WhereScape® automation for Snowflake

The Fast, Easy Way to Deliver Data Infrastructure Projects in the Cloud

Experts call the move to the public cloud the "great migration." As adoption continues to soar, it's only logical for organizations to look at their data warehousing requirements and wonder if the cloud will help them deliver data infrastructure projects to the business faster.

That's why companies are turning to Snowflake, a data warehouse built for the cloud. Designed for the performance, elasticity, scalability, simplicity and concurrency needed for modern data analytics, Snowflake lets organizations store and analyze all data available to an organization in one location.

But, savvy organizations aren't stopping there. They are automating their way to data warehouses in the cloud to speed up time to value, and limit cost and risk. WhereScape® automation for Snowflake helps IT teams deliver actionable, reliable data infrastructure in the cloud faster and agilely evolve it as business needs change.

"Combining WhereScape's data warehouse automation tools with Snowflake's zero administration service is perfect for enabling our customers to be successful with agile data warehousing. WhereScape automation for Snowflake makes it possible for organizations to start using Snowflake faster."

— **Kent Graziano,** Snowflake Chief Technical Evangelist

Shorten the development lifecycle

While Snowflake reduces the administration and management of traditional data warehouse and big data platform infrastructure, WhereScape automation fast-tracks the design, development, deployment and operation of data infrastructure projects. From data warehouses and data vaults, to data lakes and data marts, WhereScape automation can help you deliver it faster.

WhereScape automation for Snowflake:

- Automates key development and operations workflows based on native Snowflake functions, wizards and best practices, and data warehouse modeling methodologies such as 3NF, dimensional and Data Vault 2.0

- Eliminates hand-coding by as much as 95%

- Generates all documentation automatically as you work for future team and business user reference

- Automates the migration of your existing data infrastructure and data

Boost developer productivity

By automating the repetitive, time-intensive parts of designing and developing data warehouse models, load processes and transformation code, WhereScape can increase your developer productivity fivefold. It also supports the continuous integration and delivery of Snowflake-based data infrastructure projects so developers can rapidly and easily incorporate and deploy changes as business demands evolve.

For developers using Snowflake, WhereScape:

- Generates SQL code for Snowflake automatically

- Attaches metadata to auto-generated work to speed up future response and project delivery as business needs change

- Ensures code consistency and mitigates implementation risk
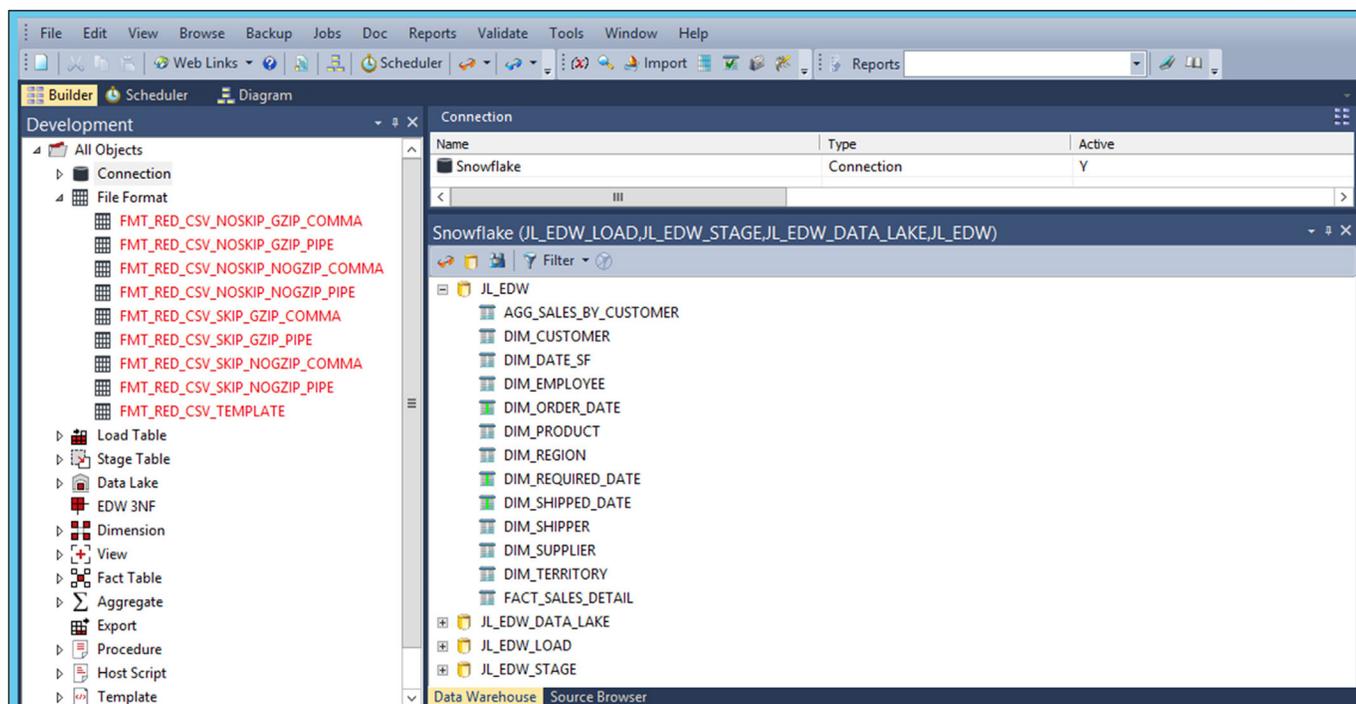
Collaborate more effectively with the business

