

BI / read / 4

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|-------|---------|---|---------------------|----------------|--|
| BI 1 | query | BI / read / 4 | | | |
| BI 2 | title | Top message creators by country | | | |
| BI 3 | pattern | <p>The diagram illustrates the query pattern for finding top message creators by country. It consists of two main parts:</p> <ul style="list-style-type: none"> Part 1: Select top 100 forums based on memberCount in country <ul style="list-style-type: none"> Country (yellow box) has a name attribute. City (teal box) is isPartOf a Country. Forum (green box) is isLocatedIn a City. Forum has a memberCount attribute calculated as count(member). Person (orange box) is a member of a Forum. Forum has a creationDate attribute. Part 2: For each country, for each of the top 100 forums (topForum), find the top posters <ul style="list-style-type: none"> topForum: Forum (green box) is containerOf a Post (red box). Post has a replyOf*0.. relationship to a Message (purple box). Message has a messageCount attribute calculated as count(message). Message has a creationDate attribute. Message is hasCreator by a person: Person (orange box). Person has attributes id, firstName, lastName, and creationDate. Forum is is in top 100 forum. Person is hasMember of a Forum. | | | |
| BI 4 | 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. If a Forum is popular in multiple countries, it should only be calculated once with its largest membership. 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> | | | |
| BI 5 | params | 1 | date | Date | Selected from the first 30 days of the network |
| BI 6 | result | 1 | person.id | ID | R |
| BI 7 | | 2 | person.firstName | String | R |
| BI 8 | | 3 | person.lastName | String | R |
| BI 9 | | 4 | person.creationDate | DateTime | R |
| BI 10 | | 5 | messageCount | 32-bit Integer | A |
| BI 11 | sort | 1 | messageCount | ↓ | |
| BI 12 | | 2 | person.id | ↑ | |
| BI 13 | limit | 100 | | | |
| BI 14 | CPs | 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 3.3, 5.3, 6.1, 8.2, 8.4 | | | |