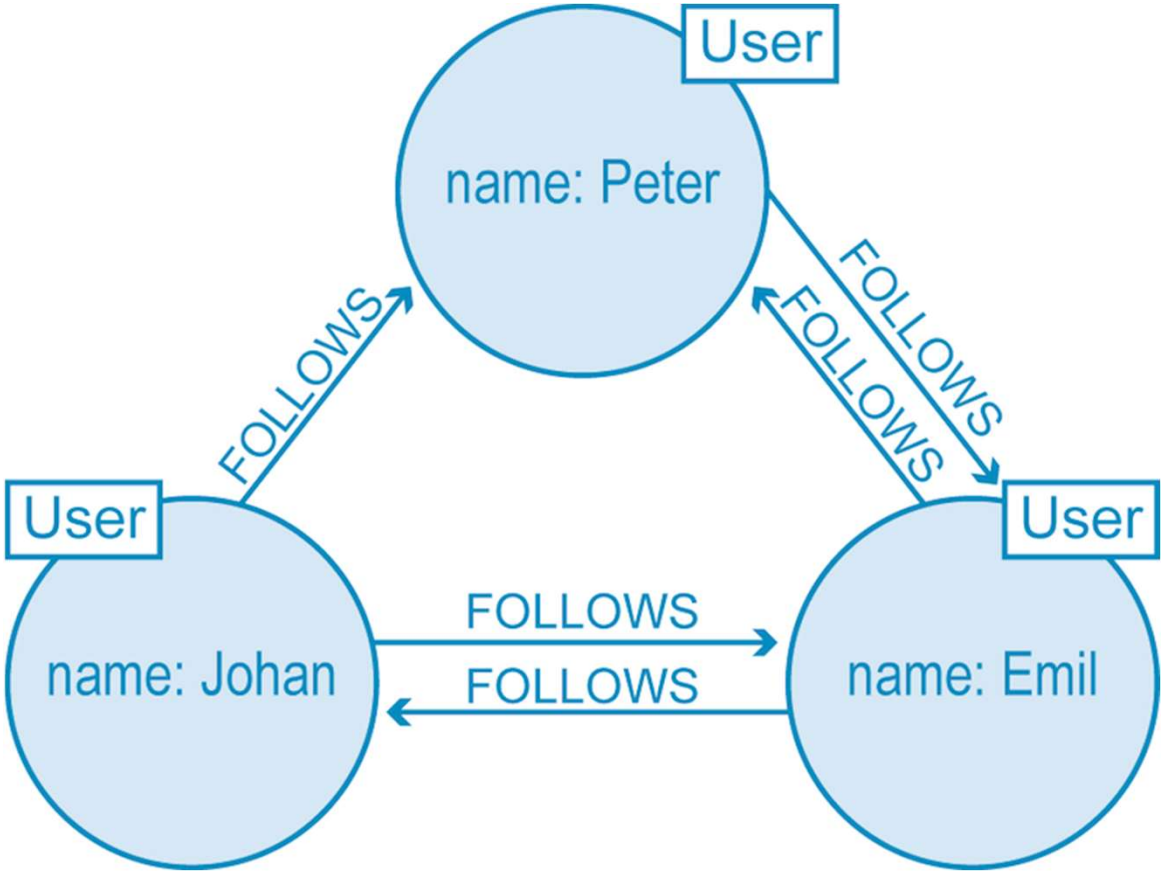
KOENIG
step forward

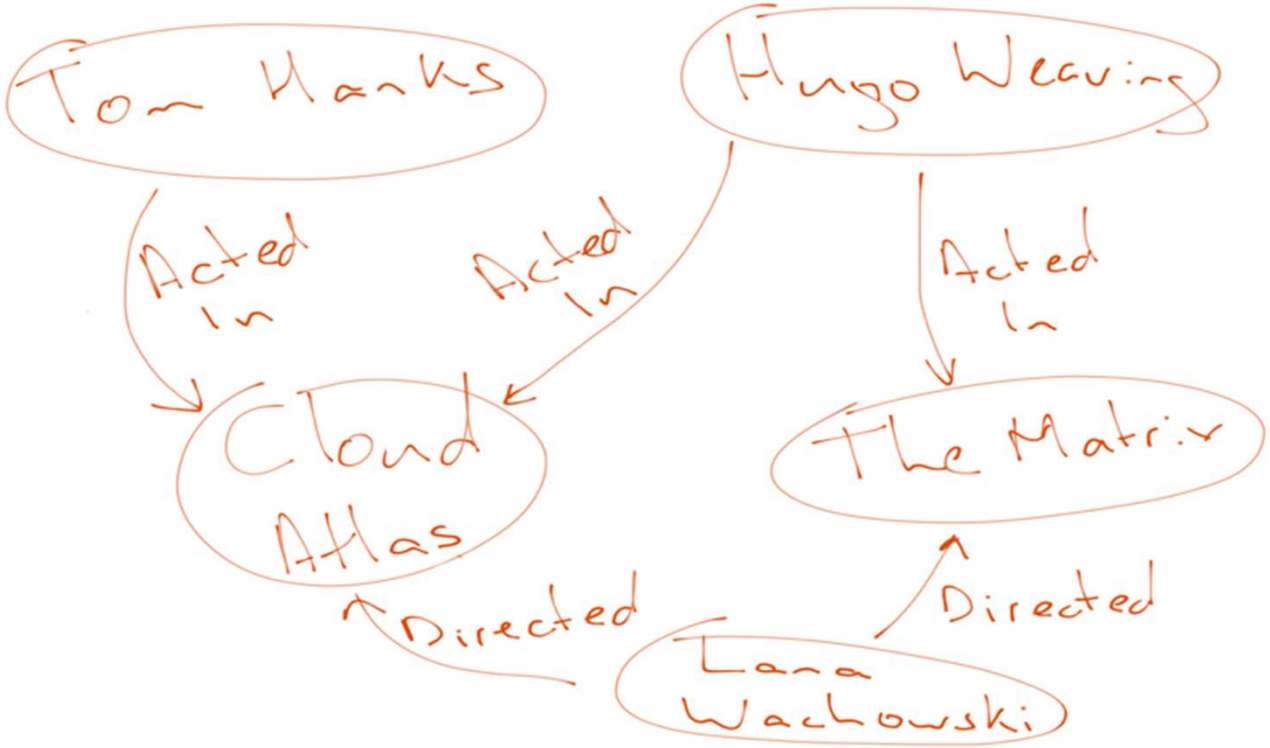
Neo4j - Building Blocks

