

Oracle Data Integrator for Teradata

Partners

Taking advantage of Teradata's single view of the enterprise just got easier

Companies around the world continue to demand more business return from their expanding data volumes. As they do, the value of having all your data in one location for a single enterprise view increases exponentially. That's why it's critical to reduce the costs and accelerate the process of gathering all of your company's data in Teradata.

The innovative extract-load and transform (E-LT) approach of Oracle Data Integrator for Teradata does just that by enabling you to bypass expensive and proprietary ETL engines. Instead, you'll use Teradata's engine and other high-performance utilities to complete your data transformations, thereby delivering better performance at a fraction of the cost.

The Difference

When transferring data from one location to another, the traditional ETL approach requires a proprietary engine to complete a row-by-row data transformation before loading the data into a target repository.

The problem is that the centralized ETL hub server can cause expensive and time-consuming bottlenecks. In contrast, Oracle Data Integrator loads data directly from all sources into the Teradata server, which then executes all transformations in bulk.

Here's how it works. Leveraging Oracle Data Integrator's declarative design, users

specify rules to apply to the integration processes. Oracle Data Integrator then automatically generates data flows, manages the complexity, creates transformation interfaces in a graphical environment, and generates native SQL instructions for Teradata to execute the transformation. Throughout the process, Oracle Data Integrator takes advantage of all the native features and utilities of Teradata that optimize performance, including: Multi-Load, FastLoad, TPump, FastExport, parallel processing, merge joins, hash joins, nested joins, and complex sort algorithms.

This process dramatically reduces the number and complexity of steps in any data transformation. In addition, automatic code generation shrinks the learning curve for integration developers and streamlines the ability of non-IT professionals to define their integration processes and data formats.

Knowledge Modules Create Flexibility

Knowledge modules are the core of Oracle Data Integrator, because they implement the actual data flows and define the templates for generating code across systems.

These knowledge modules are both generic and highly specific. On the one hand, they allow you to generate data flows regardless of the transformation rules. On the other hand, the code they generate and the integration strategy they



implement are finely tuned for any given technology. Oracle Data Integrator provides a comprehensive library of knowledge modules that you can tailor to implement existing best practices for such things as highest performance, adherence to corporate standards, and specific industry know-how.

Moreover, the knowledge modules for Teradata enable you to use Teradata Tools and Utilities to integrate data into – and extract data – from the Teradata engine. This supports data quality control, as well as integration strategies such as incremental update and Type 2 slowly changing dimensions.

Benefits

There are numerous benefits to the combination of Teradata and Oracle Data Integrator. Most prominently:

- > The E-LT architecture leverages diverse RDBMS engines to process and transform data, optimizing performance and scalability and lowering overall solution cost.

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- > Oracle Data Integrator provides all key components for real-time data warehousing and operational data hubs, and plugs into Oracle SOA Suite.
- > Declarative design shortens implementation times by insulating the business rules from the data flow implementation and accelerating maintenance.
- > Knowledge modules drive the flexibility and extensibility of all integration processes.

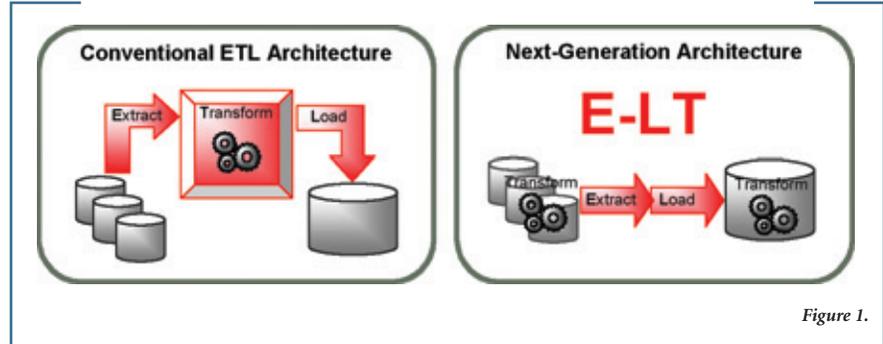


Figure 1.

IT teams performing E-LT transformations immediately realize the advantages of features such as metadata management, one-click complex transformation, automatic data quality control, and an intuitive graphic interface. These features reduce the total cost of ownership of your Teradata platform and enable you to rapidly and cost-effectively meet the most-demanding data integration challenges.

For More Information

To learn more about how you can use the Oracle Data Integrator to speed your Teradata implementation – and reduce costs – contact your Teradata representative or visit Teradata.com.

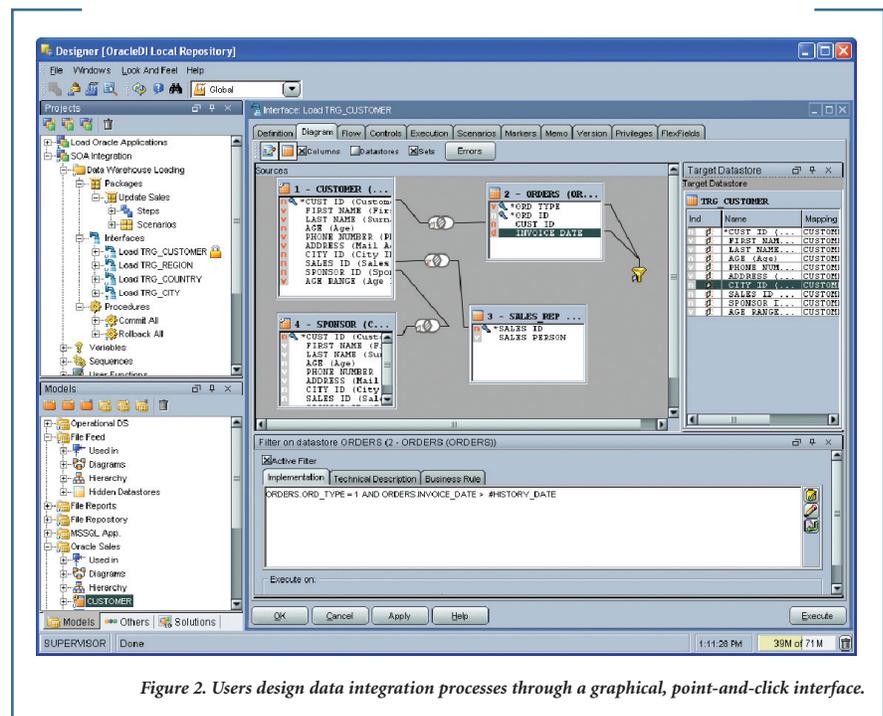


Figure 2. Users design data integration processes through a graphical, point-and-click interface.

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