

90 MIN HANDS-ON WORKSHOP ZERO TO SNOWFLAKE

VILNIUS AND RIGA

theinfotrusted.com





Prepare for the upcoming hands-on lab:

1. Click the *Hands-on Lab Guide* link, under Lab Resources
 - a. quickstarts.snowflake.com/guide/tasty_bytes_introduction/
2. Complete the *Prerequisites* in Step 1.
3. Follow along with the lab guide.
4. Ask questions :)

Quickstart

You'll need to access sample code and data on Snowflake Quickstarts under "Tasty Bytes" category:

quickstarts.snowflake.com/



Search

GETTING STARTED WITH SNOWFLAKE

Follow along with our tutorials to get you up and running with the Snowflake Data Cloud.

SNOWFLAKE QUICKSTARTS ON GITHUB

VIRTUAL HANDS-ON LABS

FREE TRIAL

A-Z RECENT DURATION

Choose a language

An Introduction to Tasty Bytes
10 min Updated Mar 18, 2023
START

Tasty Bytes - Zero to Snowflake - Collaboration
10 min Updated Mar 18, 2023
START

Tasty Bytes - Zero to Snowflake - Governance
15 min
START

Tasty Bytes - Zero to Snowflake - Financial Governance
10 min Updated Mar 18, 2023
START

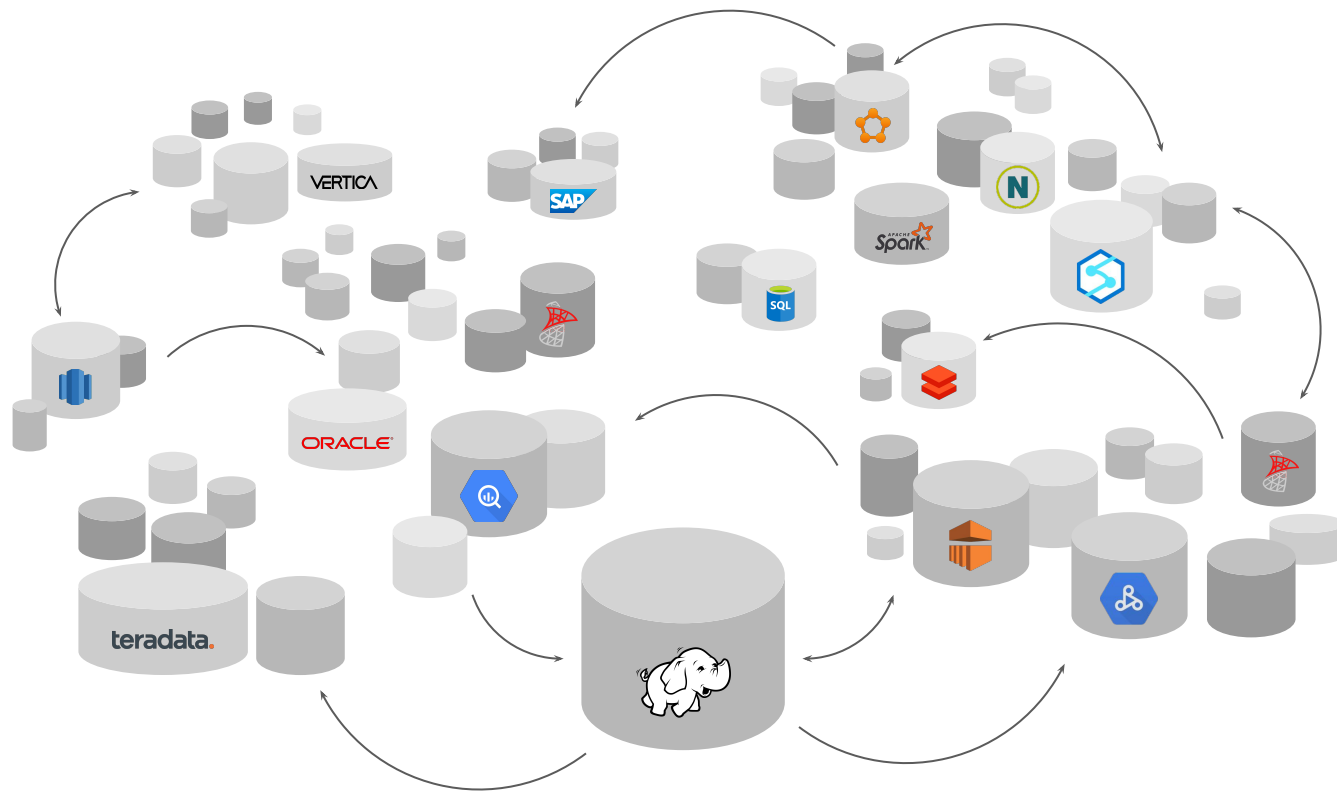
Tasty Bytes - Zero to Snowflake - Geospatial
10 min Updated Mar 18, 2023
START

