Informatica PowerCenter
Pushdown Optimization Option
Push Down Data Transformation Processing Into Any Relational Database

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“PowerCenter is the hub of our integration infrastructure. Pushdown optimization is a feature unique to Informatica, and PowerCenter supports additional transformations that can be processed within the database, which will help us maximize existing database resources and improve performance.”

Boost Performance with Best Use of Database Resources

The Informatica® PowerCenter® Pushdown Optimization Option™ enables data transformation processing, where appropriate, to be “pushed down” into any relational database to make the best use of existing database resources.

In most instances, the PowerCenter data server functions as the “engine” behind data processing. When both source and target data are co-resident in a relational database, processing can be pushed down into that database. This option increases systems’ performance by providing the flexibility to shift data transformation processing to the most appropriate processing resource.

The option automatically applies pushdown optimization to all of PowerCenter’s data integration processing. With this option, PowerCenter is the first data integration software on the market to offer a choice of where data processing occurs.

The Pushdown Optimization Option improves performance by enabling processing to be pushed down to a relational database, maximizing flexibility, minimizing unnecessary data movement, and providing the optimal performance for both data-intensive and process-intensive transformations.
Key Features

Automatic Generation and Pushdown of Mapping Logic

This option generates database-specific logic that represents the overall data flow. It pushes the execution of the logic into the database to perform data transformation processing.

Database Neutrality

By exploiting the processing power of the database in which the data resides, this option helps IT organizations reap greater scalability and performance. It ends reliance on database-specific programming to exploit processing power.

Single Design Environment with Easy-to-Use GUI

The Pushdown Optimization Option decouples data transformation logic from the physical execution plan. It controls where processing takes place and dynamically creates and executes database-specific transformation language.

Benefits

Achieve Flexible, Cost-Effective Scalability and Performance

In most instances, the PowerCenter data server functions as the engine behind data processing. If both source and target data are co-resident in a relational database, then processing can be pushed down into that database. Pushdown optimization is abstracted from data mapping, which optimizes performance in response to changing run-time demands, peak processing needs, or other dynamic aspects of the production environment.

Enhance Agility and Flexibility of IT Organizations

Even when IT organizations are able to standardize on a single relational database management system, changing business conditions dictate that they need to be prepared to support multiple relational databases. In providing a database-neutral approach, the Pushdown Optimization Option offers choice. IT organizations can fully leverage the capabilities of each type of database and yet stay agile enough to rapidly integrate other types of databases as the need arises.

Increase Productivity of Development Teams

The Pushdown Optimization Option eliminates the need to resort to database-specific programming to exploit database processing power. PowerCenter decouples the data transformation logic from the physical execution plan. A single design environment can be used, although processing is spread between the data integration and the database engines. By simply selecting pushdown optimization in the PowerCenter GUI, IT organizations can control where processing takes place, and database-specific transformation language is dynamically created and executed as appropriate. In addition, the metadata-driven architecture supplies impact analysis and data lineage, ensuring comprehensive visibility into the potential effects of changes.

Learn More

Learn more about Informatica PowerCenter and the entire Informatica Platform. Visit us at www.informatica.com or call (800) 653-3871.

About Informatica

Informatica Corporation (NASDAQ: INFA) is the world’s number one independent provider of data integration software. Organizations around the world gain a competitive advantage in today’s global information economy with timely, relevant and trustworthy data for their top business imperatives. More than 4,000 enterprises worldwide rely on Informatica to access, integrate and trust their information assets held in the traditional enterprise, off premise and in the cloud.