Courses Listed

Advanced

- BW305H - SAP BW powered by SAP HANA: BW Query Design
- BW310H - SAP BW powered by SAP HANA: Enterprise Data Warehousing
- BW330H - SAP BW powered by SAP HANA: Data Warehouse Modeling
- BW350H - SAP BW powered by SAP HANA: Data Acquisition
- BW360H - SAP BW powered by SAP HANA: Operations and Performance
- BW362 - SAP BW powered by SAP HANA
- BW363 - SAP BW powered by SAP HANA - Delta BW Query Design
- BW365 - User Management and Authorizations
- BW365E - User Management and Authorizations
**BW363  SAP BW powered by SAP HANA - Delta BW Query Design**

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

**BW360H  SAP BW powered by SAP HANA: Operations and Performance**

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>27 Jan - 31 Jan 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>11 May - 15 May 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>19 Oct - 23 Oct 2020</td>
<td>$4,090.00</td>
</tr>
</tbody>
</table>

**BW365E  User Management and Authorizations**

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>E-Learning, Online</td>
<td>BW 7.4</td>
<td>English</td>
<td>1 Jan - 31 Dec 9999</td>
<td>$562.00</td>
</tr>
<tr>
<td>Country</td>
<td>Delivery method &amp; Location</td>
<td>Solution Release</td>
<td>Language</td>
<td>Timeframe</td>
<td>Cost</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------------------------------------------------</td>
<td>------------------</td>
<td>----------</td>
<td>-------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>BW 7.4</td>
<td>English</td>
<td>19 Feb - 21 Feb 2020</td>
<td>$2,454.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>BW 7.4</td>
<td>English</td>
<td>29 Jun - 1 Jul 2020</td>
<td>$2,454.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>BW 7.4</td>
<td>English</td>
<td>14 Dec - 16 Dec 2020</td>
<td>$2,454.00 (USD)</td>
</tr>
</tbody>
</table>
BW365  User Management and Authorizations (continued)

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

BW350H  SAP BW powered by SAP HANA- Data Acquisition

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>16 Dec - 20 Dec 2019</td>
<td>$3,750.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>16 Mar - 20 Mar 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>18 May - 22 May 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>5 Oct - 9 Oct 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
</tbody>
</table>

BW330H  SAP BW powered by SAP HANA: Data Warehouse Modeling

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>2 Mar - 6 Mar 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>27 Apr - 1 May 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
</tbody>
</table>
### BW330H  SAP BW powered by SAP HANA: Data Warehouse Modeling (continued)

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>28 Sep - 2 Oct 2020</td>
<td>$4,090.00 (USD)</td>
</tr>
</tbody>
</table>

### BW305H  SAP BW powered by SAP HANA: BW Query Design

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

### BW362  SAP BW powered by SAP HANA

<table>
<thead>
<tr>
<th>Country</th>
<th>Delivery method &amp; Location</th>
<th>Solution Release</th>
<th>Language</th>
<th>Timeframe</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Classroom, Dallas (MIC)</td>
<td>SAP HANA SPS12</td>
<td>English</td>
<td>10 Feb - 14 Feb 2020</td>
<td>$4,495.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP HANA SPS12</td>
<td>English</td>
<td>30 Mar - 3 Apr 2020</td>
<td>$4,495.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP HANA SPS12</td>
<td>English</td>
<td>22 Jun - 26 Jun 2020</td>
<td>$4,495.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP HANA SPS12</td>
<td>English</td>
<td>21 Sep - 25 Sep 2020</td>
<td>$4,495.00 (USD)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP HANA SPS12</td>
<td>English</td>
<td>16 Nov - 20 Nov 2020</td>
<td>$4,495.00 (USD)</td>
</tr>
<tr>
<td>Country</td>
<td>Delivery method &amp; Location</td>
<td>Solution Release</td>
<td>Language</td>
<td>Timeframe</td>
<td>Cost</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>------------------------</td>
<td>----------</td>
<td>----------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>16 Dec - 20 Dec 2019</td>
<td>$3,750.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>13 Jan - 17 Jan 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>24 Feb - 28 Feb 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Classroom, San Francisco (MIC)</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>20 Apr - 24 Apr 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>1 Jun - 5 Jun 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>21 Sep - 25 Sep 2020</td>
<td>$4,090.00</td>
</tr>
<tr>
<td>United States of America</td>
<td>Virtual Live Classroom, US ET Virtual Classroom</td>
<td>SAP BW 7.5 ON SAP HANA</td>
<td>English</td>
<td>30 Nov - 4 Dec 2020</td>
<td>$4,090.00</td>
</tr>
</tbody>
</table>
BW310H  SAP BW powered by SAP HANA: Enterprise Data Warehousing (continued)

