                |  |  |
|---------|---|---------------------|----------------|--|--|
| query   | BI / read / 4   |                     |                |  |  |
| title   | Top message creators by country   |                     |                |  |  |
| pattern | <div><div><div>1. select top 100 forums based on memberCount in country</div><div><div>Country</div><div>name</div></div><div>isPartOf</div><div><div>City</div><div></div></div><div>isLocatedIn</div><div><div>memberCount = count(member)</div><div>member: Person</div></div><div>hasMember</div><div><div>forum: Forum</div><div>creationDate &gt; \$date</div></div></div><div><div>2. for each country, for each of the top 100 forums (topForum), find the top posters</div><div><div>topForum: Forum</div><div>containerOf</div><div>Post</div><div>replyOf*0..</div><div><div>messageCount = count(message)</div><div>Message</div><div>creationDate &gt; \$date</div></div><div>hasCreator</div><div><div>Forum</div><div>is in top 100 forum</div></div><div>hasMember</div><div><div>person: Person</div><div>id<br/>firstName<br/>lastName<br/>creationDate</div></div></div></div></div> |                     |                |  |  |
| desc.   | <p>Find the most popular Forums by Country, where the popularity of a Forum is measured by the number of members that Forum has from a given Country.</p> <p>Calculate the top 100 most popular Forums. In case of a tie, the Forum(s) with the smaller id value(s) should be selected.</p> <p>For each member Person of the 100 most popular Forums, count the number of Messages (messageCount) they made in any of those (most popular) Forums. Also include those member Persons who have not posted any Messages (have a messageCount of 0).</p>   |                     |                |  |  |
| params  | 1   | date                | Date           | Selected from the first 30 days of the network |  |
| result  | 1   | person.id           | ID             | R  |  |
|         | 2   | person.firstName    | String         | R  |  |
|         | 3   | person.lastName     | String         | R  |  |
|         | 4   | person.creationDate | DateTime       | R  |  |
|         | 5   | messageCount        | 32-bit Integer | A  |  |
| sort    | 1   | messageCount        | ↓              |  |  |
|         | 2   | person.id           | ↑              |  |  |
| limit   | 100   |                     |                |  |  |
| CPs     | 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 3.3, 5.3, 6.1, 8.2, 8.4   |                     |                |  |  |