

CASE STUDY

Data Engineering in Snowflake and Reporting in Power BI platform for Real Estate Investment Trust



Industry: Real Estate Investment Trust



Location: North America



Function: Invest in private-pay healthcare real estate (Life Science, Medical Office and Senior Housing)

Challenges:

- Excel based manual reporting and data consolidation
- Performance issues with BPC cube based reports
- Automation and distribution of reports

Results Achieved:

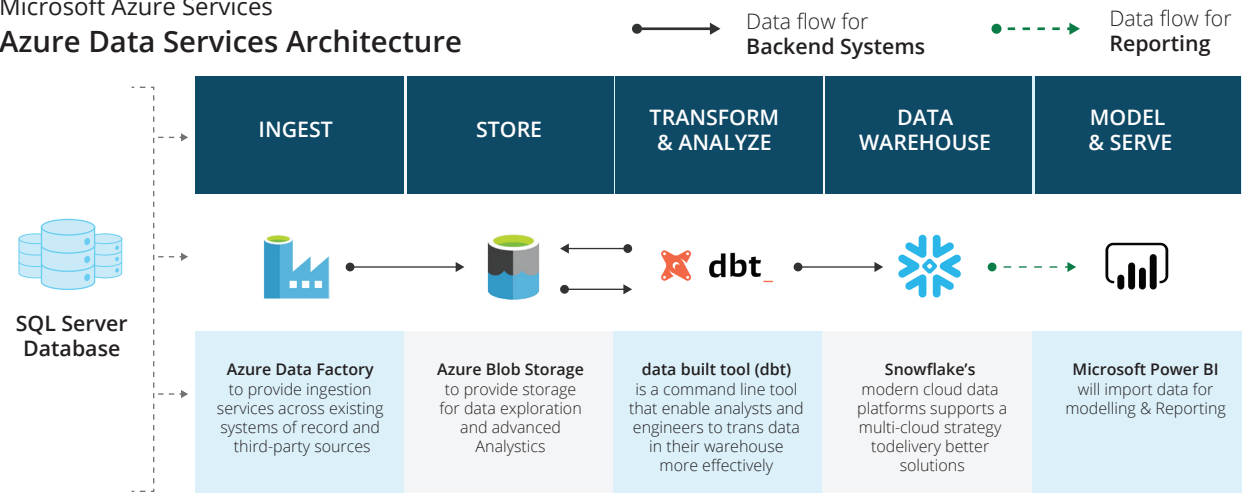
- Data analytics and reporting solution based on Azure, Snowflake, dbt and Power BI.
- Cost-effective and scalable solution with robust data governance standards to address the needs of a diverse user group/personas comprising of data analysts, business analysts, power users, line managers and executives.
- Automated and scalable ETL process to accommodate future business requirements
- Real time reporting and complete analysis on consumer demographic data.

Highlights:

- Designed Snowflake data model to enable robust performance, flexibility and maintainability
- Azure blob storage leveraged to stage data from source systems
- Data Build Tool (dbt) used for data transformation and modelling in Snowflake
- Intuitive Power BI dashboards with extensive drill down and drill through capabilities
- Implemented complex transformation and calculation to derive business critical KPIs
- Leveraged Mapbox custom visual in Power BI for business specific geo plotting
- Code maintenance, scheduling and monitoring of Azure Data Factory & dbt models using Azure DevOps - Agent Pool. Power BI Dataset refresh also automated through Azure DevOps

Microsoft Azure Services

Azure Data Services Architecture



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