Tasty Bytes - Zero to Snowflake - Structured Data
10 min
START

Tasty Bytes - Zero to Snowflake - Transformation
10 min Updated Mar 18, 2023
START

- App-Development
- Architecture-Patterns
- Cybersecurity
- Data-Engineering
- Data-Science-&ML
- Devops
- Featured
- Getting-Started
- Partner-Integrations
- Resource-Optimization
- Solution-Examples
- Tasty-Bytes**

Every Organization Struggles with Silos



Every Organization Struggles with Silos

Silos equate to complexity, higher costs, and security risks

SNOWFLAKE ELIMINATES SILOS



With no silos, you can:

**Simplify your
data foundation**

for all data and workloads

Accelerate AI

for all users against
enterprise data

Scale with applications

with streamlined development,
deployment, and productization



Snowflake in Finland

FINANCE & INSURANCE



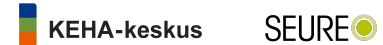
RETAIL & CPG



MANUFACTURING



PUBLIC SECTOR



ENERGY & UTILITIES



TECHNOLOGY



MEDIA & GAMING



REAL ESTATE & CONSTRUCTION



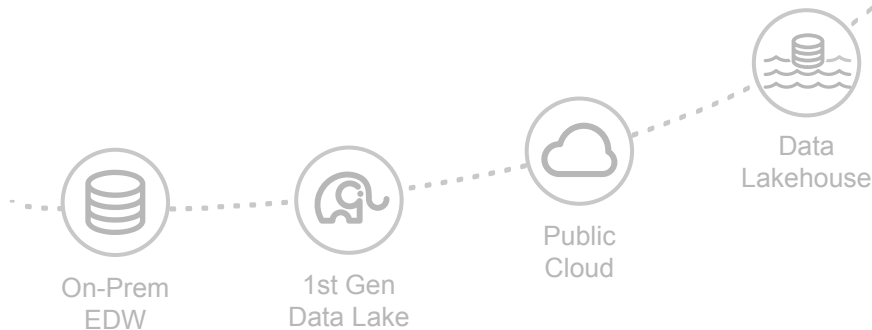
AND MANY MORE

Innovation Journey to the Data Cloud

1.0 (2015) - Data Warehouse Built For The Cloud; “Break Internal Silos”

2.0 (2018) - The Data Cloud; “Break External Silos”

3.0 (2022) - Disrupt Applications; “Bring work to data”



- ✓ All Data
- ✓ Single Engine
- ✓ Governed
- ✓ Globally Connected
- ✓ Self-Managed
- ✓ Programmable
- ✓ Marketplace & Monetization