Graph Database

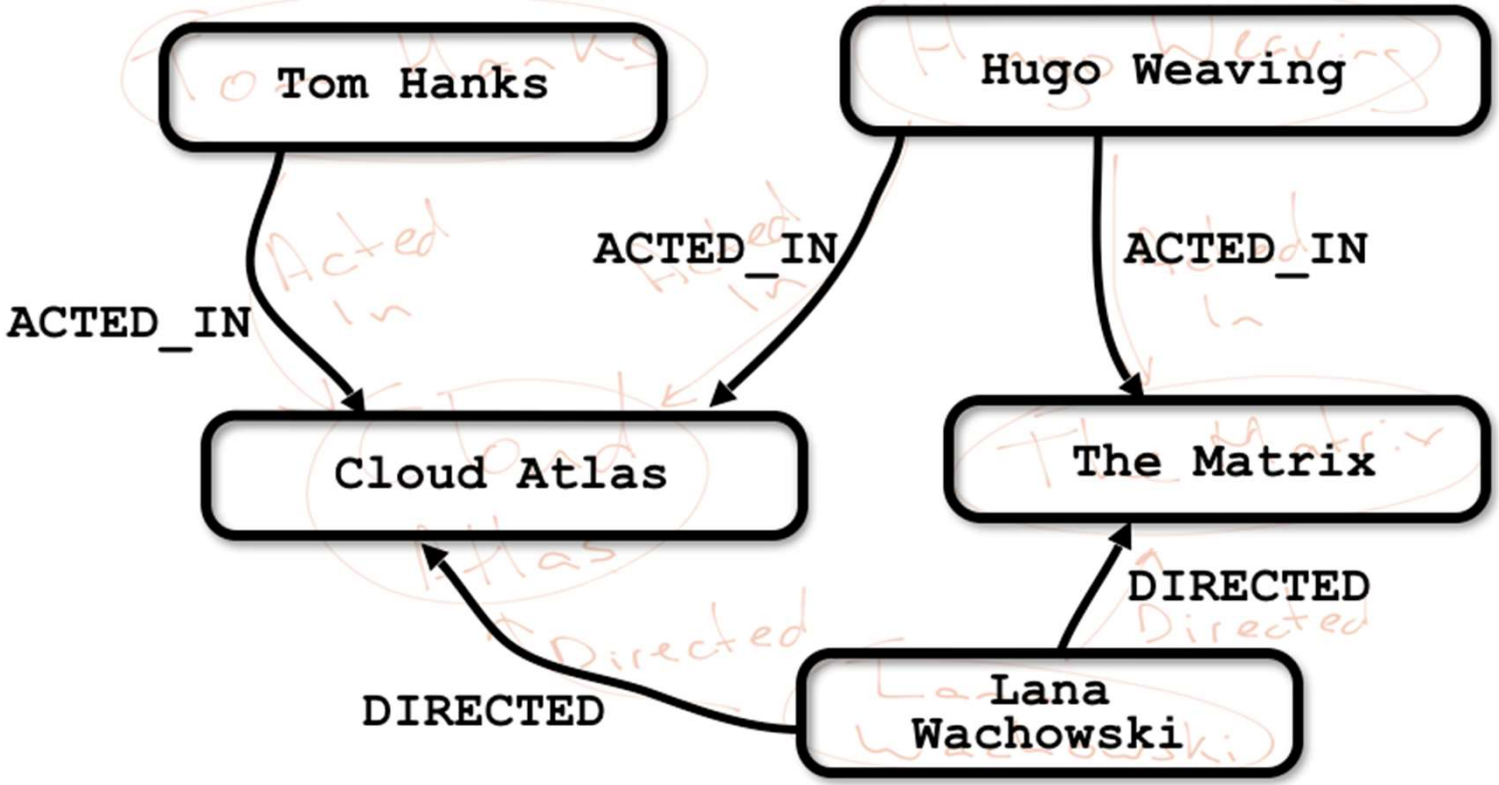


Data Modeling with Graphs

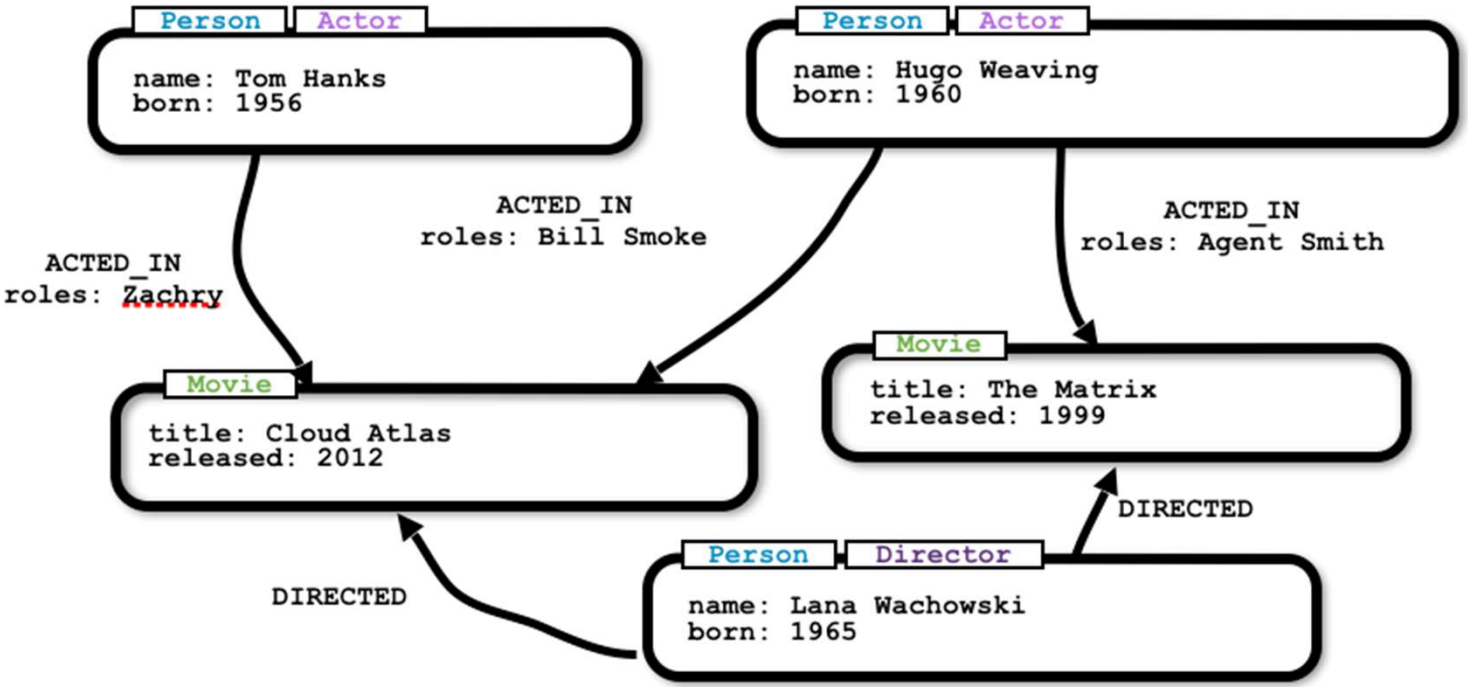
- Very close to what people draw on whiteboards
- Should focus on the psychology of the end user



