

# Data Modelling in ABAP Dictionary and ABAP Core Data Services

Course code: S4D430

You are an ABAP developer and want to build your own views with ABAP CDS (Core Data Services)? During this course, you will learn the basic idea of Core Data Services and how SAP implemented this concept on the ABAP stack. In these three days, you will get a deep insight into the many features by which CDS Views surpass classical ABAP Dictionary views, and you will learn to leverage the full potential of CDS when defining your own views. Particular highlights will be the extended join possibilities, calculations on database level (including currency conversions), nested views, associations and path expressions, input parameters, and the possibility to link CDS views to authorization checks. Finally, you will get an outlook on the different scenarios for CDS view consumption. Course based on software release: AS ABAP 7.55, ABAP Platform 2020, SAP S/4HANA 2020.

| Affiliate | Duration | Course price | ITB |
|-----------|----------|--------------|-----|
| Praha     | 4        | 52 900 Kč    | 0   |

The prices are without VAT.

## Course terms

| Date          | Duration | Course price | Type   | Course language | Location        |
|---------------|----------|--------------|--------|-----------------|-----------------|
| 09.02.2026    | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |
| 30.03.2026    | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |
| 26.05.2026    | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |
| ⚙️ 27.07.2026 | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |
| 14.09.2026    | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |
| 23.11.2026    | 4        | 52 900 Kč    | Online | EN              | SAP ČR - Online |

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## Who is the course for

- Developer
- Development Consultant

## What we teach you

This course will prepare you to:

- Analyze and define views in Core Data Services ABAP (CDS ABAP)
- Understand how CDS Views surpass ordinary database views
- Leverage the available SQL features in CDS Views
- Use CDS specific concepts like input parameters, associations, enhancements, implicit authorization checks and table functions
- Know the most common use cases for CDS Views

## Required skills

None

## Course outline

- Working with ABAP Development Tools (ADT)
- Tools for analyzing existing CDS Views
- Defining CDS Views
- ABAP Annotations in CDS Views
- SQL Expressions and SQL Functions in CDS Views

**GOPAS Praha**  
Kodářská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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# Data Modelling in ABAP Dictionary and ABAP Core Data Services

- Nested Views
- Aggregations in CDS Views
- Additional Join Types and UNION (ALL)
- CDS Views with Input Parameters
- Associations in CDS Views
- CDS View Enhancement
- Implicit Authorization Checks for CDS Views
- CDS Table Functions
- Overview of common use cases for CDS Views

## What you need to know

The course is held on an SAP S/4HANA system but most of its content is generic. It is applicable for any ABAP based environment, in particular SAP S/4HANA cloud and SAP BTP, ABAP Environment. CDS ABAP does not require a specific database. You can use all its features with any database supported by AS ABAP. The only exception is the use of CDS table functions which requires an SAP HANA database. CDS ABAP is available as of release 7.40. Some of the concepts discussed in this course require a higher release.

**GOPAS Praha**  
Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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