Through iterative design and development, WhereScape enables IT to collaborate with business users to ensure delivery of impactful analytics to the organization sooner—turning IT requestors into IT advocates. Planning, design and rapid prototyping tools within WhereScape help IT teams close the gap between business need and technical capability early within a project, reducing risk and positively impacting time to value.

WhereScape automation for Snowflake includes:

- **WhereScape® 3D for Snowflake**
- **WhereScape® RED for Snowflake**
- **WhereScape® Data Vault Express™ for Snowflake**
- **WhereScape® Migration Express™ for Snowflake**

Use WhereScape 3D for Snowflake to smartly tackle the upfront planning, modeling, design and prototyping of data infrastructure projects. Then rapidly develop, deploy and operate your data infrastructure with the automation of WhereScape RED for Snowflake. With WhereScape Data Vault Express for Snowflake, creating 2.0 compliant data vaults is a practical reality. And if you have existing data infrastructure and data to migrate, WhereScape Migration Express for Snowflake will slash the time and effort for your migration.

WhereScape can help you increase developer productivity fivefold and turn IT requestors into IT advocates.

WhereScape's automation speeds up project delivery by combining metadata with Snowflake wizards and best practices to generate native Snowflake DDL, DML, tables, views, file formats and more.
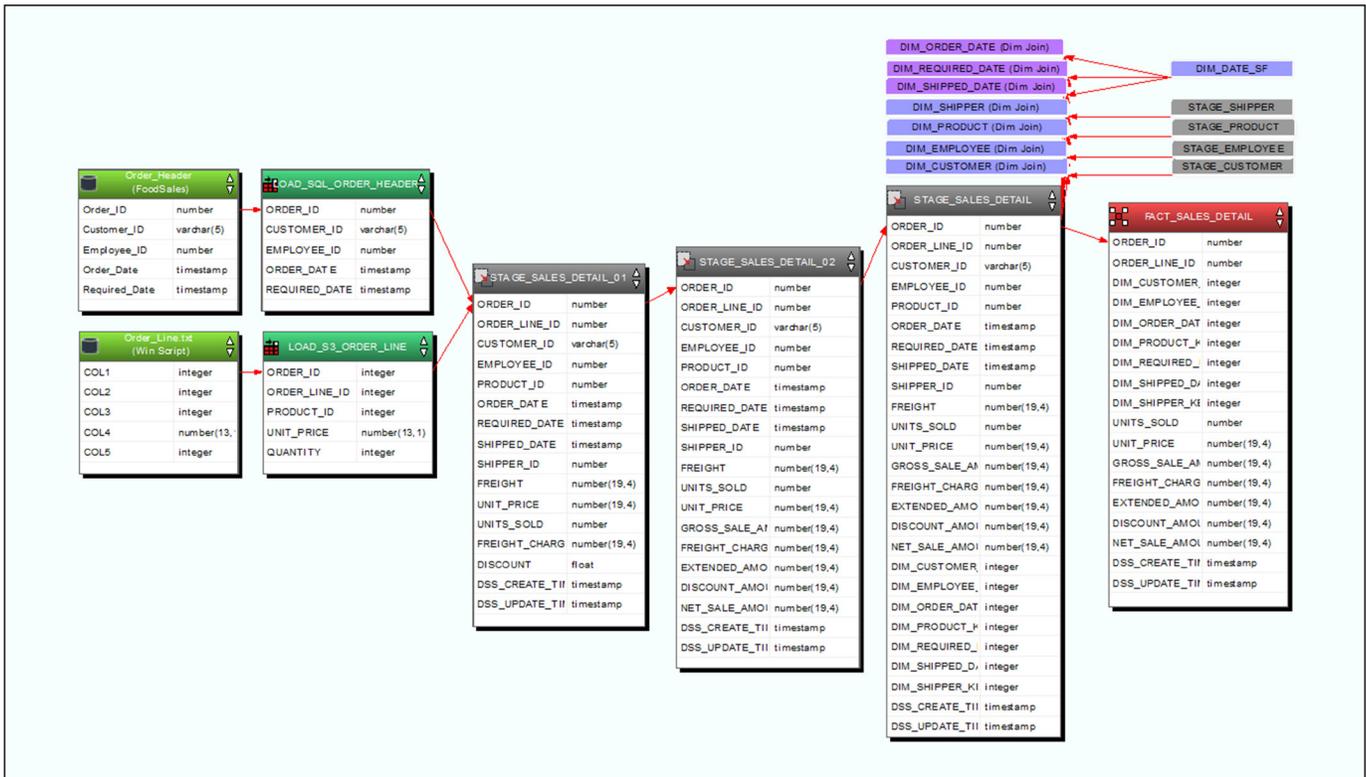
WhereScape 3D for Snowflake

- Sophisticated data discovery and profiling capabilities to explore and automatically document data source systems

- Automated building, testing and revising of data models, using profiling data, in Snowflake

- Target schema design and prototyping

WhereScape Migration Express for Snowflake

- Automates the migration of data infrastructure and data from Amazon Redshift, Microsoft SQL Server, Oracle, Teradata and other platforms

- Wizards simplify discovery, development and data-mapping tasks and make it easy to import existing infrastructure metadata into WhereScape

- Efficient data transfers using advanced optimization functionality, including: optimization across networks, heuristic algorithms for parallel transfers, restart functionality and a built-in scheduler