Snowflake Platform



It Just Works

Single, unified platform that delivers ease of use and powerful automations



Optimized Performance at Scale

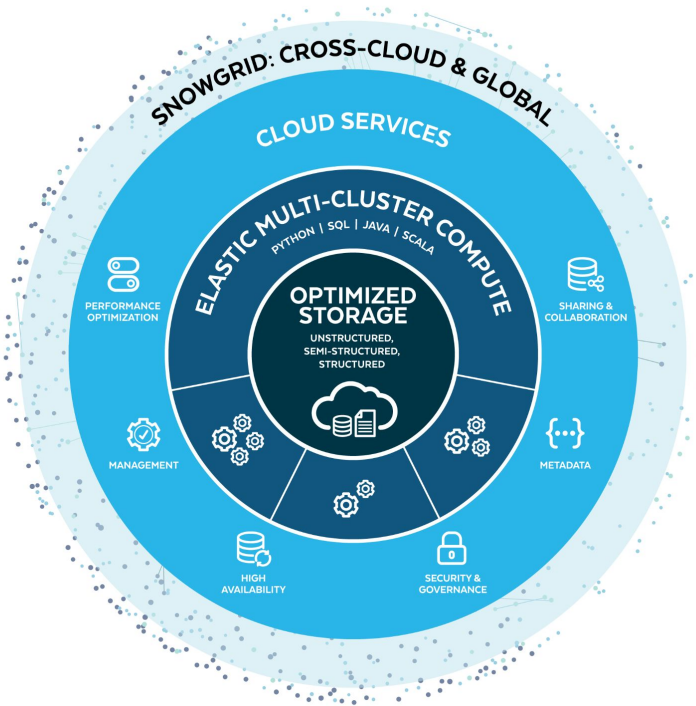
Scale up and down elastically, and scale out to support massive concurrent users, data volumes, and different workloads



Globally Connected

Access data and apps across clouds and regions securely with one consistent experience

SNOWFLAKE'S UNIQUE PLATFORM ARCHITECTURE



POWERS MANY WORKLOADS



BRIEF UI DEMO

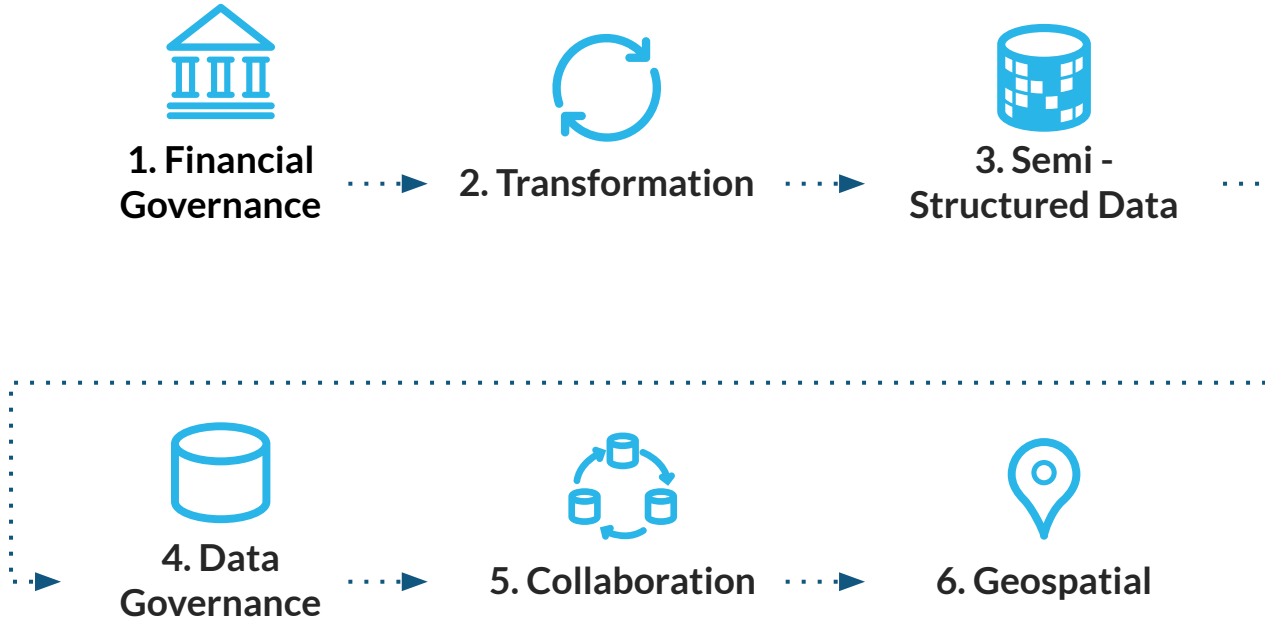
(you can follow, no need to click like I do)



HANDS-ON LAB



ZERO TO SNOWFLAKE



WHO IS TASTY BYTES?