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.
Comparison of SAP Business Warehouse on any database with SAP Business Warehouse running on SAP HANA database with focus on the reporting and analysis

Overview of SAP HANA Studio and BW Modelling Tools
Creation of BW Queries with BW Query Designer in SAP HANA Studio
Differences of BW Query Designer in SAP HANA Studio to BEx Query Designer relating to Queries, reusable query elements and where-used- list
Basic concepts of query performance optimization
Overview of Business Intelligence (BI) products based on SAP BW Queries (BI Platform server, Analysis for Office, Design Studio, Lumira, Web Intelligence, Crystal Reports)

Notes
This course is designed as a delta training. If you are not yet familiar with BEx Query designer and want to learn to create BW Queries in SAP BW powered by SAP HANA system, you should attend course BW305H.

Courseware available as flibook in the Learning Hub

Goals
This course will prepare you to:
Understand and get an overview of SAP BW powered by SAP HANA from a Reporting perspective
Learn the process of creating BW Queries with the new BW Query Designer in SAP HANA Studio

Audience
Application Consultant
Business Analyst
Business Process Owner / Team Lead / Power User
Data Consultant / Manager
Technology Consultant

Essential
Profound Knowledge of BEx Query Designer (BW305, TBI10)

Course based on software release
SAP BW 7.5 on SAP HANA

Content
Introduction to SAP HANA
COURSE LISTING

BW360H - SAP BW powered by SAP HANA: Operations and Performance

Duration
5 days

Goals
- Understand the Components and Architecture of SAP BW and SAP HANA
- Create and Manage CompositeProviders and ADSO
- Perform Delta Merge
- Administer and Monitor Data Acquisition
- Information Lifecycle Management
- Manage SAP BW Transports
- Manage SAP HANA Transports
- Optimize Query Performance
- Administer and Analyze BW Statistics
- SAP HANA Administration for BW

Audience
- Database Administrator
- Enterprise Architect
- Solution Architect
- System Administrator
- Technology Consultant

Essential
- BW310H

Course based on software release
- SAP BW 7.5 powered by SAP HANA

Content
- SAP Business Warehouse and SAP HANA Overview
- Identifying the Components and Architecture of SAP BW and SAP HANA

