

# SAP HANA TRAINING

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## SAP HANA COURSE

### CONTENT

#### **SAP HANA INTRODUCTION AND ARCHITECTURE**

- ✓ SAP HANA Overview
- ✓ SAP In-Memory Computing Overview
- ✓ SAP HANA Features
- ✓ Look and feel of SAP HANA
- ✓ SAP HANA Architecture
- ✓ SAP HANA Landscape
- ✓ Structure of SAP in-memory Computing studio
- ✓ Row store and column store Architecture
- ✓ Multi Version Currency Control ( MVCC )
- ✓ Persistence Layer in In-memory Computing Engine
- ✓ Back up & Recovery
- ✓ High-Availability
- ✓ Distributed System
- ✓ Data Provisioning options in SAP HANA
- ✓ Reporting options on SAP HANA
- ✓ Security options in HANA
- ✓ SAP HANA Appliance Model
- ✓ How SAP HANA Appliance is delivered
- ✓ Sizing Considerations
- ✓ SAP HANA - Licensing Options
- ✓ SAP HANA Project Implementation
- ✓ Overview: Key Activities
- ✓ Key Roles
- ✓ Key Points to keep in mind
- ✓ Administration

#### **Basic Modeling**

- ✓ Modeling Overview
- ✓ Terminology
- ✓ SAP HANA Studio Features
- ✓ Information Modeler Overview
- ✓ Installation and Configuration of HANA Studio
- ✓ Prerequisites for Modeling
- ✓ Modeling Considerations
- ✓ Levels of Modeling
- ✓ Attribute Views
- ✓ Analytic Views
- ✓ Modeling Considerations
- ✓ Joins: Different types and when to use what.
- ✓ Where Class Vs Constraint Filters
- ✓ HANA Studio Preview(use with Caution)
- ✓ Impact of Query Execution
- ✓ Demo
- ✓ Modeling Suggestions
- ✓ Troubleshooting Modeling Issues
- ✓ Export and Import Models

#### **Reporting on HANA with BI 4.0**

- ✓ HANA Reporting Layer & Connectivity Options
- ✓ Reporting on HANA Clients
- ✓ Reporting on HANA Open Interfaces
- ✓ Prerequisites for reporting on SAP HANA
- ✓ IMDB client installation
- ✓ Setting up new connection
- ✓ SAP Business Objects BI4.0: Overview & tool comparison
- ✓ Analytical Reporting on HANA
- ✓ Relational Reporting on HANA
- ✓ Reporting on HANA Demo Included
- ✓ Native Excel Interface via ODBO

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- ✓ SAP Business Object Analysis(Office Edition)
- ✓ SAP Business Object Explorer
- ✓ Semantic Layer Approach
- ✓ IDT Vs Universe Designer
- ✓ SAP BOBJ Web I
- ✓ SAP BOBJ Xcelsius
- ✓ SAP Crystal Reports
- ✓ Enterprise Vs 2011
- ✓ Front end tool reporting considerations on top of HANA
- ✓ Troubleshooting common reporting issues

## Advanced Data Modeling with SQL Script

- ✓ Modeling Overview
- ✓ Calculation View :Overview & Types
- ✓ SQL Script :Motivation
- ✓ SQL Script: Overview
- ✓ SQL Script Processing
- ✓ Data Type Extensions
- ✓ Scalar Data type
- ✓ Table type
- ✓ Functional Extension
- ✓ Concept
- ✓ Procedure
- ✓ Procedure Calls
- ✓ Implementing Functional logic
- ✓ Operators
- ✓ SQL Script/Built in Function
- ✓ Debugging and troubleshooting SQL Script
- ✓ Restrictions for SQL Statement

## Data Provisioning: Data Services

- ✓ Data Provisioning :Overview
- ✓ Data Provision Options
- ✓ Trigger Based Replication

- ✓ ETL-Based Replication
- ✓ Log-Based Replication
- ✓ SAP Business Objects Data Services 4.0 and HANA
- ✓ ODP enabled Extractor Support in Data Services 4.0
- ✓ HANA and Data Service Process flow for SAP and non-SAP data
- ✓ How it works for SAP System
- ✓ How it works for Non-SAP System
- ✓ Advanced Data Service options
- ✓ Column tables creation
- ✓ Bulk loader options & config
- ✓ Bulk extracting options & config
- ✓ Log based replication overview
- ✓ Technical system landscape
- ✓ User administration
- ✓ Authorization
- ✓ Installing log based replication
- ✓ Updating the SAP host agent on source system
- ✓ Installing Sybase components
- ✓ Deploying the SAP HANA load controller and related components
- ✓ Configuring log based replication
- ✓ Configure SAP HANA load controller on SAP HANA system
- ✓ Initializing replication using SAP HANA system
- ✓ Initializing replication using SAP HANA load controller

## SAP HANA 6: DATA PROVISIONING: SAP LANDSCAPE TRANSFORMATION (SLT)

- ✓ Data provisioning overview
- ✓ SAP landscape transformation set-up
- ✓ Options for SLT landscape installation
- ✓ Post installation stem
- ✓ Concept of SLT replication

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- ✓ Architecture and key building block
- ✓ Technical requirement and system set-up information for LT replication server
- ✓ Key benefits of LT replicating server
- ✓ Transformational capabilities
- ✓ Operations
- ✓ Security and user management in HANA
- ✓ Creation of users
- ✓ Creation of roles
- ✓ Assignment privileges to roles
- ✓ Assignment of users to roles

## SAPBW on HANA

- ✓ Overview of SAP BW
- ✓ SAP BW Powered By Hana as database
- ✓ In Memory Optimized Info cube
- ✓ In Memory Optimized DSO
- ✓ Bex Report on SAP HANA Transient Provider
- ✓ SAP BW Composite provider on HANA model

**COURSE DURATION: 7 WEEKENDS**