

AI-POWERED DATA DISCOVERY

Getting the “right” data for BI/Analytics is an unnecessarily labor-intensive process, with too much data fragmented across multiple systems, vendors and locations. For businesses to be competitive, they need answers immediately. The old way of taking weeks or months to manually search for data, run complex ETL jobs, followed by the error-prone assembly of data to query leave business users waiting, exasperated, and losing precious time to market.

- **Go beyond finding the data. Know what questions the data can answer before you start!**
- **Discover data across ALL systems, vendors and locations for the most relevant and complete answers**
- **Ad-hoc analysis completed in seconds versus months**

The Data Navigation System (DNS) leverages AI with 3 modules to address this problem:

- NLP-driven data exploration allows users to discover data by simply asking questions in English.
- Automated mapping of relationships & detailed instructions make it easy to assemble the data needed to answer the question.
- Instant conversion of data to SQL + 1 click Federated Queries to retrieve answers to the question.

These modules enable different teams or a single user to ask a question in plain English.

Promethium then:

- Executives or business users only need to ask the question.
- IT ensures the proper data sources are connected.
- Promethium automatically reveals data required
- Data analyst confirms or edits Promethium’s suggestions
- Promethium automatically converts data to an executable query using AI
- Data analyst confirms or edits the SQL statement created with Promethium’s SQL AI
- Business user executes query and views result





DISCOVER

- Use natural language to ask questions in plain English
- Automatically reveal data that matches the intent of the question
- Fast (millisecond) response time to retrieve data across all sources / vendors



VERIFY

- Automatically reveal relationships of data related to question in real-time
- ML-driven display all possible choices / options
- Instant integration lineage, data quality, glossaries & tags for governance



EXECUTE

- Automatically generate a valid SQL statement in seconds with no coding.
- Execute an efficient federated query possible of spanning multiple sources
- Real-time integration with BI tools for instant visualization

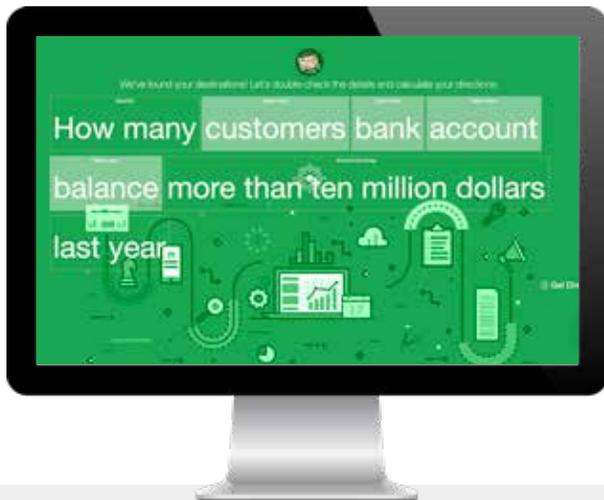


Figure 1. Ask a question in natural language. Promethium then determines context, intent & the data required.

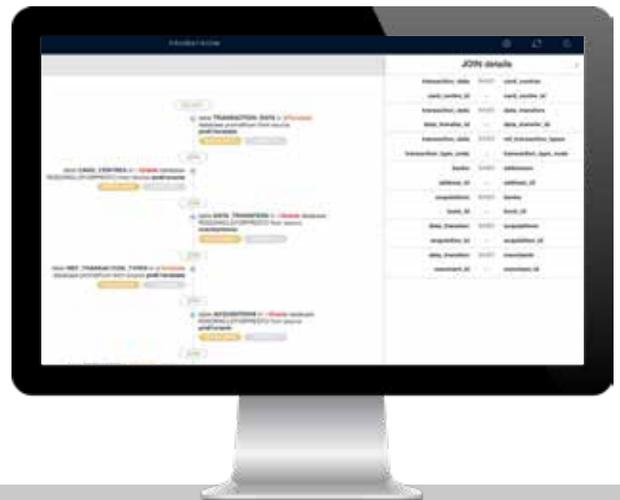


Figure 2. Promethium identifies what data you need, where it comes from and how to join the data as well as the valid SQL statement.

HOW DO I GET IT?

DNS will be available through Promethium and its network of channel partners. DNS can be installed natively in the cloud or on-premise, and supports all major flavors of RDBMS, HDFS and S3 data sources.

ABOUT PROMETHIUM

Promethium is an augmented data management provider and the first company to combine natural language processing with self-service analytics, which allows users to tap their organization's entire data estate for answers to questions asked in plainspoken language. Promethium's AI and ML-driven contextual automation software delivers actionable insight within minutes instead of months (with sub-second query times) while ensuring all data used to deliver information is fully governed. Promethium was founded in 2018 and is headquartered in Menlo Park, California.

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