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Data Warehouse Lifecycle in Depth

Altis Consulting is excited to announce our next Kimball University course being delivered in Australia by the Kimball Group teachers. Data Warehouse Lifecycle in Depth (DWLD) is scheduled for October 27-30 in Melbourne, Australia.

Why Attend

The data warehouse/business intelligence (DW/BI) system continues to be one of the most organizationally complex and technically interesting IT projects. This course prepares you to successfully implement your DW/BI environment.

Taught by Margy Ross and Warren Thornthwaite, co-authors of the best selling Data Warehouse Lifecycle Toolkit, this course is packed with specific techniques, guidance and advice from initial project planning through deployment and maintenance.

See <http://www.kimballgroup.com/html/about.html> for teacher profiles.

Who Should Attend

Kimball University have designed this course to appeal to all major roles on a data warehouse project, from project managers to DBAs to data modelers to application developers. It's for anyone new to data warehousing who wants to learn how to do it, or who has been through a project or two and wants to learn how to do it right.

- Day 1
 - Introduction to the Business Dimensional Lifecycle
 - Project Planning and Management
 - Business Requirements Definition
 - Dimensional Modeling
- Day 2
 - Dimensional Modeling continued
 - Mature Data Warehouse Considerations
- Day 3
 - Technical Architecture Design
 - ETL Process
- Day 4
 - ETL Process continued
 - Physical Configuration Options
 - Product Selection Process
 - Physical Database Design
 - Analytic Applications
 - Deployment
 - Maintenance and Growth

Sydney

Canberra

Melbourne

Auckland

Wellington

Course Details

COURSE

Data Warehouse Lifecycle in Depth

LOCATION

Rydges on Swanston
Melbourne

WHEN

27-30 October, 2008

INFORMATION

Email training@altis.com.au
for more information.

REGISTRATION

www.altis.com.au/education/kimballform2.php

Registration opens 19 May 2008.

PRICE*

- Full Rate: AU\$3700
- Early Bird**: AU\$3500
- Group Rate^: \$AU3500

* All prices above are exclusive of GST

** Early bird rate available until 5pm, 27 Jun 2008

^ 5 or more students from the same organisation

Day 1

Introduction to the Business Dimensional Lifecycle

- Roadmap for the DW/BI project

Project Planning and Management

- Readiness and risk assessment
- Scoping prioritization and justification
- Data warehouse project team roles and responsibilities
- Project plan development and maintenance

Business Requirements Definition

- Program versus project requirement considerations
- Preparation for requirements gathering
- Techniques for eliciting business requirements
- Requirements gathering ground rules and obstacles
- Requirements deliverables

Dimensional Modeling

- Fundamentals:
 - Role of dimensional modeling in Kimball versus Corporate Information Factory architectures
 - Relational fact and dimension characteristics
- "Basics" case study
 - 4-step design process
 - Denormalized dimension table hierarchies
 - Degenerate dimensions
 - Surrogate key recommendations
 - Star versus snowflake schemas
 - Factless fact tables
- "Beyond the 1st business process" case study
 - Value chain implications
 - Conformed dimensions
 - Semi-additive facts
 - Data Warehouse Bus Architecture and matrix to integrate dimensional models
 - Exercise: Translate requirements into bus matrix
- Slowly changing dimensions
 - Types 1, 2, 3 and advanced hybrid approaches
- "Transaction detail" case study
 - Dimension table role playing
 - Header vs. line item detail considerations
 - Multiple currencies
 - Junk dimensions
 - Communicating dimensional models to users
- Workshop #1 small group design exercise

Day 2

Dimensional Modeling continued

- Wrap-up Workshop #1 and review
- "Customer-centric" case study
 - Heterogeneous products
 - Large dimension table design considerations
 - Multi-valued dimension attributes
- "Design review" exercise
 - Common design flaws
- "Design enhancement" exercise
 - Design considerations when extending/embellishing an existing design
- "Converting entity-relationship model" case study
- Workshop #2 small group design exercise
 - Transaction versus snapshot fact tables
 - Accumulating snapshot fact tables

Mature Data Warehouse Considerations

- Common problems with established DW/BI environments such as Sponsorship, acceptance, data, and infrastructure.

Day 3

Technical Architecture Design

- Key architecture components and services
- Backroom and staging considerations
- Ad hoc, standard reporting and data mining
- Metadata repository
- Presentation architectures: OLAP, ROLAP, MOLAP, HOLAP
- 8-step approach for architecture development
- Exercise: Translating requirements into architecture implications

ETL Process

- Planning
 - Data profiling
 - High-level and detailed ETL schematics
 - Quality assurance and data validation system
 - Warehouse operations system
- ETL workflow
 - Extract to create, filter and transfer source data
 - Cleaning and conforming dimensions and facts
 - Exercise: Processing slowing changing dimensions type 2
 - Preparing and delivering dimensions and facts
 - Dealing with data quality issues
- Aggregate management
- Load cycle management
- "High-level ETL schematic" case study exercise

Day 4

ETL Process continued

- "High-level ETL schematic" case study and review
- Specialized data staging activities (data mining sets, data integration and master data management)

Physical Configuration Options

- Independent data marts, Enterprise data warehouse, and the Conformed data warehouse
- Operational data stores
- Infrastructure considerations

Product Selection Process

- Architecture-based evaluation approach and matrices

Physical Database Design

- Standards and naming conventions
- Physical model development
- Aggregation, indexing and storage plans
- Usage monitoring
- Security

Analytic Applications

- Role of analytic applications
- Application templates
- Navigation design and development
- Application rollout

Deployment

- Alpha, beta, rollout release process
- Training and support
- Documentation and the Web

Maintenance and Growth

- On-going user, data and system maintenance
- Planning for growth



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