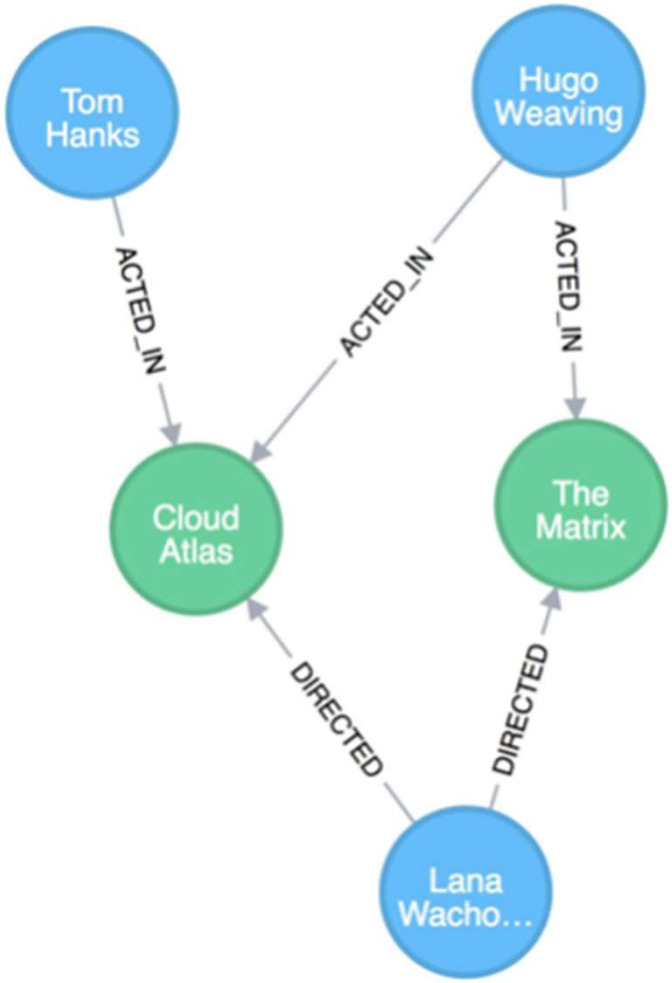
Formalize our entities a bit



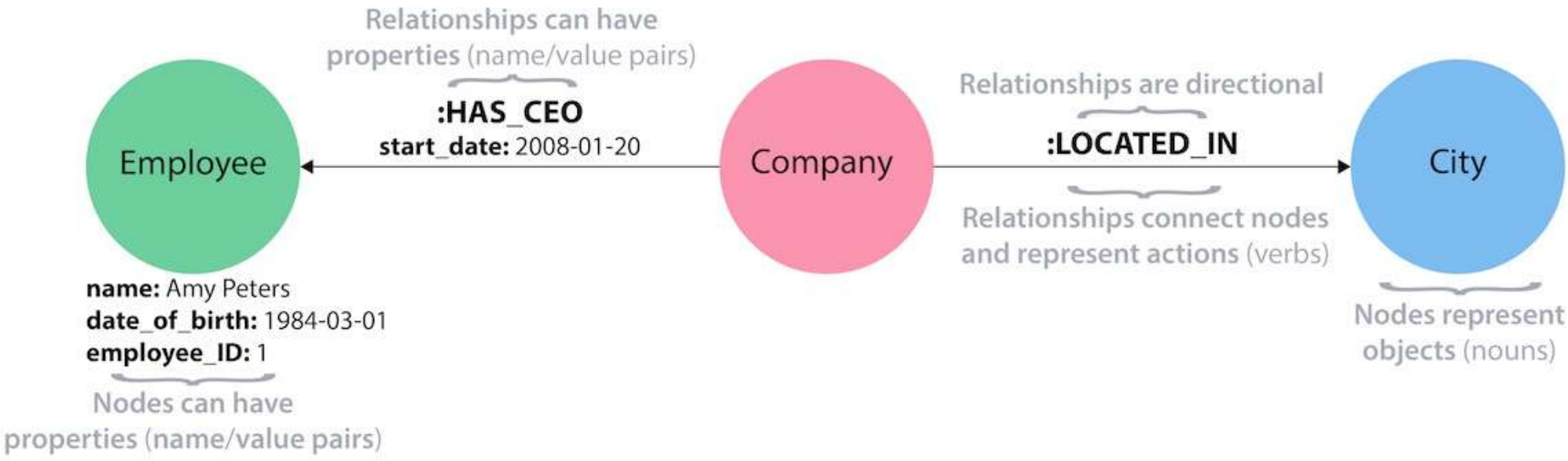
Add labels and properties



Final model in Neo4j

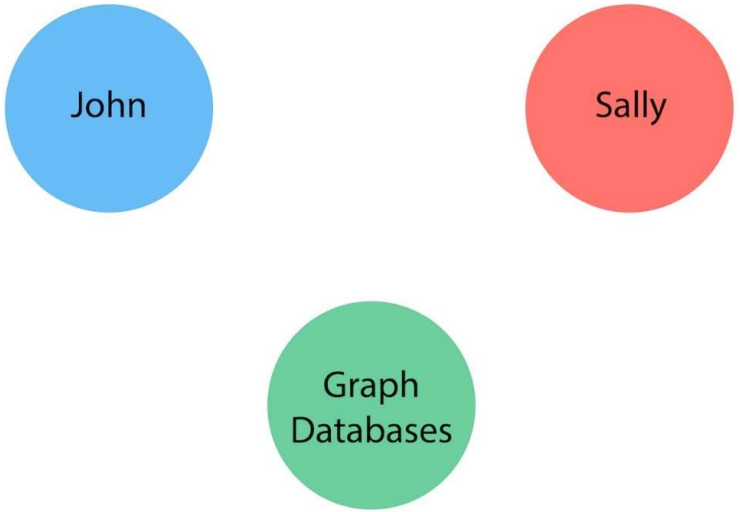


