

Snow Flake (AWS)

Pre-requisites

- Basic Of SQL
- Datawarehousing Basics
- Cloud Exposure

1. Introduction of Datawarehouse and its Basics

- What is Datawarehousing
- Dimensional & Fact tables
- Star, Snowflake & Galaxy Schemas
- Limitations of Traditional Datawarehouses
- Advantages of Cloud Over On-Prem

2. Getting Started with Snowflake

- Snowflake History
- Create Snowflake trial account

- Snowflake Editions
- Web User Interface
- Different Roles in Snowflake
- Explore - Databases, Schemas and Tables
- Writing DDL & DML Queries

3.Using Snowflake

- Snowflake Architecture
- Virtual warehouse & Scalability
- Databases, Tables & Views
- Roles and Privileges
- Snowflake Pricing
- Queries Processing in Snowflake

4. Table Types in Snowflake

- Permanent table
- Transient table
- Temporary table
- External Tables
- Dynamic Tables
- Iceberg Tables

5. View Types in Snowflake

- Standard Views

- Secure Views
- Materialized Views

6. Micro Partitions & Clustering

- What are Micropartitions
- Pruning
- What is Clustering?
- How clustering works & its advantages

7. AWS Cloud

- Introduction to AWS Cloud
- AWS Services(IAM,S3,SQS,SNS,DMS,RDS,CloudWatch etc)
- AWS & Snowflake Integration

8. Stages, Data Loading & Unloading

- FileFormats
- Internal(Table, User & Named) & External Stages
- Data Loading Considerations
- Preparing to Load Data
- Data Load Using Web UI
- Data load using Copy Command

- Data load Using SnowSQL(Snowflake CLI Client)
- Snowpipe(Snowflake Continuous stream data integrations)
- Bulk loading
- Data Unloading into Internal Stages
- Data Unloading into External Stages

9. Changes Data Captures (CDS)

- Streams
- Tasks
- SCD's(Slowly Changing Dimensions)

10. Sharing Data in Snowflake

- Introduction to Data Sharing
- Inbound Shares
- Outbound Shares
- Using Secure Objects to Control Data Access
- Advantages & Limitations Of Shares

11.Caching Techniques

- Metadata Cache
- Query Result Cache
- Disk/Data Cache

12.Performance Tuning

- Monitoring Credit and Storage Usage
- Resource Monitors
- Clustering
- Horizontal Scaling
- Autoscaling
- Other ways to improve Performance

Interview Preparation:

- RealTime Scenarios
- Interview Questions & Answers

Bonus:

- SnowPro Preparation Material
- Sample Tests & Quiz



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