• InfoProvider Administration
• Describing InfoProvider
• Managing ADSO
• Managing Open ODS View
• Creating and Managing CompositeProviders
• Delta Merge
• Describing Delta Merge in BW
• Data Acquisition Administration and Monitoring
• Describing Data Acquisition Administration into SAP BW
• Loading Master Data
• Designing Process Chains
• Maintaining Process Chains
• Monitoring Process Chains
• Using Transformations
• Describing Data Acquisition in SAP HANA
• Information Lifecycle Management
• Describing Multi Temperature Data Management
• Optimizing SAP BW Data Management (Warm Data)
• Optimizing SAP BW Data Management (Cold Data)
• SAP BW Transports
• Describing the BW Transport System Landscape
• Determining Object Versions and Metadata
• Managing BW Transports
• Transporting Query Objects
• Troubleshooting Transport Strategies
• SAP HANA Transports
• Explaining SAP HANA Transports
• Optimization Areas in SAP BW on SAP HANA
• Describing HANA Optimized Data Modeling for InfoProviders
• Improving Data Acquisition Performance
• Performance in Reporting
• Getting Acquainted with SAP HANA Analytic Manager
• Designing Queries for Optimal Performance
• Optimizing Query Performance Using the Online Analytical Processing (OLAP) Cache
• Performance Management with BW Statistics
• Optimizing Performance with BW Statistics
• Implementing Technical Content for BW Statistics
• Administering and Analyzing BW Statistics Data
• Monitoring with BW Administration Cockpit
• SAP HANA Administration for BW
• Explaining Database Traces
• Describing the DBA Cockpit
• Analysing Memory Usage
• Analyzing the Performance of SAP HANA Views
• Additional topics for SAP BW on SAP HANA
• Describing SAP HANA Data Warehousing Foundation
• Explaining Solution Manager Configuration and Monitoring
• Describing BW Housekeeping Tasks
• Describing BW/4HANA
• Performing Traces with BW Trace Tool
BW365E - User Management and Authorizations

Goals
- Describe how security is implemented in SAP BW.
- Implement and manage security in an SAP BW environment.

Audience
- Application Consultant
- System Administrator

Essential
- ADM940 or previous SAP security experience in SAP ERP.

Course based on software release
- SAP BW 7.4

Content
- SAP Business Warehouse (BW)
- Identifying SAP BW Architecture and Administration Tools
- Creating and Modifying SAP Business Explorer (BEx) Queries
- Security Components
- Comparing Transactional and Analytical Security Needs
- Differentiating Between Standard and Analysis Authorizations
- Protecting Data with Analysis Authorizations
- Identifying the Prerequisites for Analysis Authorizations
- Standard Authorization Objects for Reporting Users
- Creating Standard Authorizations for Reporting Users
- Special Authorization Objects for Reporting Users
- Creating Analysis Authorizations for InfoProvider Data
- Enabling and Disabling the InfoArea Structure
- Identifying the Differences Between the Handling of Workbooks and Queries in Roles
- Analysis Authorizations
- Creating Analysis Authorizations for Specific InfoProvider Data
- Creating Analysis Authorizations for Specific Characteristic Values
- Creating Analysis Authorizations for Aggregated Values
- Creating Analysis Authorizations for ""Not Assigned"" Values
- Creating Analysis Authorizations for Display and Navigational Attributes
- Creating Key Figure Authorizations
- Creating Hierarchy Authorizations
- Adding Variables to Authorizations
- Maintenance of Authorizations
- Maintaining Authorizations
- Data Access for Administrators and Users
- Securing Data Access for Administrators
- Assigning Role-Based Authorizations using Templates
- Tracing Performance Issues
- Setting Up System Communication Security
- Migration of Reporting Authorizations to Analysis Authorizations
- Migrating Reporting Authorizations to Analysis Authorizations
- SAP NetWeaver Portal
- Managing SAP NetWeaver Portal Access for SAP BW Users
- Publishing SAP BW Content in the SAP NetWeaver Portal
• SAP BusinessObjects Business Intelligence (BI) Platform + Integrating SAP BW Security into the SAP BusinessObjects BI Platform
• Managing SAP BusinessObjects BI Platform Access for SAP BW Users
• Additional Topics in SAP BW
• Differentiating Between Planning Tools
• Identifying the Interaction Between Planning and Other SAP BW Activities
• Preventing and Troubleshooting Performance Issues
• Generating Structural Authorizations from SAP ERP Human Capital Management (HCM)
Special Authorization Objects for Reporting Users
Creating Analysis Authorizations for InfoProvider Data
Enabling and Disabling the InfoArea Structure
Identifying the Differences Between the Handling of Workbooks and Queries in Roles
Analysis Authorizations
Creating Analysis Authorizations for Specific InfoProvider Data
Creating Analysis Authorizations for Specific Characteristic Values
Creating Analysis Authorizations for Aggregated Values
Creating Analysis Authorizations for "Not Assigned" Values
Creating Analysis Authorizations for Display and Navigational Attributes
Creating Key Figure Authorizations
Creating Hierarchy Authorizations
Adding Variables to Authorizations
Maintenance of Authorizations
Securing Data Access for Administrators
Assigning Role-Based Authorizations using Templates
Tracing Performance Issues
Setting Up System Communication Security
Migration of Reporting Authorizations to Analysis Authorizations

Duration
3 days

Goals
- Describe how security is implemented in SAP BW.
- Implement and manage security in an SAP BW environment.