Describing a Domain



Nodes

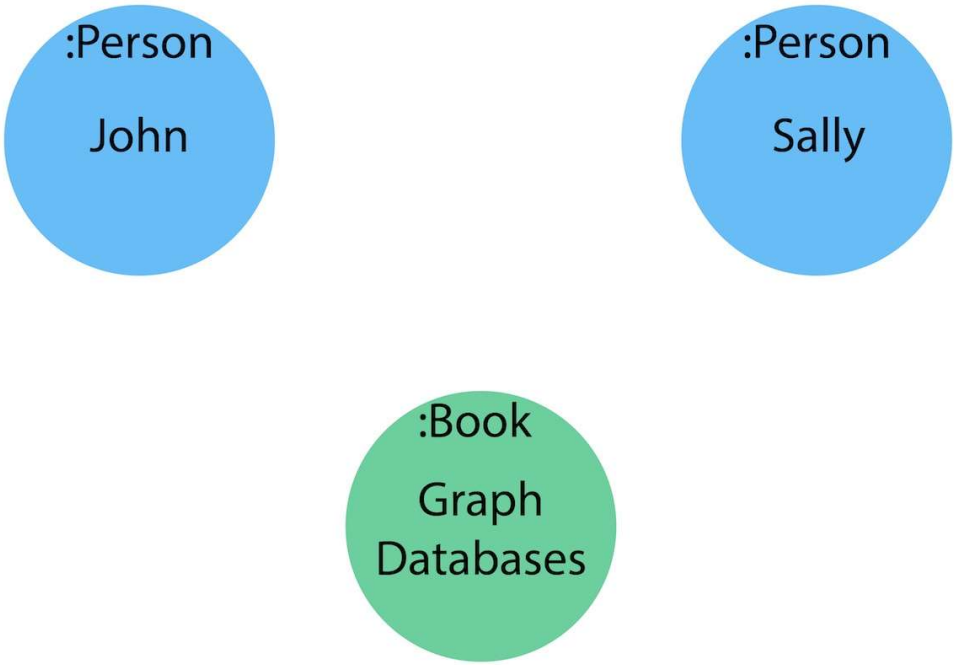
- Fundamental unit that form a graph
- Represent entities
- Find nodes by identifying nouns
  - Car, a person, a customer, a company



