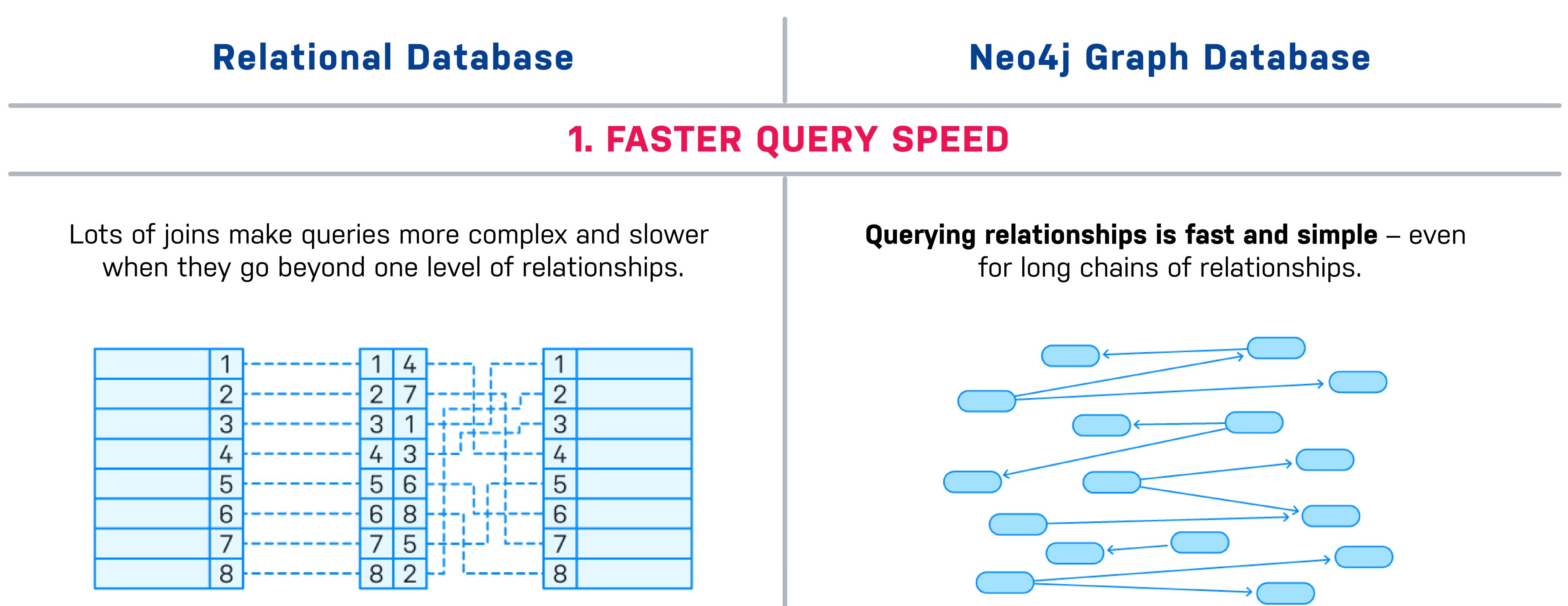
neoqj

5 Advantages of Graph Databases vs. Relational Databases

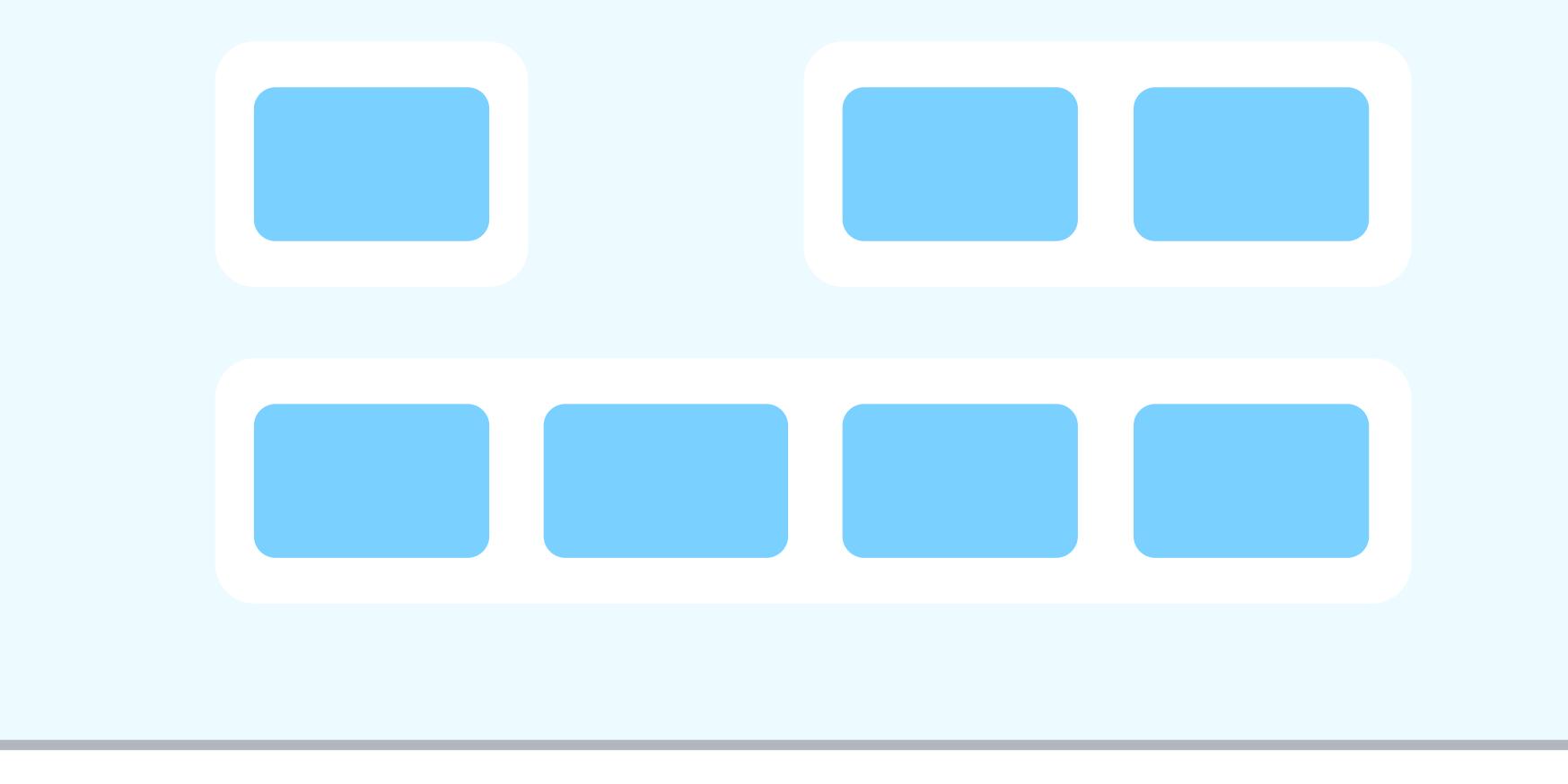
Query and analyze your data faster, easier, and more deeply with Neo4j Graph Database. Move from slow and overly complex relational databases to graph technology.



