

| Training Title | |
|---|--|
| Data Warehouse Architecture and Principles | |
| 19.6.2008 - 20.6.2008 | |
| Target Group | <ul style="list-style-type: none"> Warehouse architects, Warehouse analysts, Warehouse advisors, Warehouse consultants, IT Managers, Senior consultants and project managers involved in data warehousing projects Analysts and advisors who want to learn the concepts associated with the architecture and planning of a data warehouse. |
| Duration | 1 – 2 day(s) |
| Pre-requisites | Knowledge of entity-relationship diagramming and designing applications and data is recommended before attending this course. The attendees should have: <ul style="list-style-type: none"> - the ability to read entity-relationship diagrams - knowledge of applications and data design principles |
| Objectives | <p>The course provides an insight into the high-level concepts of data warehouse architecture. It focuses on the following key areas:</p> <ul style="list-style-type: none"> - creating a logical design for an enterprise data warehouse; - creating a logical design for data marts in an integrated information architecture; - planning a data warehouse architecture; planning for iterative design and build using the rapid warehousing methodology; - and preparing for detailed design. <p>Next, the course introduces the high-level concepts associated with the architecture and planning of a data warehouse. Upon completion, you will be familiar with basic designs in an integrated information architecture for the enterprise storage layer of a data warehouse, data marts, data mining data marts, ETL processes, metadata management, and archival and backup of data.</p> <p>Course also discusses the strategic value of data warehousing initiative in organizations. It describes the impact on organizations' internal and business processes and also demonstrates how data warehouse might gather competitive advantage for organization.</p> |
| Content | <p>Introduction</p> <ul style="list-style-type: none"> - basic terms and concepts - why do we build data warehouses - approaches to building a DW <p>Architecture and Design</p> <ul style="list-style-type: none"> - Initial Planning – Requirements gathering - Concepts behind: <ul style="list-style-type: none"> § Subject Models § Logical Models § Physical Models |

- DW ETL processes
 - § Definitions & concepts
- Security considerations
- Metadata planning and use
 - § Definition of metadata
 - § Utilization
 - § Why are metadata important
- Data Marts from the Enterprise DW
- Optimization and Scalability
- Management processes - backup, archive etc.
- Infrastructure
- Concepts of Data Historization

DW in Corporate Environments

- What kind of internal or business processes are affected by DW implementation
- What kind of new processes must be established in order to support DW initiative in organization
- How can DW support corporate business processes
- DW strategic value in organizations