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Lab-3

Neo4j Graph Database

* A graph database uses graph theory to store, map, and query relationships.

Nodes: represent entities such as people, business, or any data item.
Edges: (or) relationships connect nodes and illustrate how entities are related
Properties provide additional information about nodes and relationships

Neo4j Desktop

(i) Follow PPT for installation
(ii) use Neo4j
(iii) Call . db . schema . visualization
(iv) match (N) return n limit 100

- Create a node

$ create {a: Movie {Tag: "A Movie"})

- Display a node

$ create ({a: Movie {Tag: "Movie A"})
({b: Movie {Tag: "Movie B"})
return a, b.

PAGE NO :
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→ Find actor named "Tom Hanks"

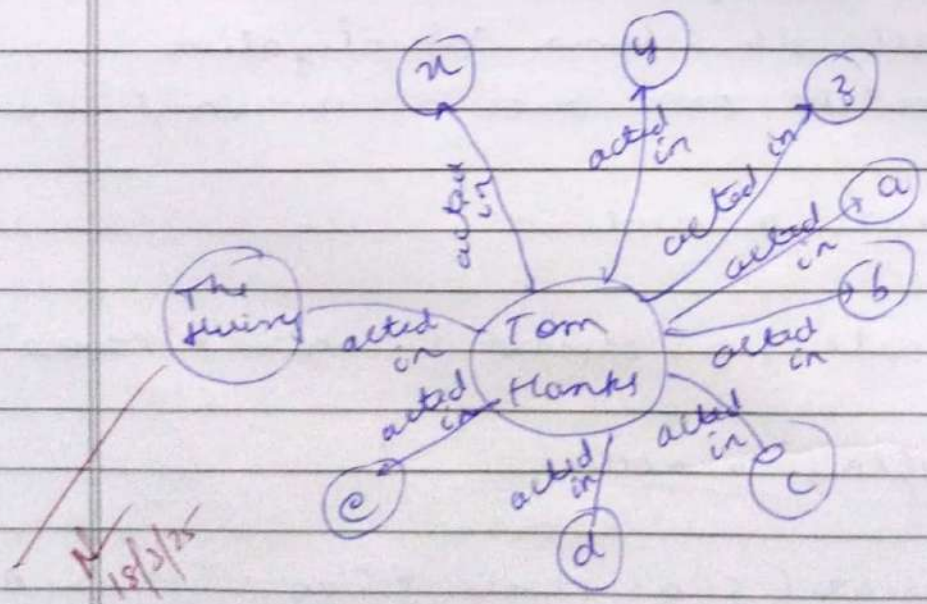
Match (tom { name : "Tom Hanks" })
return tom

→ List all Tom Hanks movies.

Match (Tom: Person { name: "Tom Hanks" })
[: acted_in] →
(tomHanks movies) return
tom, tomhanks movies.

→ Delete all movies and Person node
match (n) detach delete n

Example graph output on movies acted by tom hanks.



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→ Count all nodes.

count all nodes match (n)
return count (n)