

Course 201. 3 days

Data Warehouse Lifecycle

Course benefits

The data warehouse continues to be one of the most organisationally complex and technically interesting projects in Information Technology and we believe the market today requires professionals to be multi talented and strategically positioned for the growth in Data warehousing and Dimensional Modelling currently happening in corporations. This course will prepare you for the implementation of a successful data warehouse.

Who should attend?

This course is valuable for all those involved in major roles on a data warehouse project, from project managers to DBAs to data modellers to application developers. It is also ideal for IT professionals from various backgrounds including Information technology, who plan to cross train into Data warehousing and Dimensional modelling to enhance their careers.

Course content

Data Warehousing Framework

- Concepts and definitions

Project Planning

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

Dimensional Modelling

- Definition of dimensional modelling
- Definition of Fact and dimension tables
- 4-step process for designing dimensional models
- De-normalizing dimension hierarchies
- Surrogate keys
- Factless fact tables
- Degenerate dimensions
- Conforming dimensions
- Slowing changing dimension techniques
- Types of Fact tables
- Large dimension design considerations
- Multi-valued dimension attributes

Product Selection

- Techniques

Deployment

- Speeding up the load cycle
- Integrating data from multiple sources
- Data quality and data cleansing
- User Education

Technical Architecture

- Overview of Technical Architecture
- Architecture & Infrastructure
- Planning for growth
- Common Components and Services
- Staging area considerations
- Data warehouse user types

Metadata Management

- Sources and management of metadata

Design and Development

- Operational Data Store (ODS)
- Data management
- Basic extract, transformation and load techniques
- Surrogate key creation and maintenance
- Fact table extract issues
- Building aggregates

On-going Maintenance

- Training and support approaches
- User support
- Documentation and the web
- On-going system maintenance