

Training Content

# Business Analytics Data Modeling BA3000



## Overview

Pentaho Business Analytics Data Modeling training provides an overview of the Schema Workbench and the MetaData Editor. The hands-on exercises help the participants understand the tool quickly and is able to create cubes using Pentaho Schema Workbench and Metadata models using the MetaData Editor.

## After the course

Once the course is complete, you will be able to achieve the following:

- Understand the dimensional modeling concepts.
- Create different reporting models.
- Create Cubes using Schema Workbench and publish them on the Pentaho BA Server.
- Create Metadata models using MetaData Editor and publish them on the Pentaho BA Server.

## Pre-requisites

The participants should have the basic knowledge on the Linux/Windows system as the training may require them to do some basic operations. They need not have the understanding of Business Intelligence or Data Warehouse. The understanding of any of the Relational Databases and dimensional modeling will be an added advantage.

You may also need to bring a Windows/Linux Laptop, minimum with the following configuration:

1. At least 2 GB RAM on the laptop.
2. At least 1 GB of space on Hard Drive.
3. 1.4 GHz CPU or above.
4. DVD drive
5. USB port
6. SUN JAVA 1.6 or above.
7. MySql 5.x/PostgreSQL 8.x or above

Topic	Hours
<b>Day 1</b>	
<p><b>MODULE 1: CREATING REPORTING DATA SOURCES WITH METADATA EDITOR</b>  <b>Lesson 1: Creating Metadata Domains with Metadata Editor</b>  <b>Lesson 2: Using Metadata Concepts</b></p> <p><b>MODULE 2: OLAP/ROLAP AND DIMENSIONAL MODELING</b>  Lesson 1: Introduction to OLAP and ROLAP  Lesson 2: Dimensional Modeling: Cubes and Stars  Lesson 3: Introduction to Mondrian</p> <p><b>MODULE 3: CREATING ANALYSIS DATA SOURCES WITH SCHEMA WORKBENCH, PART 1</b>  Lesson 1: Introduction to Schema Workbench  Lesson 2: Creating a Basic Cube  Exercise 3-1: Create a Basic Cube</p>	8
<b>Day 2 - USING SCHEMA WORKBENCH</b>	
<p><b>MODULE 4: CREATING ANALYSIS DATA SOURCES WITH SCHEMA WORKBENCH, PART 2</b>  Lesson 1: Creating a Star Schema  Exercise 4-1: Create a Star Schema  Lesson 2: Creating Calculated Members  Exercise 4-2: Create a Calculated Member  Lesson 3: Access Control with Schema Workbench  Lesson 4: Using Aggregate Tables in Schema Workbench</p> <p><b>MODULE 5: USING THE DATA SOURCE WIZARD TO BUILD DATA MODELS</b>  Lesson 1: Using the Data Source Wizard to Build Data Models  Exercise 5-1: Use the Data Source Wizard to Build Data Models  Exercise 5-2: Use Metadata Editor and Schema Workbench to Edit Data Models</p>	8