

Snowflake + Databricks Combo Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The Snowflake and Databricks Combo Training by Multisoft Systems is designed to equip professionals with comprehensive expertise in modern data platforms, combining the power of cloud data warehousing and lakehouse architecture. This course enables learners to understand how organizations manage, process, and analyze large-scale data efficiently using two of the most in-demand technologies in the data ecosystem.

Module 1: Introduction to Modern Data Platforms

- ✓ Evolution of Data Warehousing and Big Data
- ✓ Overview of Snowflake and Databricks
- ✓ Understanding Data Lake vs Data Warehouse vs Lakehouse
- ✓ Cloud Ecosystem and Architecture Basics
- ✓ Use Cases and Industry Applications

Module 2: Snowflake Fundamentals

- ✓ Snowflake Architecture (Virtual Warehouses, Storage, Cloud Services)
- ✓ Account Setup and User Interface Overview
- ✓ Database, Schema, and Table Management
- ✓ Data Types and File Formats
- ✓ Data Loading Techniques (Bulk Load, Snowpipe)

Module 3: Snowflake Data Operations

- ✓ SQL Querying and Data Manipulation
- ✓ Performance Optimization and Query Tuning
- ✓ Data Sharing and Secure Data Exchange
- ✓ Time Travel and Data Cloning
- ✓ Security, Roles, and Access Control

Module 4: Databricks Fundamentals

- ✓ Introduction to Apache Spark
- ✓ Databricks Workspace and Cluster Management
- ✓ Notebooks and Collaborative Development
- ✓ DataFrames, RDDs, and Spark SQL Basics
- ✓ Working with Multiple Languages (Python, SQL)

Module 5: Data Engineering with Databricks

- ✓ Data Ingestion from Various Sources
- ✓ Data Transformation using Spark
- ✓ Building Scalable Data Pipelines
- ✓ Working with Delta Lake
- ✓ Handling Batch and Streaming Data

Module 6: Integration of Snowflake & Databricks

- ✓ Connecting Snowflake with Databricks
- ✓ Data Movement and Pipeline Integration
- ✓ ETL/ELT Design Patterns
- ✓ Real-Time Data Processing Use Cases
- ✓ End-to-End Data Workflow Design

Module 7: Advanced Analytics & Optimization

- ✓ Advanced Query Optimization Techniques
- ✓ Data Partitioning and Clustering
- ✓ Performance Tuning in Spark and Snowflake
- ✓ Monitoring and Troubleshooting
- ✓ Cost Optimization Strategies

Module 8: Security and Governance

- ✓ Data Security Best Practices
- ✓ Role-Based Access Control (RBAC)
- ✓ Data Governance and Compliance
- ✓ Encryption and Data Privacy
- ✓ Audit and Monitoring

Module 9: Real-Time Projects & Use Cases

- ✓ Building End-to-End Data Pipeline
- ✓ Data Warehousing + Lakehouse Integration Project
- ✓ Real-World Case Studies
- ✓ Industry Use Case Implementation
- ✓ Project Presentation and Evaluation