BW430

SAP BW/4HANA Data Modeling

COURSE OUTLINE

Course Version: 21
Course Duration:

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Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	*Example text*
Window title	*Example text*

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Course Overview

TARGET AUDIENCE
This course is intended for the following audiences:

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UNIT 1 Challenges for Data Modeling

Lesson 1: Introducing Data Modeling

Lesson Objectives

After completing this lesson, you will be able to:

- Understand modeling issues

Lesson 2: Solving Requirement Conflicts

Lesson Objectives

After completing this lesson, you will be able to:

- Solve requirement conflicts

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UNIT 2 Overview of the Business Case

Lesson 1: Getting to Know the ItelO Case Study

Lesson Objectives

After completing this lesson, you will be able to:

- Get to know the ItelO case study

Lesson 2: Understanding the Source System Data Model

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how the Source System Data Model separates data

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UNIT 3 SAP Data Warehouse Solutions

Lesson 1: SAP Data Warehousing Options

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the concepts of SAP Data Warehousing

Lesson 2: Key Aspects of SAP HANA Modeling

Lesson Objectives

After completing this lesson, you will be able to:

- Understand advantages and features of SAP HANA modeling

Lesson 3: Key Aspects of SAP BW/4HANA Modeling

Lesson Objectives

After completing this lesson, you will be able to:

- Understand advantages and features of SAP BW/4HANA modeling

Lesson 4: Comparing SAP BW/4HANA Focus, SAP HANA Focus, and Mixed Strategies

Lesson Objectives

After completing this lesson, you will be able to:

- Compare SAP BW/4HANA focus, SAP HANA focus, and mixed strategies

Lesson 5: Interaction of SAP Data Warehouse Cloud and SAP BW/4HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Understand interaction of SAP Data Warehouse Cloud and SAP BW/4HANA

Lesson 6: Key Aspects of S/4HANA Embedded Analytics

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Lesson Objectives

After completing this lesson, you will be able to:

- Understand S/4HANA Embedded Analytics

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UNIT 4 Best Practice Standards in SAP BW/4HANA Modeling

Lesson 1: Understanding Object Changeability in System Landscape

Lesson Objectives

After completing this lesson, you will be able to:

- Understand object changeability in System Landscape

Lesson 2: Separating Master Data and Transactional Data

Lesson Objectives

After completing this lesson, you will be able to:

- Separate master data and transactional data

Lesson 3: Tracking History

Lesson Objectives

After completing this lesson, you will be able to:

- Understand tracking history

Lesson 4: Mapping and Transforming Data

Lesson Objectives

After completing this lesson, you will be able to:

- Map and transform data

Lesson 5: Designing an SAP BW/4HANA Layered Scalable Architecture (LSA++)

Lesson Objectives

After completing this lesson, you will be able to:

- Design a Layered Scalable Architecture

Lesson 6: Understanding Physical and Logical Partitioning

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Lesson Objectives

After completing this lesson, you will be able to:

- Understand physical and logical partitioning

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UNIT 5 Process of Modeling

Lesson 1: Defining the Sequence of SAP BW/4HANA Projects

Lesson Objectives

After completing this lesson, you will be able to:

- Define a sequence of SAP BW projects

Lesson 2: Planning the Phases of an SAP BW/4HANA Project

Lesson Objectives

After completing this lesson, you will be able to:

- List the five phases of an SAP BW project
- Understand the preparation phase
- Understand the business blueprint phase
- Understand the realization phase
- Understand the final preparation phase
- Understand the go live and support phase

Lesson 3: Developing an SAP BW/4HANA Data Model

Lesson Objectives

After completing this lesson, you will be able to:

- Structure the process of data model creation in the business blueprint phase
- Perform a requirement analysis
- Create an architecture overview
- Create a logical data model
- Develop an SAP BW/4HANA data model

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UNIT 6 SAP BW/4HANA Content Add-On

Lesson 1: Working with SAP Business Content

Lesson Objectives

After completing this lesson, you will be able to:

- Work with SAP Business Content

Lesson 2: Introducing ABAP CDS Views provided by SAP BW/4HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce ABAP CDS Views provided by SAP BW/4HANA

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UNIT 7

Implementing SAP BW/4HANA Field-Based Models

Lesson 1: Implementing Field-Based Modeling with Open ODS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the purpose of field-based modeling with Open ODS Views

