14a – Graph Databases

(Q1) Assume you have a publications database that keeps track of the following:

- papers (title, publication year, associated keywords),
- authors (name, institution)

How would you organize this information as a graph database? Give an example with 3 papers, 4 authors, and 5 keywords.

(Q2) Assume the previous graph database. How would you find the names of all coauthors for the paper with title “Hictchhiker’s Guide to the Galaxy” using Cypher?

(Q3) Assume the previous graph database. How would you find all papers that relate to the keyword “*bananas*” using Cypher?

(Q4) Assume the previous graph database. How would you find the authors of all papers that relate to the keyword “*bananas*” using Cypher?