

SNOWFLAKE

• Real-Time Working • Detailed Subject • Interview Suitable

-  Mr. Prasad [10+ years of IT Experience, Currently Working]
-  45-50 hours (Normal Track), Daily 1 hour
-  Rs. 16,000, USD allowed
-  Multiple timings available
-  Other Modes: Fast Track / 1 on 1 / Customized/ Self-Paced Videos



INSTITUTE PROVIDES

- * Two **Near Real Time** Projects
- * In-Depth **Theory & Practical** Material
- * Complete **Practical Oriented** Training
- * Mock Interviews
- * Case Studies / User Stories / Sprints
- * Daily **Live Class Videos**
- * **FAQ Tests** in Whatsapp
- * **Resume Preparation** Sessions

Why Learn Snowflake?

- * High demand for cloud data warehousing professionals
- * Used by top global companies across industries
- * Scalable, secure, and high-performance platform
- * Excellent career growth and salary potential



Module 1: Introduction to Data Warehousing & Snowflake

- ▶ Data warehousing concepts and evolution
- ▶ Traditional vs Cloud data warehousing
- ▶ Overview of Snowflake and its advantages
- ▶ Use cases and industry applications

Module 2: Getting Started with Snowflake

- ▶ Snowflake account setup
- ▶ Web UI overview
- ▶ Basic SQL operations
- ▶ Navigating databases, schemas, and warehouses

Module 3: Snowflake Architecture

- ▶ Multi-cluster shared data architecture
- ▶ Database storage layer
- ▶ Compute layer (Virtual Warehouses)
- ▶ Cloud services layer
- ▶ Scalability, concurrency, and performance

Module 4: Databases, Schemas & Tables

- ▶ Creating and managing databases and schemas
- ▶ Table types: Permanent, Transient, Temporary
- ▶ Views and materialized views (overview)
- ▶ Data types and constraints

Module 5: Data Loading & Staging

- ▶ Internal and external stages
- ▶ COPY INTO command
- ▶ File formats (CSV, JSON, Parquet, Avro, XML)
- ▶ Best practices for efficient data loading

Module 6: Semi-Structured & Unstructured Data

- ▶ VARIANT data type
- ▶ Working with JSON, Parquet, Avro, XML
- ▶ Querying semi-structured data
- ▶ Continuous Data Ingestion – Snowpipe

Module 7: Continuous Data Ingestion – Snowpipe

- ▶ Snowpipe architecture and workflow
- ▶ Auto-ingest vs manual Snowpipe
- ▶ Event-based data loading
- ▶ Near real-time data ingestion

Module 8: Cloud Integrations (AWS & Azure)

- ▶ Loading data from Amazon S3
- ▶ Azure Blob Storage integration
- ▶ Storage integrations and security
- ▶ External stages configuration

Module 9: Performance Optimization

- ▶ Virtual warehouse sizing
- ▶ Query profiling and optimization
- ▶ Clustering keys
- ▶ Search optimization service
- ▶ Materialized views

Module 10: Time Travel & Fail-safe

- ▶ Data retention concepts
- ▶ Querying historical data
- ▶ Restoring dropped objects
- ▶ Cloning using Time Travel
- ▶ Fail-safe overview

Module 11: Data Sharing

- ▶ Secure data sharing concepts
- ▶ Provider and consumer accounts
- ▶ Reader accounts
- ▶ Sharing data without duplication

Module 12: Streams & CDC

- ▶ Streams concept and usage
- ▶ Change Data Capture (CDC)
- ▶ Tracking inserts, updates, deletes
- ▶ Incremental data processing

Module 13: Tasks & Automation

- ▶ Creating and managing tasks
- ▶ Scheduling SQL jobs
- ▶ Automating data pipelines
- ▶ Stored procedures overview

Module 14: Security & Access Management

- ▶ Role-Based Access Control (RBAC)
- ▶ Users, roles, and privileges
- ▶ Authentication and authorization
- ▶ Dynamic data masking
- ▶ Network and security policies

Module 15: Account Management & Monitoring

- ▶ Credit usage and billing overview
- ▶ Resource monitors
- ▶ Query history and usage tracking
- ▶ Best practices for cost optimization

A Big Thank you

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