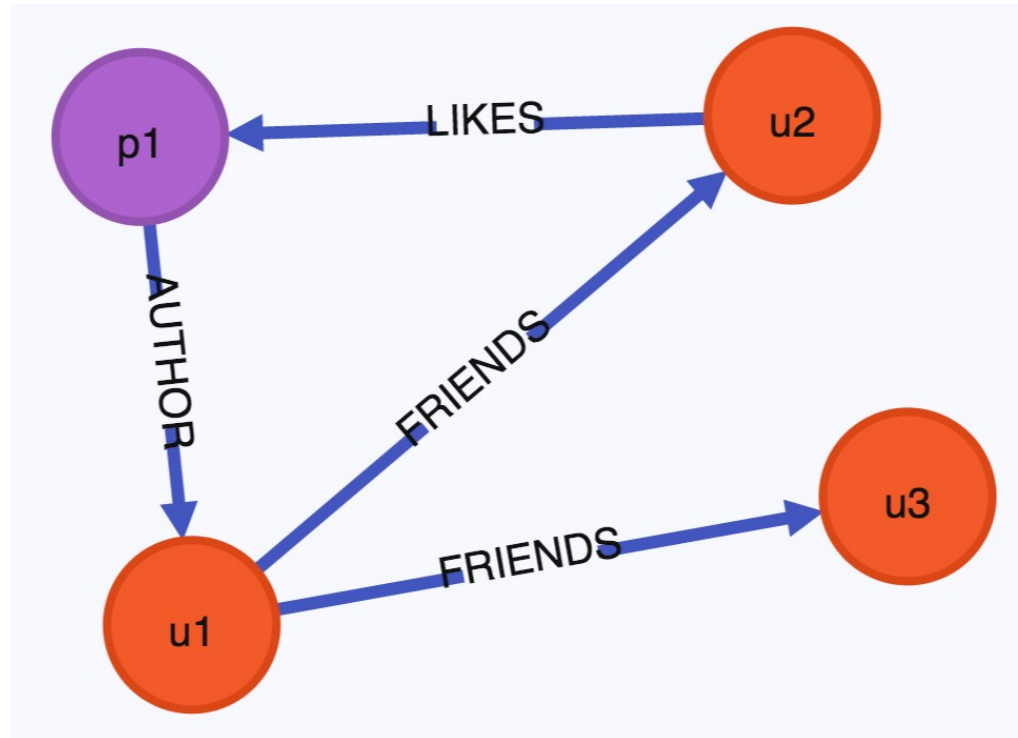




# Introduction to Graph DB

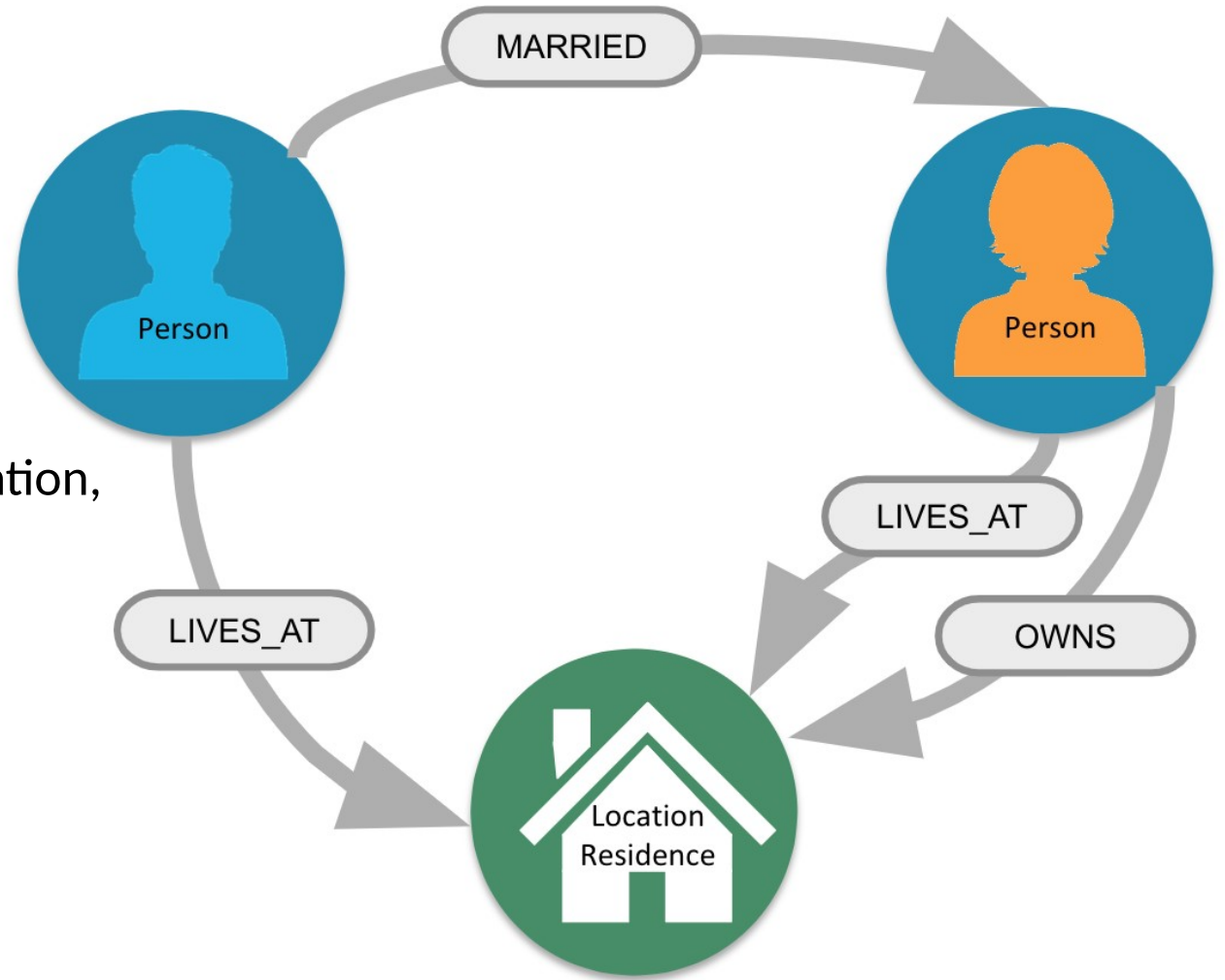
# What Is a graph database?

- DBMS with CRUD operations working on a graph data model
- Relationships take first priority in graph databases
- Application doesn't have to infer data connections using foreign keys



