ANZO®

Modern Data Discovery and Integration Platform for Enterprise Data Fabric

Anzo is the scalable knowledge graph platform for data integration and analytics.

Anzo enables managers and workers to ask any question across all enterprise data. Unlike other data discovery and integration tools, Anzo applies a semantic, graph-based data fabric layer over your data infrastructure, capturing the real-world meaning of all your data sources – structured and unstructured alike. Anzo then constructs your data into knowledge graphs at massive enterprise scale, eliminating data silos and enabling exciting new levels of business insight on demand.

Anzo's unique use of semantics and a graph data model in easy to use tools makes it practical for virtually anyone in your organization – from skilled data scientists to novice business users – to drive the data discovery and integration process and build their own analytics-ready datasets, with enterprise-scale data governance and security.

With Anzo, companies make their enterprise data available to business users to fuel pervasive analytics and digital transformation. Citizen data scientists and business analysts can now explore your enterprise data with ad hoc and/ or predefined questions, blend data across previously siloed platforms, and build bespoke, analytics-ready datasets in minutes – all without IT help or specialized skills.

Anzo maps enterprise data to document its location, content and contextual business meaning; to expose connections between datasets; and to enable rapid visual data exploration and discovery. With Anzo, data scientists and other data consumers in the business build blended, analytics-ready datasets by iteratively cleansing, transforming, aligning and linking data from multiple previously disconnected enterprise data platforms.

ANZO®
Key Use Cases

Global industry-leading organizations rely on Anzo for modern data management that enables new, breakthrough business insights while providing the technical agility essential to effectively manage today's explosive data growth:

Customer 360 Build a comprehensive view of customer interaction across channels to optimize customer insight, offers, revenue and service.

Resilient Supply Chain Monitor your digital supply chain twin in a unified platform to understand vulnerabilities, stress test your supply chain, and dynamically react to disruptions.

Accelerated R&D Link data related to specific compounds, materials or products so existing research and knowledge is effectively used to accelerate product development and innovation.

Fraud Detection Find relationships and patterns of activity across entities, accounts and assets to identify anomalies and potential fraud signals.

Optimized Clinical Care Give providers integrated information about available treatments, medications and research to improve patient care and outcomes.

Integrated View of Complex Business Provide business users with a single view of the enterprise spanning siloed operating groups or merged entities.

Anzo transforms your original, raw data sources into fit-for-purpose, analytics-ready data in three primary steps:

Select existing data sources. Built-in data pipelines and automatically generated queries connect to structured/semi-structured data sources such as RDBMS, CSV, XML, and JSON. Natural language processing (NLP) is used to find and extract data from unstructured content (e.g., PDF, DOC, TXT). Anzo translates newly onboarded data into resource description framework (RDF) format, cataloging the location, models, transformations, lineage and security of all onboarded data.

Augment your Knowledge Graph. Anzo uses the specified data sources to automatically construct a knowledge graph. Data is mapped into business-friendly standards-based semantic graph models to combine onboarded datasets based on business meaning, data overlap, and pattern recognition. Data can be cached in memory ahead of time or virtualized to bring in data at query time. Unlike traditional data models that require defining all data joins in advance in a single, universally agreed-upon schema, Anzo graph models flexibly capture the business meaning of all data using the everyday terms and relationships understood by users.

Knowledge graphs can be further augmented with built-in tools for data profiling, transformation, validation, ML integration, and complex graph algorithms. While traditional data tools must generate multiple new copies of data to execute rigid ETL processes requiring manual SQL and other coding, Anzo models and manipulates massive datasets in seconds. This breakthrough performance is made possible through Anzo's embedded graph database and in-memory massively parallel processing (MPP) query engine, rapidly loading data into memory and fully traversing complex knowledge graphs in seconds. Deploy your knowledge graphs to any cloud provider through Kubernetes, directly to on-prem servers, or a combination of both.

Access, analyze and visually explore blended data with your tools of choice. Anzo lets users easily "pivot" their data exploration and ask entirely new ad hoc questions without having to re-engineer a traditional rigid data schema to accommodate unanticipated lines of inquiry. Users can access and query desired data natively within Anzo through its Hi-Res Analytics module in native graph format, or export data for use with external tools such as R, Tableau, PowerBI, and TIBCO Spotfire, using OData or REST endpoints.

Cambridge Semantics Inc. is a modern data management and enterprise analytics software company. Our product Anzo® enables organizations in Financial Services, Government, Healthcare, Life Sciences, Manufacturing, Retail, and other sectors to accelerate data delivery and provide meaningful insights enterprise-wide at hyper-speed and scale.

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