Audience
- Application Consultant
- System Administrator

Essential
- ADM940 or previous SAP security experience in SAP ERP.

Course based on software release
- SAP BW 7.4

Content
- SAP Business Warehouse (BW)
- Identifying SAP BW Architecture and Administration Tools
- Creating and Modifying SAP Business Explorer (BEx) Queries
- Security Components
- Comparing Transactional and Analytical Security Needs
- Differentiating Between Standard and Analysis Authorizations
- Protecting Data with Analysis Authorizations
- Identifying the Prerequisites for Analysis Authorizations
- Standard Authorization Objects for Reporting Users
- Creating Standard Authorizations for Reporting Users
• SAP NetWeaver Portal
• Managing SAP NetWeaver Portal Access for SAP BW Users
• Publishing SAP BW Content in the SAP NetWeaver Portal
• SAP BusinessObjects Business Intelligence (BI) Platform + Integrating SAP BW Security into the SAP BusinessObjects BI Platform
• Managing SAP BusinessObjects BI Platform Access for SAP BW Users
• Additional Topics in SAP BW
• Differentiating Between Planning Tools
• Identifying the Interaction Between Planning and Other SAP BW Activities
• Preventing and Troubleshooting Performance Issues
• Generating Structural Authorizations from SAP ERP Human Capital Management (HCM)
BW350H - SAP BW powered by SAP HANA - Data Acquisition

Duration
5 days

Course announcements
- You will learn how to design and maintain your own data flow components including Process Chains. You will work with data flows for attributes, text, hierarchies, and transaction data. You will learn how to position the various interface options. You will work with the Service API as well as the ODP to extract data from ECC for example. You will learn how the delta mechanism works for the Service API, ODP, and other interfaces. You will learn about Smart Data Integration and Smart Data Access. You will perform flat file imports and how to extract with Data Services. You will learn how to perform debug with the Data Transfer Process (DTP) as well as how to use the DTP Full vs. Delta settings. You will learn how to do transports for all BW objects.

Goals
- Learn how to extract data from SAP source systems with the SAP API (Application Programming Interface) and how to manage delta data
- Acquire data from using different interfaces such as: SDI - Smart Data Integration, SDA - Smart Data Access, ODP - Operational Data Provisioning, Flat File, DB Connect, XML, and Data Services
- Design and maintain process chains and perform transports * Distribute data via Data Marts and Open Hub

Audience
- Developer
- Solution Architect
- System Administrator
- Technology Consultant

• Trainer

Essential
- Sound knowledge of the content that is covered in BW310H - Data Warehousing course, especially working with the Data Warehousing Workbench