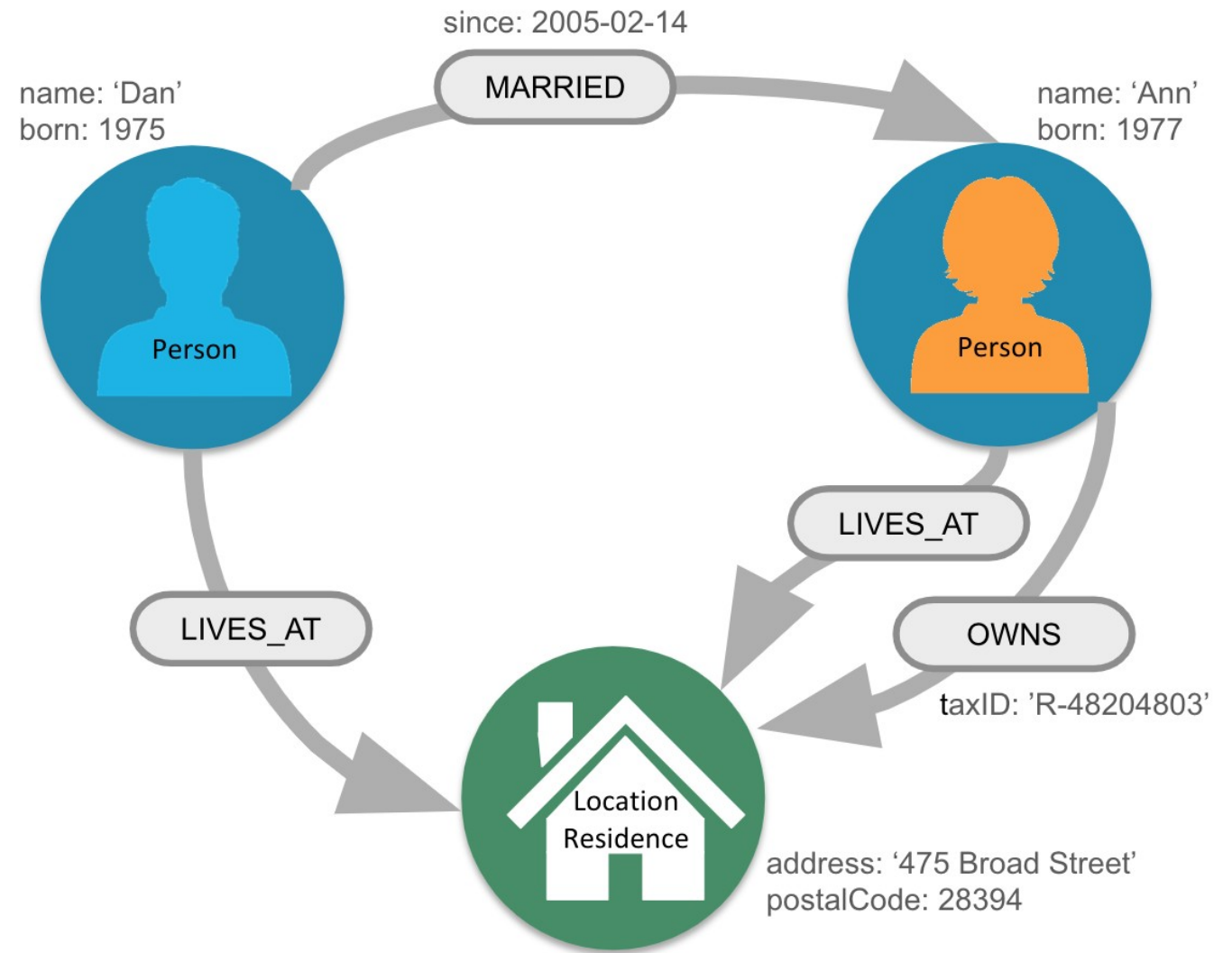
# What is a graph?

- Composed of two elements
  - Nodes
    - Represents an entity (a person, place, thing, category or other piece of data)
  - Relationships
    - Relationship represents how two nodes are connected
    - For example, the two nodes Person and Location, might have the relationship LIVES\_AT



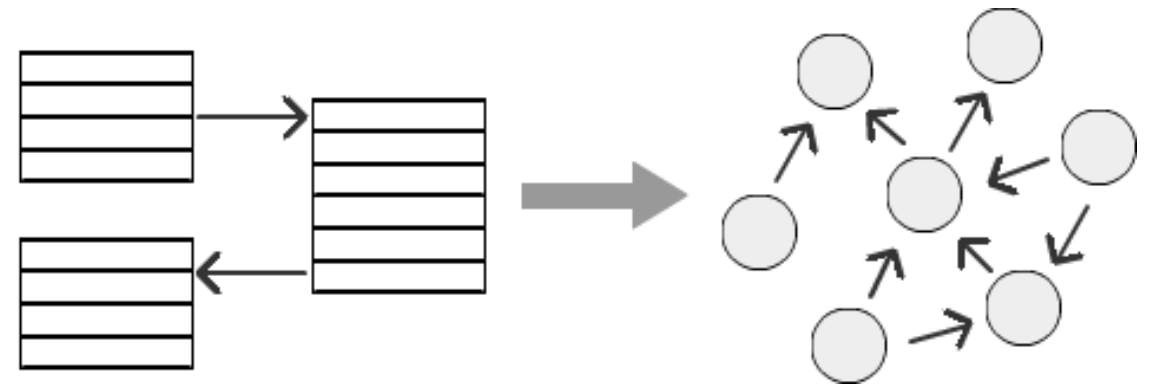
# What is a graph?

