# S4D430 - Data Modelling in ABAP Dictionary and ABAP Core Data Services Training

Duration: **4 Day**

BILGINÇ IT Academy
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The **Data Modelling in ABAP Dictionary and ABAP Core Data Services (CDS)** course expands your ABAP development skills with a strong focus on **data design, CDS modeling, and SQL logic in ABAP**.

You'll learn to define **database tables**, **global types**, and **CDS views** within the **ABAP Dictionary**. The course also covers advanced concepts such as **object relationships**, **code pushdown**, **metadata enrichment**, and **data authorization control** in ABAP environments.

This training runs on **SAP BTP, ABAP Environment**, but the knowledge is equally valid for **SAP S/4HANA Cloud, ABAP Environment**, and **SAP S/4HANA 2020 or higher**.

## Prerequisites

**Essential:**

- **S4D400 – ABAP Programming for SAP S/4HANA**
- **S4D401 – ABAP Programming for SAP S/4HANA – Advanced**

**Recommended:**

- Basic understanding of relational data modeling and SQL

## Who Should Attend

- **Developers**
- **Development Consultants**
- **Technical Architects**

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## What You Will Learn

After completing this course, you will be able to:

- Define and maintain **database tables** in the **ABAP Dictionary**.
- Create and manage **view entities** in **ABAP Core Data Services (CDS)**.
- Model **associations and relationships** between data objects.
- Implement **code pushdown** using SQL logic in CDS views.
- Add **metadata and annotations** to enrich your data models.
- Protect your data through **authorization controls**.
- Extend existing or external data models effectively.

## Training Outline

- Introduction to Data Modelling in ABAP
- Creating Database Tables in ABAP Dictionary
- Defining Global Data Types
- Building CDS View Entities
- Modeling Relationships and Associations
- Applying SQL Logic (Code Pushdown) in CDS Views
- Defining Metadata for Dictionary Objects and CDS Views
- Securing Data and Managing Authorizations