



# SAP Datasphere

Teaching and Learning Environment  
SAP University Competence Center Magdeburg

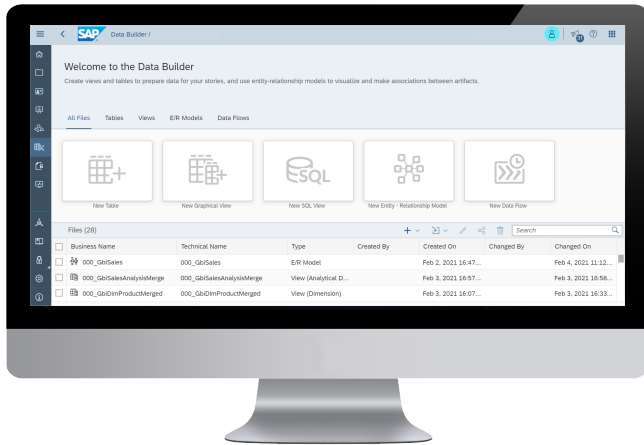
## Build your Data Models in the Cloud

SAP Data Warehouse Cloud (DWC) combines modern data management and business intelligence. In DWC, data models can be created, data can be loaded using an ETL process and then prepared for analysis and visualization in the SAP Analytics Cloud (SAC). Students learn how to model and analyze data and create meaningful reports based on the models.

## The Curriculum

The curriculum is based on the model company Global Bike and is primarily aimed at students of economics, computer science and interdisciplinary studies. So far, there are two case studies that build on each other and teach the most important basics of Sap Datasphere.

The required data is drawn from an SAP S/4HANA system and made available to students in their learning environment via data products.



### Trial Account

The SAP UCC offers one-month trial access to Sap Datasphere free of charge. If you are interested in a trial account, please contact [trial@ucc.ovgu.de](mailto:trial@ucc.ovgu.de).

## Case Study 1 - Basic Concepts

Get to know the basic functions of SAP Datasphere by creating a simple data mart for Global Bike's sales data.

- Modeling with the Data Builder
- Data visualization with the Story Builder in SAP Analytics Cloud
- Analysis of planned vs. actual data

## Case Study 2 - Merger Scenario

Integrate an acquired company into the existing data model.

- Standardization of master and transaction data from different data structures
- Extending the data model
- Visualization of consolidated data

## Case Study 3 – Analytic Model

Explore the core features of the Analytic Model in SAP Datasphere using the Global Bike example.

- Creation of calculated key figures
- Use of filters and filter variables
- Analysis of sales data

## Case Study 4 – Transformation Flow

Introduction to creating and scheduling ETL processes with Transformation Flow in SAP Datasphere.

- Development of a transformation flow
- Automation of ETL processes
- Integration of external data sources

## Case Study 5 – Geo-Enrichment with Intelligent Lookup

Enrich sales data with geographic information using Intelligent Lookup.

- Addition of latitude and longitude
- Use of external reference data
- Visualization of sales data on maps

## Case Study 6 – Slowly Changing Dimensions

Demonstrate how to represent and analyze time-dependent attributes (Slowly Changing Dimensions) in SAP Datasphere.

- Persistence of time-dependent data
- Loading and management of historical attributes
- Analysis of changes over time

# Services for teaching, research and co-innovation

SAP University Alliances is a global program that provides more than 3,000 universities with free SAP software licenses for academic purposes. Within this program the SAP University Competence Centers (UCC) host SAP solutions for teaching, research and co-innovation.

In addition UCCs develop and manage academic teaching materials to assist lecturers and researchers. While UCCs assure 24/7 availability of complex system landscapes and support users closely, faculty members can fully concentrate on their core competences: teaching and research.

By using our scenario-based and practical curricula on latest SAP solutions, lecturers and students can reach their full potential. Our comprehensive teaching materials consist of presentations, case studies and hands-on exercises. Additional teaching tools facilitate continuous student assessments and foster group discussions.

Our experts can support you through all phases.

## Contact

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