Snowflake for Business Intelligence Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Snowflake has emerged as a leading cloud-based data warehousing solution, empowering organizations to efficiently manage, analyze, and visualize large volumes of data in real-time. Snowflake for Business Intelligence Training Course provides a comprehensive, hands-on approach for professionals seeking to leverage Snowflake's powerful capabilities for business intelligence and analytics. Participants will gain practical knowledge of cloud data architecture, data modeling, and integration techniques essential for transforming raw data into actionable insights that drive strategic decisions.

This course is designed for data professionals, analysts, and business intelligence teams aiming to accelerate their expertise in cloud data platforms. By integrating real-world case studies and practical exercises, learners will understand how to optimize data pipelines, enhance reporting capabilities, and implement scalable BI solutions. With a focus on trending technologies, performance optimization, and advanced analytics, this training equips participants with skills essential for modern data-driven enterprises.

Programme Curriculum

Snowflake for Business Intelligence Training Course

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Course Objectives

1. Understand Snowflake architecture and cloud data warehousing fundamentals.
2. Implement efficient ETL processes using Snowflake for BI.
3. Optimize data storage and query performance in cloud environments.
4. Integrate Snowflake with leading BI tools for analytics and reporting.
5. Design and deploy scalable data models for business intelligence.
6. Apply advanced SQL and analytical functions in Snowflake.
7. Automate data pipelines for real-time insights and reporting.
8. Manage data security, governance, and compliance in Snowflake.
9. Perform data migration from legacy systems to Snowflake.
10. Monitor and troubleshoot performance issues in cloud data systems.
11. Explore data sharing and collaboration across multiple cloud platforms.
12. Leverage Snowflake for predictive analytics and trend analysis.
13. Gain practical experience through hands-on exercises and case studies.

Organizational Benefits

- Enhanced decision-making through real-time data insights.
- Streamlined data management and reduced infrastructure costs.
- Accelerated business intelligence deployment.
- Improved data governance and compliance.
- Scalable solutions supporting future business growth.
- Optimized performance for large-scale analytics workloads.
- Integration with multiple BI and visualization tools.
- Reduced dependency on legacy systems.
- Increased team productivity and technical expertise.
- Data-driven strategy alignment across the organization.

Target Audiences

- Data Analysts
- Business Intelligence Developers
- Data Engineers
- ETL Developers
- Analytics Managers
- Cloud Solution Architects
- Reporting Specialists
- IT Professionals seeking cloud BI expertise

Course Duration: 5 days

Course Modules

Module 1: Introduction to Snowflake

- Overview of Snowflake architecture and components
- Cloud data warehouse vs traditional data warehouse
- Key features of Snowflake for BI applications
- Snowflake editions and deployment options
- Data loading and querying fundamentals
- Case Study: Migrating legacy BI data to Snowflake

Module 2: Data Modeling in Snowflake

- Understanding Snowflake schema and star schema design
- Dimension and fact table modeling for BI
- Best practices for data normalization and denormalization
- Creating and managing virtual warehouses
- Performance optimization for large datasets
- Case Study: Building an optimized BI data model

Module 3: Data Loading and Transformation

- Bulk loading with Snowflake's COPY command
- Using Snowflake stages and file formats
- Transforming data with SQL and Snowflake streams
- Automating ETL pipelines with Snowflake tasks
- Handling incremental and historical data updates
- Case Study: Real-time sales data transformation

Module 4: Querying and Analytical Functions

- Advanced SQL queries in Snowflake
- Using window functions for trend analysis
- Aggregate and analytical function usage for BI
- Query profiling and performance tuning
- Implementing joins, unions, and subqueries
- Case Study: Sales trend analysis with SQL

Module 5: Integration with BI Tools

- Connecting Snowflake with Tableau, Power BI, and Looker
- Best practices for BI dashboard creation
- Data visualization techniques for business insights
- Optimizing queries for visual reporting
- Automating BI reports from Snowflake
- Case Study: Executive dashboard development

Module 6: Data Security and Governance

- Implementing role-based access control (RBAC)
- Data masking and secure views
- Monitoring data access and audit trails
- Ensuring compliance with GDPR and other regulations
- Data retention and lifecycle management
- Case Study: Securing sensitive customer data

Module 7: Performance Optimization

- Query optimization strategies
- Scaling virtual warehouses dynamically
- Using clustering keys and micro-partitions
- Monitoring query performance with Snowflake tools
- Troubleshooting slow queries and resource bottlenecks
- Case Study: Optimizing a high-volume analytics pipeline

Module 8: Advanced Topics and Predictive Analytics

- Data sharing and collaboration across accounts
- Leveraging Snowflake for AI and machine learning
- Implementing predictive analytics pipelines
- Streaming data integration with Snowflake
- Future-proofing BI infrastructure for cloud adoption
- Case Study: Predictive sales forecasting model

Training Methodology

- Interactive lectures with real-world Snowflake scenarios
- Hands-on labs for data modeling, ETL, and BI integration
- Group exercises for collaborative problem-solving
- Case study analysis for practical application of concepts
- Q&A sessions to clarify complex queries and techniques
- Continuous performance assessment and feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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