Snowflake Training Syllabus

Section 1: Introduction to Snowflake

- Overview of Snowflake database
- Key features of Snowflake
- Data warehousing detailed explanation
- Cloud Data warehousing concepts
- Latest trends in Data warehousing
- Creating Warehouse,Database,tables and Schema

Section 2: Exploration of Cloud Platforms

- Grasping AWS and its S3Storage
- Azure and Blob Storage: A Closer Look
- Snowflake Architecture and Caching
- Getting to Know GCP and its Bucket Storage

Section 3: Cloud Data Warehouse

- Checking Cloud Dataware housing options
- Checking the datasafety
- Checking the performance
- To identify the factors for quality of the data
- Security standards

Section 4: Understanding Snowflake

- Understanding its architecture
- Data Protection
- Data Lifecycle
- Snowflake ecosystem
- Snow SQL Installation

Section 5: Understanding Snowpipe

- Overview of Snowpipe

- GET Commands
- PUT Commands
- Bulk Data Transfer from Cloud Storage
- Techniques for Continuous Loading

Section 6: Connecting to Snowflake

- JDBC Driver
- ODBC Driver
- Downloading and integrating JDBC driver
- Downloading and installing ODBC server
- Connection parameters
- API Support
- Diagnosing service ODBC service

Section 7: Scheduling in Snowflake

- Task Creation Techniques
- Exploring Streams in Snowflake
- Procedure Execution with Tasks
- Time-Based Scheduling Across Various Time Zones
- Automating the Loading Process: Daily and Weekly Schedules

Section 8: Data-Sharing Security

- Fundamentals of Data Sharing
- Data Exchange Between Different Accounts
- Leveraging Reader Accounts for Data Sharing
- The Critical Role of Reader Accounts
- Privileges in Data Sharing
- Challenges in Cross-Region Sharing and Grasping Replication Concepts
- Power BI Tool Integration with Shared Objects
- Data Sharing Limitations

Section 9: Semi Structured data and JSON in Snowflake

- Grasping the Variant Data Type
- Options in File Formats
- Staging Creation Techniques
- Loading JSON Semi-Structured Data into Snowflake Tables
- Techniques to Access JSON with Select Statements

Section 10: Clustering and Performance technique

- Establishing Multi-Clusters for Extensive Tables
- Strategies for Enhanced Performance