- Scenario - Defining Nodes
  - Two people, John and Sally, are friends. Both John and Sally have read the book - "Graph Databases"
- Extracting the nodes:
  - John
  - Sally
  - "Graph Databases"

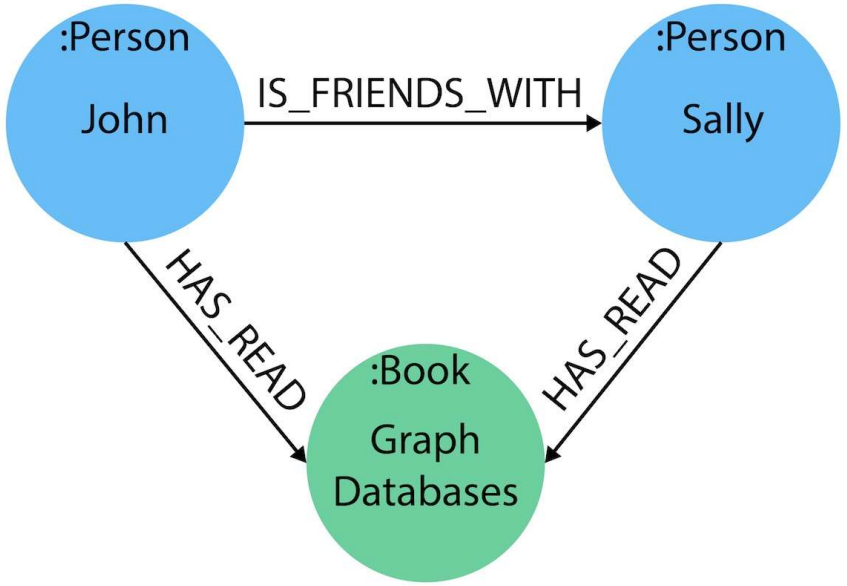
Labels

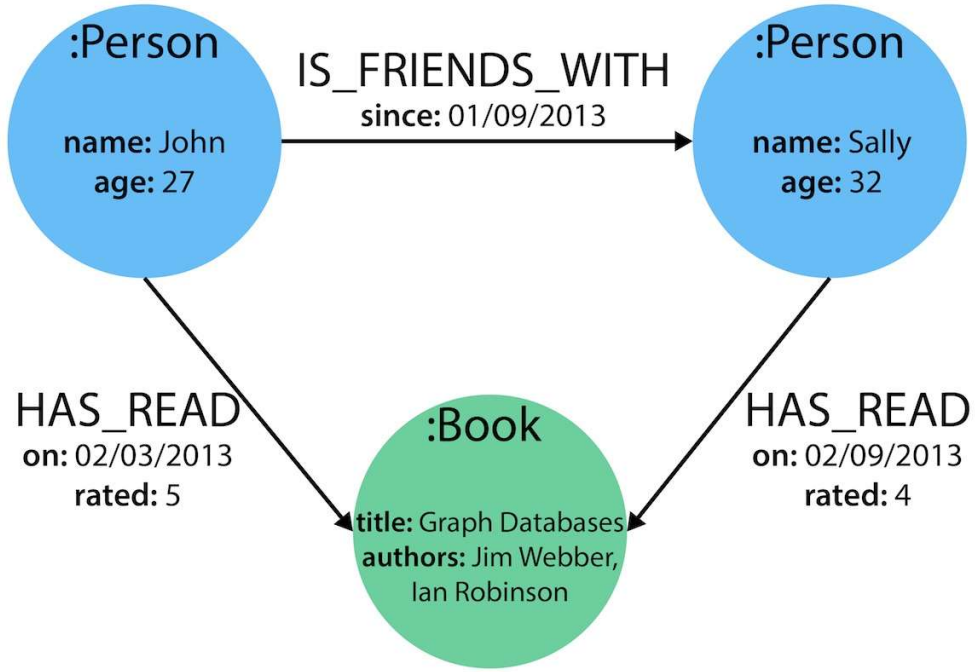
- Used to group nodes into sets
- All nodes labeled with the same label belongs to the same set



Relationships

- Connects two nodes
- Relationships between nodes:
  - John is friends with Sally
  - Sally is friends with John
  - John has read Graph Databases
  - Sally has read Graph Databases



Properties

- Are name-value pairs of data
- To store data about node or relationship