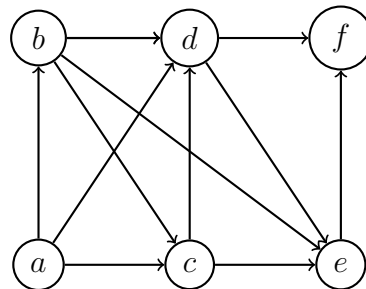


The following questions are related to the graph database system Neo4j [2], and the included Movie database [1].

1. Create three nodes in Cypher to represent three friends – Jack, Jerry and John.
2. Create relationships showing that:
  - Jack follows Jerry on Twitter.
  - Jack follows John on Twitter.
  - John follows Jerry on Twitter.
3. Add some information about Jack, Jerry and John:
  - Jack joined Twitter in May 2010.
  - Jerry joined Twitter in June 2012.
  - John joined Twitter in January 2016.
4. Add some information about the following relationships:
  - Jack started following Jerry in July 2012.
  - Jack started following John in February 2016.
  - John started following Jerry on January 2016.
5. Create the following graph in Cypher:



6. The rest of the questions relate to the movie database included with Neo4j. Kevin Bacon is represented by a node in the database. Find the <id> of the node.
7. Find a list of the titles of all movies Kevin Bacon has acted in (that are contained in the database).
8. Find a list of the titles of all movies Kevin Bacon has acted in, sorted alphabetically.
9. Find a list of the titles of all movies Kevin Bacon has acted in, giving only the first five sorted alphabetically.

10. Find a list of all the names of actors who have acted with Kevin Bacon in a movie, sorted alphabetically.
11. Find a list of all the names of actors who have acted with an actor who has acted with Kevin Bacon in a movie, sorted alphabetically.
12. Find the three nodes representing Kevin Bacon, Elvis Presley and Edward Asner.
13. Find all the titles movies that Kevin Bacon and Edward Asner have acted in together.
14. Find the titles of all movies that Elvis Presley and Edward Asner have acted in together.
15. Find the three nodes representing Kevin Bacon, Elvis Presley and Edward Asner, and all nodes representing any movies that at least two of them have acted in.
16. Show that Elvis Presley has a Bacon number of 2.
17. Find the names of all actors with a Bacon number of at most 3.
18. Find the names of all actors with a Bacon number of exactly 3.
19. **Extra credit:** Find a distinct list of the types of all the relationships between the *Person* Wes Craven and the *Movie* Scream.

**References**

- [1] neo4j open source graph database &#187;.
- [2] Neo4j. Neo4j - the world's leading graph database, 2012.