Financial Services & Graph Technology
How Top Firms Use Graph Databases

Fraud Detection & Anti-Money Laundering

A global 50 bank uses Neo4j to perform AML investigations on thousands of transactions per day. Before Neo4j, an investigation took 10-15 days. Now they investigate tips in real time. The company sees millisecond query responses, faster due diligence and a significant reduction in false positives. The solution on Neo4j.

A leading money transfer firm quickly analyzes complex relationships across billions of data points. D&B built its beneficial ownership links in less than a second. CERVED uses Neo4j to identify millions of registered agents and relationships. Cerved's time to identify beneficial owners in real-time can account for 15-30 per cent of the cost of an investigation, reducing money laundering risks.

A Fortune 500 credit card company had its customer fraud cost above 1% of revenue. The bank has over 1 million nodes and 6 million data relationships in Neo4j. The bank supports the latest fraud detection and recovery tools in real time. UBS uses Neo4j to restrict user access to assets, activities, decision-making and technical debt. Vanguard uses Neo4j to promote coding best practices and eliminate technical debt.

Improved Enterprise Operations

With Neo4j, financial services firms model complex assets used in a changing marketplace, connect disparate systems and data sources and drive offers that increase customer engagement and internal efficiencies. Lending Club uses Neo4j to gain real-time views of its complex, highly related data. Vantage uses Neo4j to ensure information security at its core. Itaú Unibanco, Brazil’s largest bank, uses Neo4j to uncover millions of dollars of fraud in the first year.

Reliable, Secure IT

While the financial services sector is advanced in its use of technology, it is also a highly regulated industry. Cybersecurity is among the top concerns of IT organizations around the globe.

Cybersecurity

Cyber threat intelligence data is high volume, unstructured and highly related. Cybersecurity view graph technology as fundamentally game-changing. Source code from law enforcement in real time. The bank has about 1 million nodes and 6 million data relationships in Neo4j. The bank analyzed a billion nodes in less than 24 hours. The bank supports the latest fraud detection and recovery tools in real time.

Recommendations

Data silos, including merchants, customers, transactions and more. Using Neo4j, the firm built an MDM solution to connect all its data, including 1 million merchants.

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