**SAP HANA Developer Course Outline**

*What will you learn in this online SAP HANA training course?*

* *SAP HANA basics, features, architecture and terminology involved*
* *Working on HANA Studio Modelers and gaining expertise in modeling*
* *SAP HANA Interface, client and connectivity*
* *Auto documentation process and SAP BO Analysis*
* *SAP HANA administration activities like managing users, storage and security*
* *System replication, data provisioning and ABAP data flow*
* *Configuring, reporting, monitoring and creating dashboard in SAP HANA*
* *Working on real-time and complex HANA projects*
* *Writing SAP HANA queries and performance tuning*

### Introduction to HANA Studio

Add SAP HANA System – Perspectives, Administration, Modeling, Development Plan Viz. Folders- Catalog, Content, Provisioning, Security.SAP HANA Database SQL Script – HANA Database SQL Basics, types of statements, data types, operators, expressions, basic query execution, Sub-query, Joins, Expressions, Loops, Sub-queries. Catalog – Schema, Table, Views, Functions, Stored Procedures, Index, Synonyms, Sequences, Triggers. Provisioning – SDA [Smart Data Access]. Security – Users, Roles

### SAP HANA Modelling

Introduction – Types of Models, Attribute Views, Joins, Using Filter Operations, Creating Restricted & Calculated Columns, Using Hierarchies. Analytic Views – Star Schema design, Multi-Dimensional modeling, Using Variables, Using Input parameters, Advantages & Limitations.

### Calculation Views (GUI)

Dimension Calculation View – Star Join Calculation view, OLTP Calculation view, Using Projection, Using Join, Using Aggregation, Using Union, Using Rank. Calculation Views (Scripted) – CE functions Introduction, Creating Content Procedure.

### Analytic Privileges

Classical Analytic Privileges, SQL Analytic Privileges, Dynamic analytic Privileges.Turning Business Rules into Decision tables.Table Functions.

### In-depth Modeling

Union Pruning, Refactoring information models, Schema Mapping, Propagate to schematics, Show Lineage, Find Where used, Schema Mapping, Generating Time Data.

**Modeling (Cont.)**

Using Time Travel, Migrating deprecated Information models, Using Currency Conversion.Web based Modeling Work bench. Advanced HANA SQL script -Temporary tables, Triggers, Exceptions Handling.

### Full Text Search

Overview, Datatypes & full text Indexes, Using Full text search. Application Life Cycle Management – Transport Using Developer mode, Transport Using Delivery Unit mode, Change management. Analyzing Query Performance- Explain Plan, Visualize plan, Performance trace.

### Data Provisioning

Data Provisioning – Data provisioning using SLT, Data Acquisition with BODS, Data Provisioning with Flat File upload

### Data Provisioning (Cont.)

Data Provisioning using Direct, Extractor Connection, Security and Authorizations, Introduction to Lumira, Using Lumira Prepare, Visualize compose data.

### Accessing data stored in SAP HANA

What is New Open SQL, definition of advanced views by deploying Core Data Services in ABAP, creating CDS associations, how to implement authorization checks using CDS with ABAP, SAP HANA Objects in ABAP, how to consume SAP HANA views using ADBC (ABAP Database Connectivity) and native SQL in ABAP, using the ADBC and native SQL to consume SAP HANA database procedures.