



## JUMPSTART TRAINING FOR NETEZZA®

### WHY DO I NEED THIS?

Jumpstart Training from Smart Associates provides a custom, on-site training and mentoring program that goes beyond the standard IBM®'s Pure Data™ for Analytics curriculum and prepares your staff for designing, developing, and working in a Netezza appliance environment.

With Smart Associates you're in safe hands because our network of global experts are not just professional lecturers - they have already successfully implemented dozens of Netezza implementations between them and are keen to share this practical experience with you.

### HOW DOES IT WORK?

The course combines formal training materials, practical hands on exercises, and free form interactive whiteboard discussions over an intense 5 day period and is designed to ensure attendees will gain enough knowledge during the week in order

to pass IBM's Netezza Platform Software v7 certification test

The training is normally performed on-site, using the customer's own data and systems, to ensure the work performed is both relevant and enduring (i.e. neither abstract or 'throw away' in nature).

### HOW MUCH DOES IT COST?

US\$6000, GB£4000, EU€5000, AU\$6000, NZ\$7500 for up to 10 attendees.

All prices quoted exclude applicable taxes and disbursements.

### PRE-REQUISITES

#### Students

- will need a good working knowledge of SQL, and relational database theory
- are not expected to have any prior Netezza experience
- must be conversant in English

#### Classroom

- Separate workstation/laptop per student
- Whiteboard and marker pens



- Projector with SVGA or HDMI connection
- Wifi or LAN network connection to Netezza test environment (see below) and Internet

#### Environment

- Network/Windows, Netezza Host, and Database logins for all students and lecturer must exist in ideally a test environment
- Logins must be sufficiently powerful to be able to perform a variety of administrative type functions in the test environment

- Sample 'legacy' DDL for conversion to Netezza DDL would be useful for one of the exercises
- Sample Netezza DDL for review would be useful for another exercise
- Sample SQL queries and data to run the queries against would be useful for additional performance tuning and monitoring type exercises
- Sample requirements for Stored Procedure development would be useful for an additional exercise

#### SCHEDULE

Day 1

Day 2

Day 3

Day 4

Day 5

#### AGENDA

- **Introduction to the Netezza Architecture** - hardware/software components; their responsibilities and interactions; capacities and configurations
- **Database design considerations** - schemas, databases, distribution keys, zone maps, clustered base tables, materialized views, sequences, synonyms, migration guidelines
- **Connectivity options** - NZAdmin; NZSQL; Performance Portal; 3rd Party SQL reporting and ETL tools; ODBC, JDBC, OLE/DB, drivers
- **Data maintenance** - NZLOAD utility; external tables; temporary tables; CTAS; GROOM table, statistics
- **Query Optimisation** - use and understanding of EXPLAIN plans; detecting and preventing data/processing skew; capturing query history
- **Netezza Internals** - DBOS; transactions; locking; configuration settings; log files; event detection; plan files
- **Stored Procedures** - creating, calling, altering, dropping, and showing stored procedures; security and permissions; NZPLSQL syntax
- **User Defined Functions, Aggregates, Table Functions (UDXs), Analytic Executables, and Netezza Analytics** - Overview of OnStream functions vs. Analytic Executables vs. Netezza Analytics; fenced vs. unfenced; APIs; local vs. remote analytic executables
- **Workload and user management** - users; groups; guaranteed resource allocation settings; short query bias; prioritised query execution; LDAP
- **SQL Extensions Toolkit** - uuencode/decode functions; fuzzy text and regular expression matching; XML support; date, time, text handling
- **Backup and Restore** - database and host level utilities; schema and statistics replication



[enquiries@smart-associates.biz](mailto:enquiries@smart-associates.biz)

#### Smart Associates (USA) Inc.

347 Fifth Ave.  
Suite 1402-626  
New York, NY 10016  
United States of America

T: +1 (917) 675-3009

#### Smart Associates (Aotearoa) Ltd

36 Coatesville-Riverhead Highway  
Albany  
Auckland 0793  
New Zealand

T: +64 (9) 415-8120

#### Smart Associates Ltd

27 Cranwell Grove  
Shepperton  
Middlesex TW17 0JR  
United Kingdom

T: +44 (208) 133-6008