

BOID10

SAP BusinessObjects Information Design Tool

COURSE OUTLINE

Course Version: 18

Course Duration:

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Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Application Consultant
- Data Consultant
- Project Manager

Lesson 1: Describing Universes

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Universes

Lesson 2: Working with Local Projects

Lesson Objectives

After completing this lesson, you will be able to:

- Identify local projects

Lesson 1: Defining Connections

Lesson Objectives

After completing this lesson, you will be able to:

- Define Data Connections

Lesson 1: Creating Data Foundations

Lesson Objectives

After completing this lesson, you will be able to:

- Create data foundations
- Define Data Foundations
- Explore the *Data Foundation Editor*
- Navigate the *Data Foundation View*
- Define and Use Data Foundation Families

Lesson 2: Using Joins

Lesson Objectives

After completing this lesson, you will be able to:

- Use Joins
- Create an Equi-Join
- Create an Outer Join
- Create a Theta Join
- Create a Column Filter

Lesson 1: Accessing Data through the Business Layer

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Business Layer

Lesson 2: Integrating the Business Layer Components

Lesson Objectives

After completing this lesson, you will be able to:

- Create Business Layer Folders
- Create Business Layer Dimension Objects
- Create Time Dimension Objects
- Create Attribute Objects

Lesson 3: Validating Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Check Integrity
- Test Business Layer Objects

Lesson 4: Creating Measure Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Create Measure Objects
- Create a Delegated Measure Object

Lesson 1: Using Shared Projects

Lesson Objectives

After completing this lesson, you will be able to:

- Describe a Shared Project

Lesson 2: Manipulating Other Designers' Resources

Lesson Objectives

After completing this lesson, you will be able to:

- Synchronize a Shared Project
- Update Shared Projects

Lesson 1: Deploying a Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Document Universe Resources
- Deploy a Universe

Lesson 1: Creating Loops on the Data Foundation

Lesson Objectives

After completing this lesson, you will be able to:

- Identify loops
- Explain the problem of loops
- Detect Loops

Lesson 2: Resolving Loops Using Aliases

Lesson Objectives

After completing this lesson, you will be able to:

- Use alias tables to resolve loops

Lesson 3: Resolving Recursive Loops

Lesson Objectives

After completing this lesson, you will be able to:

- Identify and resolve a recursive loop

Lesson 4: Resolving Loops Using Contexts

Lesson Objectives

After completing this lesson, you will be able to:

- Define Context

Lesson 1: Defining Data Restrictions

Lesson Objectives

After completing this lesson, you will be able to:

- Define data restrictions

Lesson 2: Applying Mandatory Data Restrictions

Lesson Objectives

After completing this lesson, you will be able to:

- Explain different methods of creating mandatory data restrictions

Lesson 3: Applying Optional Data Restrictions

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the *Predefined Query Filter* object

Lesson 1: Defining a List of Values

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss the Purpose of a List of Values

Lesson 2: Associating a List of Values to a Business Layer Object

Lesson Objectives

After completing this lesson, you will be able to:

- Associate a List of Values to a business layer.

Lesson 1: Creating and Using Parameters

Lesson Objectives

After completing this lesson, you will be able to:

- Use Parameters in Data Restrictions

Lesson 1: Defining and Creating Navigation Paths

Lesson Objectives

After completing this lesson, you will be able to:

- Define and Create a Navigation Path

Lesson 1: Defining SQL Traps

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze SQL traps

Lesson 2: Identifying a Chasm Trap

Lesson Objectives

After completing this lesson, you will be able to:

- Identify a Chasm Trap

Lesson 3: Resolving a Chasm Trap

Lesson Objectives

After completing this lesson, you will be able to:

- Resolve a Chasm Trap

Lesson 4: Identifying a Fan Trap

Lesson Objectives

After completing this lesson, you will be able to:

- Identify a Fan Trap

Lesson 5: Resolving a Fan Trap

Lesson Objectives

After completing this lesson, you will be able to:

- Resolve a Fan Trap

Lesson 1: Using @ Functions in SQL

Lesson Objectives

After completing this lesson, you will be able to:

- Define @Functions

Lesson 2: Using the @Aggregate_Aware Function

Lesson Objectives

After completing this lesson, you will be able to:

- Use the @Aggregate_Aware Function
- Use the @Aggregate_Aware Function in a 2-Table Fan Trap

Lesson 3: Using the @Select Function

Lesson Objectives

After completing this lesson, you will be able to:

- Use the @Select Function

Lesson 4: Using the @Where Function

Lesson Objectives

After completing this lesson, you will be able to:

- Use the @Where Function

Lesson 5: Using the @Execute Function

Lesson Objectives

After completing this lesson, you will be able to:

- Use the @Execute Function

Lesson 6: Using the @Variable Function

Lesson Objectives

After completing this lesson, you will be able to:

- Use the @Variable Function

Lesson 1: Creating and Using Derived Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Create and Use Derived Tables

Lesson 2: Creating and Using Calculated Columns

Lesson Objectives

After completing this lesson, you will be able to:

- Create and Use Calculated Columns

Lesson 1: Optimizing Universes

Lesson Objectives

After completing this lesson, you will be able to:

- Optimize Via Connection Parameters
- Optimize Via Shortcut Joins
- Optimize Via Key Awareness
- Optimize Via Query Script Parameters
- Explore Best Practices for Universe Design

Lesson 1: Managing the Data Foundation Using Views

Lesson Objectives

After completing this lesson, you will be able to:

- Explain Data Foundation Views

Lesson 2: Managing the Business Layer Using Views

Lesson Objectives

After completing this lesson, you will be able to:

- Explain Business Layer Views

Lesson 1: Securing a Deployed Universe with Security Profiles

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Universe Security Options

Lesson 2: Creating and Assigning Universe Security Profiles

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Data Security Profile
- Create a Business Security Profile
- Assign and Test Security Profiles

Lesson 3: Identifying the Priority of Security Settings

Lesson Objectives

After completing this lesson, you will be able to:

- Describe Security Setting Priorities

Lesson 4: Updating a Deployed Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Update a Deployed Universe

Lesson 1: Resolving an Ambiguous Outer Join Using @AggregateAware

Lesson Objectives

After completing this lesson, you will be able to:

- Resolve an Ambiguous Outer Join

Lesson 1: Identifying Different Data Sources

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Different Data Sources for Universes

Lesson 2: Creating an OLAP Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Universe Using an OLAP Data Source

Lesson 3: Creating a Universe from a BW Query

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Universe from a BW Query

Lesson 4: Creating a Multisource Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Multisource Universe

Lesson 5: Optional: Creating and Using Federated Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Create and Use a Federated Table

Lesson 1: Defining and Creating a Linked Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Define and Create a Linked Universe

Lesson 2: Special Considerations Concerning Linked Universes

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Considerations Unique to Linked Universes

Lesson 3: Managing Core Universes

Lesson Objectives

After completing this lesson, you will be able to:

- Manage Core Universes

Lesson 4: Prioritizing the Display of Tables Common to Multiple Core Data Foundations

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Common Table Priority

Lesson 5: Including a Core Universe

Lesson Objectives

After completing this lesson, you will be able to:

- Discuss Including A Core Universe

Lesson 1: Converting Existing .unv Universes

Lesson Objectives

After completing this lesson, you will be able to:

- Convert Existing .unv Universes

Lesson 1: Introducing Sets

Lesson Objectives

After completing this lesson, you will be able to:

- Explain Sets
- Create a Static Set
- Create a Temporal Set

Lesson 1: Using SQL to Manipulate Data

Lesson Objectives

After completing this lesson, you will be able to:

- Use SQL to Manipulate Data