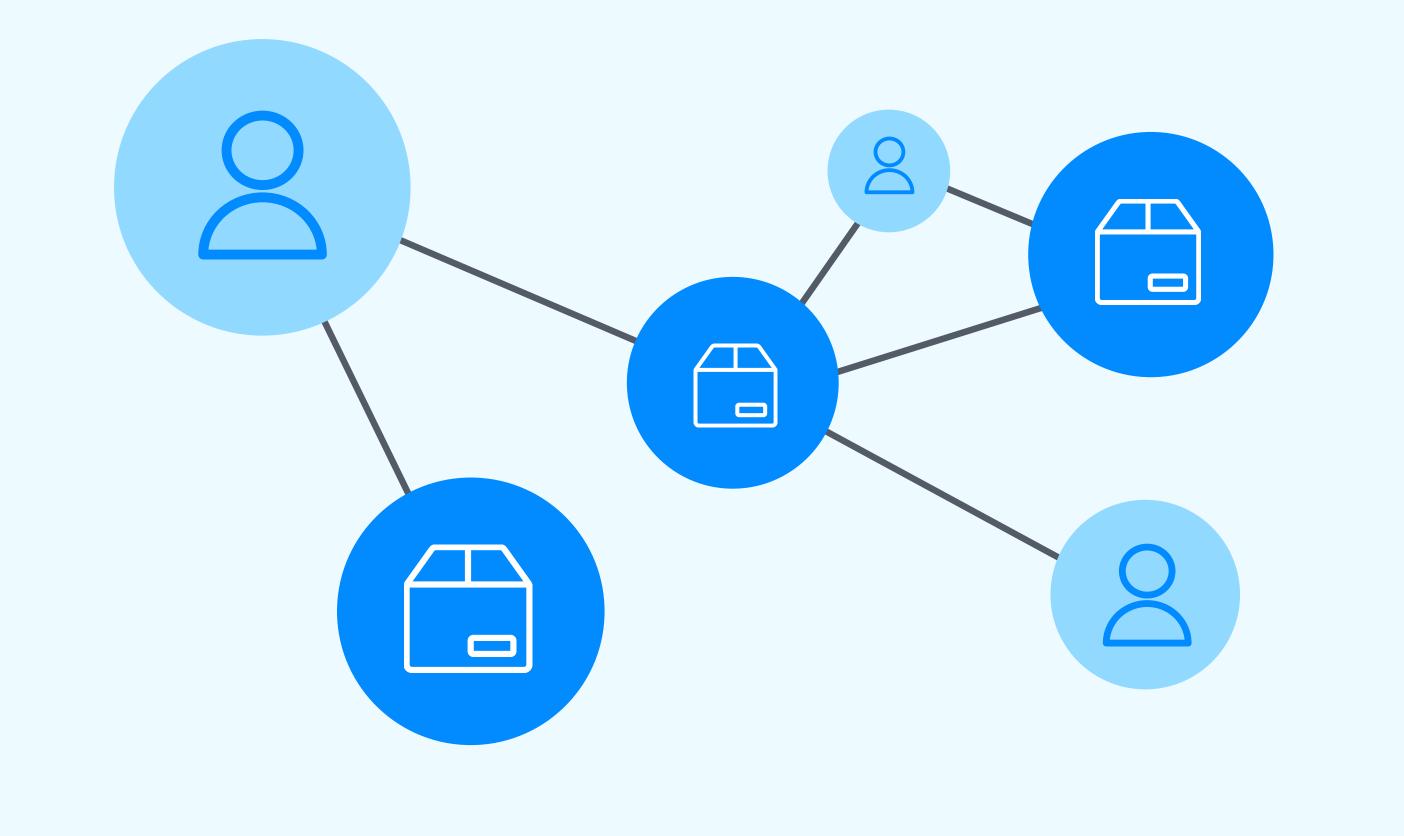


2. UNDERSTAND DEEPER RELATIONSHIPS

Integrating siloed and distributed datasets is complex and challenging to do in a performant way (e.g., complex ETLs, correlating disparate data, etc.).



Graphs make it easy to navigate deep-level data relationships. Siloed datasets can easily be brought together in a performant way to support deep insights.