Lesson 2: Understanding Snapshot and Corporate Memory Models

Lesson Objectives

After completing this lesson, you will be able to:

- Understand snapshot and corporate memory

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UNIT 8 Implementing SAP BW/4HANA InfoObject Master Data Models

Lesson 1: Modeling and Implementing SAP BW/4HANA Master Data

Lesson Objectives

After completing this lesson, you will be able to:

- List the tables in the SAP BW/4HANA data model
- Implement SAP BW/4HANA Master Data

Lesson 2: Modeling SAP BW/4HANA Hierarchies

Lesson Objectives

After completing this lesson, you will be able to:

- Model and Use SAP BW/4HANA Hierarchies

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UNIT 9

Implementing SAP BW/4HANA Transactional Data Models

Lesson 1: Modeling and Implementing Advanced DataStore Objects (aDSOs)

Lesson Objectives

After completing this lesson, you will be able to:

- Model and Implement Advanced DataStore Objects (aDSOs)

Lesson 2: Modeling and Implementing InfoSources and Conversions in Transformations

Lesson Objectives

After completing this lesson, you will be able to:

- Model and implement InfoSources
- Decide how to derive keyfigures
- Convert currencies
- Convert units of measurement

Lesson 3: Modeling and Implementing CompositeProviders

Lesson Objectives

After completing this lesson, you will be able to:

- Model and Implement CompositeProviders

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UNIT 10

SAP BW/4HANA Data Lifecycle Management

Lesson 1: Describing Multi-Temperature Data Management

Lesson Objectives

After completing this lesson, you will be able to:

- Explain multi-temperature data management in SAP BW/4HANA

Lesson 2: Introducing SAP BW/4HANA Data Tiering Optimization (DTO)

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the SAP BW/4HANA concept of Data Tiering Optimization

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UNIT 11 Further Modeling Topics in SAP BW/4HANA

Lesson 1: Introducing the SAP HANA Analysis Process (HAP)

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce the SAP HANA Analysis Process (HAP)

Lesson 2: Defining Inventory Scenarios

Lesson Objectives

After completing this lesson, you will be able to:

- Create Key Figures for Non-Cumulatives
- Define Inventory Scenarios Using DataStore Objects (Advanced)

Lesson 3: Stock Coverage

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss stock coverage

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UNIT 12 Implementing Native SAP HANA Views

Lesson 1: Getting Started with SAP Web IDE for SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Explore SAP Web IDE for SAP HANA

Lesson 2: Modeling Master Data in SAP HANA Views

Lesson Objectives

After completing this lesson, you will be able to:

- Create SAP HANA views with hierarchies

Lesson 3: Modeling Transactional Data in SAP HANA Views

Lesson Objectives

After completing this lesson, you will be able to:

- Create SAP HANA Views with Measures

Lesson 4: Differences between SAP HANA 1.0 and SAP HANA 2.0

Lesson Objectives

After completing this lesson, you will be able to:

- Explain Differences between SAP HANA 1.0 and SAP HANA 2.0

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UNIT 13 Implementing Mixed Scenarios

Lesson 1: Explaining the Purpose of Mixed Scenarios

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the purpose of Mixed Scenarios

Lesson 2: Consuming SAP HANA Calculation Views in SAP BW/4HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Consume SAP HANA Calculation Views in SAP BW/4HANA

Lesson 3: Generating External SAP HANA Views from SAP BW/4HANA Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Generate External SAP HANA Views from SAP BW/4HANA Objects

Lesson 4: Consuming Generated External SAP HANA Views

Lesson Objectives

After completing this lesson, you will be able to:

- Consume Generated External SAP HANA Views

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UNIT 14 Appendix

Lesson 1: Implementing SAP BW/4HANA Workspaces

Lesson Objectives

After completing this lesson, you will be able to:

- Get started with SAP BW Workspaces

Lesson 2: SAP BW/4HANA Lifecycle Management - Additional Information

Lesson Objectives

After completing this lesson, you will be able to:

- Provide additional information regarding SAP BW/4HANA Lifecycle Management

Lesson 3: Additional Sources of Information for SAP BW/4HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Provide additional sources of information regarding SAP BW/4HANA

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