



SNOWFLAKE

ELIS 2026

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NATIVE GEOSPATIAL CAPABILITIES IN SNOWFLAKE

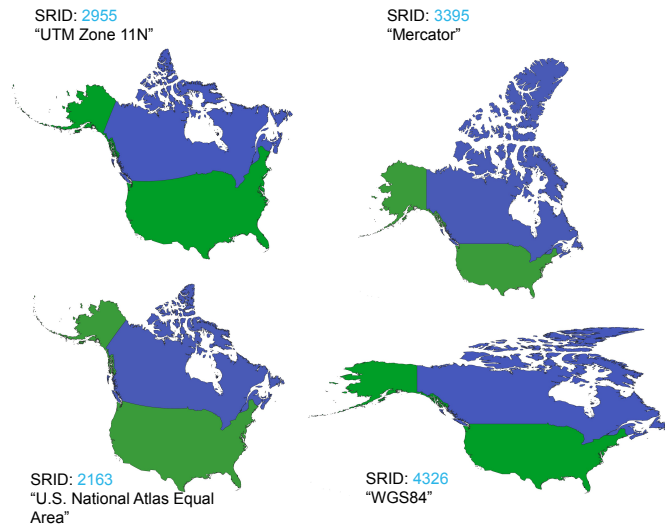


TWO NATIVE DATA TYPES



GEOGRAPHY

Models Earth as an Ellipsoid
Supports WGS84 (4326) SRS



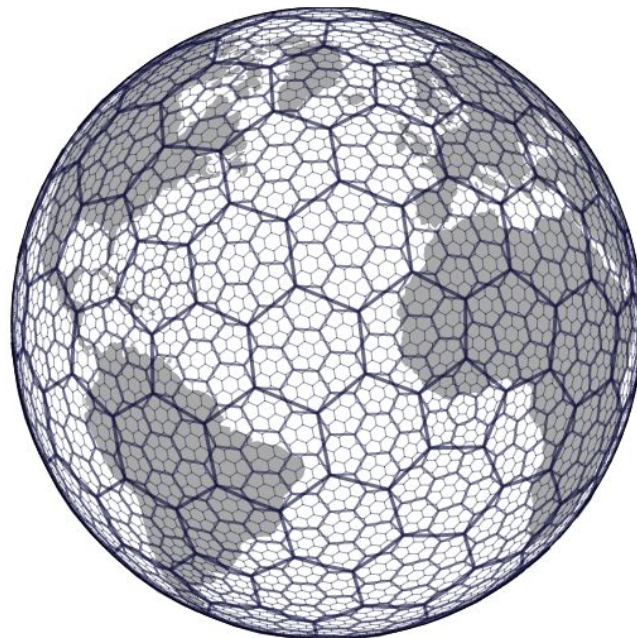
GEOMETRY

Models Earth as a Cartesian plane
Supports many Spatial Reference Systems
Can be faster for local spatial calculations

DISCRETE GLOBAL GRID H3

A hierarchical grid that divides the world into hexagonal cells of equal sizes

- Maps any coordinate point onto a hexagon
- Hierarchical system
- Divides the world perfectly into hexagons
- Each cell has a unique ID (String or Integer)
- Cells have 16 different sizes (resolutions)



