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Fast-Tracking Cloud Migration of Legacy Assets with FactiMigrate

Executive Summary:

A large enterprise engaged Factspan to modernize its legacy data assets by transitioning from on-premises databases and reporting systems to a cloud-native architecture. Manual migrations were costly and error-prone, with limited scalability across teams.

Factspan deployed FactiMigrate, a GenAI-enhanced accelerator that automated schema mapping, code translation, and report conversion. The solution streamlined the migration of legacy artifacts to a modern data stack, reducing cost, improving accuracy, and setting the foundation for scalable analytics.

About the Client:

The client is a global enterprise with a diverse analytics footprint spanning legacy database systems, on-premise reporting platforms, and evolving cloud workloads. They were looking to accelerate the migration of hundreds of legacy pipelines into a modern cloud environment.

Project Highlights:

- **70%** reduction in manual SQL rewriting and report conversion effort
- **90%** automation success rate on schema and report mappings
- Enabled **700+** legacy assets to be migrated in under 10 weeks
- Significant SME time savings and documentation standardization
- Built foundation for scalable, policy-aligned cloud migrations

Business Challenge:

The client's reporting infrastructure was fragmented across legacy systems, many of which lacked documentation, were nearing end-of-life, or depended on SME-maintained codebases. Migration efforts were manual, requiring engineers to decode legacy logic, map schemas, and rebuild reports individually, slowing timelines and introducing risk.

A backlog of over 700+ SQL scripts and dozens of obsolete reports created operational drag. There was also a lack of standardization across source systems, making automation difficult without a unifying logic framework. The client sought a repeatable, semi-automated approach that could scale across lines of business while preserving data fidelity and governance alignment.

Our Solution:

Factspan deployed FactiMigrate, an AI-accelerated migration engine that streamlined the movement of legacy data assets to a modern cloud platform. The solution was rolled out in structured phases, discovery, inventory mapping, translation, validation, and rollout, with built-in auditability and reusability.

Key solution components included:

- **Legacy Asset Discovery:** Automated extraction of source schemas, reports, and lineage from legacy databases and reporting tools.
- **AI-Powered Translation:** GenAI models assisted in rewriting SQL, logic, and business rules into modern syntax for Snowflake and BigQuery.
- **Modular Mapping Templates:** Rule-based mappings enabled scalable conversion of similar asset groups without rework.
- **Data Validation Layer:** Auto-generated QA checks ensured consistency between source and target outputs.
- **Governance-Ready Outputs:** Migration metadata was versioned and stored for compliance traceability.

The engagement accelerated the client's roadmap by reducing dependency on SMEs and minimizing manual effort, paving the way for repeatable, policy-aligned cloud migrations.

Solution Architecture Overview



Factspan is a Data and AI company. We help global enterprises and product companies to collect, store, and manage their varied and complex data structures, identify patterns and trends, and build analytical models to analyse and deliver business outcomes.