Course based on software release
- SAP BW 7.5 powered by SAP HANA

Content
- SAP BW and HANA Data Acquisition
- Introducing BW and HANA
- Explaining Data Acquisition in SAP BW
- Explaining SAP HANA Optimized Data Staging
- Comparing & Migrating 3.x to 7.x Data Flow Components
- Introducing Data Replication to HANA using SLT, SDI, and SDA
- Data Acquisition with the SAP BW Service API
- Connecting SAP Source Systems to SAP BW
- Displaying the Configuration of the SAP BW Service API
- Modeling Generic DataSources
- Explaining Business Intelligence (BI) Off The Shelf Content
- Loading hierarchies from ECC
- Examining the Transfer of GL Data
- Adapting BI Content DataSources
- Implementing Process Chains
• Delta Data Flow Management
• Describing Delta Management
• Explaining Terms and Basic Processes of Delta Enabled DataSources
• Configuring the Logistics Data Extraction (LO Cockpit)
• Configuring Generic Delta DataSources
• Learning Data Transfer Process(DTP) Settings
• Data Acquisition with ODP and SLT
• Describing Data Acquisition with Operational Data Provisioning (ODP)
• Analyzing Operational Delta Queue (ODQ)
• Replicating Data with SAP Landscape Transformation (SLT)
• Learning the Details of Real Time Data Acquisition (RDA)
• Extracting to BW via ODP-SLT
• Flat File Data Transfer
• Accessing Data from a Flat File
• Loading Flat File Hierarchies
• Using Workspaces for Local Flat File load
• Additional Data Acquisition Techniques
• Positioning DB Connect
• Positioning Universal Data (UD) Integration
• Explaining XML-Based Extraction
• Acquiring Data Using an XML Based Web Service
• Integrating SAP Data Services and SAP BW
• Positioning HANA SDI capabilities for BW
• Data Mart Interface and OpenHub
• Positioning the Data Mart Interface
• Implementing OpenHub Destinations
• Exporting a Hierarchy with OpenHub
• Exporting from a BW InfoProvider to a Native HANA Table
• Overview of BW Transports
• Describing the BW Transport System Landscape
• Determining Object Versions and Metadata
• Managing BW Transports
• Troubleshooting Transport Strategies
In this course, you learn the procedures within modeling of the BW Enterprise Data Warehouse and acquire deep knowledge about modeling and implementation of data warehousing with SAP BW 7.5. powered by SAP HANA.

Goals:
- This course will prepare you to:
- Learn procedures within modeling of SAP Business Warehouse
- Learn how to create a Layered Scalable Architecture

Audience:
- Application Consultant
- Business Analyst
- Business Process Architect
- Business Process Owner / Team Lead / Power User
- Enterprise Architect
- Program / Project Manager
- Technology Consultant

Essential:
- BW310H
- Basic knowledge of data modeling

Course based on software release:
- SAP BW 7.5 powered by SAP HANA
- BW Modeling Tool
- BO Enterprise Server

Content:
- Data Modeling with SAP Business Information Warehouse (SAP BW) Powered by SAP HANA
- Understanding Modeling Targets and Issues
- Understanding SAP HANA From a Modeling Perspective
- Understanding SAP BW From a Modeling Perspective
- Comparing SAP BW with SAP HANA
- Business Review
- Understanding the Relevant Skills and Exercises
- Getting to know the ITel0 Case Study
- Understanding the ERP Model
- Global Decision Areas and Best Practice Standards
- Planning Transport Management
- Separating Master Data and Transactional Data
- Tracking History
- Evaluating Global Standards and Local Adaptations
- Designing a Layered Scalable Architecture (LSA) with Virtual Layers
- Understanding LSADomains
- Understanding Reporting Options
• Process of Modeling
• Defining the Sequence of SAP BW Projects
• Planning the Phases of a SAP BW Project
• Developing a SAP BW Data Model
• Getting an Overview SAP HANA Live
• Overviewing Business Content
• Field-Based Rapid Prototyping
• Implementing Field-Based Modeling
• Master Data Modeling with SAP BW Characteristics
• Listing Tables in the SAP BW Data Model
• Using Reference Characteristics
• Using Hierarchies in SAP BW Characteristics
• Key Figure Modeling in SAP BW
• Defining Key Figures as InfoObjects
• Creating Key figures for Non-Cumulatives
• Transactional Data Modeling in SAP BW
• Modeling Advanced DataStore Objects (ADSOs)
• Implementing Currency Harmonization
• Implementing Quantity Conversion
• Modeling Transformations
• Modeling a Composite Provider for Agile Data Mart Scenarios
• Master Data Modeling in SAP HANA Views
• Modeling Master Data and Hierarchies in SAP HANA Views
Course Listing

