SAP HANA Course Content

Overview of the SAP HANA Basic Principles

SAP HANA Introduction

- In-Memory Computing
- Evolution of In-Memory computing at SAP
- History HANA
- HANA Hardware Sizing
- Product Availability Matrix
- ❖ HANA compare to BWA

SAP HANA Overview

- Architectural overview
- Row Store
- Column Store
- Persistency Layer

SAP HANA Versions and Studio overview

- SAP HANA Version
- History of Service pack details
- Studio Overview
- HANA Studio Preferences
- HANA Studio Prospective

SAP HANA Engines

- Column Store Engine
- Row Store Engine
- Join Engine
- OLAP Engines
- Calculation Engine
- Calculation Engine's Non-Relational Behavior

SAP HANA General Modeling Principles

SAP HANA Modeling

- Design Attribute View
- How to connect tables using
- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Text Join
- Referential Join
- Union
- Filter
- Calculated Column

Design Analytic View

- Structural Overview
- Data Foundation
- Logical View
- Define View Semantics
- Left Outer Join Attribute View
- Inner Join Analytical View
- Right Outer Join Analytical View
- Referential Join Analytical View
- Run-time object: column view
- Calculated Attribute
- Calculated Measure
- Restricted Measure
- Filter
- Variable
- Input Parameter

Tables in HANA

- Column Store Table
- Row Store Table
- Table Type

SQL in HANA

- Basic SQL Knowledge
- ❖ Select Statement
- From Clause
- Where Clause
- Group By clause
- Having Clause
- Order by Clause
- Top N clause

SQL Procedure in HANA

- How to create Procedure
- Elements of the Procedure
- Procedures using Column Store Views
- ❖ IF-ELSE Logic
- For Loop Logic
- Cursor in HANA
- Dynamic Filter

Design Calculation View

- Graphical Calculation View
- Calculation SQL Script method
- Graphical Calculation View Working with Nodes
- Graphical Calculation View Define View Result Set
- Graphical Calculation View Define View Semantics
- How to call Calculation view using SQL into Calculation Views
- Script-based CV: output column structure import
- Spatial support: spatial operations in model data flow
- Scenario redesign: replace node / replace data sources
- Extract semantics from data sources
- Table function as data sources
- Debugging Views with drill-down analysis
- Calculation View limitations in Designing and performance issues
- Select count (*) statement on top of a HANA graphical Calculation View leads to unexpected number of records in the result set.

SAP Data Services Overview

- What is SAP Data Services
- SAP Data Services Architecture
- SAP Data Services objects (Job, Data Flow, Work Flow, Transformations)
- Loading Data from SAP ECC to SAP HANA DB
- Loading Data from SAP BW to SAP HANA DB
- Loading Data from MSSQL Server DB to SAP HANA DB
- ❖ Loading Data from Excel to SAP HANA DB
- How to load data from HANA Information Models to MSSQL DB

Miscellaneous

- Delivery Units
- Transport Individual HANA Models
- How to load Excel data into HANA using Studio
- Export/Import
- How to create Sequence
- How to create Synonym
- How to create Trigger
- How to create View

Performance Tuning

- Index creation
- Partitioning
- Hash Partition
- Merge Partition
- Round Robin Partition
- Multi-Level Partition
- ❖ Table Redistribution

Security & User Management

- Creating Users
- Creating Roles
- Privileges
- Authorization challenges
- User Administration
- Backup & Recovery
- Collecting traces

Data Provisioning

- SAP Data Services extraction
- ❖ SAP SLT Replication
- Smart Data Access
- SAP HANA-Direct Extractor Connection (DXC)

SAP SLT Data provisioning overview

- What is SAP SLT
- ❖ SAP SLT License options
- ❖ SAP SLT system sizing
- ❖ SAP SLT system landscape preparation

SAP SLT Schema configuration

- How to configure SLT Schema for SAP Source system
- How to configure SLT Schema for Non-SAP Source system
- No.of Data transfer Jobs configuration
- How to improve Initial data loading
- Tables configuration in SLT using Data Provisioning

BW 7.5 powered by HANA Modeling in Studio tool

- Composite Provider
- Open ODS View
- Advanced Data Store Object
- Query in Eclipse

SAP HANA as Secondary Database

- How configure SAP 150 ECC tables using SLT Replication
- How to configure Data loads using SAP Data Services from Oracle DB
- How Create HANA Information models based on Business Requirement
- Creating HANA Models using Combination of multiple Sources
- How to generate SAP BO reports and Assign to End User
- Guidance to Create HANA models
 Architecture for Implementation project

SAP HANA Certification Guidance

- ❖ SAP HANA Exam Code C_HANAIMP141
- HA100 and HA300 Documents can be providing for certification preparation purpose.
- SAP HANA Exam Dumps can be provided, to Clear certification exam

HANA Advanced Analytics

HANA Reporting BO Tools

- How to Connect with IDT
- How to create Universe using HANA Tables
- How to create Webi Reports
- Webi Functions
- How to schedule Webi reports
- How to assign the Webl reports to the End users

HANA Reporting with Crystal Reports 2013

- Report Designer
- Report creation wizard
- Sections
- Sorting and Grouping
- Chart expert
- Formulas
- Sub reports

HANA Reporting with Crystal Reports for Enterprise

- How to Connect HANA with Crystal Reports for Enterprise
- How to create reports

HANA Reporting with SAP Dashboards

- How to Connect HANA with Dashboards
- How to create Dashboard Reports

HANA Reporting with SAP Lumira

- How to Connect HANA with SAP Lumira
- How to Explore HANA Data with Lumira
- Publish Lumira report

HANA Reporting with SAP Design Studio

- SAP Design Studio Overview
- How to create reports

HANA Reporting with SAP Predictive Analysis

- SAP Predictive Analysis Overview
- How to Explore data with Predictive Analysis