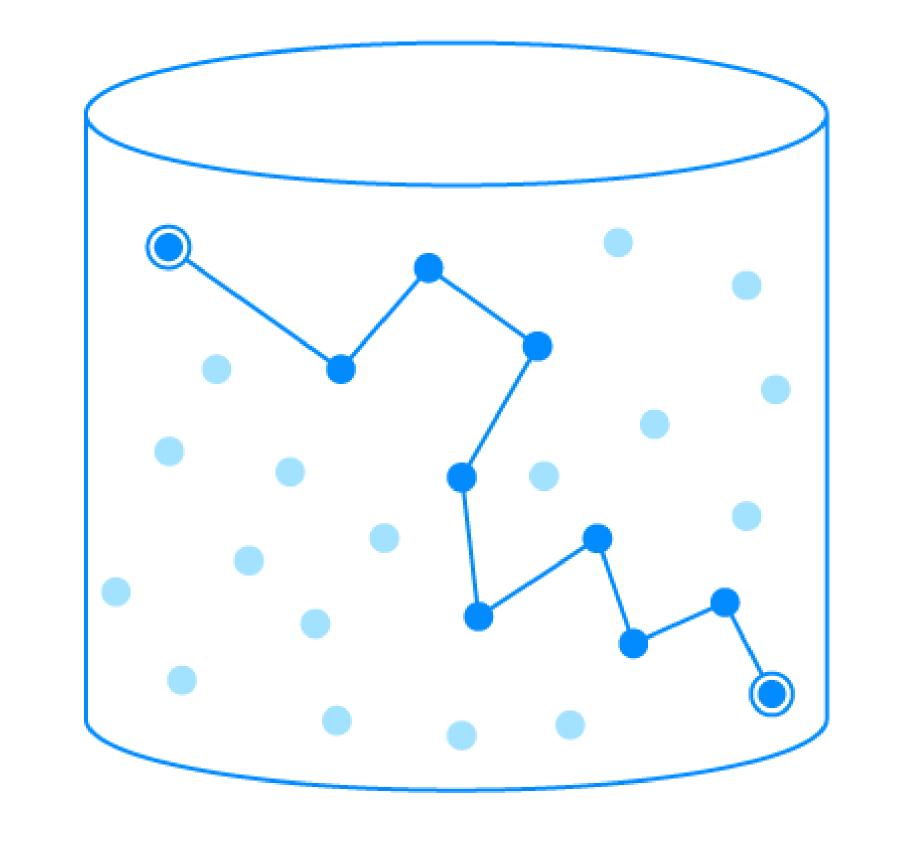


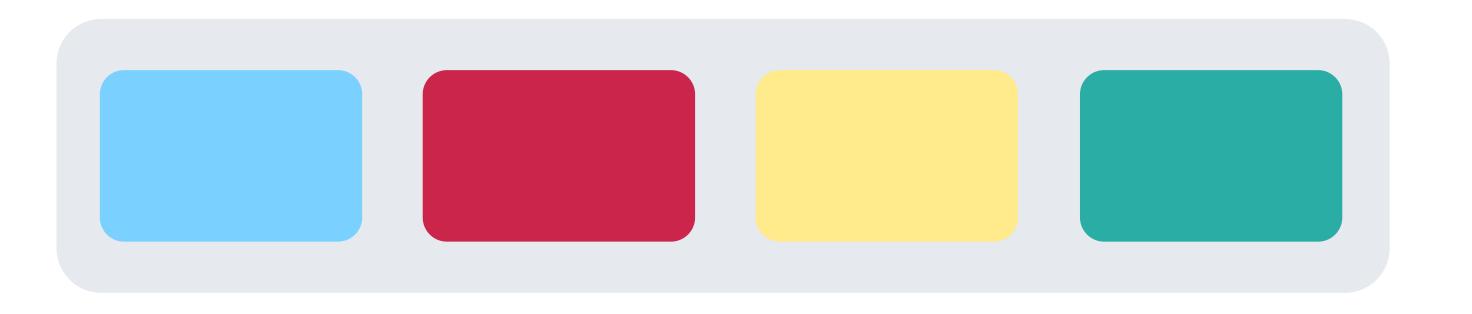
3. SCALING FLEXIBILITY

Changing business needs leads to frequent schema changes and application or database redesign.



Responding to change is easier with schema flexibility and has minimal impact on query performance.



