

ASPIRE TECHSOFT PVT. LT D.

ISO 900 1: 2015 Certified Training Institute

SAP-HANA MODELLING

Chapter 01: Introduction

1. Why HANA & What is SAP HANA in a Nutshell
2. Challenges with Current Landscapes
3. How SAP HANA Solves Current Challenges
4. SAP HANA Database Architecture
5. Data Storage in SAP HANA
6. Types of Database Engines in SAP HANA
7. Persistence Layer, backup and Recovery.

Chapter 02: Deployment Options & Implementation Use Cases

1. SAP HANA Platform
2. SAP BW on SAP HANA
3. SAP Business Suite on SAP HANA
4. SAP HANA Sidecar
5. On-premise deployment
6. Cloud Deployment
7. SAP HANA Platform Licensing

Chapter 03: Components Initial Setup and Overview

1. SAP HANA Studio Overview
2. Adding SAP HANA Instance in SAP HANA Studio
3. Basic Steps – Create Schema, Table and Package in SAP HANA
4. SAP HANA Perspective
 - SAP HANA Modeler Perspective
 - SAP HANA Administration Perspective
 - SAP HANA Developer Perspective
 - SAP HANA Web IDE for Modeling

Chapter 04: Data Provisioning

1. Introduction to Data Provisioning Techniques
2. Flat File Upload using SAP HANA Studio
3. SAP Landscape Transformation (SLT)
4. SAP Replication Server (SRS)
5. SAP Data Services
 - Loading Data to SAP HANA using SAP Data Services
 - Loading Data to SAP HANA using SAP Data Services from Flat Files

- Loading Data from SAP ECC Extractors to SAP HANA – ODP
 - SAP Data Services-SQL and Validation Transform
 - SAP Data Services-Case and Merge Transform
 - SAP Data Services-Delta data load
 - SAP Data Services-Job scheduling and management
6. Enterprise Information Management (EIM)
 7. Smart Data Access (SDA)
 8. Direct Extractor Connection (DXC)
 9. Smart Data Streaming
 10. Remote Data Synchronization
 11. Data Provisioning Summary and Tool Selection

Chapter 05: SQL in SAP HANA

1. Introduction to SQL in SAP HANA
2. SQL Data Types
3. JOIN Types
4. SQL Statements
5. SQL Functions
6. SQL Functions for Calculated Column
7. Procedures

Chapter 06: Information Models

1. **Introduction to Modeling**
 - ✓ Attribute View – Creation
 - ✓ Attribute View – Advanced Properties
 - ✓ Attribute View creation using Copy and Derived options
 - ✓ Time Attribute View
 - ✓ Analytic View – Creation
 - ✓ Analytic View – Advanced Properties
 - ✓ Calculation View – Creation Using GUI
 - ✓ Calculation View – Advanced Properties
 - ✓ Calculation View – Creation Using SQL Script
 - ✓ Calculation View – Creation as Dimension
 - ✓ Calculation View – RANK Function
 - ✓ Calculation View – Filter Expression
 - ✓ Calculation View – Start Join
 - ✓ Calculation View – Dynamic Join

2. **Decision Tables – Overview**
 - ✓ Decision Tables With Return Values
 - ✓ Decision Tables With Update Values
 - ✓ Decision Tables on Information Models
3. **Calculated Column**
 - ✓ Calculated Column – Attribute
 - ✓ Calculated Column – Measure
4. **Restricted Measures**
5. **Variables Vs Input Parameters**
 - ✓ Variables
 - ✓ Input Parameters
 - ✓ Input Parameters in Calculated Columns
6. **Distinct Count – Counter**
7. **Temporal Join for Time Dependent Data**
8. **Level Hierarchy**
9. **Parent-Child Hierarchy**
10. **Currency Conversion**
11. **Content Procedures**

Chapter 07: Models Management

1. Quick View screen in SAP HANA Studio
2. Copy
3. Rename
4. Refactor
5. Mass Copy
6. Switch Ownership
7. Change Authoring Schema
8. Schema Mapping
9. Maintain Package Specific Default Schema
10. Generate Time Data
11. Cleaning Unused Objects
12. Auto Documentation

Chapter 08: Data Security

1. Introduction
2. Classic Analytic Privileges
3. SQL Analytic Privileges
4. Static VS Dynamic Analytic Privileges

5. Dynamic SQL Analytic Privileges

Chapter 09: User Management and Authorizations

1. Introduction
2. Standard Roles
3. System Privileges
4. Object Privileges
5. System Delivered users
6. Role Creation
7. User Creation

Chapter 10: Reporting

1. Introduction and Connectivity Options
2. MS Excel
3. Standard Universe Creation using IDT
4. Universe Creation using SAP HANA Business Layer in IDT
5. SAP BO Explorer
6. SAP Lumira
7. Web Intelligence
8. Crystal Reports
9. Design Studio

Chapter 11: Performance Tuning

1. Introduction
2. Visualize Plan
3. Tracing
4. Partitioning
5. Partitioning Tables
6. Dynamic Tiering

Chapter 12: Transportation

1. Introduction to Transportation Options
2. Export and Import
3. Delivery Units
4. Application Lifecycle Management (ALM)
5. Solution Manager using CTS+

Chapter 15: Modeling Best Practices

1. Data Cleansing During Provisioning
2. Schema Creation
3. Models Creation