- Neo4j database is a property graph
- To further enrich the graph model can add:
  - Properties
  - Relationships

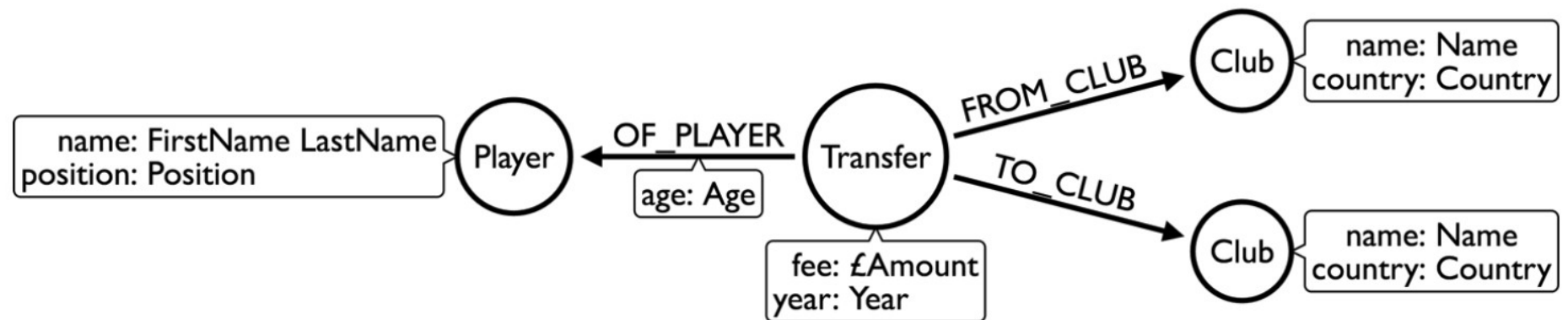
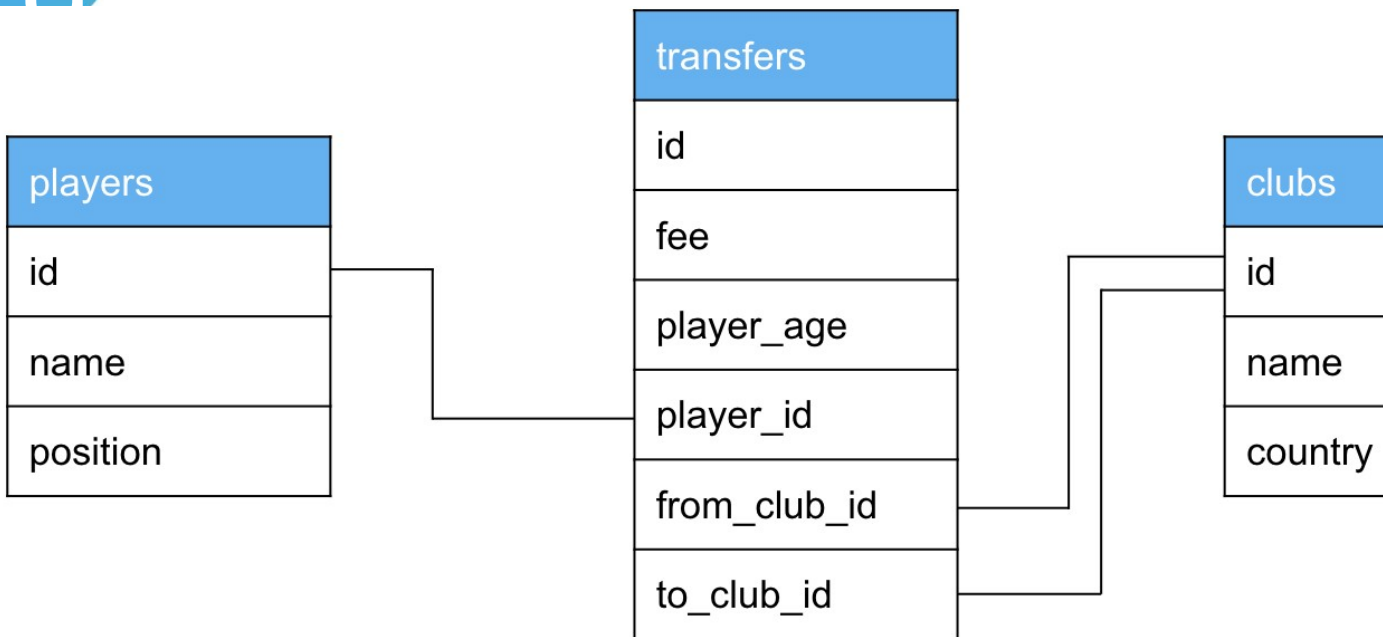


