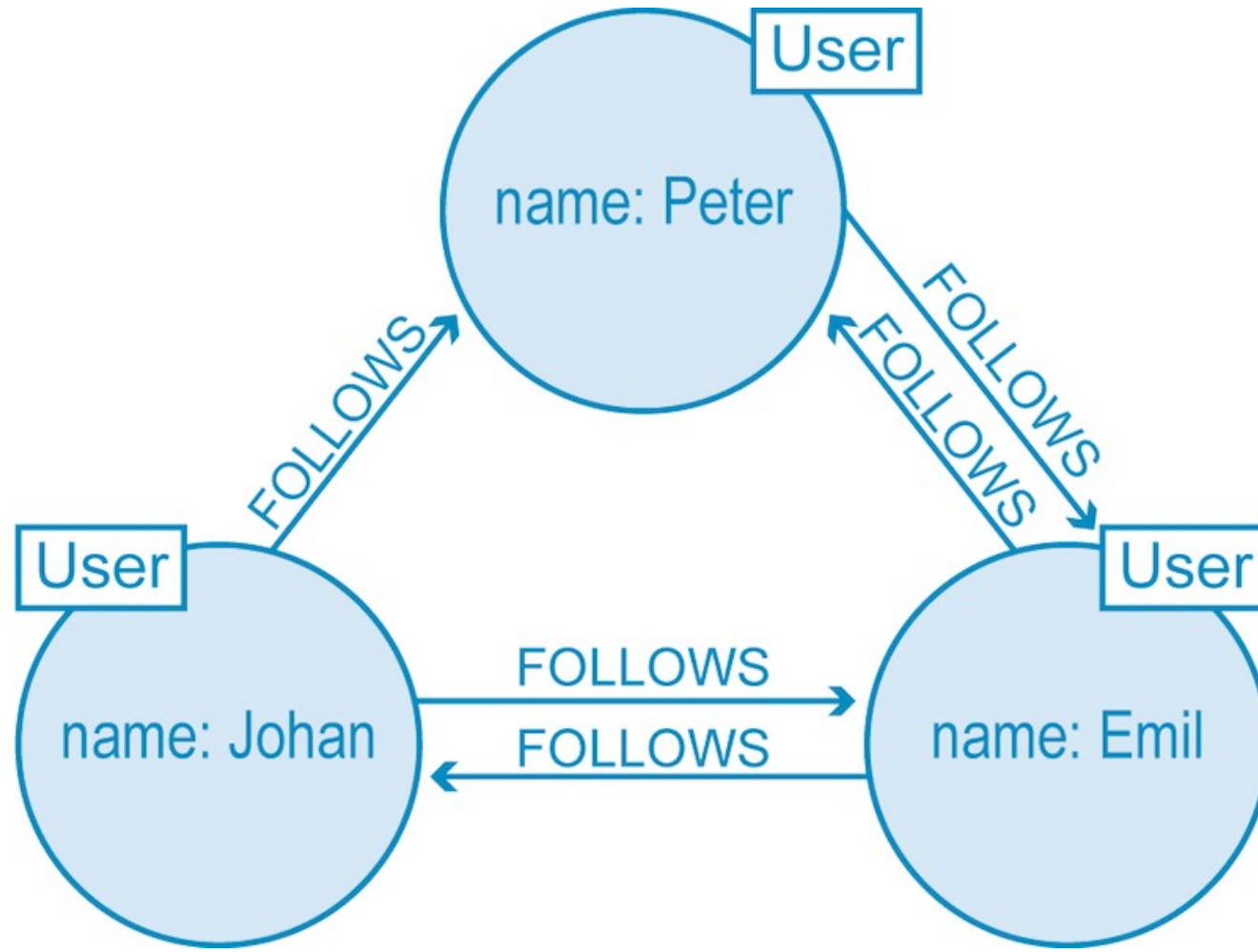




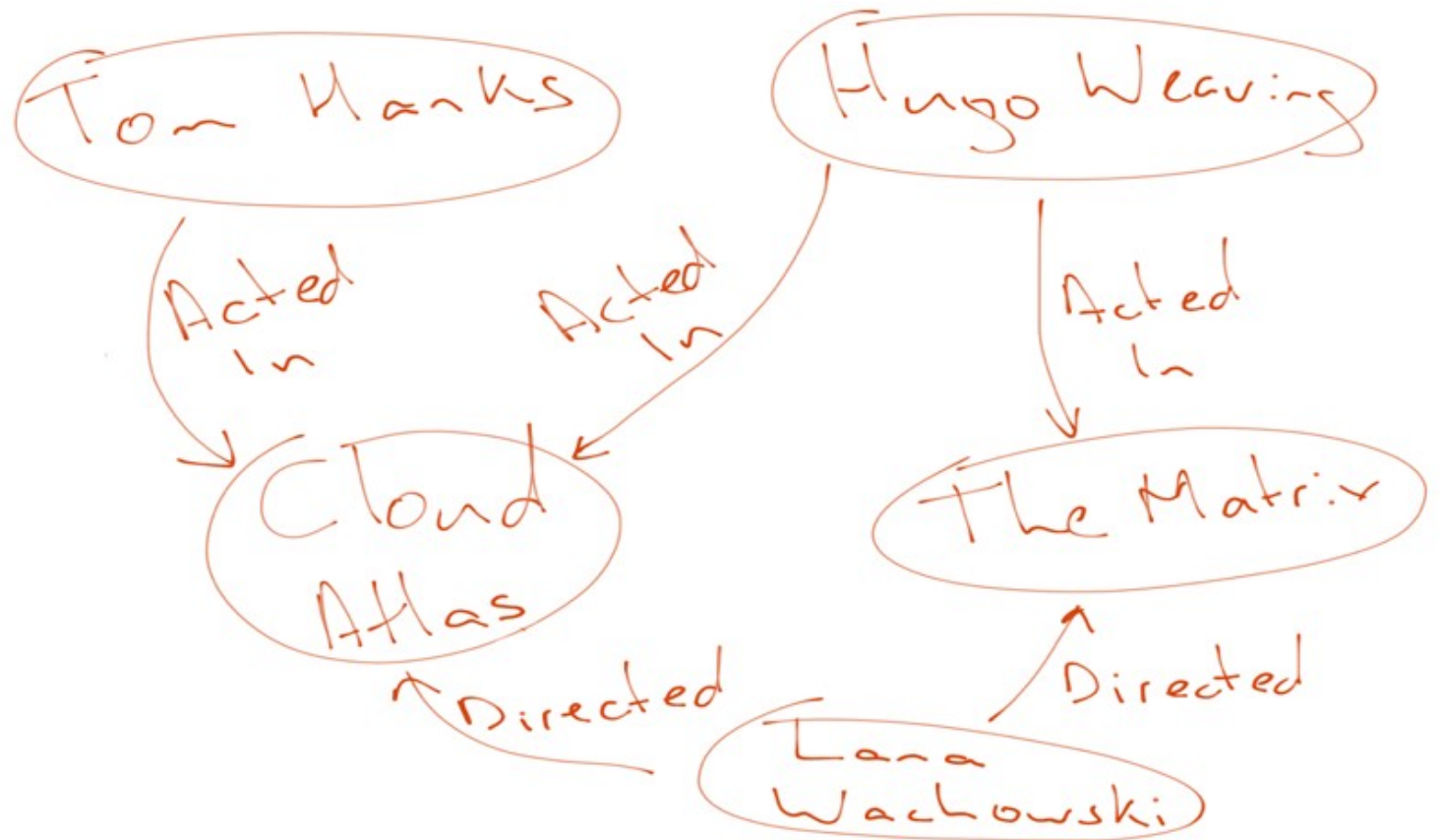
