## **BI / read / 20**

BI 1	query	BI / read / 20
BI 2	title	Recruitment
BI 3 BI 4 BI 5 BI 6 BI 7 BI 8 BI 9	pattern	company: Company  name = \$company  workAt  person1: Person  shortest path on knows.weight  person2: Person  shortest path on knows.weight  id = \$person2ld
BI 10 BI 11 BI 12 BI 13 BI 14 BI 15 BI 16 BI 17 BI 18 BI 19 BI 20	desc.	Given a Company company and a Person person2 (who is known to be working at another Company), find a different Person (person1) who works in company and is reachable by from person2 through people who have studied together. On this path, we only consider edges between Persons who know each other and attended the same university and set the weight of the edge to the absolute difference between the year of enrolment plus 1 (studyAt.classYear + 1). We return the 20 shortest paths.  If there are multiple Person person1 nodes with the same shortest path, return all of them.
	params	1 company Long String Companies with a similar number of employees (former or current) are selected 2 person2Id ID
	result	1 person1.id ID R 2 totalWeight 64-bit Integer C
	sort	1 totalWeight ↑ 2 person1.id ↑
	limit	20
	CPs	3.3, 7.6, 7.7, 8.4, 8.6
	relevance	Implementations can either pre-compute edge weights or compute them on-the-fly. To find a weighted shortest path efficiently, implementations can use e.g. a bidirectional Dijkstra algorithm.