ABOUT US: Global food truck network, localized menu options, 15 countries, 30 major cities, and 15 core brands.

OUR MISSION

We serve to give people unique food options with high quality items in a safe, convenient and cost effective way. We ensure that the ingredients used are of the highest quality from mostly local food vendors to make sure our success has a positive impact on community partners.



OUR VISION

To become the largest food truck network in the world by 2027 that has sustainable profitability with a zero carbon footprint future that our team, customers, and communities are proud of supporting.

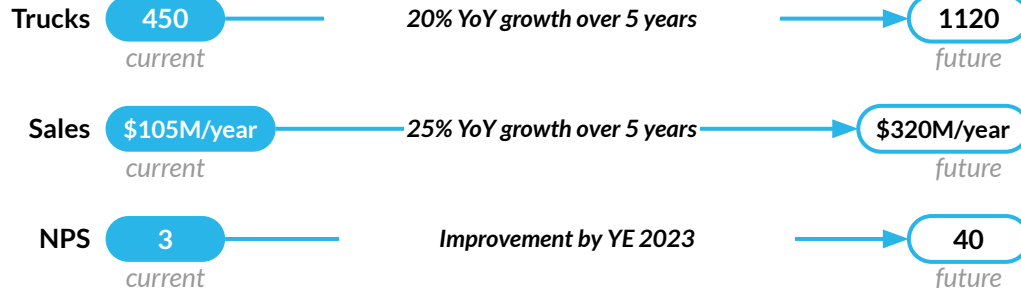


LOCATIONS SERVED

- USA: San Mateo, Denver, Seattle, Boston, New York City
- Canada: Toronto, Vancouver, Montreal
- United Kingdom: London, Manchester
- France: Paris, Nice
- Poland: Warsaw, Krakow
- India: Mumbai, Delhi
- Japan: Tokyo
- South Korea: Seoul
- Australia: Sydney, Melbourne



CURRENT STATE & FUTURE GOALS



FINANCIAL GOVERNANC E



ETL/ELT



Structured
Semi-Structured
Unstructured



Data Load



Data Transformation



Marketing Analytics/Reporting/BI



Data Science



Intelligent Infrastructure:

- Logical Model
- Security
- Query Planning & Optimization
- Transactional Control

ETL/ELT



Structured
Semi-Structured
Unstructured



Data Load



Marketing Analytics/Reporting/BI



Multi-cluster

Data Transformation



Intelligent Infrastructure:

- Logical Model
- Security
- Query Planning & Optimization
- Transactional Control

Data Science

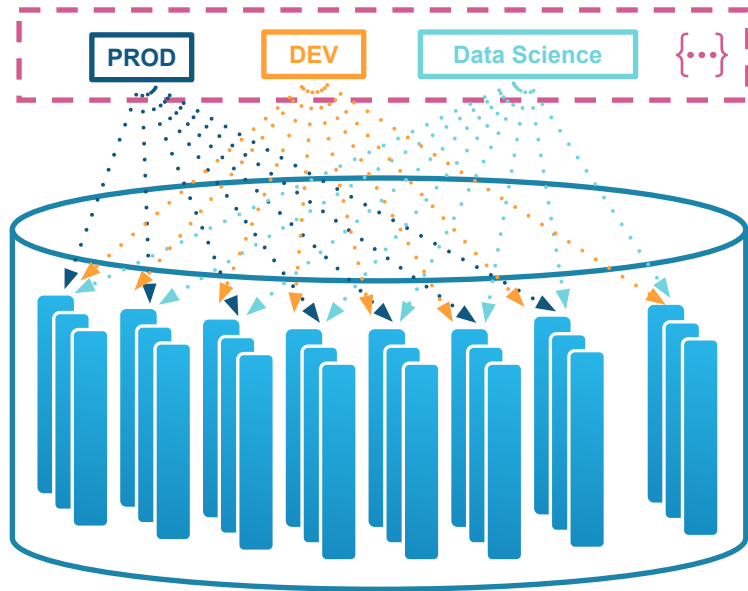




TRANSFORMATION



Zero-Copy Cloning



The Metadata layer keeps track of every micro-partition file in every customer database.