FUNCTIONS TO SUPPORT ALL NEEDS

Any vector object

- Valid/invalid shapes

Measurement functions

- ST_DISTANCE
- ST_AREA

Relationships

- ST_INTERSECTS
- ST_CONTAINS

Transformations/Aggregations

- ST_COLLECT
- ST_UNION

Support for various SRIDs

- ST_SRID
- ST_SETSRID
- ST_TRANSFORM

Discrete Global Grid: H3

- H3_LATLNG_TO_CELL
- H3_POLYGON_TO_CELLS
- H3_COVERAGE

Discrete Global Grid: Geohash

- ST_GEOHASH
- ST_GEOGFROMGEOHASH
- ST_GEOGPOINTFROMGEOHASH

User Defined Functions

- Python
- JavaScript
- Java

External Functions

- E.g. for Routing

Partner Functions

- CARTO Spatial Extension
- Mapbox GEO
- SedonaSnow
- Travel Time



H3 FUNCTIONS

H3_LATLNG_TO_CELL

H3_POINT_TO_CELL

H3_CELL_TO_BOUNDARY

H3_CELL_TO_CHILDREN

H3_CELL_TO_PARENT

H3_CELL_TO_POINT

H3_COVERAGE

H3_GET_RESOLUTION

H3_GRID_DISTANCE

H3_GRID_DISK

H3_GRID_PATH

H3_INT_TO_STRING

H3_POLYGON_TO_CELLS

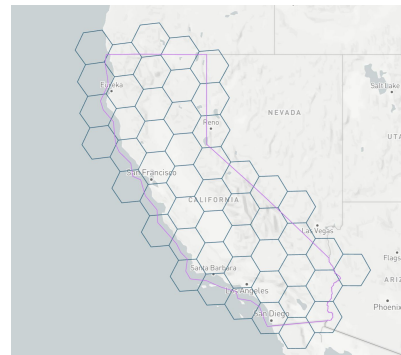
H3_STRING_TO_INT

H3_IS_PENTAGON

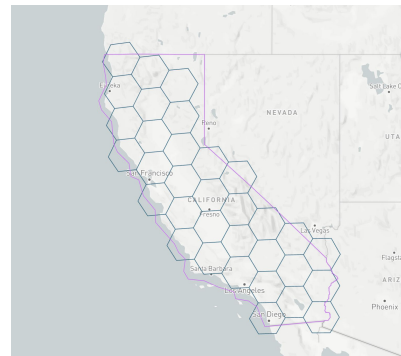
H3_IS_VALID_CELL

H3_COMPACT_CELLS

H3_UNCOMPACT_CELLS



H3_COVERAGE

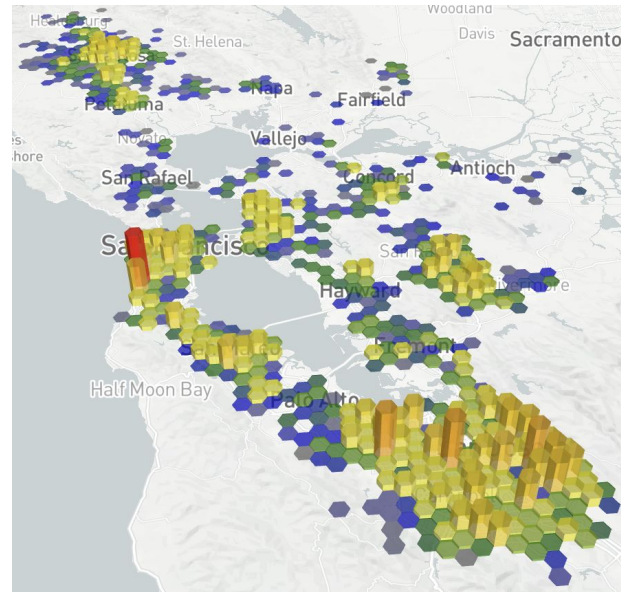
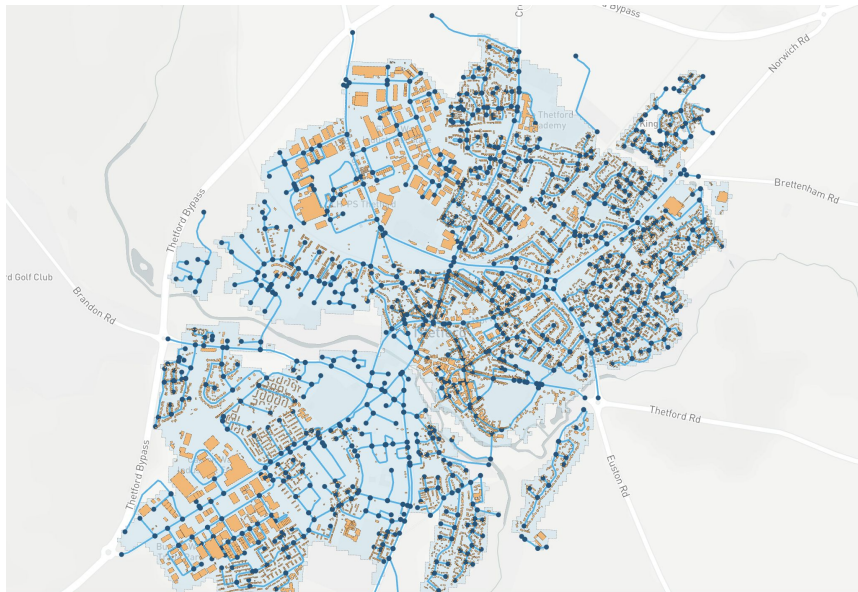


H3_POLYGON_TO_CELLS



GEO VISUALISATION IN STREAMLIT

Build GEO dashboards in Snowflake



Use, Folium, Plotly, Pydeck etc. to visualize vector and H3 datasets



ArcGIS COMPARISON VS SNOWFLAKE



	ArcGIS	Snowflake
Workflow	GUI → import → tool → export	Single SQL query
Data movement	Export from DB → load into GIS	Zero — query where data lives
Real-time	Requires GeoEvent Server add-on	Query always hits live data
Accessibility	GIS analyst with license	Anyone with SQL (or natural language via Cortex)
Cost	\$10K+/yr per seat	Pay-per-query, low cost
Scale	Desktop memory-bound	Cloud elastic compute
Automation	Python + arcpy scripting	SQL in any pipeline, Streamlit, or agent



HOW DOES AI MIX GEO?