# Neo4j - Building Blocks

# Graph Database

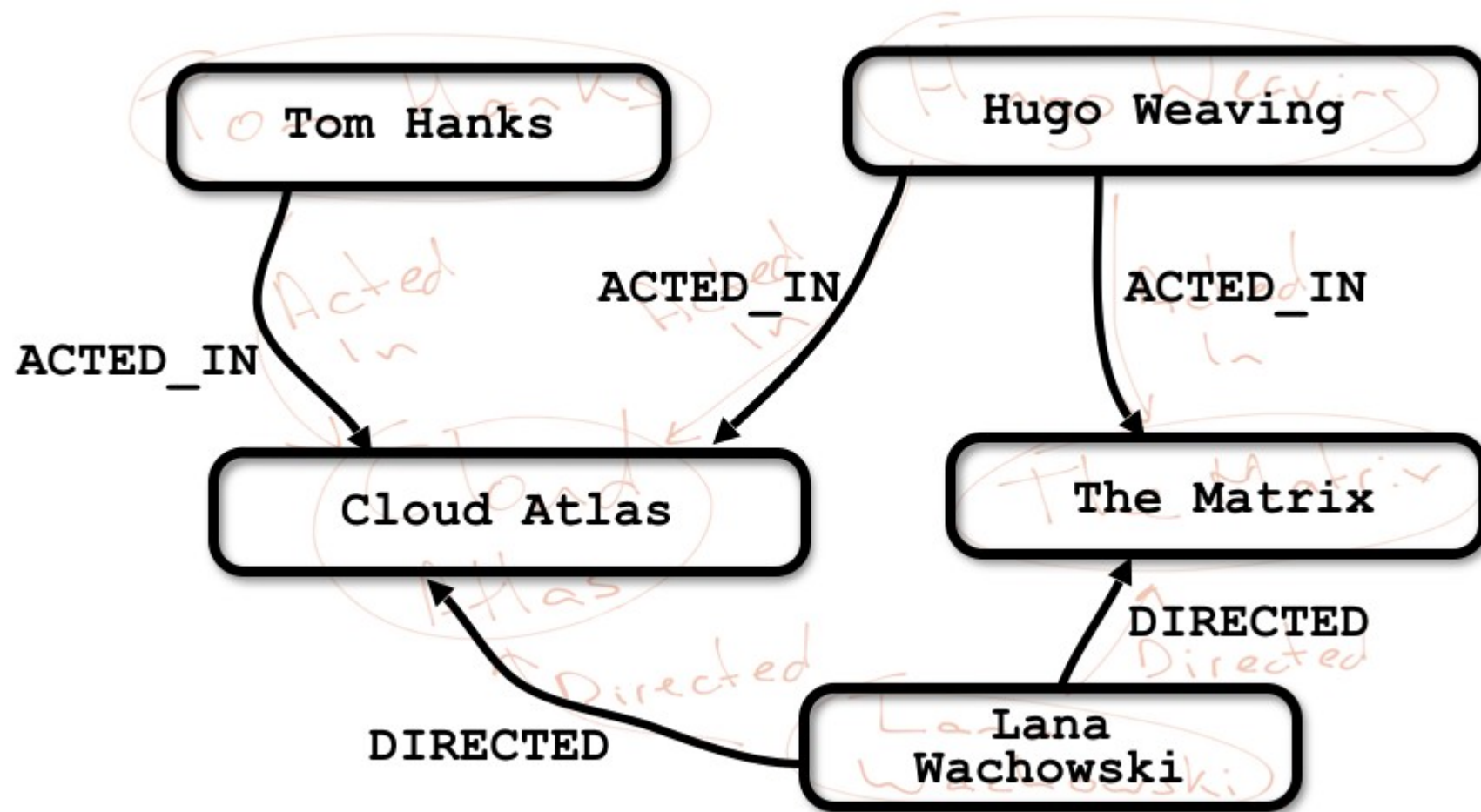


