Denodo Assistant: Delivering on the Promise of Intelligent Data Fabric

Despite significant investments in modern data platforms that consolidate vast amounts of structured and unstructured data, many organizations continue to struggle with growing business demands for data. While data lakehouses provide scalable storage, unified analytics, and powerful compute for analytical workloads, not all data resides in the lakehouse, and not every use case benefits from centralization.

Real-time operational reporting, AI applications that require live enterprise context, and scenarios where data must remain in place for governance or compliance are just a few examples where centralized architectures fall short.

The Denodo Platform complements data lakehouses and other modern data investments by adding a logical data access layer that integrates, governs, and delivers data in real time across cloud, on-premises, and SaaS environments, without replication. This enables simplified, universal access to data, regardless of its location. Denodo Assistant builds on this foundation with AI-powered capabilities that accelerate data management tasks, helping data engineers and business users deliver trusted data faster and more efficiently to every consumer and application, including GenAI and AI-driven analytics. Denodo Assistant further simplifies this process by intelligently connecting and managing diverse data sources through AI-powered capabilities that augment or automate data-related tasks. By providing intelligent, real-time access to data, it empowers data engineers and business users alike to uncover insights faster, make better decisions, and extract more value from data with minimal manual effort.

The Key Features of Denodo Assistant

CONVERSATIONAL ACCESS TO DATA
Denodo Assistant enables users to interact with enterprise data through a conversational interface, similar to a chatbot, asking questions in natural language to discover trusted data products and insights. By leveraging the Denodo semantic layer and governance policies, responses are grounded in consistent business definitions while simplifying data access for both business and technical users.

RECOMMENDED DATASETS
By automatically suggesting relevant datasets and data products based on users' previous activities, Denodo Assistant simplifies data discovery and accelerates self-service analytics. This helps teams quickly find the right data for analysis while also discovering new datasets, enabling new insights and smoother exploration.

DATA PREPARATION WIZARD
With intelligent recommendations, Denodo Assistant enables users of all technical backgrounds to easily customize data products. This enables data products to be quickly tailored to different use cases without constant involvement from the data team, freeing them to focus on more strategic tasks.

SUGGESTIONS FOR VIEW AND COLUMN DESCRIPTIONS
Denodo Assistant automatically generates meaningful descriptions for views and columns using AI, making data assets easier to create and understand. This improves data clarity, promotes collaboration across the organization, and enables faster onboarding, leading to more effective data governance.

AUTOMATIC SUMMARY RECOMMENDATIONS
Denodo Assistant analyzes query patterns and recommends summary caches to optimize query performance. By improving execution speed, it provides faster access to critical insights, enabling timely business decisions without delays from slow data retrieval methods.

QUERY WIZARD RECOMMENDATIONS
Denodo Assistant provides step-by-step guidance through query creation, making it easier for users of all skill levels to generate accurate queries. This democratizes data access across the organization, fostering consistent data usage without overloading the technical staff.

INTELLIGENT AUTOCOMPLETION IN VQL SHELL
Denodo Assistant offers context-aware suggestions while users write queries, helping to construct them more efficiently. This reduces errors, accelerates the query-building process, and enables teams to access data without getting bogged down in technical details.

LLM-BASED DATA ENRICHMENT
Denodo Assistant enables users to automatically summarize text, extract information, analyze sentiment, remove sensitive data, and translate text using Large Language Models, available as functions directly within VQL.

AI-GENERATED JOIN RECOMMENDATIONS
Denodo Assistant accelerates view creation with AI-generated join condition suggestions, even when there are no pre-defined associations between tables. This streamlines development workflows and reduces manual effort for data engineers.

NATURAL LANGUAGE TO VQL CONVERSION
Denodo Assistant converts plain-language queries into precise VQL syntax, enabling anyone to build complex queries without VQL expertise. This streamlines query creation, reduces technical barriers, and accelerates time to insight.

AI-DRIVEN TAGGING FOR GOVERNANCE
With intelligent recommendations for tagging data assets, Denodo Assistant simplifies classification and security policy application. This ensures consistent, efficient governance while making it easier to maintain compliance across the organization.