



keyteach™

Essbase 21c: Bootcamp Training Course

This five day course will enable developers and system administrators to create, manage and maintain Essbase 21c applications using advanced techniques and best practice methods.

Students will learn about the design of Essbase Block Storage (BSO) and Aggregate Storage (ASO) databases and gain an understanding of Essbase multidimensionality. The course will also cover the loading and manipulation of data through calculation scripts as well as how to maintain and optimise Essbase 21c databases.

This comprehensive course covers key design principles and maintenance of BSO and ASO databases requiring no prior knowledge.

Essbase multidimensionality is explored covering dense and sparse settings, building an outline, maintaining the Essbase environment, creation and calculation of data blocks, storage types, the order of operations, member formulas, two-pass calcs and sparse rollups.

Learn how to set appropriate properties to maximise the efficiency of the database, this will include looking at caches, data compression and removing fragmentation.

Students will explore how to automate tasks, such as loading and calculating data, using MaxL scripts along with the Essbase 21c REST API. The different calculation script types that are required for ASO or BSO databases will also be explored.

There are a multitude of reporting options available with Essbase. During the course, particular emphasis is given to building Smart View queries in Microsoft Excel as well as the expanded analysis methods available through the Essbase 21c web interface.

Course Information:

Course title:	Essbase 21c: Bootcamp Training Course
Duration:	5 days
Audience:	System administrators, developers and implementation consultants
Pre-requisites:	None
Delivery method:	Group Live and Group Internet-Based
Advanced preparation:	None
Recommended CPE credits:	35 credits - computer software and applications
Programme level:	Intermediate

Learning Objectives

By the end of this course learners will be able to:

- Identify the key differences between ASO and BSO databases
- Explain how to import existing metadata and configure enhanced reporting capabilities
- Critique how Essbase 21c databases can be optimised
- Recognize the various methods for loading and entering data to the system
- Generate basic reports, spreadsheets and dashboards for entering and reviewing data
- Implement calculation scripts to perform targeted calculations

Essbase Overview

- Introduction to Essbase
- Using Essbase with Smart View
- Exploring dimensionality
- Introduction to Essbase calculations
- Navigating EAS Lite

Application Build

- Application and database design
- Creating an application and database
- Understanding generations and levels
- Outline maintenance
- Building Time, Scenario, Years and Accounts dimensions
- Block storage overview

ASO Overview

- Comparison of BSO and ASO databases
- Aggregate storage outline conversion

Data Load Methods

- Loading metadata and data
- Load rule overview
- Load rule methods
- Building the Product and Markets dimensions using load rules
- Loading data using load rules
- Loading data and building dimensions with a single load rule

Enhanced Outline Capabilities

- User Defined Attributes (UDAs)
- Attribute dimensions
- Shared members
- Text and date members
- Format string
- Varying attributes

Reporting

- Exploring Financial Reports
- Smart View overview
- Ad Hoc Analysis
- Ad Hoc Data Queries
- Options
- Functions
- Smart Slices
- Smart Queries
- Embedding Reports
- Saved MDX Queries

Block Storage System Administration

- Specifying settings for optimal performance
- Caches and buffers
- Data compression
- Removing database fragmentation
- Maintaining the Essbase environment
- Task automation using MaxL
- Block storage review

Aggregate Storage System Administration

- Creating aggregations
- Data compression
- Loading data and the load buffer
- Concurrent loads
- Trickle feeds and slices
- ASO caches
- Outline paging
- Compacting the outline file
- Back-ups
- Changing compression

Calculations

- Calculation methodology
- Member formulas
- Calculation scripts
- Intelligent calculation
- Block creation

Calculation Scope

- Calculation scope using FIX
- Calculation scope using IF
- FIX or IF?
- Controlling the calculation scope using cross dimensional operators

Designing Calculations

- General design considerations
- Writing calculations using functions
- Relationship functions
- Mathematical functions
- Range functions

MDX Queries

- MDX overview
- MDX query structure
- Case sensitivity, layout and syntax
- Comments
- Identifying dimensions and members
- Tuples and sets
- Converting BSO member formulas
- Function return types
- Formula conversion
- Aggregate storage calculation order
- Conditional calculations
- Variance calculations

Case Study



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