RZOLUT

Graph Database

A database that represents and stores data using graph structures for semantic searches using nodes, edges, and properties. A graph database is useful for analyzing data relationships and interconnections; as a result, it is seeing widespread use in social media data mining, and data with dynamic schemas. Graph databases provide benefit over data warehouses for enterprise-wide analytics.

Use Cases

- Detecting money mules & mule fraud
- Real-time fraud detection
- Master data management
- Criminal investigation
- Customer 360-degree analysis
- Network and IT operations
- Identity and access management
- Contact tracing
- Supply chain mapping

Advantages

- Improves performance
- Object-oriented thinking
- Updates data in real-time and support queries simultaneously
- Makes powerful recursive path query easily accessible
- Flexible online schema environment
- Better problem-solving
- Agile structures
- Spots outliers
- Able to work with information skew

Trends

- The global graph database market was worth around $1,827.5 million in 2021 and is estimated to grow to about $5,996.25 million by 2028, with a CAGR of approximately 21.9% over the forecast period
- By 2025, Gartner expects a 70% growth in data & analytics breakthroughs fueled by graph technology and by 2023, graph technology will play a role in the decision-making process for 30% of businesses globally
- TigerGraph recently used the graph database benchmarks to scale its database to support 30 terabytes (TB) of graph data, up from 1 TB in 2019 and 5 TB in 2020