



Over 30,000 users trained by experienced SAP® BusinessObjects™ consultants.

"I appreciate the fact that we were able to easily deviate from the book when possible to cover more interesting & advanced topics. [Instructor] is very knowledgeable and honest about BO XI capabilities. Thanks."
- **John F, FedEx**

"[Instructor] is very knowledgeable in this subject and is able to communicate information in an easy, understandable manner. I look forward to doing the advanced class..."
- **Kimberley G, Rogers Wireless**

"This instructor gets a 10 out of 10. He is brilliant and has the expertise and teaching methodology that makes this type of course fun and educational. Highly recommend for future courses!!! OUTSTANDING!!!!!!!!!!!!"
- **Attendee, Burger King Corporation**

Course Description

This course is designed to provide the skills needed to create and maintain SAP Business Objects Universes. The course is focused on technical users to teach how to design universes that are efficient as well as user friendly for report creators. Students are also taught how to maintain and distribute the universes. The course provides a comprehensive coverage of universe development process and techniques, allowing developers to understand the issues that they may encounter in a real world scenario and how to tackle these problems.

Audience

This course is targeted for technical users that need to create and distribute SAP Business Objects universes for their SAP Business Objects deployments.

Objectives

After completing the course, students will be able to create effective and efficient universes for their SAP Business Objects users. Students will learn techniques such as creating connections, adding tables and joins, resolving loops, creating pre-defined conditions, distributing and maintaining universes and much more. Students will also be able to create advanced universes and understand techniques such as Multisource Universes, Multilingual Universes, OLAP Universes, SQL Traps, Advanced uses of @Aggregate_Aware function, Universe Parameters and more. The course provides extensive hands on workshops in order to reinforce topics taught.

Duration - 5 Days

Version - 4.x

Prerequisites

Knowledge of report development with Web Intelligence is recommended. Also, working knowledge of databases and SQL is required.



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Topics Covered

Overview

- What are Universes
- Data Sources
- Universe Components
- The Universe development process
- Converting .UNV to .UNX

Getting Started

- Starting a Project
- Defining the connection
- Connection types
- Other Connection Parameters

Creating the Data Foundation

- Selecting the Connection
- Adding Tables to the Universe Structure
- Join Types
- Inserting/Modifying/Deleting Joins

Creating the Business Layer

- Managing Folders and Sub-Folders
- Managing Dimension Objects
- Managing Attribute Objects

Measure Objects

- Understanding Measure Objects
- Creating Measure Objects

- Object Aggregation
- Delegated Measures

Loops

- Resolving Loops
- Creating and Managing Alias
- Creating and Managing Universe Contexts

Restricting Data

- Creating/Editing and Deleting Pre-defined Conditions
- Using Object Where Clause
- Self-Restricting Joins
- Other data restriction techniques

List of Values & Parameters

- Understanding LOVs
- Modifying LOVs
- Creating Hierarchical List Of Values
- Understanding Parameters
- Creating and Using Parameters

Creating Navigation Paths

- Understanding Navigation Paths
- Creating and Using Navigation Paths



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Topics Covered

@Functions

- What are @Functions
- @Prompt
- @Select
- @Where
- @Variable

Derived Tables & Index Awareness

- What are Derived Tables
- Creating Derived Tables
- Understanding Index Awareness
- Using Index Awareness

Maintenance and Deployment

- Universe Deployment
- Documenting Universes
- Understanding Restrictions
- Add/Change/Delete Restrictions
- Apply Restrictions to Users and Groups

Aggregate Awareness

- Understanding Aggregate Awareness
- The @Aggregate_Aware function
- Implementing Aggregate Awareness

SQL Traps

- What are SQL Traps
- Understanding and Resolving Chasm Traps
- Understanding and Resolving Fan Traps

Advanced use of @Aggregate_Aware Function

- Implementing Dynamic Outer Joins using the @Aggregate_Aware function.
- User Selectable Outer Joins

Advanced Join Techniques

- Using Joins for Relative Date Objects
- Dynamic Time Period Measures From Date Dimension Tables

Creating Universes from Different Data Sources

- Multisource Universes
- OLAP Universes



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Topics Covered

Managing Universes

- Managing Multiple Business Layers
- Managing Multiple Data Foundation Views
- Data Foundation Families
- Using Shared Projects

Managing Universes

- What are Advanced Objects
- Using Numeric Functions
- Using String Functions
- Using Datetime Functions
- Using System Functions
- Using CASE Statements
- Relative Date Objects

Universe SQL Parameters

- Begin SQL
- End SQL
- Join By SQL
- ANSI92
- Filter In From

For More Information



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