Netezza
Data Warehouse Appliance
An IBM Proof of Technology

IBM Software

INTRODUCTION

With an architecture designed for high performance business analytics, IBM Netezza data warehouse appliances deliver breakthrough performance yet require minimal effort to achieve this. Learning exactly how Netezza does this is the purpose of this workshop. Through practical hands on exercises delegates will understand: how Netezza achieves performance without indexes; how it integrates with ETL, BI and other tools; how workload management is performed; how different data models – such as snowflake and 3NF – are implemented; how SQL and other languages (R, Java, Python) are supported; and how database administration tasks are performed. Ultimately, delegates will gauge Netezza's claimed simplicity capabilities and gain insight into how Netezza can be deployed at their organization.

OBJECTIVE

IBM Netezza Data Warehouse Appliance delivers:

- **Performance**: The Netezza TwinFin system's orders-of-magnitude performance advantage over other analytic options comes from its unique asymmetric massively parallel processing (AMPP™) architecture that combines open, blade-based servers and disk storage with Netezza's patented data filtering using Field Programmable Gate Arrays (FPGAs). This combination delivers blisteringly fast query performance on highly complex mixed workloads supporting tens of thousands of BI and data warehouse users, sophisticated analytics at the speed of thought, and modular scalability to petabytes of data. The prediction and scoring can be done right where the data resides, inline with other processing, on an as-needed basis. Users can get the results of prediction scores in near real-time, helping operationalize advanced analytics and making it available throughout the enterprise.

- **Simplicity**: The simplicity and ease of development and deployment is what truly sets Netezza TwinFin apart. TwinFin delivers high performance out of the box, with no indexing or tuning required. As an appliance, all of the integration of hardware, software and storage is done for you, leading to shorter deployment cycles and faster time to value for BI and analytic initiatives. The appliance is delivered ready-to-go for immediate data loading and query execution and integrates with all leading ETL, BI and analytic applications through standard ODBC, JDBC and OLE DB interfaces. TwinFin simplifies analytics dramatically by consolidating all analytic activity in the appliance, right where the data resides. Netezza eliminates complexity at every step so you can redirect valuable resources to the initiatives that will actually impact the bottom line.

- **Value**: As a commodity based appliance, Netezza TwinFin is a low-cost analytic option. But its value goes beyond the initial low purchase price. The Netezza appliance requires minimal ongoing administration, both in internal resources as well as implementation costs, for an overall low total cost of ownership. There are no hidden costs. Netezza TwinFin also provides built-in compliance controls, reports and workflow that significantly reduce the costs necessary to satisfy mandatory compliance regulations (e.g. SOX, PCI, HIPAA, FISMA, Basel II). Netezza offers your company fast time to value for important BI and analytic initiatives, which will have a positive impact on your bottom line. With Netezza on board, your organization is armed with the most accurate intelligence to react more quickly and accurately to any opportunities or threats the market may present.

The Proof of Technology will provide hands-on experience with the following components:

- Connecting to Netezza Host and Database, Commonly used Commands and SQL Statements
- Database Administration: Creating Netezza Users and Groups; Creating a Netezza Database and Tables
- Data Distribution: Introduction of Data Skew, Processing Skew and Co-Location
- Loading and Unloading Data: Introduction of External Tables and nzload Utility
- Query Optimization: Statistics Generation, Identifying Join Problems and HTML Explain

AUDIENCE

This Proof of Technology is specifically targeted for Data Analyst, Database Administrator, ETL Developer, Data Warehouse Specialist/Consultant, Data Warehouse Modeler, IT Architect

COST

This session is offered free of charge. Complimentary refreshments will be provided. However, participants are responsible for their own business travel expenses.

SCHEDULE

For your convenience, registration will begin at 9:00 AM. The session will start at 9:30 AM and end at approximately 4:30 PM.

CONTACT FOR INFORMATION

To enroll in this Proof of Technology, please contact your IBM Software Sales Representative.

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