SNOWFLAKE INTELLIGENCE +

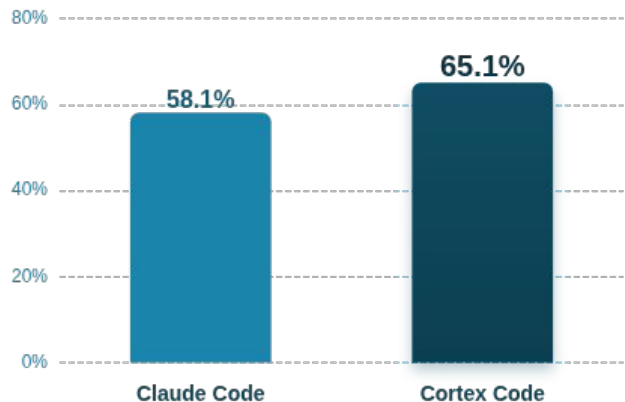
CORTEX CODE



Cortex Code Is the World's Best Data Coding Agent

Pass Rates on ADE-Bench

Higher is better (43 total tasks)



Model Version: Opus 4.6

BENCHMARK RESULTS

Cortex Code achieves comparable rates but demonstrates superior execution efficiency, with a **15.7% higher efficiency score** compared to Claude Code.

TOOL CALLS

854 ↓ 48%

vs 1,657 (Claude)

AVG STEPS

19.9 ↓ ~50%

vs 38.5 (Claude)

OPERATIONS

File Reads **2x Fewer**

Bash Cmds **4x Fewer**

Why Cortex Code is More Efficient

TARGETED VS. EXHAUSTED

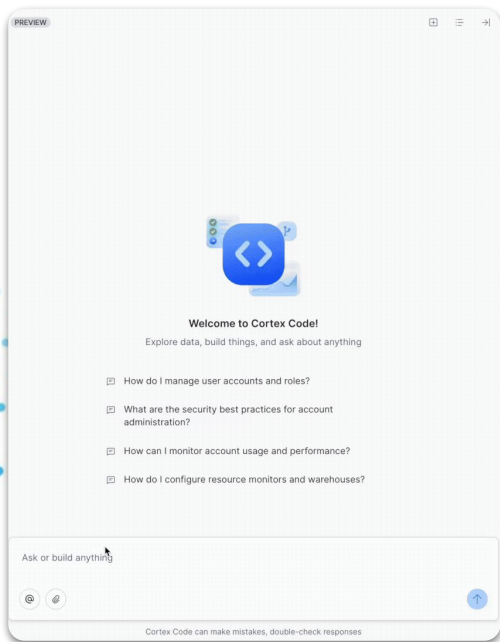
Cortex performs targeted exploration rather than exhaustive scanning, significantly reducing IO operations.

SQL-NATIVE APPROACH

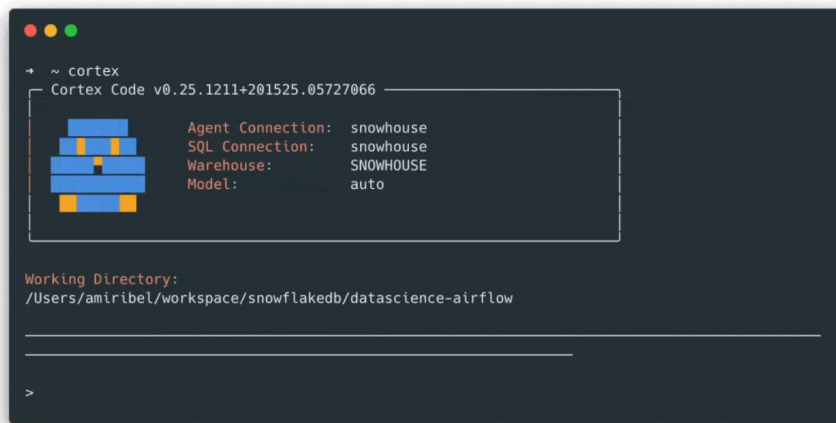
Utilizes `snowflake_sql_execute` for native execution, avoiding heavy reliance on bash tools common in Claude's workflow.