# Data Modeling with Graphs

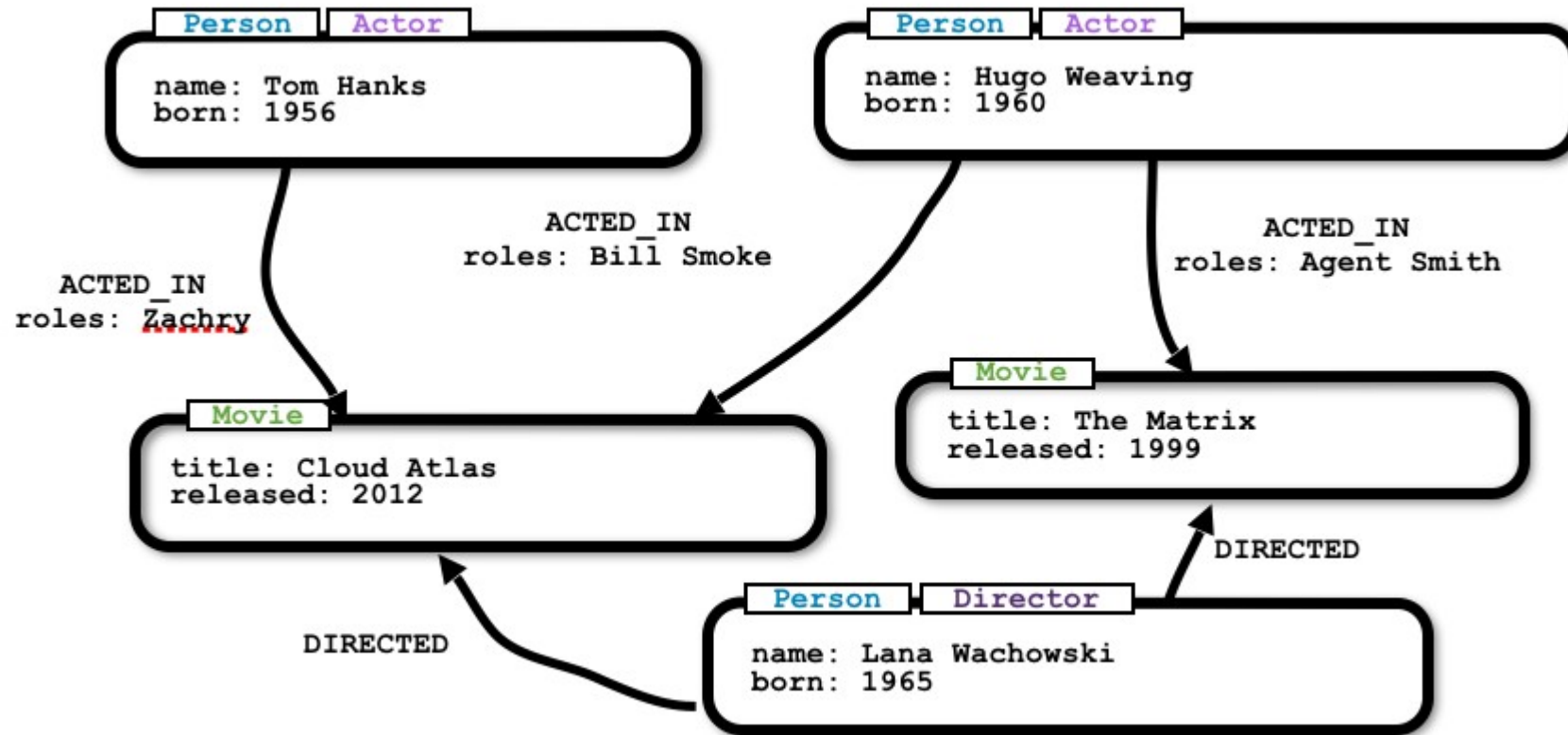
- Very close to what people draw on whiteboards
- Should focus on the psychology of the end user



