



Success Story

Enabling a Single Source of Truth with a Unified Data Model

Objective

A large US Enterprise struggled with an unstructured and unscalable legacy data warehouse. They wanted to modernize their data infrastructure to get real-time insights and address various organizational requirements, so they approached Exavalu.

Client Situation

The client was facing a serious problem while replacing their existing asset management system with advanced architecture. Their transition required extensive refactoring of the enterprise data structures which meant almost a complete overhaul of the system.

Moreover, their current data warehouse (Teradata) was largely unstructured and contained more than 10 complex subject areas. And the absence of defined data marts further complicated the segregation of data into domains.

What deepened their challenge was the system's unscalability to support business agility and accelerate time to market.

Solutions

To address each of these challenges, we adopted a phased and deeply collaborative approach:

- Assessed and designed a migration roadmap to AWS Redshift.
- Optimized their reporting capabilities by analyzing 360+ reports, 15+ Webi Universes, and 70+ queries.
- Developed 7 data marts and organized 10+ subject areas for better governance.
- Built a unified dimensional model with 130+ dimensions and 40+ facts.
- Streamlined ETL source-to-target mapping of the dimensional model.

Tech Stack: Data Modeling, Redshift

Benefits

- Provided a unified business data model to address various business requirements for the modern data platform.
- Rationalized data models to reduce query complexity and improve insight generation.
- Standardized governance, enterprise data dictionary, and business glossary.
- Established a single source of truth for the enterprise.

Analyzed

10+ Subject Areas

360+ Reports

15+ Webi Universes

70+ Queries

Built Unified Data Model

130+ Dimensions

40+ Facts