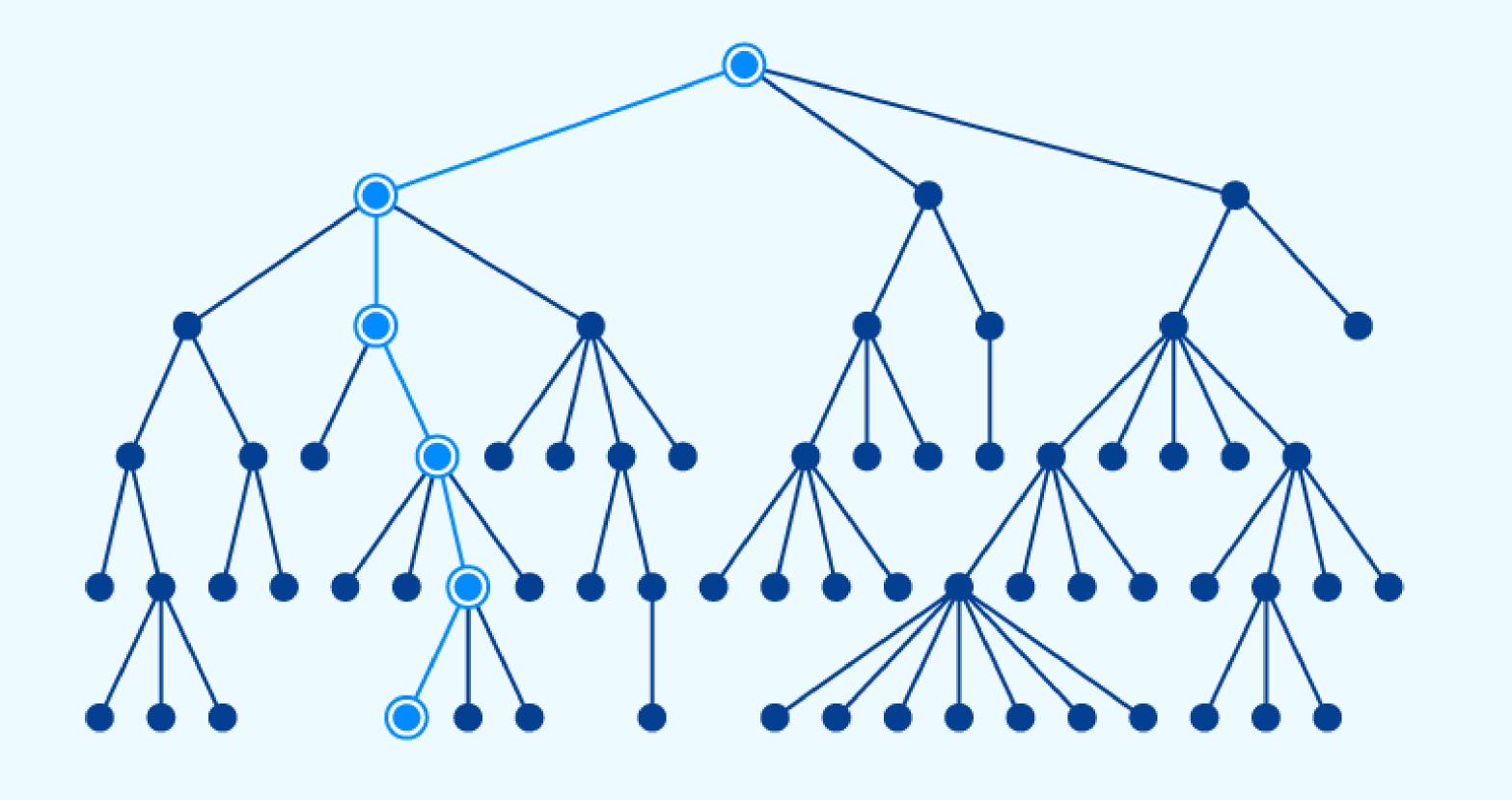


4. CONNECTED DATA ANALYSIS

Relational databases are best suited to access data with simple logical conditions and aggregations.

new customer	1	2	3	4
email	JSmith@gmail.com	AJones@gmail.com	JWill@gmail.com	ABrown@gmail.com
first name	John	Adam	Julie	Alex
last name	Smith	Jones	Williams	Brown
date aquired	06.21	10.18	02.15	09.22

Graph databases are suited to use connected data to address problems like pattern matching, routing, and massively connected data.



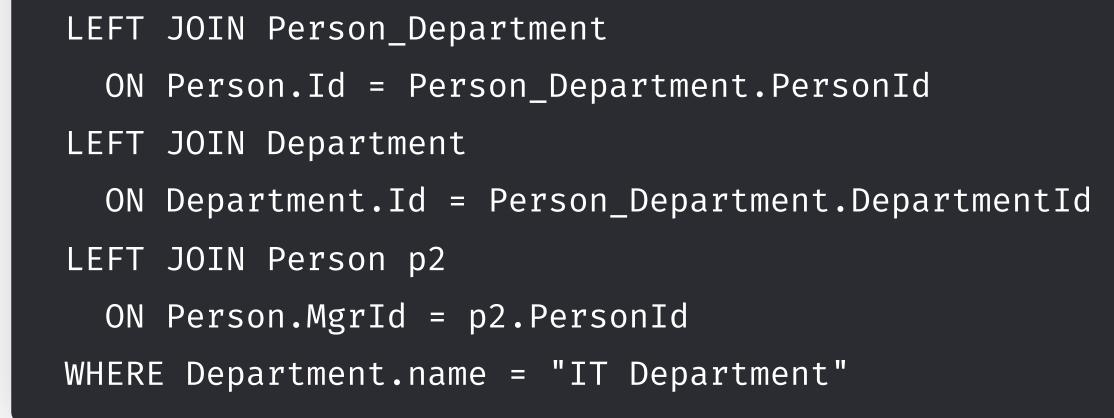
5. INTUITIVE QUERY LANGUAGE

SQL queries are complex for many recursive traversals and joins. This leads to code that is confusing and difficult to maintain.

SQL queries	
SELECT name, p2.name as Manager FROM Person	

Cypher queries are intuitive and easy to understand. This makes them faster to create and maintain and reduces chances of errors.

Cypher query



MATCH $(mgr:Person) - [:MANAGES] \rightarrow (p:Person) - [:WORKS_IN] \rightarrow (d:Department)$ WHERE d.name = "IT Department" RETURN p.name, mgr.name as Manager

Ready to learn how a graph database can improve your data insights?

Try AuraDB Free, our fully managed graph database as a service.

Start Now

Neo4j is the world's leading graph data platform. We help organizations – including Comcast, ICIJ, NASA, UBS, and Volvo Cars – capture the rich context of the real world that exists in their data to solve challenges of any size and scale. Our customers transform their industries by curbing financial fraud and cybercrime, optimizing global networks, accelerating breakthrough research, and providing better recommendations. Neo4j delivers real-time transaction processing, advanced AI/ML, intuitive data visualization, and more. Find us at **neo4j.com** and follow us at **@Neo4j**.

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