BW305H
Query Design and Analysis with SAP Business Warehouse Powered by SAP HANA

COURSE OUTLINE

Course Version: 15
Course Duration: 5 Day(s)
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American English is the standard used in this handbook.
The following typographic conventions are also used.

<table>
<thead>
<tr>
<th>Typographic Convention</th>
<th>Example Text</th>
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</thead>
<tbody>
<tr>
<td>This information is displayed in the instructor’s presentation</td>
<td></td>
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<tr>
<td>Demonstration</td>
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<td>Procedure</td>
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<td>Warning or Caution</td>
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<td>Hint</td>
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<td>Related or Additional Information</td>
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<td>Facilitated Discussion</td>
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<td>User interface control</td>
<td>Example text</td>
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<td>Window title</td>
<td>Example text</td>
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## Course Overview

### Unit 1: Introduction to SAP HANA and SAP Business Warehouse (BW)

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### Unit 2: Report Launching and Navigation in Reports

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### Unit 3: Simple Queries

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### Unit 5: Structures in Queries

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### Unit 6: Characteristics, Attributes, and Hierarchies

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TARGET AUDIENCE
This course is intended for the following audiences:

- Application Consultant
- Business Analyst
- Business Process Owner/Team Lead/Power User
- Data Consultant/Manager
- Program/Project Manager
- Technology Consultant
- User
Lesson 1: Describing the Evolution and Data Layout of SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the evolution and data layout of SAP HANA

Lesson 2: Describing the Concepts of Business Intelligence (BI) and DataWarehousing on Any Database

Lesson Objectives
After completing this lesson, you will be able to:

• Describe BI and data warehousing on any database

Lesson 3: Outlining the Basics of SAP BW Powered by SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:

• Explain the basics of SAP BW powered by SAP HANA

Lesson 4: Setting Up SAP BW Modeling Tools in SAP HANA Studio

Lesson Objectives
After completing this lesson, you will be able to:

• Set up BW modeling tools in SAP HANA Studio
Lesson 1: Outlining SAP BusinessObjects BI Platform

Lesson Objectives
After completing this lesson, you will be able to:

- Outline SAP BusinessObjects BI Platform

Lesson 2: Navigating in SAP BusinessObjects Analysis, Edition for Microsoft Office

Lesson Objectives
After completing this lesson, you will be able to:

- Navigate in SAP BusinessObjects Analysis, edition for Microsoft Office

Lesson 3: Navigating in SAP BusinessObjects Design Studio Generic Application

Lesson Objectives
After completing this lesson, you will be able to:

- Navigate in SAP BusinessObjects Design Studio Generic Application
Lesson 1: Creating Simple Queries

Lesson Objectives
After completing this lesson, you will be able to:

- Create a simple query
Lesson 1: Configuring Properties of Key Figures
Lesson Objectives
After completing this lesson, you will be able to:
• Configure key figure properties

Lesson 2: Creating Restricted Key Figures
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with restricted key figures

Lesson 3: Creating Calculated Key Figures
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with calculated key figures

Lesson 4: Creating Calculated Key Figures with Boolean Operators
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with Boolean operators

Lesson 5: Creating Calculated Key Figures with Exception Aggregation
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with exception aggregation
Lesson 1: Creating Structures
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with two structures

Lesson 2: Resolving Formula Collision and Working with Cells
Lesson Objectives
After completing this lesson, you will be able to:
• Resolve formula collision and work with cells
Lesson 1: Configuring the Properties of Characteristics

Lesson Objectives
After completing this lesson, you will be able to:

- Create a query and configure the properties of characteristics

Lesson 2: Creating a Query and Running Display and Navigation Attributes

Lesson Objectives
After completing this lesson, you will be able to:

- Create a query and run display and navigation attributes

Lesson 3: Adding Hierarchies to Reports

Lesson Objectives
After completing this lesson, you will be able to:

- Create a query and include an external hierarchy
Lesson 1: Explaining Variables
Lesson Objectives
After completing this lesson, you will be able to:
• Explain variables

Lesson 2: Creating Characteristic Value and Text Variables
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with characteristic value variables and text variables

Lesson 3: Applying Business Content Variables
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with business content variables and variable offset

Lesson 4: Creating Characteristic Value Variables with a Replacement Path from a Query
Lesson Objectives
After completing this lesson, you will be able to:
• Create characteristic value variables with a replacement path from a query

Lesson 5: Creating Formula Variables
Lesson Objectives
After completing this lesson, you will be able to:
• Create a query with a formula variable

Lesson 6: Creating Hierarchy Variables and Hierarchy Node Variables
Lesson Objectives
After completing this lesson, you will be able to:

- Create a query with hierarchy variables and hierarchy node variables
Lesson 1: Creating a Query and Including Exceptions

Lesson Objectives
After completing this lesson, you will be able to:

• Create a query and include exceptions

Lesson 2: Creating a Query and Including Conditions

Lesson Objectives
After completing this lesson, you will be able to:

• Create a query and include conditions
Lesson 1: Applying the Report-Report Interface

Lesson Objectives
After completing this lesson, you will be able to:

- Apply the report-report interface
Lesson 1: Optimizing Query Performance
Lesson Objectives
After completing this lesson, you will be able to:
- Describe query performance optimization

Lesson 2: Applying Performance Monitoring Tools
Lesson Objectives
After completing this lesson, you will be able to:
- Explain how to apply performance monitoring tools

Lesson 3: Configuring Query Read Mode
Lesson Objectives
After completing this lesson, you will be able to:
- Describe how to configure query read mode

Lesson 4: Describing the HANA-Optimized Analytic Manager
Lesson Objectives
After completing this lesson, you will be able to:
- Describe the HANA-Optimized Analytic Manager
Lesson 1: Managing Query Objects

Lesson Objectives
After completing this lesson, you will be able to:

- Manage query objects
Lesson 1: Describing Authorizations

Lesson Objectives
After completing this lesson, you will be able to:

- Describe authorizations
Lesson 1: Describing Business Intelligence Products Consuming Queries

Lesson Objectives
After completing this lesson, you will be able to:

- Describe BI products consuming queries