- Transaction Data Modeling with SAP HANA
- Modeling Transactional Data in SAP HANA Views
- Hybrid Modeling in Mixed Scenarios
- Modeling Mixed Scenarios
- Enhancing Views in SAP HANA
- Enhanced Scenarios in SAP BW
- Modeling an SAP BW Workspace
- Implementing HANA Analysis Processes
- Existing Model Enhancement
- Using the SAP BW Remodeling Toolbox
- Converting Silos or LSAs to LSA

Notes

- This course contains only an overview over the Layered Scalable Architecture++ with SAP HANA, with some example LSA++ and SAP HANA modeling exercises. It is no substitute for a project consulting.
- This course does not discuss operational solutions or specific technical company scenarios.
- Courseware available as flipbook in Learning Hub
Introduction to SAP HANA and SAP Business Warehouse (BW)

Describing the Evolution and Data Layout of SAP HANA

Describing the Concepts of Business Intelligence (BI) and Data Warehousing on Any Database

Outlining the Basics of SAP BW Powered by SAP HANA

Set Up SAP BW Modeling Tools in SAP HANA Studio

Report Launching and Navigation in Reports

Outlining SAP BusinessObjects BI Platform

Navigating in SAP BusinessObjects Analysis, Edition for Microsoft Office

Navigating in SAP BusinessObjects Design Studio Generic App

Simple Queries

Creating Simple Queries

Key Figures in Queries

Configuring Properties of Key Figures

Creating Restricted Key Figures

Creating Calculated Key Figures

Creating Calculated Key Figures with Boolean Operators

Creating Calculated Key Figures with Exception Aggregation

Structures in Queries

Creating Structures

Resolving Formula Collision and Working with Cells

Duration

5 days

Course announcements

Please register for BW405 as the course to provide an overview of query design for both SAP BW powered by SAP HANA and SAP BW/4HANA. In BW405 you will gain the knowledge to create query definitions using the eclipse-based BW Query Designer in SAP HANA Studio (used with BW powered by SAP HANA) and to make them available for analysis.

Goals

This course will prepare you to:

Provide students with an overview of SAP BW powered by SAP HANA

Provide knowledge to create query definitions using BW Query Designer and to make them available for analysis

Audience

Application Consultant

Business Analyst

Business Process Owner / Team Lead / Power User

Data Consultant / Manager

Program / Project Manager

Technology Consultant

User

Essential

None.

Course based on software release

SAP BW 7.5 on SAP HANA
• Characteristics, Attributes, and External Hierarchies in Queries
• Configuring the Properties of Characteristics
• Creating a Query and Running Display and Navigation Attributes
• Creating Queries and Including External Hierarchies
• Variables in Queries
• Explaining Variables
• Creating Characteristic Value and Text Variables
• Applying Business Content Variables
• Creating Characteristic Value Variables with a Replacement Path from a Query
• Creating Formula Variables
• Creating Hierarchy Variables and Hierarchy Node Variables
• Exceptions and Conditions in Queries
• Creating a Query and Including Exceptions
• Creating a Query and Including Conditions
• Report-Report Interface
• Applying the Report-Report Interface
• Query Performance Optimization
• Optimizing Query Performance
• Applying Performance Monitoring Tools
• Configuring Query Read Mode
• Describing the HANA-Optimized Analytic Manager
• Query Management
• Managing Query Objects
• Authorizations Overview
• Describing Authorizations
• Business Intelligence (BI) Products Consuming Queries
• Describing Business Intelligence Products Consuming Queries

Notes
• Courseware available as flipbook in Learning Hub
BW362 - SAP BW powered by SAP HANA

Duration
5 days

Course announcements
- This course enables experienced SAP BW users, modelers as well as administrators to run and work with SAP BW on SAP HANA. The highlight is on how to optimize an existing SAP BW architecture and leverage new data models and functions provided by SAP HANA. This course also provides the foundation to plan the further roadmap towards SAP BW/4HANA.

