

Data Management, Security and Warehousing

DAY 1

Agile Enterprise Data Warehousing

- Agile Manifesto
- The Scrum Method
- Extreme Programming Approach
- Lean Software Development
- Sources for Data Warehousing Standards

DAY 2

Data Security Strategies

- How to determine if you can trust your data?
- ISO Standard ISO/IEC 17728
- EU General Data Protection Regulation (GDPR)
- Protecting the Data Warehouse
- The Lifecycle of a Dataset

DAY 3

Data Warehouse: The Building Blocks

- Data Defining Features
- Data Warehouses and Data Marts
- Data Warehouse Components Overview
- Dimensional Analysis of Data
- Requirements as the Driving Force for Data Warehousing

DAY 4

Data Warehouse: Architecture and Infrastructure Requirements for Data Warehousing

- Hardware and Operating Systems
- Database Software

- Automation of Warehousing Tasks
- Data Warehouse Architecture
 - Business Conceptual Model
 - Logical Data Model
 - Physical Data Model

DAY 5

Data Management, Security and Warehousing Implementation

- Data Extraction, Transformation, and Loading
- Data Design and Data Preparation-data Dimensional Modeling
- Key Elements of Data Quality
- Matching Information with the User
- On-Line Analytical Processing (OLAP)
- Big Data Processing in Cloud Environments