Creating a DEV environment usually means copying the PROD database

Limited to subset of full Prod

Up to 2x storage requirement

Periodic refreshes

Snowflake Zero-Copy Clones

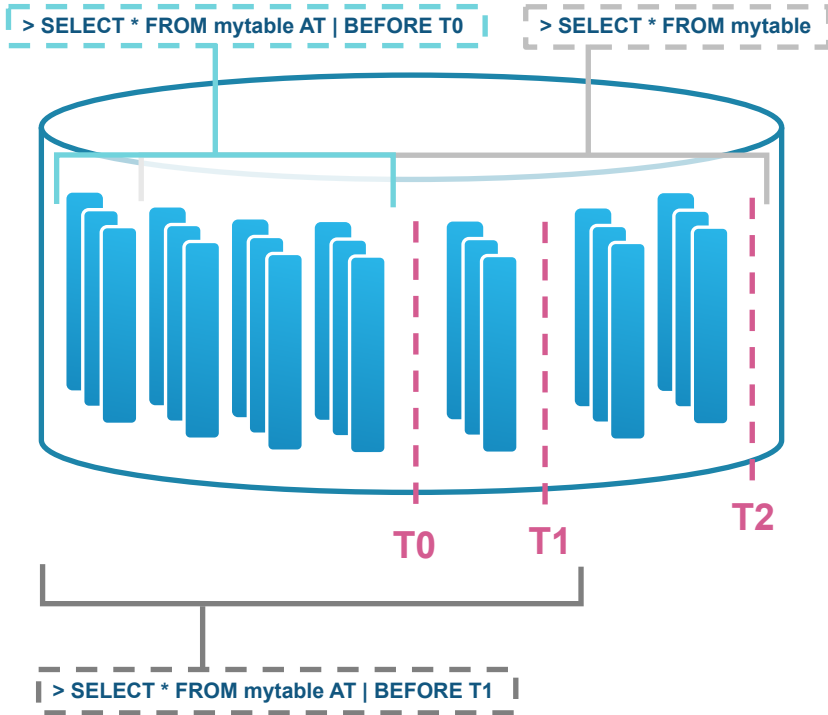
Simply “point” to the same files

Consumes zero additional storage

Changes to either DB are isolated



Time Travel



T0 – Initial state of database

T1 – update myTable set
colX = Y where...

T2 – ELT job loads new data

**Previous versions of data
automatically retained**

AT | BEFORE [timestamp | statement | offset]

CLONE AT | BEFORE to recreate a prior version

UNDROP recovers from accidental deletion

Accessed via SQL extensions

AT | BEFORE [timestamp | statement | offset]

