

Netezza in Database Processing Using SAS[®] Software

Course Length: 2 days **CEUs** 1.2

Format: Hands on Training/Workshop

AUDIENCE

This workshop is designed to show how to take existing SAS programs and transform processing to take advantage of a Netezza massively parallel environment. Typical SAS processes will be assessed and conversion of processing methodologies to a Netezza based environment will be taught and discussed.

PREREQUISITES

Knowledge of SAS programming and SQL basics.

COURSE TOPICS

Introduction and SAS/Access Architecture

- What is Netezza?
- Innovation
- Performance
- Simplicity
- I-CLASS Technology
- Netezza's Approach to Data Warehousing
- Multiple Engine Architecture in SAS
- Interface Engine
- SQL Pass-Through Facility
- SAS/Access Interface to Netezza supported features

Libname Statements with Netezza

- Libname Syntax
Arguments
- Netezza Libname Statement Examples
SAS/Access Libname Statement
- Connecting to a Database with a Libname Statement
Explorer Window
- Efficiency Considerations
- Workshop Session

SQL Pass-Through

- SQL Procedure Pass-Through Facility
- Syntax for the SQL Pass-Through Facility
- Overview of SQL Procedure Interactions with SAS/Access
- Select Expression
- Connect Statement
Arguments
Connect Statement Examples
- Disconnect Statement

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Arguments

Disconnect Statement Example

- Execute Statement

Arguments

Useful Statements to Include in Execute Statements

- Connection to Component

Arguments

Example

- SQL Pass-Through Facility for Netezza

Special Catalog Queries

- Temporary Table Support For Netezza

Establishing a Temporary Table

Terminating a Temporary Table

Examples

- Libname Capabilities vs. The Proc SQL Pass-Through Facility

Libname Statement

PROC SQL Pass-Through Facility

- Embedded Libnames

Example

- Workshop Session

Bulk Loading and Unloading In Netezza

- Bulk Loading Data Into Netezza Tables

Examples

- Bulk Unloading Data From Netezza Into SAS Data Sets

Examples

- Workshop Session

Deploying and Using SAS Formats in Netezza

- Using SAS Formats

How It Works

Process

- Deployed Components for In-Database Processing
- User-Defined Formats In The Netezza Data Warehouse
- Publishing Sas Formats

Overview of the Publishing Process

- Running the %Ind_Publish_Formatsmacro

%Ind_Publish_Formats Macro Syntax

Arguments

Tips for using the %Ind_Publish_Formats Macro

Special Characters in Directory Names

Netezza Permissions

Format Publishing Macro Example

- Using the SAS_Put() Function in the Netezza Data Warehouse

Implicit use of the SAS_Put() Function

Explicit use of the SAS_Put() Function

- Determining Format Publish Dates

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- Workshop Session

Advanced SAS and Netezza Concepts

- Data Set Options for Netezza
- Passing SAS Functions to Netezza
- Passing Joins to Netezza
- Workshop Session

Netezza Naming Conventions and Data Types

- Naming Conventions for Netezza
- Data Types for Netezza
 - String Data*
 - Numeric Data*
 - Date, Time, and Timestamp Data*
 - Netezza Null Values*
- Libname Statement Data Conversions
- Workshop Session

Macro Variables with Netezza

- Macro Variables for Netezza
- Workshop Session