



Target Audience: You are working as an ABAP consultant in companies. Now you see there is a shift in industry where most of the SAP products are now shifting to HANA database. SAP ERP Suite is getting transformed to S/4 HANA.

Duration: 40+ Hours – A promise of no copy paste

ABAP ON HANA TRAINING

- *Will you existing code work?*
- *Will you be able to optimize the code for performance?*
- *What are all different roles you need to know?*
- *How to build new style applications with optimized stack?*
- *What's new in net weaver and SAP HANA?*

We will cover HANA modeling, CDS Views, SQL Scripting, AMDP, ADBC, Performance tuning and all new concepts required, At the end we will build Fiori app on top of these artifacts. We will build an end to end Open Item Analysis scenario on all the topics.

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Introduction to SAP HANA

- Introduction to IMCE (In-Memory Computing Engine)
- Row v/s Column Store
- Software and Hardware advancements
- Evolution to SAP HANA – 1.0 to 2.0
- Usage of SAP HANA with SAP Products
 - As secondary DB
 - BW on HANA
 - ABAP on HANA
- Setup you SAP ABAP on HANA instance in CAL
- Connection to your HANA system via HANA Studio
- SQL Console
- Introduction to HANA Users
- SAP HANA Information Modeling
 - Attribute Views
 - Analytic Views
 - Calculation Views
 - Graphical Calculation Views
 - Scripted Calculation Views
 - Decision Table
 - With value update
 - Without value update
- Concept of currency conversion
- Concept of Dimensions and Measures
- SQL Scripting in SAP HANA
- SAP HANA Anonymous blocks
- Scripted procedures in SAP HANA
- Procedures with parameters
- User Defined functions in SAP HANA
- Reuse functions for SQL queries

ABAP on HANA

- Introduction to ADT (ABAP Development Tools)
- ABAP on eclipse
- ABAP project in eclipse
- Working with ADT shortcuts, inline view
- Optimizing developer efficiency with ADT
- Introduction to schema of ABAP in SAP HANA
- Evolution of SAP Netweaver and capabilities
- Open SQL Enhancements in SAP HANA

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- Introduction to DDL, DML, DCL, DQL
- New syntax in ABAP
 - Inline data declaration
 - Dynamic memory references
 - SQL statements with escaping of host variables
- Introduction to EPM Data model
- Consumption of SAP HANA Objects in ABAP
 - View Proxies
 - Procedure proxies
- Transporting of dependent objects
 - Lifecycle management
 - HANA transport container
- New tooling updates in ABAP
 - SQL monitor SQLM
 - Code inspector variants
 - Data migration points
 - Static checks with SQL performance – SWLT
 - SQL Performance worklist monitor

Advanced features of SAP ABAP on HANA

- Introduction to code-to-data paradigm
- Code push down to Database
- Integration cloud system to HANA Cloud Platform using Cloud Connector
- Performance improvement using SAP HANA
- ABAP Database Connectivity API (ADBC)
- Open Item analysis scenario using ADBC
- ABAP Managed Database Procedures (AMDP)
- Core Data Services (CDS) Views
 - CDS Introduction
 - CDS Associations
 - CDS View on View
 - S/4 HANA CDS VDM(Virtual Data Model)
 - Basic/Interface Views
 - Composite Views
 - Consumption Views
 - CDS Annotations
 - ObjectModel Annotations
 - OData Annotations
 - Analytical Annotations
 - EndUser annotations
 - UI Annotations
 - CDS View Table Functions

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- CDS DCL (Authorizations and secure programming)
- Consuming CDS in Analytical Tools
- SAP ABAP Improved ALV IDA (Integrated Data Access)
- Full Text Search with SAP HANA
- Fuzzy search for search helps with SAP HANA

End to End Implementation

- Implementation of End to end OIA (Open Item Analysis) scenario using all techniques in ABAP on HANA
- Implementation of Fiori App of Master-details
- ALP (Analytic List Page) Implementation using CDS UI annotations
- Complementary OOPS ABAP Session on RTTS

01 AoH- Introduction to HANA.mp4 02 AoH - Setup your Server.mp4 03 ABAP on Eclipse.mp4 04 Netweaver Evolution.mp4 05 SQL Statements.mp4 06 Performance Tuning Worklist.mp4 07 Open SQL Enhancement.mp4

08 Open SQL Enhancements part 2.mp4 09 Information Models.mp4 11 Attribute Views in SAP HANA.mp4 12 Analytical Views.mp4 13 Calculation Views.mp4 14 ADBC.mp4 15 OIA Information Models.mp4

16 SQL Script.mp4 17 SQL Script Deep Dive.mp4 18 User defined functions.mp4 19 OIA using SQL Script.mp4 20 Calling Procedure in ABAP.mp4 21 AMDP.mp4 22 CDS Views Basic.mp4

23 CDS to OData and Cloud Integration.mp4 24 ALV IDA and DCL.mp4 S4 HANA VDM Analytics App.mp4

Each session is about 2 Hours, Total Sessions are > 40 Hours plus Real-time OIA scenario covered along with EPM data model with SAP NW7.5 HANA SP10 Server setup is also taught in the course All latest concepts of NW 7.5, Open SQL, CDS, AMDP, ADBC, Proxy and Annotation based Fiori apps are covered in the course without copy paste of code

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