Where to Access Cortex Code



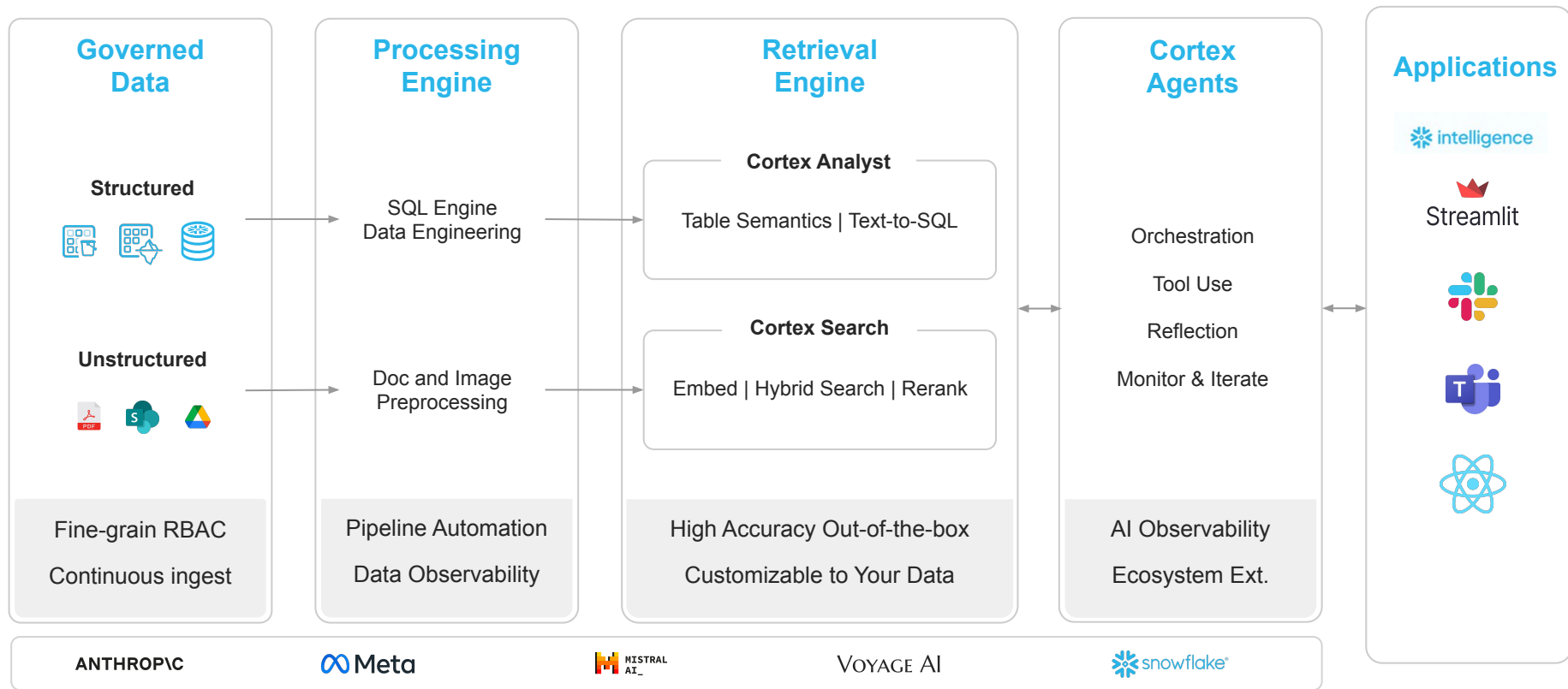
Snowsight



CLI



AI Applications Framework



Snowflake Semantic Views

Unlock conversational analytics

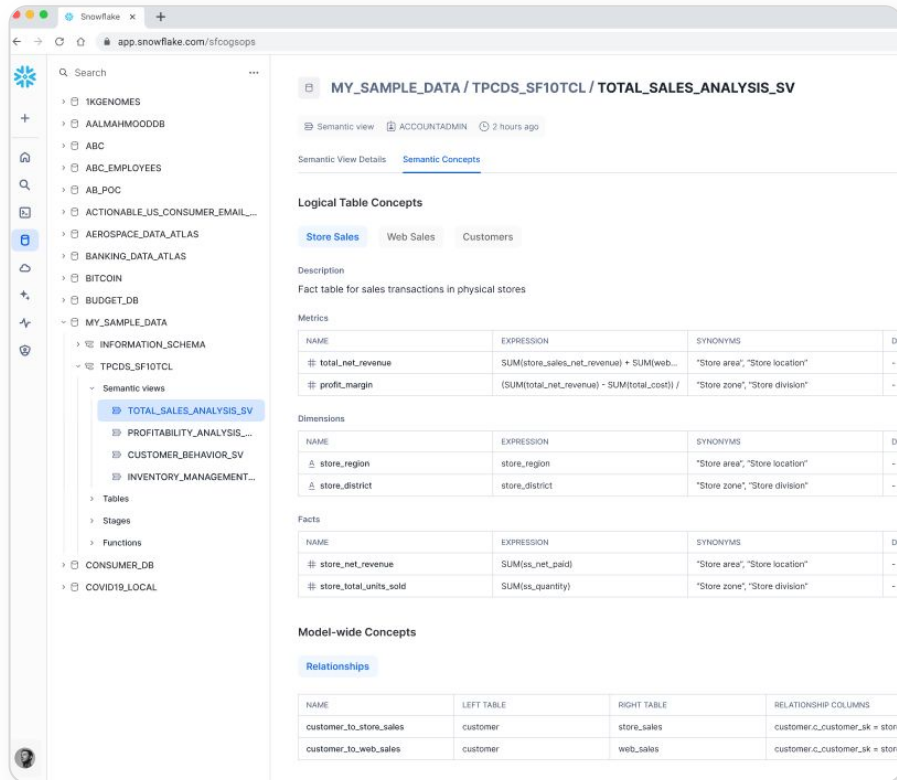
Semantic Views enable high quality, consistent, and governed conversational analytics in Cortex Analyst, Snowflake Intelligence, and other text-to-sql clients.

Extensible across agents/apps

Whether you are talking to your data, writing a SQL query, or using a BI client, Semantic Views help ensure that all analytics consumers get consistent answers, regardless of the UI.

Governance

Semantic Views are securable schema, support object-level RBAC and respect underlying data access controls. Replication and DR capabilities are built-in.



The screenshot shows the Snowflake web interface for a Semantic View named 'TOTAL_SALES_ANALYSIS_SV' within the 'MY_SAMPLE_DATA / TPCDS_SF10TCL' schema. The interface includes a navigation pane on the left, a search bar, and a main content area with several sections:

- Semantic View Details:** Shows the view name, user (ACCOUNTADMIN), and last updated time (2 hours ago).
- Semantic Concepts:** Includes tabs for 'Store Sales', 'Web Sales', and 'Customers'. The 'Store Sales' tab is active.
- Logical Table Concepts:** Provides a description ('Fact table for sales transactions in physical stores') and a table of metrics.
- Metrics Table:**

NAME	EXPRESSION	SYNONYMS	DE
# total_net_revenue	SUM(store_sales.net_revenue) + SUM(web...	"Store area", "Store location"	-
# profit_margin	(SUM(total_net_revenue) - SUM(total_cost)) /	"Store zone", "Store division"	-
- Dimensions Table:**

NAME	EXPRESSION	SYNONYMS	DE
△ store_region	store_region	"Store area", "Store location"	-
△ store_district	store_district	"Store zone", "Store division"	-
- Facts Table:**

NAME	EXPRESSION	SYNONYMS	DE
# store_net_revenue	SUM(ss.net_paid)	"Store area", "Store location"	-
# store_total_units_sold	SUM(ss.quantity)	"Store zone", "Store division"	-
- Model-wide Concepts:** Includes a 'Relationships' tab and a table showing relationships between tables and columns.
- Relationships Table:**

NAME	LEFT TABLE	RIGHT TABLE	RELATIONSHIP COLUMNS
customer_to_store_sales	customer	store_sales	customer.c_customer_sk = store...
customer_to_web_sales	customer	web_sales	customer.c_customer_sk = store...

