

Implementing Data Warehousing AND ODS

Course Summary

Description

This practical course provides you with an in-depth understanding of data warehousing and operational data stores (ODS) application to business intelligence. You will learn the concepts and skills necessary to build these structures to enable your business intelligence program on the first implementation. In addition, the course covers how the business intelligence arena is changing the way companies do business including, how the data warehouse provides corporations with the backbone to their e-business solutions and is critical for making better strategic decisions. Real-world case studies of business intelligence and data warehousing implementations will be used to leverage the lessons learned on these projects.

Through team interaction, attendees will be provided with a full lifecycle strategy and methodology for defining system requirements, capturing and integrating source data, meta data repository fundamentals, accessing the information in the data warehouse and ODS.

Objectives

At the end of this course, students will be able to:

- Cost justify and build a business intelligence system using data warehouse technology for a competitive advantage in the marketplace.
- Understand how to manage risk and anticipate the stumbling blocks before they occur.
- Organize and manage their teams.
- How to create accurate project plans.
- Learn to define requirements that prevent scope creep.
- How to build an architecture that is extendible, robust, and flexible over time.
- Identify the key business data necessary to store in the physical data models in order for the data warehouse to provide value to its end users.
- Design attainable requirements for the data warehouse.
- Understand how to create e-business solutions that deliver value.

Topics

- Understanding data warehousing
- Challenges in the data warehouse industry
- How to implement a data warehouse/ODS
- The data warehouse team
- Understanding the key business intelligence vendors
- Understand the trends in business intelligence
- Workshop conclusion

Audience

This course is designed for CIO's, executive management, project managers, decision support system architects, database designers/data architects, lead designers and business analysts.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

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Course Outline

I. Understanding data warehousing

- A. Analyze the current state of the data warehousing industry
- B. Data warehousing fundamentals
- C. ODS fundamentals
- D. Defining meta data and its critical role in data warehousing and ODS

II. Challenges in the data warehouse industry

- A. Selling the concept of building a data warehouse to management (ROI)
- B. Cutting through the vendor hype

III. How to implement a data warehouse/ODS

- A. Keys to a sound ODS architecture
- B. Defining system requirements
- C. Integrating legacy system sources
- D. Accessing data warehouse
- E. Approaches to data warehouse development
- F. Data model walkthrough (3rd normal form and dimensional)

IV. The data warehouse team

- A. Creating the data warehouse team
- B. Data warehouse team role walkthroughs
- C. Creating the data warehouse project plan
- D. Data warehouse ROI definition
- E. Constructing the data warehouse scope document
- F. Create a data integration strategy for your company

V. Understanding the key business intelligence vendors

- A. Evaluating data warehousing tools, including ETL (extract, transform, & load), OLAP (online analytical processing), and portals
- B. Real-world analysis of tool vendors

VI. Understand the trends in business intelligence

- A. Data warehousing changing landscape
- B. Meta data
- C. XML

VII. Workshop conclusion

- A. Summary, additional exercises, sources for further reading, etc.