CLONE AT | BEFORE to recreate a prior version

UNDROP recovers from accidental deletion



SEMI-STRUCTURED



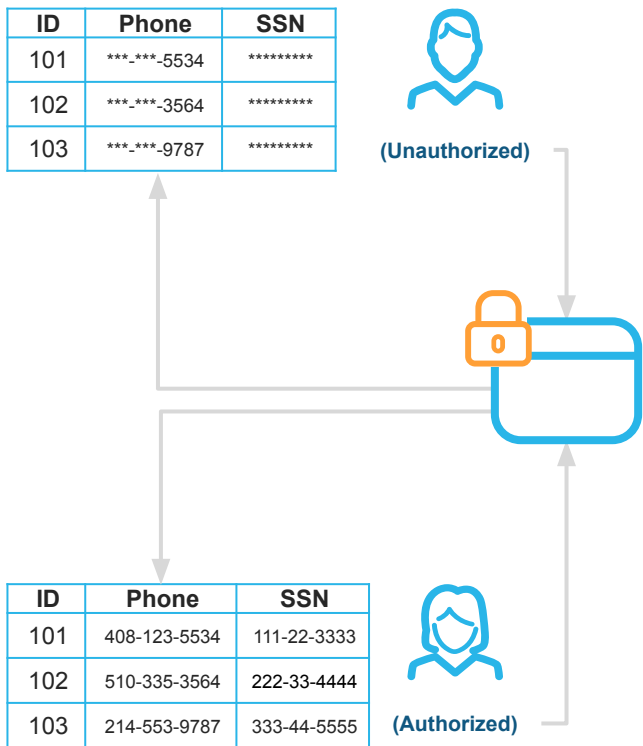


DATA GOVERNANCE



Dynamic Data Masking

Column-level Security



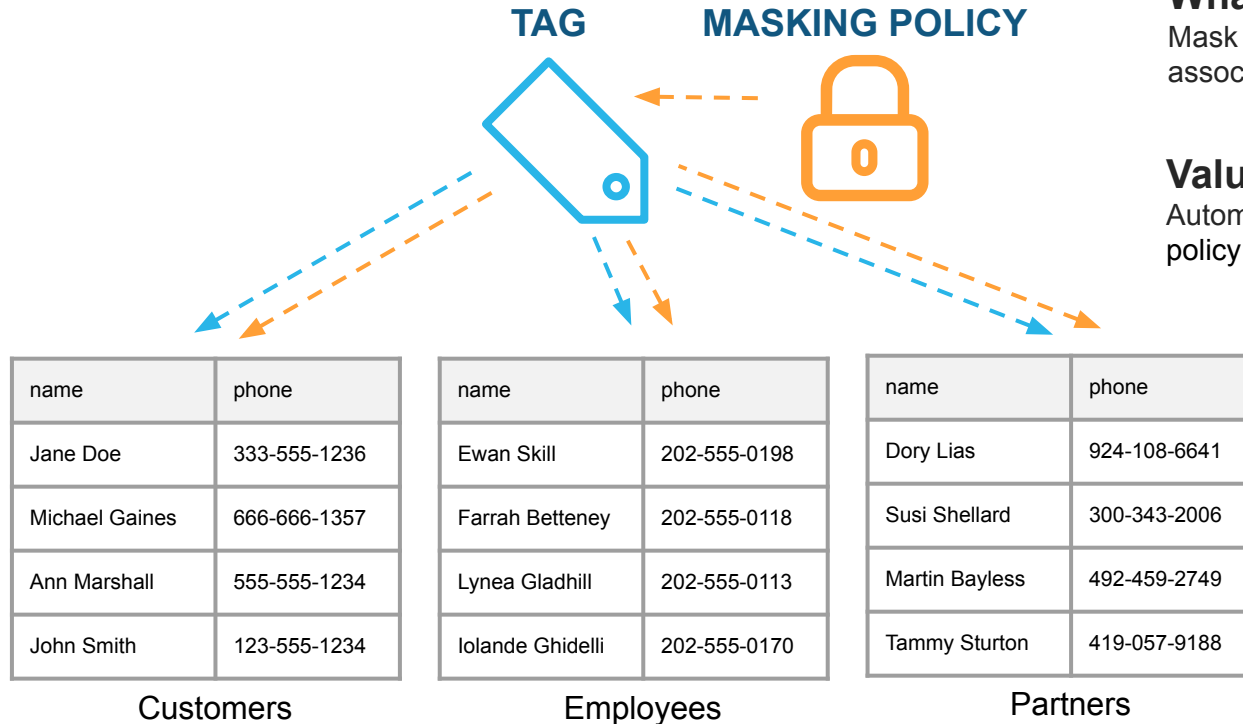
Dynamically mask data at query time

Centralized policy management

Apply one policy to many columns



Tag-Based Masking



What is it?

Mask columns automatically based on tags associated with them

Value

Automated data protections and simplify policy change management at scale.

THANK YOU



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