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In-Database Procedures with Teradata: How They Work and What They Buy You

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ABSTRACT

Applications using SAS® are often built to work with very large data volumes in environments that demand rigorous IT security and management. When the data is stored in an external database, such as Teradata, the transfer of large data sets to the SAS system may be a performance bottleneck and the potential for local data storage may have unwanted security and resource management consequences. SAS® In-Database processing helps address these challenges by moving computational tasks closer to the data and improving the integration between SAS and the database management systems. This presentation looks at the opportunities for applying In-Database techniques to SAS procedures for use in Teradata enterprise data warehouse environments.

Select SAS procedures are being modified to leverage Teradata SQL functionality and in some cases leverage SAS functions deployed inside the DBMS. We will review selected enhancements being made to Base SAS®, SAS/STAT®, and SAS® Enterprise Miner™ procedures and how they affect the distribution of work between SAS and Teradata. A summary of performance characteristics of these procedure enhancements will also be discussed.

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