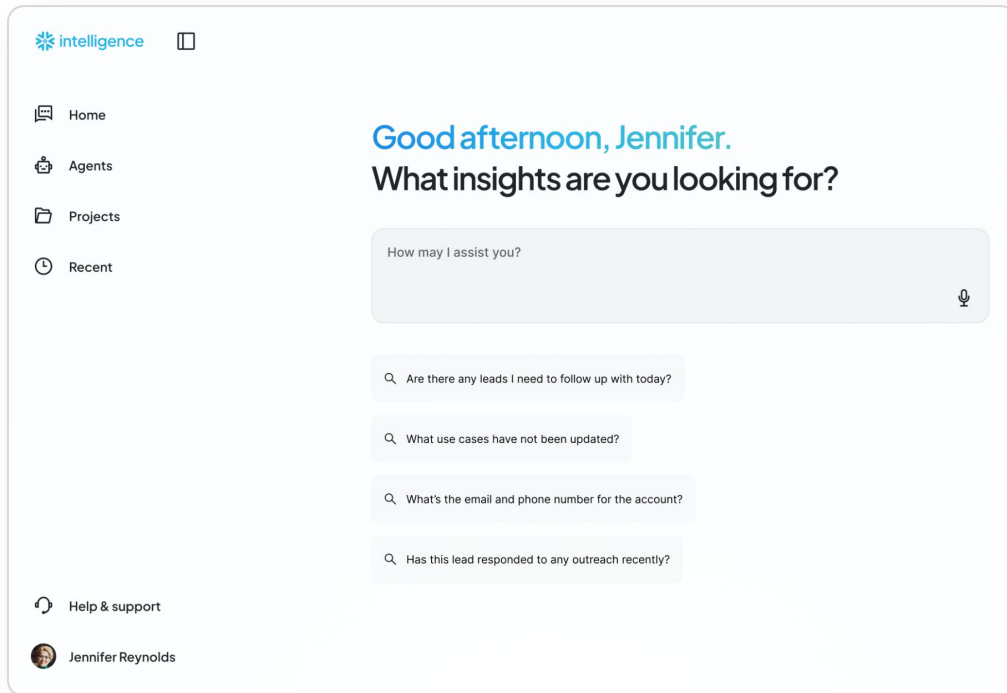


Introducing Snowflake Intelligence

Deep research on your enterprise data

Agentic Deep Research

- Natural language interface to get insights from **structured & unstructured** data
- Integrated with Snowflake **governance** and access controls
- Enable **business users** to **self-serve** answers freeing data teams
- **No dashboards or SQL** needed



