



SAP HANA 2.0

Teaching and Learning Environment
SAP University Competence Center Magdeburg

Main features of the SAP HANA Curriculum

Main focus of this curriculum is the presentation of core concepts, data replication methods and modeling techniques of in-memory databases like SAP HANA.

The SAP UCCs provide access to a SAP HANA system with exclusive memory initially reserved for 30 users. The pre-installed data of the fictitious model company Global Bike allow a vivid demonstration and the testing of relevant processes and procedures.

Lecturers have access to teaching guidelines, ready-to-use presentations, case studies and exercises to be used in classes as well as in research projects.

Topics of the curriculum

Introduction to SAP HANA

... provides an introduction to the basics of in-memory databases and their use for analytical applications:

- Learn the basics of in-memory computing and in-memory databases
- Learn how to load data into SAP HANA
- Learn how to create data models in SAP HANA
- Learn how to analyze data with SAP HANA

Native Development...

... provides an insight into native application development with SAP HANA:

- Learn how to create and handle RESTful OData web services
- Learn how to use SAPUI5 to build native and webapplications on SAP HANA
- Learn how to build Fiori applications

Data Mining...

... demonstrates how to analyze stored data with the SAP Application Function Library:

- Learn how to use the SAP Application Functon Library for data mining purposes
- Learn how to run sales forecasts for the Global Bike Company
- Learn how to run shopping basket analysis
- Learn how to execute an ABC analysis in order to find out which items are most commonly sold together

Geospatial Processing...

... SAP HANA can process geographical information to generate valuable information:

- Learn how geographical representation and spatial clustering works
- Learn how to create, access and process spatial data in SAP HANA
- Learn how to visualize data with the Global Bike Demo App

Text Analytics...

... demonstrates the text mining capabilities of SAP HANA:

- Learn how to analyze text with SAP HANA at the example of Twitter data
- Learn how to visualize the results with SAP Predictive Analytics

Introduction to Graph Processing...

... demonstrates how graphs can be set up and visualized in SAP HANA. An application case shows possible usage of different high performance algorithms:

- Learn about graphs and how they work
- Learn how graph algorithms can speed up business processes
- Learn how to create and use graphs for different scenarios in SAP HANA
- Learn how to use existing graph algorithms on SAP HANA

Trial Account

SAP UCC offers one-month trial access to an SAP HANA system and the Global Bike landscape free of charge. If you are interested in a trial account, please register at trial@ucc.ovgu.de.

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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