# Modeling relational to graph

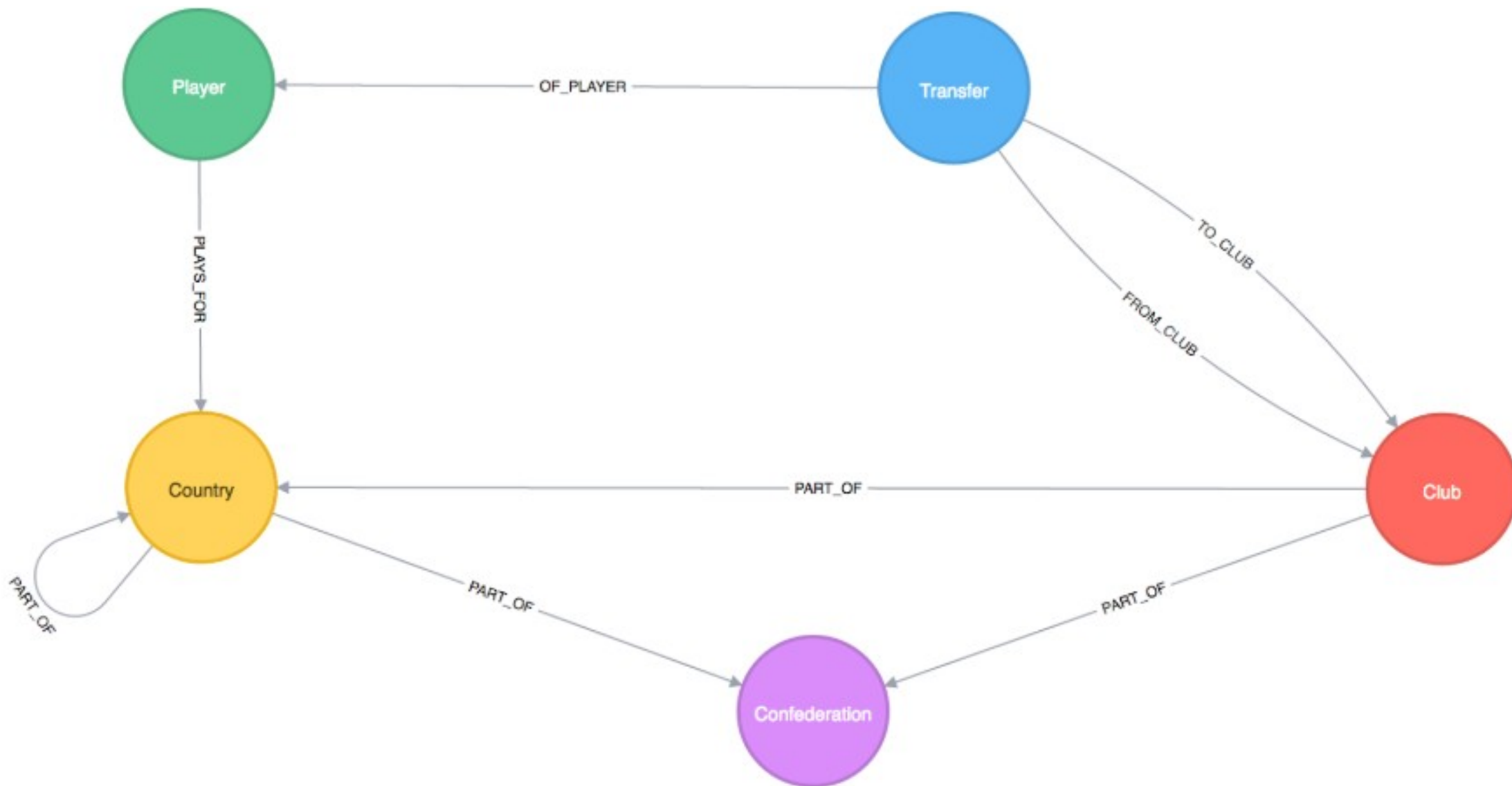
Relational	Graph
Rows	Nodes
Joins	Relationships
Table names	Labels
Columns	Properties



# Modeling relational to graph



# Modeling relational to graph



A composite image featuring a handshake in the foreground, with a city skyline and a teal geometric overlay in the background. A white text box with the words 'THANK YOU' in blue is positioned on the left side of the handshake.

**THANK YOU**