

```
1 GraphDatabaseService graphDB = config();
2 try(Transaction tx = graphDB.beginTx()){
3     // hit Lucene index
4     IndexHits<Node> hits = graphDB.index()
5         .forNodes("fullTextIndex").query("title:graph AND title:database");
6     // calculate relevant importance score
7     List<ReleImpScore> listScore = calcRelevantImportance(hits);
8     List<String> paIDs = getTopKIDs(listScore);
9     // execute cypher, retrieve paper info by paper IDs
10    Result queryResult = graphDB.execute(
11        "WITH {paIDs} AS coll UNWIND coll AS col"
12        +"MATCH (p:Paper)-[:PaToPAA]->(r:PAA)-[:PAAToAut]-(a:Author) "
13        +"WHERE p.paID= col "
14        +"WITH p.title, COLLECT(a.auName), SIZE()-[:PaRef]->(p)) AS citations, r..."
15        +"RETURN title, paID, citations, authors, authorsID;" );
16    tx.success();
17 }
```