QUICK NOTE ON GOVERNANCE

Unified, Cross-Cloud Governance



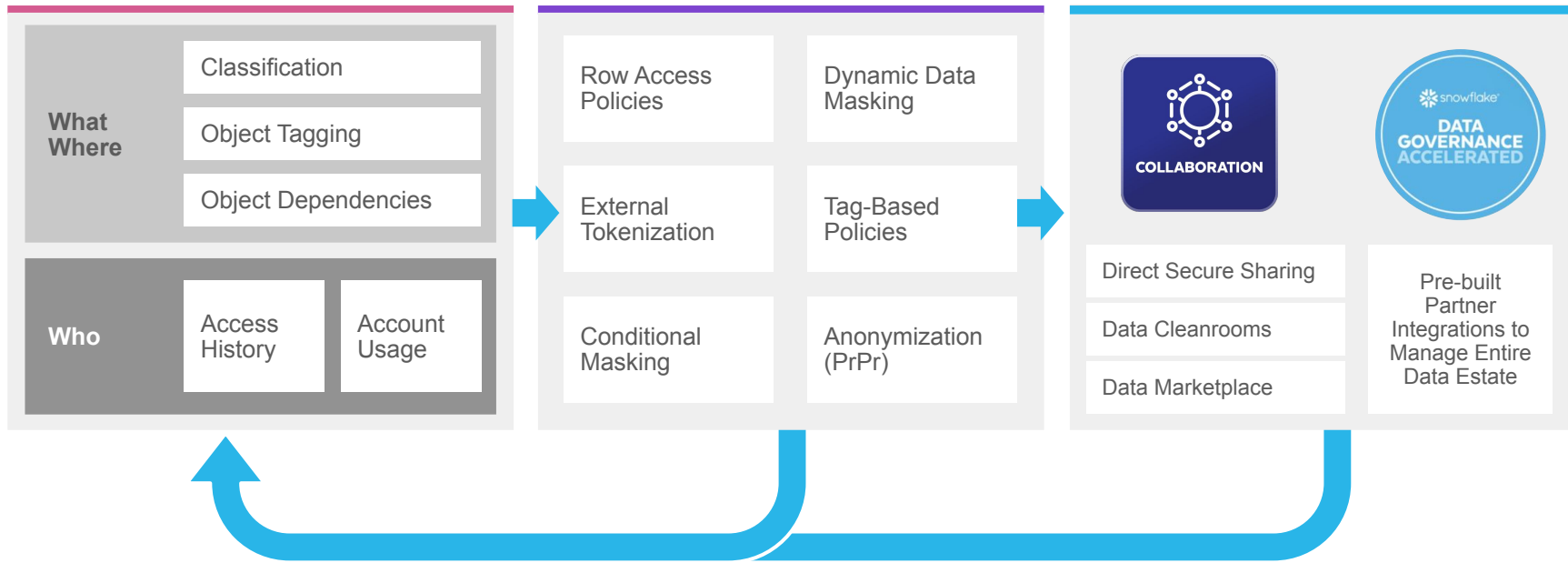
Know Your Data



Protect Your Data

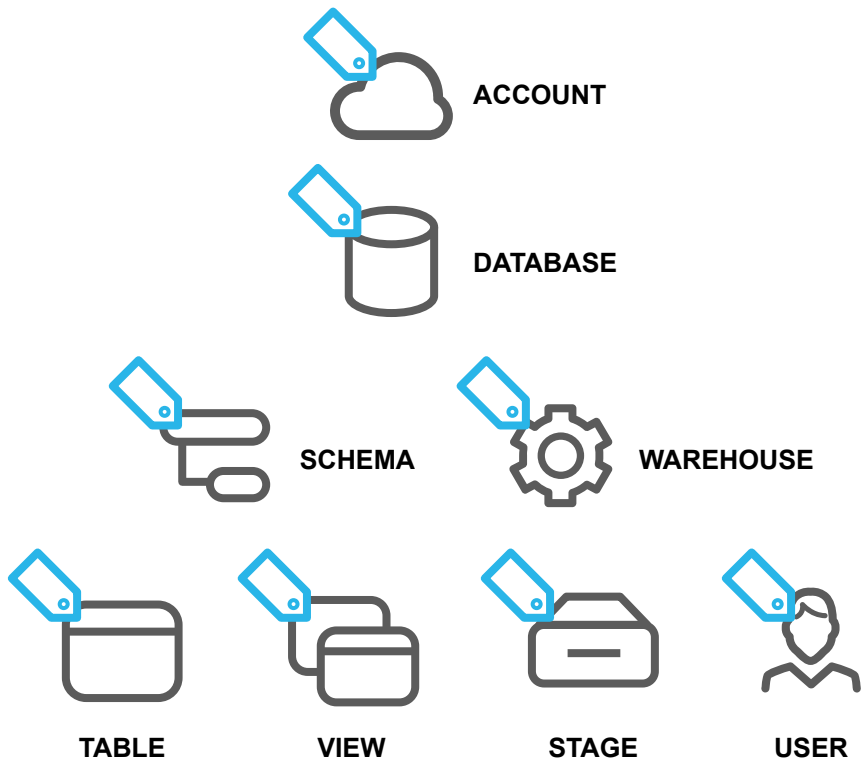


Connect Your Ecosystem



Object Tagging

Track sensitive data and compute objects



Track sensitive and PII data

Track resource usage for cost visibility and attribution

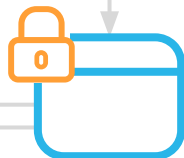
Flexible privilege management options

Dynamic Data Masking

Column-level Security

ID	Phone	SSN
101	***_***-5534	*****
102	***_***-3564	*****
103	***_***-9787	*****


(Authorized
Access:
Restricted Data)



ID	Phone	SSN
101	408-123-5534	111-22-3333
102	510-335-3564	222-33-4444
103	214-553-9787	333-44-5555


(Authorized
