

Curriculum Of ABAP HANA

- S4HANA Architecture
- Business functions in SAP S/4HANA
- Landscape Transformation with SAP /4HANA
- System conversion to SAPS/4HANA
- Key Functionalities
- SAP S/4HANA Cloud
- Deployment
- SAP Activate
- Key Areas of Innovation
- Columnar Data Organization
- Simplifying the Core Data Model
- Parallel Execution
- New SAP HANA-Based Architecture
- Virtual Data Model
- Transports
- Provisioning Data Using SAP Data Services workbench
- Data Provisioning via Real-Time Replication
- Real time execution
- SAP Business Objects, Design Studio, SAP Lumira

THE DEVELOPMENT ENVIRONMENT

- Introduction to SAP HANA and SAP HANA Studio
- Understand the impact of SAP HANA on ABAP application development
- Introduction to ABAP Development Tools (ABAP in Eclipse)
- Advanced Techniques for ABAP Programming for SAP HANA
- ABAP and ABAP Project in eclipse

ABAP DEVELOPMENT TOOLS (ADT)

- Installation of ABAP Development tools
- ADT in Development System
- ADT tool debugging

SQL BASICS FOR ABAP ON HANA

- Basic Concepts of SQL
- Fetching Data from Tables / Views
- Retrieving Data from Multiple Tables
- Modification of Data from Tables
- Data Storage techniques
- Accessing Data using Views

SAP HANA- OO ABAP CONCEPTS

- Visibility (public/protected/private)
- Static instance/variables, constants
- Static /instance methods, method parameters
- Inheritance
- Interface, interface methods

TAKING ABAP TO SAP HANA

- SAP HANA as Secondary Database– Access via Open SQL
- Preparing ABAP Code for SAP HANA
- Guided Performance Analysis
- Performance Rules and Guidelines for SAP HANA

SAP NET WEAVER APPLICATION SERVER ABAP ARCHITECTURE

- Code push down
- Transport of native Development Objects
- Application Cases and Deployment Options

ABAP CORE DATA SERVICES AND ANNOTATIONS

- Enhanced ABAP Development with Core Data Services (CDS)
- CDS Views created inner join to display the data
- Associations in Core Data Services
- Core Data Services with Input Parameters

Curriculum Of ABAP HANA

- Incorporating Authorization Checks with CDS
- ALV Optimized for SAP HANA to Display an CDS View
- Optimizing a Report with CDS View and ALV IDA

SAP HANA SPECIFIC CODE-TO-DATA

- ABAP Database Connectivity (ADBC)
- Native SQL Syntax
- ABAP Report with new data declaration syntaxes on 7.40
- ABAP Report on HANA using ADBC

CONSUMING HANA VIEWS IN ABAP

- Working with Views in SAP HANA Studio
- Consuming Attribute View using External View.
- Consuming Attribute View using Native SQL
- Consuming Analytic View/Calculation View in ABAP

CONSUMING HANA PROCEDURES IN ABAP

- ABAP connectivity and integration
- Working with Database Procedures in SAP HANA Studio
- Integrating Native Procedures with ABAP
- Runtime and error Analysis with SAP HANA
- Consuming HANA artifact Stored Procedure using ABAP Proxy Procedure.
- Consume HANA artifact Stored Procedure by Calling it in ABAP Code.

ABAP MANAGED DATABASE PROCEDURES IN ABAP HANA

- Top-down and Bottom-up Approach
- ABAP-Managed Database Procedures

- AMDP Methods in CDS Views
- Creating, using and debugging ABAP Managed Database Procedures
- Debugging ABAP-Managed Database Procedures with select-options & parameters display ALV report
- AMDP with select options

DATABASE INDEPENDENT CODE-TO-DATA

- Classical Open SQL and Its Limitations
- New Open SQL
- Improve Open SQL Statements Using the SQL Trace (St05)

RUNTIME AND ERROR ANALYSIS WITH SAP HANA

- Overview of the Tools Available
- Troubleshooting
- Dump Analysis
- Debugging and Tracing in SQL Script
- ABAP Code Analysis
- Checks and Check Variants
- Checks in the Development Infrastructure
- Global Check Runs in the System

SAP HANA PROXY OBJECTS

- Calling SAP HANA Procedures via ABAP Database Procedure Proxies
- Transport of SAP HANA Objects via HTC & HTA
- Create a SAP HANA Transport Container (HTC) for a Delivery Unit

ADVANCED TOPICS

- Using SAP HANA Full Text Search
- ABAP List Viewer with Integrated Database Access (ALV IDA)
- Technical Architecture
- Error-Tolerant Search

Curriculum Of ABAP HANA

- SAP Components and Products for Search
- Sample Technical Specification of ABAP on HANA Project
- ABAP Test Cockpit Setup & Exemption Process