

shared is well-defined

unexpected problems

Hard to query complex

relationships

✓ Clear and easy to track when

- Getting rigid when dealing with

30

| | | | |
|---------------------------|--|---|---|
| Data Model | Structured | Unstructured | Structured, semi-structured, or unstructured |
| Query Language | SQL | No fixed query language | Gremlin, Cypher, Graph Query Language (GQL), SPARQL Protocol and RDF Query Language (SPARQL), and PostgreSQL (PGQL) |
| Scalability | Vertical | Horizontal | Horizontal / vertical |
| Data Storage | Fixed rows and columns | Documents | Nodes and relationships |
| Schema | Pre-defined | Dynamic | None |
| Hierarchical Data Storage | Not suitable | Suitable | Not suitable |
| Use Cases | Atomicity, consistency, isolation, durability (ACID) compliance, data warehouse, online analytical processing (OLAP), online transaction processing (OLTP), and structured data analysis | Content management, real-time big data, and user profiles | Fraud detection, social networking, and recommendation engines |



















name: 'GNColors',







key: 'colors-gn',

colors: 1



name: 'Fluorescent Green'

types: "colors",



key: "2020EE2C",



typography: "color",























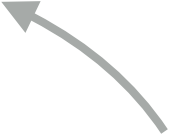
















✓ Easy to adjust when a

hierarchy to deal with

continuously changing problems

✓ optimized for answering

(graph traversal algorithms)

questioning relationships

Comparison

Data as Models

Source: <https://www.g2.com/articles/document-databases>









Comparison