

# SAP HANA Course Content

## Introduction

In-Memory Computing  
Evolution of In-Memory computing at SAP  
History HANA  
IMC Products  
HANA compare to BWA  
Product Availability Matrix

## Architecture

Overview  
IMCE surroundings  
Row Store  
Column Store  
Persistency Layer  
Business Impact of new architecture

## Modeling

Key Concepts in Data Modeling  
Components of HANA data model  
Table Creation  
Inserting Data into Table

## Attribute Views

How to connect tables using  
Inner Join  
Left Outer Join  
Right Outer Join  
Full Outer Join  
Text Join  
Referential Join  
Union

## Analytical Views

Left Outer Join – Attribute View  
Inner Join – Analytical View  
Right Outer Join – Analytical View  
Referential Join – Analytical View  
Calculation Views  
Time Dimension

## **SAP HANA SQL**

Overview SQL Language Elements

Identifiers

SQL Data Types

Functions and Expressions

SQL Statements - Examples

## **Advance Modeling**

Calculation Views

SQL Script Overview

Procedure

Debugging & Troubleshooting SQL script

Hierarchies

Restricted & Calculated Measures

Filter Operations and

## **Variables**

Creating Attribute Value Variables

Creating Static Value Lists

Creating Variables with Formulas

Creating Date Variables

Currency conversion

## **Performance Tuning**

Index Creation

Data Base Partition

## **Data Provisioning**

Overview

## **Trigger Based Replication**

Overview on Configuration Aspects

Data Replication at a Glance

SLT based transformation concepts

Selective Data Replication

Transformation of Data

Extension of (target) table structure

Specific Considerations

## **ETL Based Replication**

Intro to BODS 4

Basic Data service Connection types

Create and execute a Data Service Job to Populate HANA

Load SAP ECC Data in to HANA

Load SAP BW Data into HANA

## **Creating a batch job**

Create a project, job, work flow, and data flow

Using the Query transform in a data flow

Using template tables

## **Data Services Advance Level**

Using built-in transforms and nested data

Using the case, merge, and validation transforms

## **Data Services SAP System Handling**

SAP Systems-Introduction

SAP BODS and SAP ERP/BW integration Creation of SAP ERP Datastore and overview of properties

Creation of SAP BW source & target

Datastores and overview of properties

SAP ERP Tables data extraction

## **Security & User Management**

Creating Users

Creating Roles

Privileges

User Administration

Backup & Recovery

## **Reporting**

Connectivity options

Excel reporting on HANA

Business Objects BI 4.0

Business Objects BI 4.0 Explorer

Information Design Tool

Web Intelligence

Crystal Reports via ODBC/JDBC Connections  
Analysis Office  
Information Composer  
Visual Intelligence

## **BW 7.3 powered by HANA Overview**

BW7.30-HANA Optimized Info Cube

BW7.30-HANA Optimized Info DSO

Importing SAP BW7.30 Models into HANA Modeling environment

Publish Standalone HANA Models into SAP BW 7.30 on HANA