Additional Database Solutions

What is a Graph Database

A graph database is a database that uses graph structures for semantic queries with nodes, edges, and properties to represent and store data. The graph relates the data items in the store to a collection of nodes and edges, the edges representing the relationships between the nodes.
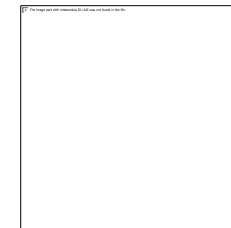
Social Networking

Recommendation Engines

Fraud Detection

Amazon Neptune

Amazon Neptune is a fast, reliable, fully managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Amazon Neptune is a purpose-built, high-performance graph database engine optimized for storing billions of relationships and querying the graph with milliseconds latency.
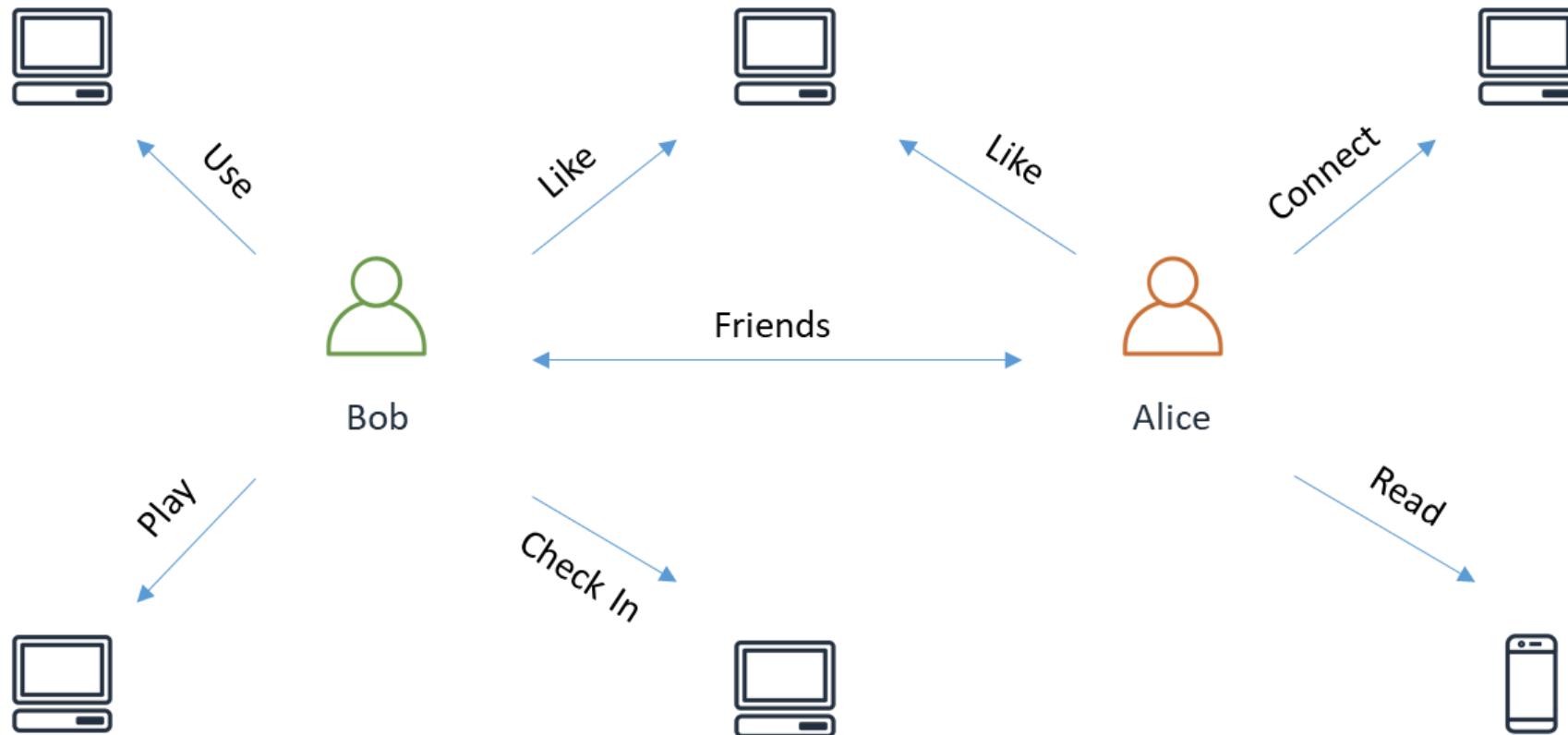
Amazon Neptune supports popular graph models Property Graph and W3C's RDF, and their respective query languages Apache TinkerPop Gremlin and SPARQL, allowing you to easily build queries that efficiently navigate highly connected datasets.
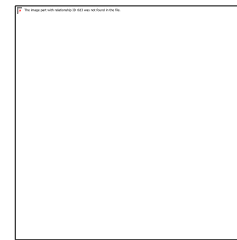
Amazon Neptune