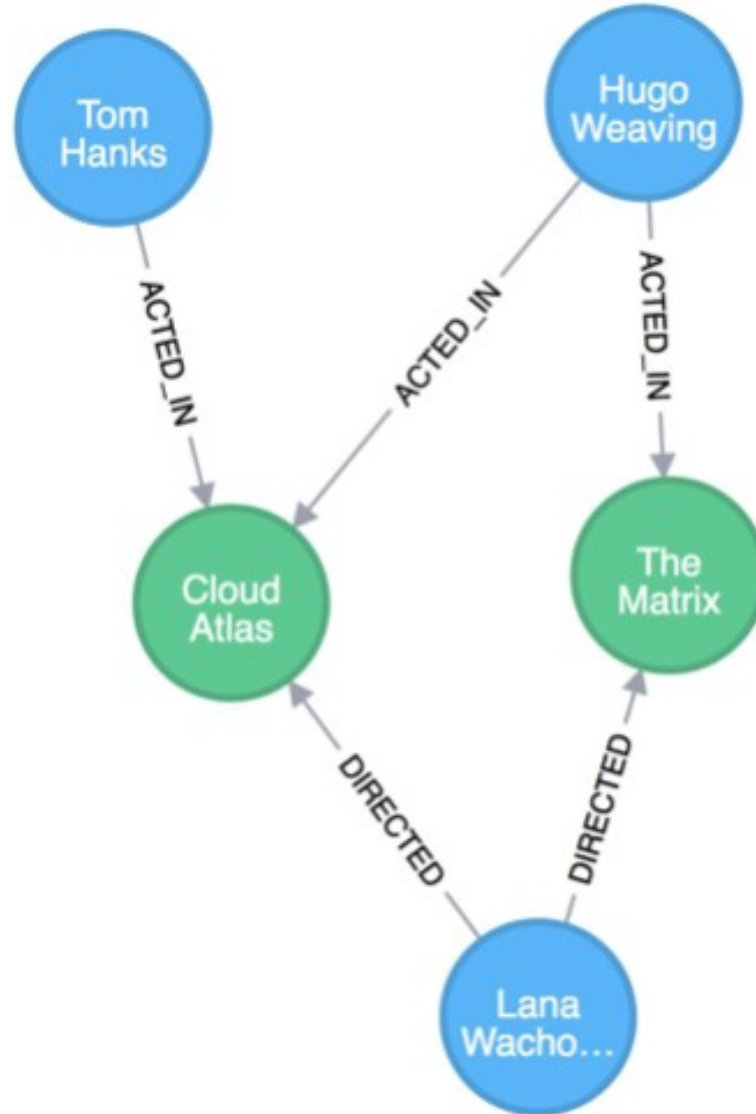
# Formalize our entities a bit



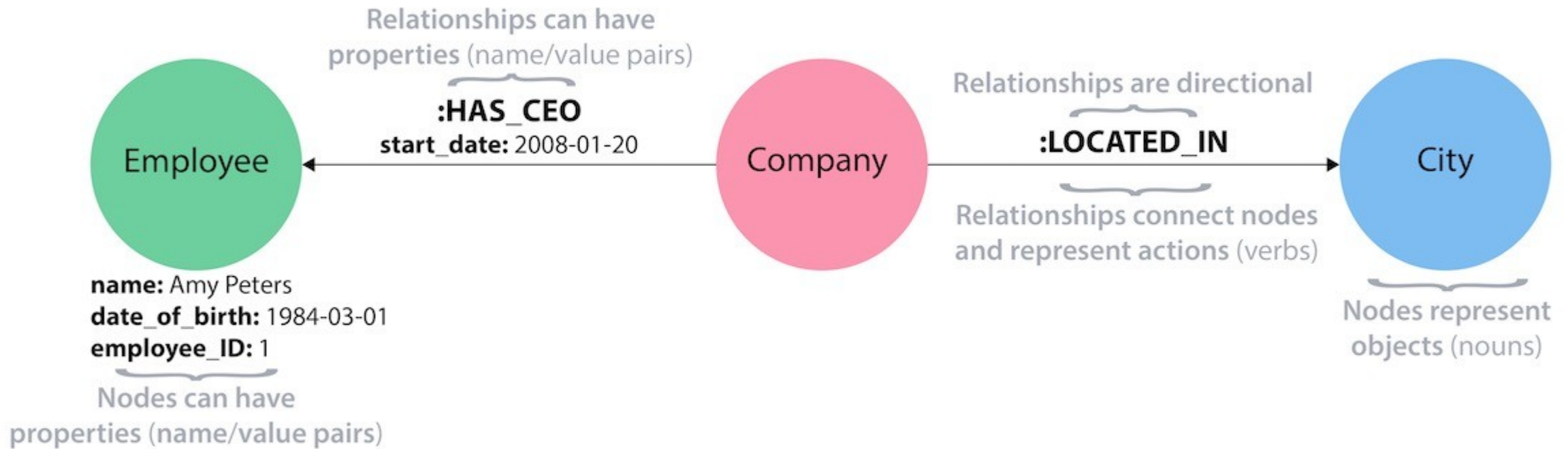
# Add labels and properties



# Final model in Neo4j



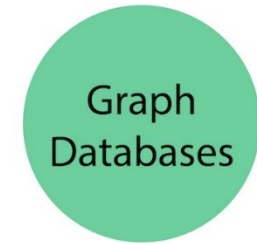
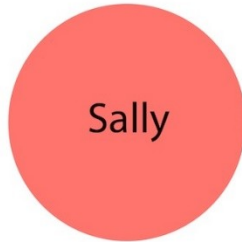
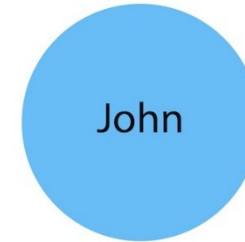
# Describing a Domain





# Nodes

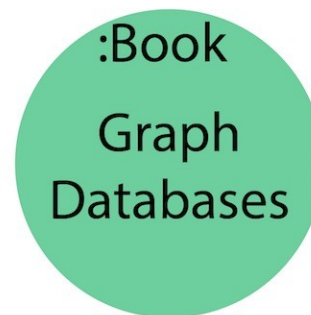
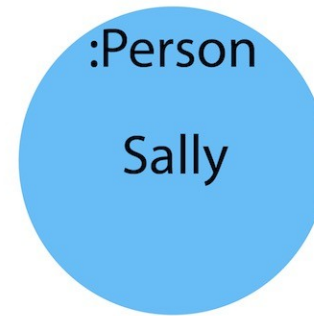
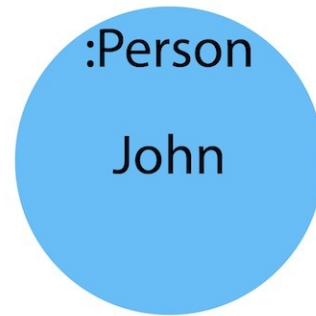
- Fundamental unit that form a graph
- Represent entities
- Find nodes by identifying nouns
  - Car, a person, a customer, a company
- Scenario - Defining Nodes
  - Two people, John and Sally, are friends. Both John and Sally have read the book - "Graph Databases"
- Extracting the nodes:
  - John
  - Sally
  - "Graph Databases"





