Interactive / complex / 3

IC 1
IC 2
IC 3

IC 5
IC 6
IC 7
IC 8
IC 9
IC 10
IC 11
IC 12
IC 13
IC 14

| Interactive / complex / 3 | | | |
|--|--|---|--|
| Friends and friends of friends | s that have been | to given countries | |
| | | xCount = count | |
| | hasCreator— | Message isLocatedIn → countryX: Country | |
| | \downarrow | \$startDate ≤ creationDate ≤ \$startDate + | |
| person: Person | otherPerson: Person | \$durationDays | |
| | | isLocatedIn City | |
| | | yCount = count | |
| | Ţ | Message countryY: Country | |
| | hasCreator— | \$startDate ≤ creationDate ≤ \$startDate + isLocatedIn → name = \$countryYName | |
| | | \$durationDays | |
| Given a start Person, find Person | ns that are their fr | iends and friends of friends (excluding start Person) | |
| | | e given Countries, CountryX and CountryY, within a | |
| | | Countries CountryX and CountryY are considered, that | |
| | _ | | |
| 1 personId ID | | | |
| 2 countryXName String | | | |
| | | | |
| 4 startDate Date | Beginn | ing of requested period | |
| | Duratio | on of requested period, in days. The interval | |
| 5 durationDays 32-bit In | nteger | ate, startDate + durationDays) is closed-open | |
| | ' | | |
| 1 otherPerson.id | ID | R | |
| 2 otherPerson.firstName | String | R | |
| 3 otherPerson.lastName | String | R | |
| 4 xCount | 32-bit Integer | Number of Messages from Country Country X | |
| | | created by the Person within the given time | |
| 5 yCount | 32-bit Integer | Number of Messages from Country Country Y | |
| | 20 1 :- 1 - | created by the Person within the given time | |
| 6 count | 32-bit Integer | A count = xCount + yCount | |
| 1 xCount. | | | |
| | | | |
| | | | |
| | | | |
| 2.1, 3.1, 5.1, 8.2, 8.5 | | | |
| | | ing from a Person, going to friends or friends of friends, and | |
| | | | |
| is expected to eliminate duplicates and those people prior to access the Post and Comments, as well as eliminate | | | |
| those friends from CountryX and CountryY, as the size of the intermediate results can be severely affected. | | | |
| | A possible structural optimization could be to materialize the number of Posts and Comments created by a Person, and progressively filter those people that could not even fall in the top 20 even having all their posts in the Countries | | |
| and progressively filter those people | e that could not even | fall in the top 20 even having all their posts in the Countries | |
| | Given a start Person, find Person that have made Posts / Comme given period. Only Persons that is Persons whose location is not persons whose location is not persons whose location is not persons. In person Id a countryXName string a countryYName string a countryYName string a startDate between the part of the person. Id a countryYName and the person id a countryYName and the person id a countryYName and the person id a count a countryYName and the person id a countryYName an | Friends and friends of friends that have been to the person: Person to the person that are their from the person of the person that are their from the person of the person | |