HA300: SAP HANA 2.0 SPS04 – Modeling

Course Outline

Course announcements

This course teaches the core capabilities of SAP HANA for calculation view modeling, and covers mainly graphical modeling, as well as SQL- based modeling (table functions and procedures) with a focus on performance. It also introduces core data services as a flexible method to model a persistence layer.

The participants will gain knowledge about the management of modeling content in the SAP Web IDE for SAP HANA, and the key principles of object and data access security in a modeling context.

Course Duration

5 Days

Delivery Format

Classroom, Virtual Live Classroom, Hybrid

Course Fee

Contact us for more details

Goals

This course will prepare you to:

- Develop information models following SAP best practices for maximum performance and flexibility
- Get started with SQL and SQL-Script based modeling
- Manage projects and modeling content in the SAP Web IDE for SAP HANA
- Implement security and data access controls around SAP HANA data models

Audience

- Application Consultant
- Data Consultant / Manager
- Database Administrator
- Application Developer
- BI specialist

Content

- Calculation Views
    - Introducing Calculation Views
    - Understanding the Different Types of Views
    - Working with Common View Design Features
- Using Nodes in Calculation Views
    - Using Projection Nodes
    - Using Join Nodes
    - Working with Data Sets
    - Aggregating Data
    - Creating CUBE with Star Join Calculation Views
    - Extracting Top Values with Rank Nodes
- Modeling Functions
    - Create Restricted and Calculated Columns
    - Filtering Data
    - Using Variables and Input Parameters
    - Implementing Hierarchies
    - Implement Currency Conversion
    - Defining Time-Based Dimension Calculation Views
- Using SQL in Models
    - Introducing SAP HANA SQL
    - Query a Modeled Hierarchy Using SQLScript
    - Working with SQLScript
    - Creating and Using Functions
    - Creating and Using Procedures
- Persistence Layer
    - Defining the Persistence Layer
    - Loading Data into Tables
    - Accessing Remote Data
- Optimization of Models
    - Implementing Good Modeling Practices
    - Implementing Static Cache
    - Controlling Parallelization
    - Implementing Union Pruning

- Using Tools to Check Model Performance
  - Developing a Data Management Architecture
- Management and administration of Models
  - Working with Modeling Content in a Project
  - Creating and Managing Projects
  - Enabling Access to External Data
  - Working with GIT Within the SAP Web IDE
  - Migrating Modeling Content
- Security in SAP HANA Modeling
  - Understanding Roles and Privileges
  - Defining Analytic Privileges
  - Defining Roles
  - Masking Sensitive Data
  - Anonymizing Data