

SAP Datasphere Training || SAP Data warehouse Cloud Training (DWC)

<https://www.anubhavtrainings.com/sap-datasphere-training>

Target Audience: You are working as an SAP BW or BW/4HANA Consultant in companies. You have been asked by customers to offer a solution for bringing their data in the cloud. Also since most customers are moving to cloud, they want you to build strategy for cloud ready BW solutions in SAP space.

Prerequisites- Basic understanding of Datawarehouse and SAP*

Duration: 32 Hours – A promise of no copy paste

▶ What you get by joining our training

- 32 Hours of Detailed Lecture with Videos
- Support for issues and deployment (no job support)
- Presentation and Whiteboards
- Best-in-class cutting edge content
- Latest concepts on Business Technology Platform
- End to End development with integration to S/4HANA and BW Bridge
- Cross Integration also covered with troubleshooting



Our Course Page:

<https://www.anubhavtrainings.com/sap-datasphere-training>

▶ About the Course

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SAP Datasphere is a multi-cloud service that provides data and semantic business modeling, multisource connectivity, and virtualization, as well as access across the enterprise, fostering collaboration in one environment. Using managed spaces and the data marketplace, business users can explore data, integrate new information, and share those insights with peers or other departments.

This course allows you to dig into SAP's next-generation tooling using a practical example with hands-on exercises. You'll learn to use the system starting with a simple analytical requirement. During the course we'll gradually extend the complexity as additional tasks and requirements arise. We'll show you how to leverage features and functions of cloud software to get your job done and create a credible data and analytics foundation. At the end you'll have a very good understanding of how to use SAP Datasphere for real-world use cases.

▶ In this Training of SAP Datasphere cum Datawarehouse Cloud Training, we will:

- First, we will start with a short theory to understand what sap data warehouse and data sphere is. The history of data warehouse cloud to datasphere
- You will later setup a free sap datasphere trial account and sap analytics account
- Then we will learn general concepts of modeling with sap datasphere with data builder
- We will focus on creating views, materialize views, tables, remote table access, data flows, replication flows
- After that, we will learn to build connections to sap hana, sap bw, sap s/4hana and open apis
- We will then move our existing data models from BW or BW/4HANA systems in SAP datasphere using model conversion or BW bridge approach
- After that, we will learn building Business builder artefacts like fact, dimensions and consumption models
- Once we have developed our models, we will learn how to integrate with sap analytics cloud with analytical models
- Learn Latest integration concept with SQL Script and complete python with data science topics like pandas

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COURSE CONTENT (UNIT WISE)

Unit 1 – Introduction to the course (Demo Session)

- Who is this course for
- Course overview
- Introduction to SAP Datasphere
- Live System Demo
- FAQs

Unit 2 – Introduction to Datasphere

- Difference between Cloud and On premise
- What does Cloud offers?
- What is SAP BTP?
- Where does Data Warehouse fits?
- What is HANA and BW/4HANA?
- Evolution of SAP BW
- What is SAP Datasphere aka Data Warehouse Cloud?
- Benefits of Datasphere
- What is Datasphere How it evolving from DWC?
- Statement of Direction
- Implementation Strategy?
- Datasphere Architecture
- Developer's Bird eye view
- What is SAP Analytics Cloud?
- How Datasphere is different from SAC?



Unit 3 – Setting up Datasphere account

- Getting Started
- System Walkthrough
- What is Spaces in Datasphere?
- User persona in SAP Datasphere
- SAP Datasphere Modelers

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- SAP Datasphere Builder Layers
- SAP Datasphere – Data Builder
- Understanding Dimension and Measure
- Semantic Usage and Types?
- Creating table using CSV upload
- Creating Tables using “New Table”
- Time & Generate Time Data
- What is Entity Relationship Model
- Store ER Diagram
- Uploading ER diagram as JSON
- Views in Datasphere
- View Editor
- Association

Unit 4 – Data Builder-Table, Views

- Data Layer: Introduction to Analytical Model
- Options for analytic consumption and openness with external tooling
- Options for analytic consumption and openness with external tooling



Unit 5- Connectivity and Cloud Connector

- Understand SAP Cloud Connector
- Why we need cloud connector and setup
- Configure SAP BTP with Cloud Connector

Unit 6- Connections with BW

- Configure SAP BTP with Cloud Connector
- Data Provisioning Agent
- What is Cloud Connector?
- Basics of Connectivity and Role of SCC
- What is SAP BTP?
- Setup your FREE BTP Account
- Customer View of BTP Account
- Cloud Connector

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- What is SAP HANA Cloud?
- Database / Datawarehouse / Data lake
- HANA Cloud v/s On-premise
- What is Schema in HANA
- HDI Container
- Create HANA Cloud Instance
- Connect to your HANA Cloud DB

Unit 7- HANA Cloud Connections and Remote Table Objects

- Connect to HANA Cloud from Datasphere
- Virtual Data Access
- Real time replication and Snapshot
- Remote Tables
- Types of Joins
- Joins
- Currency Conversion

Unit 8- Hierarchies and Data flows

- Hierarchy
- Data Flow – Introduction
- FORMULA'S
- Script operator in data flows



Unit 9- Python Foundation

- Introduction to Python
- Working with python variables, loops, if, conditions, exceptions
- Python syntax with function definition def
- Syntax rules of python
- Reusable python modules and setup modules
- Introduction to Pandas
- Working with data frames
- Using python in data flows with sap datasphere

Unit 10 - Data flows with Python

- Task Chain
- Task Chain - Execution type

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- View persistency

Unit 11- SQL views and Script

- EPM Data Model
- SQL Views
- Common challenges in connecting
- SQL Script
- Rules to follow
- Containers in SQL Script
- Final code

Unit 12- Setup your Free Tier

- Activating FREE Tier with BTP

Unit 13- Data Access Control DIM

- What is Data Access Control
- Cross Space Sharing
- Data Integration Monitor – Overview
- System Monitor
- DB Analysis user
- SAP HANA Cockpit



Unit 14- Data Market and ILookup

- Data Marketplace
- Fuzzy Search
- Data sharing Cockpit
- Data provider profile
- Context Management

Unit 15- Business Builder

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- The Business Builder
- Business Builder Artifacts
- Overview - Models
- Case Study

Unit 16 – Catalog and Integration Flows

- Why data governance is so difficult?
- What is Catalog
- Data discovery and Consumption
- Business Glossary and Terms
- Tags and Classification
- Administration and Monitoring
- Replication Flow
- Delta load
- CDS Views
- Excel Integration



Unit 17 – BW Integration

- SAP BW Hybrid Integration - Journey
- BW Query to Datasphere
- Remote Authorization
- Process Flow – Authorization
- Pre-Requisite
- BW Bridge
- Key Features
- Reuse and Rebuild
- Overview – Architecture
- Overview
- BW Query to Datasphere
- Conversion Overview
- Layer shift

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