

Tableau Data Modelling & Performance- 8 Hours

Course description

This advanced, one-day workshop is designed for experienced Tableau developers who want to deepen their understanding of data modeling and significantly improve dashboard performance in complex enterprise environments. Participants will explore Tableau's advanced data modeling capabilities, including relationships, joins, and multi-fact data models, and learn how to choose the right modeling approach for different analytical scenarios.

The course places strong emphasis on performance optimization, covering live vs. extract connections, query execution behavior, Tableau Server resource usage, caching mechanisms, and performance recording analysis. Through practical examples and best practices, participants gain the tools needed to build scalable, secure, and high-performing Tableau solutions.

What Participants Gain?

- Designing advanced Tableau data models using relationships, joins, and multi-fact schemas
- Applying row-level security (RLS) in scalable, secure enterprise environments
- Analysing Tableau performance recordings to identify bottlenecks
- Optimizing query execution and dashboard performance
- Choosing between live vs. extract connections for performance and scalability
- Applying caching and server-level optimization techniques

Target Audience

- BI professionals & Data Analysts
- Tableau dashboard developers
- Professionals responsible for data visualization and dashboard UX
- Anyone looking to improve the visual storytelling of dashboards
- Consultants and entrepreneurs who want to design AI-driven solutions and guide clients through digital transformation.

Prerequisites

- Hands-on experience with Tableau Desktop
- Prior experience building dashboards and data models
- Familiarity with joins and basic data modeling concepts
- This course is intended for advanced users (not beginners)

Course Contents:

- Advanced Data Sources and Modelling
 - Relationships vs. joins
 - Multi-fact data sources
 - Live vs. extract connections
 - Cross-joins for advanced modelling
 - Row-Level Security (RLS) implementation
- Performance Recording and Analysis
 - Using performance recordings
 - Reading and analysing performance logs
 - Common performance bottlenecks
- Performance Optimization Techniques
 - Query performance factors
 - Dashboard-level optimization
 - Calculation complexity and its impact
 - Tableau Server resource utilization
 - Caching and acceleration mechanisms
 - Hidden factors affecting performance