- Ability to incrementally refresh migrated data throughout migration period

WhereScape RED for Snowflake

- Drag-and-drop approach to defining data infrastructure using metadata

- Combines metadata with Snowflake wizards and best practices to automatically generate native Snowflake DDL, DML, tables and views, file formats and more

- Automatic generation of SQL code for Snowflake

- Built-in best practices for common data warehouse design methodologies including 3NF and dimensional

- Automatic creation and updates of documentation as you work, including data lineage, track back, and track forward

- Source system impact assessment on existing Snowflake data infrastructure

- Optional streaming capabilities provide the flexibility to leverage real-time data in addition to batch-based data sources

- One integrated automation toolset

- Integrated scheduling option

WhereScape automatically documents projects as you work, ensuring your team can easily see all of the dependencies and impacts associated with your Snowflake data warehouse at any time.

WhereScape Data Vault Express for Snowflake

- Creates all hubs, satellites and links automatically from metadata models

- Generates hash keys and change keys and uses Snowflake hashing functions

- Manages all data vault standard metadata attributes automatically, including load date and record source

- Automatically generates all code required to instantiate and populate the data vault

- Produces full documentation for ultimate transparency and ongoing management ease

- Optional streaming capabilities provide the flexibility to leverage real-time data in addition to batch-based data sources

About WhereScape

WhereScape helps IT organizations of all sizes leverage automation to design, develop, deploy, and operate data infrastructure faster. More than 700 customers worldwide rely on WhereScape automation to eliminate hand-coding and other repetitive, time-intensive aspects of data infrastructure projects to deliver data warehouses, vaults, lakes and marts in days or weeks rather than in months or years. WhereScape has global operations in the USA, UK, Singapore and New Zealand. www.wherescape.com

WhereScape.com