

BI / read / 10

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|---------|---|----------------|---|---|---|---|----------|----------|----------------------------|---|--------------------------|-------------|--|----------------|-----------------|---|---|---|-----------------|----------------|---|
| query | BI / read / 10 | | | | | | | | | | | | | | | | | | | | |
| title | Experts in social circle | | | | | | | | | | | | | | | | | | | | |
| pattern | | | | | | | | | | | | | | | | | | | | | |
| desc. | <p>Given a Person (startPerson), find all other Persons (expertCandidatePerson) that live in a given Country and are connected to given Person by a <i>shortest path</i> with length in range [minPathDistance, maxPathDistance] through the knows relation.</p> <p>For each of these expertCandidatePerson nodes, retrieve all of their Messages that contain at least one Tag belonging to a given TagClass (direct relation not transitive). For each Message, retrieve all of its Tags.</p> <p>Group the results by Persons and Tags, then count the Messages by a certain Person having a certain Tag.</p> | | | | | | | | | | | | | | | | | | | | |
| params | <table><tr><td>1</td><td>personId</td><td>ID</td><td>(A) Persons with an average degree of knows edges are selected (B) Persons who have only one friend and that Person has two friends in total (including the original Person)</td></tr><tr><td>2</td><td>country</td><td>String</td><td>Select mid-sized Countries</td></tr><tr><td>3</td><td>tagClass</td><td>Long String</td><td>TagClasses with a similar degree of hasType edges are selected</td></tr><tr><td>4</td><td>minPathDistance</td><td>32-bit Integer</td><td>3</td></tr><tr><td>5</td><td>maxPathDistance</td><td>32-bit Integer</td><td>4</td></tr></table> | 1 | personId | ID | (A) Persons with an average degree of knows edges are selected (B) Persons who have only one friend and that Person has two friends in total (including the original Person) | 2 | country | String | Select mid-sized Countries | 3 | tagClass | Long String | TagClasses with a similar degree of hasType edges are selected | 4 | minPathDistance | 32-bit Integer | 3 | 5 | maxPathDistance | 32-bit Integer | 4 |
| 1 | personId | ID | (A) Persons with an average degree of knows edges are selected (B) Persons who have only one friend and that Person has two friends in total (including the original Person) | | | | | | | | | | | | | | | | | | |
| 2 | country | String | Select mid-sized Countries | | | | | | | | | | | | | | | | | | |
| 3 | tagClass | Long String | TagClasses with a similar degree of hasType edges are selected | | | | | | | | | | | | | | | | | | |
| 4 | minPathDistance | 32-bit Integer | 3 | | | | | | | | | | | | | | | | | | |
| 5 | maxPathDistance | 32-bit Integer | 4 | | | | | | | | | | | | | | | | | | |
| result | <table><tr><td>1</td><td>expertCandidatePerson.id</td><td>ID</td><td>R</td><td></td></tr><tr><td>2</td><td>tag.name</td><td>Long String</td><td>R</td><td></td></tr><tr><td>3</td><td>messageCount</td><td>32-bit Integer</td><td>A</td><td>Number of Messages created by that Person containing that Tag</td></tr></table> | 1 | expertCandidatePerson.id | ID | R | | 2 | tag.name | Long String | R | | 3 | messageCount | 32-bit Integer | A | Number of Messages created by that Person containing that Tag | | | | | |
| 1 | expertCandidatePerson.id | ID | R | | | | | | | | | | | | | | | | | | |
| 2 | tag.name | Long String | R | | | | | | | | | | | | | | | | | | |
| 3 | messageCount | 32-bit Integer | A | Number of Messages created by that Person containing that Tag | | | | | | | | | | | | | | | | | |
| sort | <table><tr><td>1</td><td>messageCount</td><td>↓</td><td></td></tr><tr><td>2</td><td>tag.name</td><td>↑</td><td></td></tr><tr><td>3</td><td>expertCandidatePerson.id</td><td>↑</td><td></td></tr></table> | 1 | messageCount | ↓ | | 2 | tag.name | ↑ | | 3 | expertCandidatePerson.id | ↑ | | | | | | | | | |
| 1 | messageCount | ↓ | | | | | | | | | | | | | | | | | | | |
| 2 | tag.name | ↑ | | | | | | | | | | | | | | | | | | | |
| 3 | expertCandidatePerson.id | ↑ | | | | | | | | | | | | | | | | | | | |
| limit | 100 | | | | | | | | | | | | | | | | | | | | |
| CPs | 1.2, 1.3, 2.3, 2.4, 3.3, 5.3, 7.1, 7.2, 7.3, 8.1, 8.6 | | | | | | | | | | | | | | | | | | | | |