Goals
- Outlines advantages of the new SAP "In-Memory" database foundation for SAP BW.
- Explains HANA specific features as well as optimized existing and new data models or functions of SAP BW.
- Enables you to support a migration project to SAP BW on SAP HANA from application side.
- Introduces the SAP architecture framework of LSA++ and provides guidelines on how to adapt your existing one.
- Explains native HANA modeling and how both, HANA information views as well as BW InfoProviders can complement each other in so-called "mixed scenarios".
- Provides an overview on new SAP HANA-related data provisioning methods for SAP BW including HANA Smart Date Integration
- Gives an overview of SAP’s next generation Data Warehouse Solution SAP BW/4HANA and how to get there

Audience
- SAP BW application consultants
- Project team members implementing and maintaining SAP BW on SAP HANA.

Essential
- BW310

Hands-on experience in data modeling with SAP BW 7.x

Course based on software release
- SAP BW 7.5 SP04
- SAP HANA SPS12
- SAP HANA BW Modeling Tools 1.15
- SAP HANA Live Browser 1.0
- SAP BusinessObjects Analysis for MS Excel 2.2

Content
- Getting started
- SAP HANA Basics
- SAP BW Basics
- SAP HANA BW Modeling Tools
- SAP HANA Native Modeling
- SAP HANA Live
- SAP S/4HANA embedded Analytics
- Migration to SAP BW on HANA
- Migration Strategies and Tools
- SAP BW Migration Cockpit
- BW on HANA Data Management
- Multi-Temperature Data Management
- Optimizing BW Data Management based on Dynamic Tiering as well as Active/Non-Active Concept
- Optimizing BW Data Management based on Nearline-Storage
Optimization Areas in BW on HANA

HANA-Optimized Data Modeling: InfoCubes
HANA-Optimized Data Modeling: Advanced DataStore-Objects
HANA-Optimized Data Modeling: CompositeProviders
HANA-Optimized Data Modeling InfoObjects
HANA-Optimized Data Staging and Transformations
HANA-Optimized Analytic Manager
HANA-Optimized Analysis Processes
Modeling with SAP’s Reference Architecture LSA++

Review of Layered Scalable Architecture (LSA)
From LSA to LSA++: Streamline Core Layers
LSA++: Open Operational Data Store Layer based on Open ODS Views
LSA++: BW Workspaces
Hybrid Modeling in Mixed Scenarios
Generation of HANA-Views for BW Objects
Modeling Mixed Scenarios
HANA-Optimized BI Content
Use case for Mixed Scenarios: SAP BusinessObjects Predictive Analytics
Notes

- This course provides you a very sound foundation of new BW concepts and contains many references to additional documents and information sources.
- This course has a very strong focus on hands-on experience based on 33 exercises.
SAP HANA Studio
Data Warehousing Workbench
InfoObjects like Characteristics and Key Figures
Master Data Loading from SAP source system with Operational Data Provisioning
Generic DataSources
Transformation and Data Transfer Process
Difference between Classic and Graphical Data Flow Modeling
Modelling DataStore Object (Advanced)
Transactional Data Loading from SAP source system with Operational Data Provisioning
Data Loading from Flatfile
Modeling CompositeProviders
HANA Native Modeling with Calculation Views
Modelling Open ODS Views
Process Chains

Course announcements
The course focuses on the latest BW on HANA InfoProviders like Advanced DSO, Open ODS View and CompositeProvider. Data Extraction and Provisioning is demonstrated with the new Operational Data Provisioning Framework (ODP).

Goals
This course will prepare you to:
Work with Data Warehousing Workbench and SAP HANA Studio to set up different data models.

Audience
Application Consultant
Data Consultant / Manager
Database Administrator
Developer
Enterprise Architect
Solution Architect
System Architect
Technology Consultant

Essential
None

Course based on software release
SAP BW 7.5 on SAP HANA

Content
Introduction to SAP HANA Architecture
SAP Business Warehouse (BW)