Amazon Neptune – Use Case
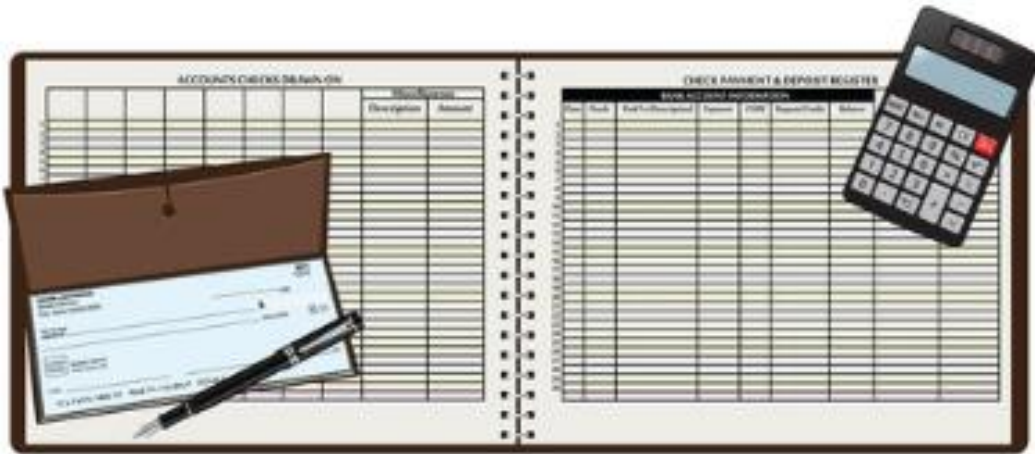
Social Network Platform

Amazon Quantum Ledger Database (QLDB)

Amazon QLDB is a fully managed ledger database that provides a transparent, immutable, and cryptographically verifiable transaction log owned by a central trusted authority. Amazon QLDB tracks each and every application data change and maintains a complete and verifiable history of changes over time.

Amazon Quantum Ledger Database (QLDB)

Amazon Quantum Ledger Database (QLDB)

vs.

Amazon Quantum Ledger Database (QLDB)

Key Features

- No need to build ledger like application
- Immutable
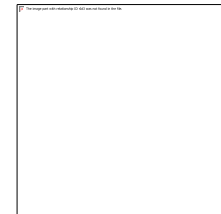- Cryptographic protection

Typical Use Case

Banks often need a centralized ledger-like application to keep track of critical data, such as credit and debit transactions across customer bank accounts. Instead of building a custom ledger which has complex auditing functionality, banks can use QLDB to easily store an accurate and complete record of all financial transactions.

Amazon Timestream

Amazon Timestream is a fast, scalable, fully managed time series database service for IoT and operational applications that makes it easy to store and analyze trillions of events per day at 1/10th the cost of relational databases.

Timestream is a purpose-built time series database that efficiently stores and processes this data by time intervals. This allows you to store and analyze log data, telemetry data and sensor data from IoT devices. Timestream is serverless, so there are no servers to manage.

Amazon Timestream

Next Video

Route53 & DNS