Access:
Unrestricted Data)

Dynamically mask data at query time

Centralized policy management

Apply one policy to many columns

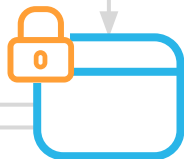


Row Access Policies

Row-level Security

Customer	Spend	Region
ACME	\$820,000	North America
Koko	\$2,100,000	North America


ROLE:
EU_NA



Customer	Spend	Region
AGM	\$5,757,000	Europe


ROLE:
EU_RL

Filter unauthorized rows at query time

Use mapping tables for authorization

Apply one policy to many tables



DEMO - PORT OF QUEBEC USE CASE
GENERATED WITH CORTEX CODE
SHOWCASING STREAMLIT + SI



EXTRA FEATURES



GEOSPATIAL MARKETPLACE

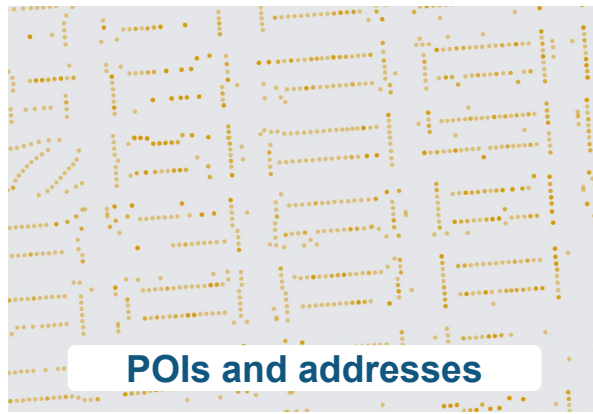
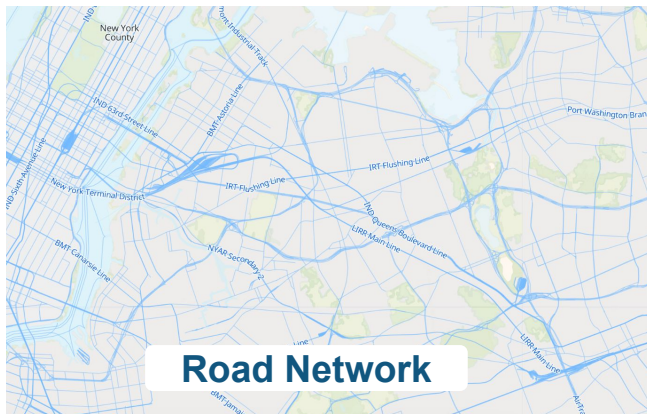
More than 200 geo datasets

