

Graph Database Market by Model Type (RDF, LPG, Hypergraph), Offering (Solutions, Services), Analysis Type (Community Analysis, Connectivity Analysis, Centrality Analysis, Path Analysis), Vertical, and Region - Global Forecast to 2028

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Abstracts

The global graph database market size to grow from USD 2.9 billion in 2023 to USD 7.3 billion by 2028, at a Compound Annual Growth Rate (CAGR) of 20.2% during the forecast period. Graph databases find their applications in linguistics, chemistry, and social networks. For instance, the integration of technology enables the user to demonstrate the relationship between people and their organizations. Companies operating in the market have come up with several use cases to describe specific graph database applications in multiple industry verticals. One such instance is fraud detection using the graph database technology developed by Ravelin Technology. Ravelin visualizes graph databases to identify suspicious nodes. The company has developed its own proprietary graph database solution to generate a full graph for any given data set in single-digit microseconds.

The cloud segment to have the largest CAGR during the forecast period

By deployment mode, the graph database market has been segmented into on-premises and cloud. The CAGR of the cloud deployment mode is estimated to be the largest during the forecast period. The cloud-based deployment helps businesses more efficiently process and report data findings, enhance collaboration, and enable decision-makers to get faster access to business intelligence leading to its higher adoption in the graph database market.

The native graph database segment to have the largest CAGR during the forecast

period

Native graph database is a specialized database management system designed to efficiently store, manage, and query graph-structured data, where entities (nodes) are connected by relationships (edges). Unlike traditional relational databases, native graph databases are optimized for traversing complex relationships and performing graph-oriented queries. They enable the representation of real-world connections in a more intuitive and natural manner, making them particularly well-suited for use cases like social networks, recommendation systems, fraud detection, and knowledge graphs.

The healthcare, pharmaceuticals, and life sciences segment to have the largest CAGR during the forecast period

Graph databases offer significant advantages to the healthcare, pharmaceutical, and life sciences sectors due to their ability to model and query complex relationships within data. Graph databases can help researchers identify potential drug targets by analyzing the interactions between proteins, genes, and pathways. Relationships between proteins and diseases can be modeled, aiding in the validation of therapeutic targets.

Among regions, APAC to hold higher CAGR during the forecast period

APAC is expected to grow at a good pace during the forecast period. Opportunities for smaller graph database vendors to introduce graph database solutions for numerous sectors have also increased. All these factors are responsible for the expeditious growth of the graph database market in the region. Companies operating in APAC continue to focus on improving customer services to drive market competitiveness and revenue growth. China, Japan, India, and ANZ have displayed ample growth opportunities in the graph database market.

Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the graph database market.

By Company: Tier I: 35%, Tier II: 45%, and Tier III: 20%

By Designation: C-Level Executives: 35%, D-Level Executives: 25%, and Managers: 40%

By Region: North America: 30%, Europe: 30%, APAC: 25%, MEA: 10%, Latin America: 5%

The report includes the study of key players offering graph database solutions and services. It profiles major vendors in the global graph database market. The major vendors in the global graph database market include Oracle Corporation (US), IBM Corporation (US), Amazon Web Services, Inc. (US), DataStax (US), Ontotext (Bulgaria), Stardog Union (US), Hewlett Packard Enterprise (US), ArangoDB (US), Blazegraph (US), Microsoft Corporation (US), SAP SE (Germany), Teradata Corporation (US), Openlink Software (US), TIBCO Software, Inc. (US), Neo4j, Inc. (US), GraphBase (Australia), Cambridge Semantics (US), TigerGraph, Inc. (US), Objectivity Inc. (US), Bitnline Co, Ltd. (US), Franz Inc. (US), Redis Labs (US), Graph Story (US), Dgraph Labs (US), Eccenca (Germany), and Fluree (US).

Research Coverage

The market study covers the graph database market across segments. It aims at estimating the market size and the growth potential of this market across different segments, such as components, type, deployment mode, organization size, application, vertical, and region. It includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report would provide the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market for graph database and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights better to position their business and plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers

(Need to incorporate real-time big data mining with result visualization, Growing demand for solutions to process low-latency queries, and Adoption of AI-based graph database tools and services), restraints (Shortfall of standardization and programming ease), opportunities (Lack of technical expertise), and challenges (Enterprise data unification and rapid proliferation of knowledge graphs, Semantic knowledgeable graphs for addressing complex scientific research, Emergence of open knowledge networks) influencing the growth of the graph database market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the graph database market.

Market Development: Comprehensive information about lucrative markets – the report analyses the graph database market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in graph database market strategies; the report also helps stakeholders understand the pulse of the graph database market and provides them with information on key market drivers, restraints, challenges, and opportunities

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players such as Microsoft (US), SAP (Germany), and IBM (US) among others in the graph database market.

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