

Master, Reference & Quality Data Techniques

Day 1: Fundamentals of Master, Reference, and Quality Data

- Overview of Master Data, Reference Data, and Transactional Data
- Differences & Importance in Business Applications
- Master Data Management (MDM) vs. Reference Data Management (RDM)
- Introduction to Data Governance Frameworks
- Role of Data Stewardship & Data Ownership
- Regulatory Compliance: GDPR, CCPA, HIPAA

Day 2: Data Quality & Data Integration Techniques

- Data Quality Dimensions (Accuracy, Consistency, Completeness, Timeliness)
- Introduction to Data Profiling, Cleansing & Standardization
- Root Cause Analysis of Data Quality Issues
- Methods of Data Consolidation & Normalization
- Real-time vs. Batch Data Processing
- Standardization for Multi-Domain Data Models

Day 3: Advanced Master & Reference Data Management

- Creating and Maintaining Golden Records
- Data Enrichment & Hierarchy Management
- Data Lineage & Metadata Management
- Implementing Data Stewardship Models
- Managing Data Policies & Standards
- Role of AI & Machine Learning in Data Quality

Day 4: 360-Degree View & Data Quality Metrics

- Customer 360, Product 360, Supplier 360, and Employee 360
- Best practices for Cross-Domain Data Integration
- Case studies on Enterprise-Wide Data Management
- Defining KPIs for Data Quality & Master Data Success

- Data Quality Dashboards & Reporting Techniques
- Automating Data Quality Checks

Day 5: Real-World Implementation & Case Studies

- Data Governance Framework Implementation
- Selecting & Using MDM Tools (e.g., Informatica, IBM MDM, Talend, SAP MDG)
- Cloud-based vs. On-Premise Data Management
- Applying Data Quality & Governance in real-world scenarios
- Case study analysis & group discussions
- Common challenges & solutions in Data Quality Management