

Data & Reporting Architecture Overview:

A Framework for Understanding What, Where, Why & How for Data & Reports



TRAINING

Duration

1 day

Instructor

Wayne Little

Class Limit

20 students

Prerequisite

None

Price

On-site

Please contact SPC for pricing (contact information on page 2)

Public Training

\$595 (1 day)

*Discount available for early registration

Materials Provided

- Student manual containing the course slides
- Student handouts with class exercises

Operational vs. Analytical Reports? Relational or Dimensional Data Models? Operational Data Stores, Data Marts and Data Warehouses?

How are they different and why does it matter?

This one-day workshop answers these questions and provides a conceptual framework to understand where to place different types of data and reporting and why.

Objectives:

On workshop completion, participants will be able to:

- Describe the major system components of a reporting architecture
- Understand the type of data that is stored in each and why
- Understand the key differences in relational and dimensional modeling
- Understand the trade offs that need to be considered in reporting architecture and applications
- Contribute to discussions on necessary roles and role definitions for reporting
- Understand the types of reports that are commonly used
- Categorize potential report customers and match them to appropriate reporting tools &/or reports
- Walk away with a practical template for reporting requirements

Intended Audience

This workshop is ideally suited to business and data analysts and application developers responsible for the analysis and design of any component of reporting applications, including the database, application logic, or the user interface. Business professionals and managers needing an introduction to enterprise information and reporting architecture will also find the content useful.

Prerequisites

An understanding of information systems concepts or equivalent experience. Some exposure to database concepts, relational data modeling and/or reporting systems is beneficial but not essential.

Data & Reporting Architecture Overview:

A Framework for Understanding What, Where, Why & How for Data & Reports

Instructor

Wayne Little is an independent consultant and owner of Lit Data Solutions, based in Portland, Oregon. Wayne began his IS career as a software developer in 1981, wandered into a large database development project in the early 90s and has been hooked on data related pursuits ever since. Over the last several years, Wayne has provided data architecture consulting services at a number of companies in the greater Portland area including significant projects at Intel, Flight Dynamics, Egghead, Vector Supply Chain Management, Banfield Pet Hospital, Menlo Worldwide Logistics, Freightliner and Les Schwab. Wayne enjoys making complex things simple and stealthily inserting understanding, fun and process improvement to the focused data solutions he helps facilitate.

Wayne also teaches database courses for University of Phoenix. Through a career of almost 30 years, he has worked in many roles including analysis and design, programming, data architecture, data base administration, system management, consulting and education. He has been data modeling and working with data base systems since 1991.

For more information on this or other SPC Springboard courses, please visit www.spcspringboard.com or e-mail SPC at info@spc.ca

Software Productivity Center Inc.
Suite 460 - 1122 Mainland Street
Vancouver, BC V6B 5L1

Vancouver: 604.662.8181 Toll Free: 1.877.548.1948

Fax: 604.689.0141

Outline

- A Relational Modeling Refresher (quick overview)
- Operational Systems (starting with the familiar)
- B-Tree Indexes (The indexes operational systems know and love)
- Introduction to Compare and Contrast the major systems of a reporting architecture
 - Operational Systems
 - Operational Data Store (ODS)
 - Data Warehouse (DW)
 - Data Marts
- An introduction to Dimensional Modeling
- A compare and contrast of Relational vs. Dimensional Modeling
- An introduction to Bitmap Indexes.
- A compare and contract of B-Tree and Bitmap Indexes
 - Their suitability to operational and analytical systems
- A compare and contrast of the two major Data Warehouse Camps – Kimball & Inmon
- Case study – When Two Worlds Collide
- Practical Considerations for Reporting Success:
 - Practical performance thoughts
 - The push for speed – strategies for dealing with “I need it now”
 - Name that user – end customer considerations and classes
 - The right reports
 - The right roles
 - The data model as Rosetta Stone – the centerpiece of development strategy
- Wrap-up – summary, tips, and resources



TRAINING

