REGULATORY REPORTING
REFERENCE ARCHITECTURE

Data Sources

Internal Sources
Order data
Transaction data
Securities Master
Portfolio Master
Account Master
Loan tapes

External Providers

Connected / Powered By Apps
Portfolio Management System
Customer Relationship Management

Snowflake Providers
Market data
Risk data
Reference data
ESG data

File
Snowpipe streaming
Connected
Shared

snowflake

RAW
Complete source data
Source format
ET ET
Object Tagging
Data Masking
DR
Cross Region/ Cloud Replication

INTEGRATION
Unified data format
Technical rules (Dedup)
Business rules (Quality)
Workload isolation & instant scale
ANSI SQL
Python

WAREHOUSE
Portfolio / Securities / Pricing / Orders / Transactions Masters
Historical data model
ANSI SQL
Time Travel & Zero copy Clone

MODELED
Report model
Report Data Products
MV MV
Data Masking
Workload isolation & instant scale

DATA ENGINEERING
Streams
Tasks
Serverless Tasks
ANSI SQL
SnowPark
Python

Reports
FRTB
Basel III
CAT
Form PF
MiFID II
AIFMD
PRIIPs
EMIR
HKMA
FINRA
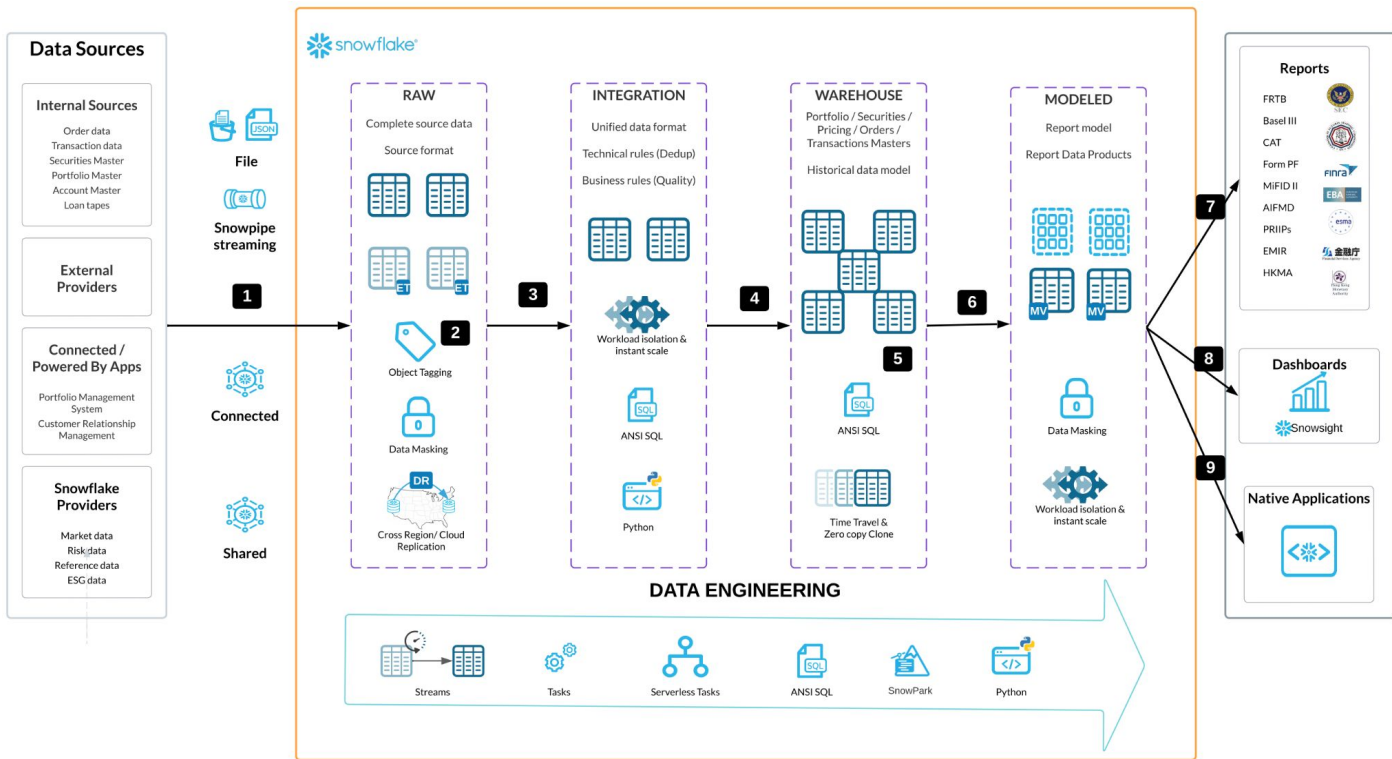EBA
esma
金融庁

Dashboards
Snowsight

Native Applications

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OBJECTIVE
Snowflake's platform enables portfolio managers to quickly and easily access and analyze large volumes of data, helping them gain insightful and timely information to make more informed decisions.

DESCRIPTION

1. Acquire datasets from internal sources and third-parties using batches, streams, native connectors and direct shared data.

2. Store data at scale in any format. Securely share governed data between producer and consumer using object tagging, masking and transparent Cloud region replication.

3. Integrate data from disparate sources using only required compute and language of choice (SQL, Python).

4. Automate incremental historical integration with Streams and Tasks, while protecting modeled data with Time Travel and Zero-copy Clone.

5. Deploy multi-regulation consolidated historical models at regulation granularity, from denormalized datasets, to ANSI SQL relational models with ACID compliance, to Data Vault.

6. Provide regulation-specific model views for consumption by specific markets, regulators and reports using Data Masking. Run reports in parallel without contention, paying only for use.

7. Publish reports for global and market-specific regulatory bodies

8. Drive internal reporting dashboards as built-ins (Snowsight) or integrated with additional BI dashboards

9. Run applications with guided data input, sharing and reporting enrichment

RELATED CONTENT
Webpage: Meet Regulatory Reporting Obligations With Snowflake