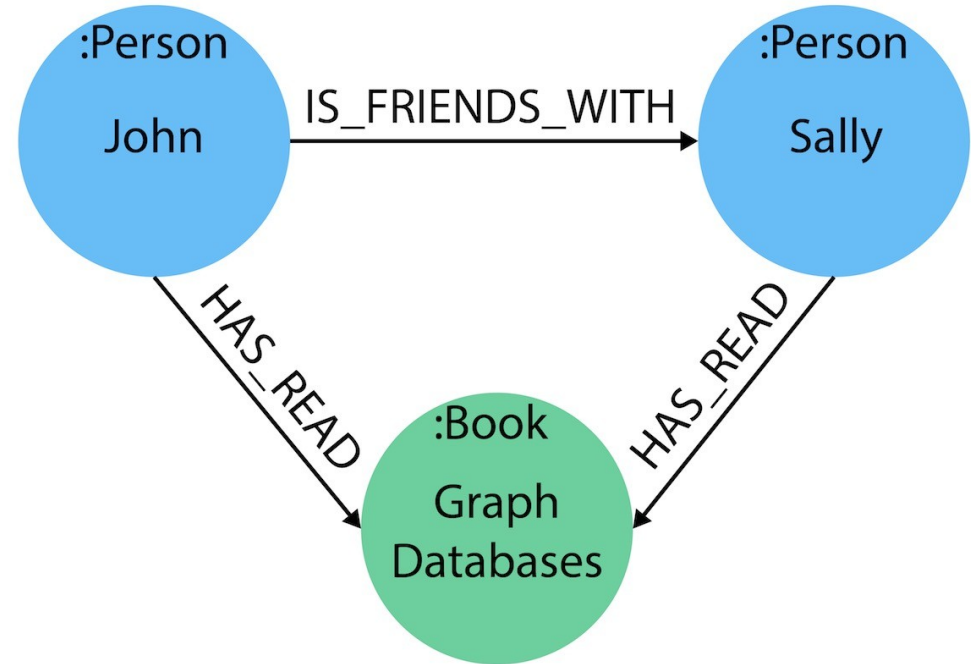
# Labels

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



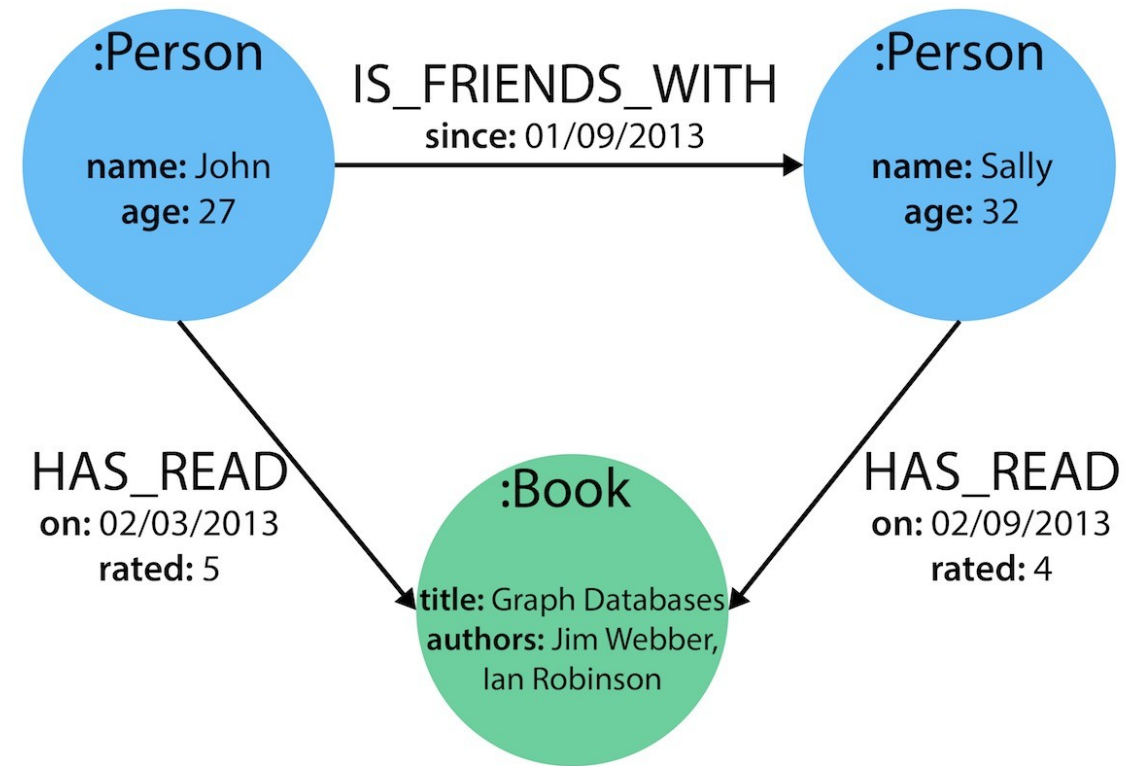
# Relationships

- 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



The image features a central photograph of two hands shaking in a firm grip, symbolizing agreement or partnership. This is set against a background of a city skyline with various skyscrapers. A large, semi-transparent teal shape, resembling a stylized 'L' or a large bracket, is overlaid on the right side of the image. In the top left corner, there is a small inset showing a bar chart with five bars of increasing height. On the right side, partially obscured by the teal shape, is a circular graphic containing the text 'average 45%'. A bright light flare is visible near the point of the handshake. A white rectangular box with a thin black border is positioned on the left, containing the text 'THANK YOU' in blue capital letters. A solid teal horizontal bar runs across the bottom of the image.

**THANK YOU**