

How to Implement a Semantic Layer for your Lakehouse

Make Your Data Speak the Language of Your Business



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"A semantic layer is a **business** representation of corporate data that helps end users access data autonomously using common business terms."

Semantic Layer - Wikipedia https://en.wikipedia.org/wiki/Semantic_layer

What does a semantic layer do?

A semantic layer provides the agility, consistency, and control needed to scale enterprise BI and AI



Where does a semantic layer fit?



What does a semantic layer do?



What does a semantic layer look like?



How is a semantic layer used?

Use Cases

METRICS STORE

Single source of governed enterprise metrics that can be self-served from any AI/BI tool.

OLAP MODERNIZATION

Migrate legacy OLAP (e.g. SSAS) models to modern cloud-first infrastructure.

BRIDGING AI AND BI

Common view of data assets and platform for publishing Algenerated insights to decision makers.

CLOUD OPTIMIZATION

Speed of thought analytics on live cloud data, agile data integration with minimal data movement.

How to deploy a semantic layer







Why Databricks & a Semantic Layer?

The Semantic Lakehouse

- 1. Intelligently leverage Databricks for Self Service BI use cases, eliminating the need for a BI serving layer
- 2. Deliver a semantic layer ("Semantic Lakehouse" or "Diamond Layer") for analysis ready data across popular BI, Data Science, and ML services
- 3. Migrate & modernize legacy cubing technologies like Cognos, SSAS, BO etc. to a Lakehouse



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Thank you



Dave Mariani