

Ensuring Your Data Is Consistent & Trustworthy

Today, more and more businesses rely on data to make critical business decisions that drive operational efficiency, product development and the bottom line and it all begins with trusting your data. Such trust must be built around a solid data governance platform, and while many companies have no idea where to start, the challenges they face are well known.

- Where is all of the data I need?
- How can I trust the quality and accuracy of my data?
- Which version do I use?
- What does this data mean?

Promethium addresses these challenges with an AI-driven solution that automatically displays the specific data needed to answer a given topic or question in a single, integrated view. The user is presented not only with the specific data assets required, but also the data type, its location, and the best way to assemble the data. Once automatically assembled, Promethium identifies any possible issues such as data quality, the location of duplicates and the data's lineage. Now, data governance teams have one tool that gives them the highest level of confidence that their data is accurate and trustworthy.

Conflict Resolution & Matching

It is often the case when building a query that multiple tables have the same name, which creates confusion and doubt around what data you actually need and the accuracy of the data that you chose. Promethium solves these issues. When promethium detects more than one table with the same name, an "m" for "multiple" will appear in the directions. For example, one table might be all caps, one might be in oracle, and another in sql. Promethium then eliminates time spent determining which table is the best choice by providing you with a "match score" for each table, showing you how well the data in that table can address your query. Promethium automatically defaults to the table with the highest score, but you can easily choose another table if you wish, which will change the outcome of your query. Unlike a black-box, promethium provides the rationale and data behind the match score so users have a way of deciding which data to select.

Real Time Data Governance

- Govern data for each query
- Global coverage for all data sources
- Identify issues BEFORE it's too late

Integrated Process

- Integrate existing/new data catalogs, business glossaries & lineage tools

High Degree of Accuracy

- Multiple layers of verification across entity resolution, provenance, data quality & data model matching



Figure 1. M Q L icons appear to indicate more than one instance of the same data exists. Data quality issues and available lineage detected.

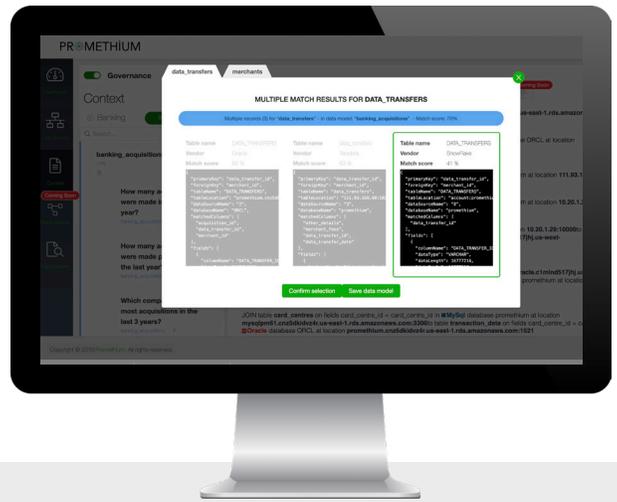


Figure 2. Promethium identifies duplicates and recommends which is the best fit.

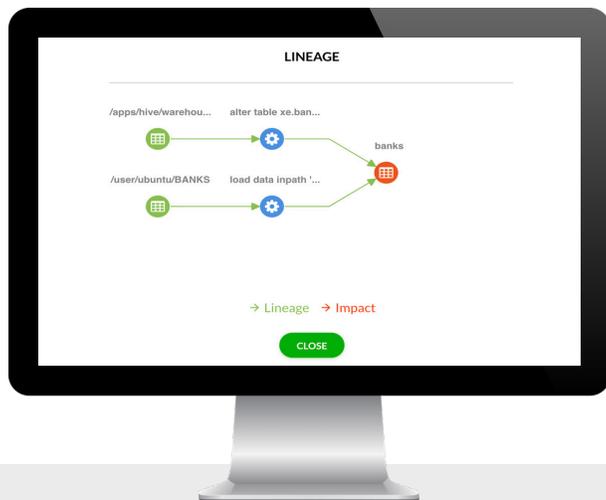


Figure 3. "L" notifies user of data's lineage.

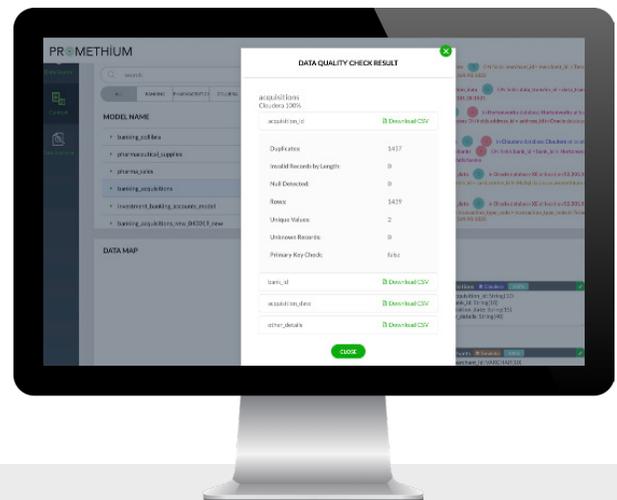


Figure 4. Promethium automatically shows potential data quality issues.

Lineage

Promethium integrates with your existing ETL or lineage tools to automatically display easy to understand lineage information related to each step in the directions. When you click on the "L" icon that appears, it tells you where the data came from and the transformation process that occurred to result in the data in question. With Promethium, understanding where the data came from, what happened to it along the way, and the resulting outcome is fast and easy.

Data Quality

To further strengthen a user's confidence in their data, Promethium automatically presents a data quality assessment on a per-query basis. This check is done for every table or file, and is represented by a "Q" on each line of the automatically generated SQL statement (aka "Directions" in Promethium). By clicking on the "Q" the user quickly sees a range of data quality elements, such as:

- The existence of duplicate values and their locations
- Invalid record lengths
- Unknown records
- Unique values
- Null values which provides insight into the quality of the data that has been chosen

Promethium can then output the data to a preferred data prep tool for easy cleansing or transformation. The Data Prep tool now has knowledge of the specific data source, database, file, column, and row where the data quality issues exist, saving multiple hours/days/weeks from manually searching for the right data to cleanse. With Promethium, data governance is no longer a manual process demanding days or weeks of preparation. Data governance is done in real time, presenting you with only the data you need to answer your specific query across all of your data sources. Promethium's fully automated solution provides a fast and consistent process that ensures the highest level of data quality across the enterprise.

About Promethium

Promethium is breaking the conventional process and doctrine around analytics and big data by providing a fully automated solution that helps enterprises govern their data at enterprise scale. Now, organizations can not only find all of their data across disparate data sources, but understand the context of that data upfront, helping them become faster, more effective and more accurate with analytics and governance.

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