

S4D430

Building Views in Core Data Services ABAP (CDS ABAP)

COURSE OUTLINE

Course Version: 20
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	<i>Example text</i>
Window title	<i>Example text</i>

Contents

vii Course Overview

1 Unit 1: Introduction

- 1 Lesson: Motivating CDS Views and Understanding the Background
- 1 Lesson: Working with ABAP Development Tools (ADT)
- 1 Lesson: Analyzing and Using A CDS View

3 Unit 2: Basic SQL Features in CDS Views

- 3 Lesson: Defining a Simple CDS View
- 3 Lesson: Creating a CDS View with Inner Join, Projection, and Selection
- 3 Lesson: Using ABAP Annotations in CDS Views

5 Unit 3: More SQL Features in CDS Views

- 5 Lesson: Using SQL Expressions in CDS Views
- 5 Lesson: Using Built-in SQL Functions in CDS Views
- 5 Lesson: Understanding Nested Views
- 5 Lesson: Using Aggregations in CDS Views
- 5 Lesson: Using Additional Join Types and UNION (ALL)

7 Unit 4: Advanced Concepts

- 7 Lesson: Defining CDS Views with Input Parameters
- 7 Lesson: Building CDS Views with Associations
- 7 Lesson: Enhancing a CDS View
- 7 Lesson: Linking a CDS View with Authorization Rules

9 Unit 5: Database-Specific Features of ABAP CDS

- 9 Lesson: Understanding CDS Table Functions

11 Unit 6: Consumption of CDS Views (Outlook)

- 11 Lesson: Using a CDS View as Data Source for ALV IDA
- 11 Lesson: Using CDS Views as Replacement Objects
- 11 Lesson: Generating OData Services from CDS Views
- 11 Lesson: Understanding the Consumption of CDS Views in SAP Fiori
- 11 Lesson: Understanding Analytics Based on CDS Views
- 12 Lesson: Understanding Virtual Data Models with CDS Views

Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

Lesson 1: Motivating CDS Views and Understanding the Background

Lesson Objectives

After completing this lesson, you will be able to:

- Know the Background for Core Data Services
- Understand the Basics of CDS

Lesson 2: Working with ABAP Development Tools (ADT)

Lesson Objectives

After completing this lesson, you will be able to:

- Work with ABAP Development Tools

Lesson 3: Analyzing and Using A CDS View

Lesson Objectives

After completing this lesson, you will be able to:

- Read a Data Definition
- Use CDS-related Tools in ADT
- Use Open SQL to Read From a CDS View

Lesson 1: Defining a Simple CDS View

Lesson Objectives

After completing this lesson, you will be able to:

- Create a DDL Source
- Understand the DDL Syntax Rules

Lesson 2: Creating a CDS View with Inner Join, Projection, and Selection

Lesson Objectives

After completing this lesson, you will be able to:

- Define a CDS View That Reflects a Database View

Lesson 3: Using ABAP Annotations in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use ABAP Annotations in CDS Views
- Work with Translatable Texts in CDS

Lesson 1: Using SQL Expressions in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use SQL Expressions in CDS Views

Lesson 2: Using Built-in SQL Functions in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use Built-in SQL Functions in CDS Views

Lesson 3: Understanding Nested Views

Lesson Objectives

After completing this lesson, you will be able to:

- Define CDS Views Based on Other CDS Views

Lesson 4: Using Aggregations in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use Aggregate Functions and Group By in CDS Views

Lesson 5: Using Additional Join Types and UNION (ALL)

Lesson Objectives

After completing this lesson, you will be able to:

- Understand Additional Join Types
- Understand UNION and UNION ALL

Lesson 1: Defining CDS Views with Input Parameters

Lesson Objectives

After completing this lesson, you will be able to:

- Define CDS Views with Input Parameters
- Provide Values for Input Parameters of a CDS View
- Specify a Default Value for an Input Parameter

Lesson 2: Building CDS Views with Associations

Lesson Objectives

After completing this lesson, you will be able to:

- Define Views with Associations
- Expose Associations
- Use Exposed Associations in Path Expressions
- Understand Filtered Associations

Lesson 3: Enhancing a CDS View

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the Concept of CDS View Enhancements
- Enhance a CDS View
- Understand Metadata Extensions

Lesson 4: Linking a CDS View with Authorization Rules

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the Concept of CDS DCL
- Create a DCL Source

Lesson 1: Understanding CDS Table Functions

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the AMDP Framework
- Define CDS Table Functions
- Read Data From CDS Table Functions

Lesson 1: Using a CDS View as Data Source for ALV IDA

Lesson Objectives

After completing this lesson, you will be able to:

- Understand ALV with Integrated Data Access (ALV IDA)
- Display Data with ALV IDA
- Use CDS Views as Data Source for ALV IDA

Lesson 2: Using CDS Views as Replacement Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Understand Replacement Objects

Lesson 3: Generating OData Services from CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the benefits of SAP Gateway and OData
- Publish Gateway Services via CDS View Annotation

Lesson 4: Understanding the Consumption of CDS Views in SAP Fiori

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the Consumption of CDS Views in SAP Fiori

Lesson 5: Understanding Analytics Based on CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Understand Analytics with CDS Views

Lesson 6: Understanding Virtual Data Models with CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Understand Virtual Data Models (VDM)