Data Providers

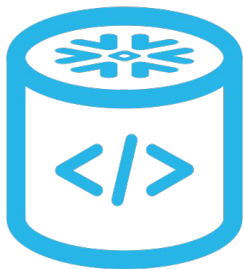
CARTO, Mapbox, Precisely, Sonra, Safegraph, Foursquare, Lifesight, PredictHQ, MetOffice, Ordnance Survey etc.

Overture Maps Datasets

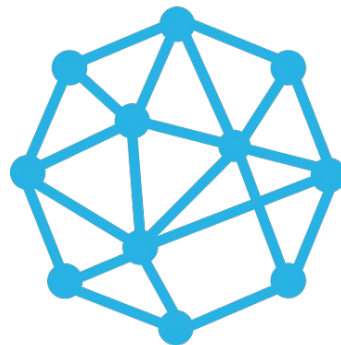
- Divisions (administrative areas)
- Buildings
- Road Network
- POIs
- Addresses



SNOWFLAKE FOR GEO APP BUILDERS



Build Apps
using Snowflake Native Apps
and Snowpark Containers



Distribute and Monetize
on Snowflake Marketplace

SedonaSnow From Wherobots

Works natively with Snowflake



Wherobots founded by the original creators of Apache Sedona.

Making solutions for geospatial *analysis & discovery* more accessible, scalable, and cloud-efficient.

SedonaSnow provides 130+ ST_ functions that extend core Snowflake offering.



Example: "Identifying areas served by the nearest grocery store"

- Using `ST_VoronoiPolygons` SedonaSnow Spatial SQL function



We are about to hit an Iceberg

Future is Open – with open data formats



Both geo types:

- GEOMETRY
- GEOGRAPHY



Geospatial Support

Geography Type

- Store and analyze POINTs, LINESTRINGs, POLYGONs
- Input/Output as GeoJSON, Well-Known Text (WKT), and Well-Known Binary (WKB)
- Spherical model of earth

OGC-Compliant Functions

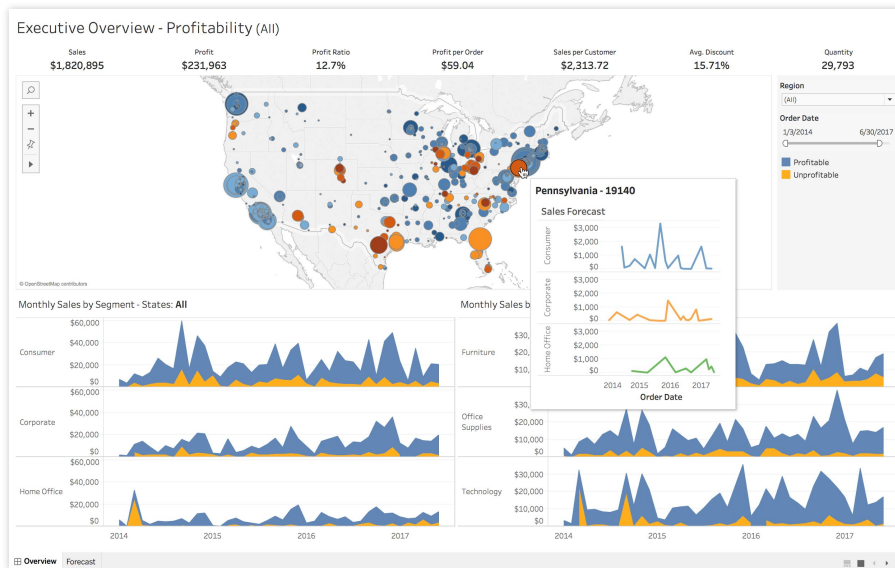
- CONTAINS, INTERSECTS, DISTANCE, DWITHIN, and more

Performance

- Pruning and joins on geospatial predicates (Q2)

Ecosystem

- Integrates with BI tools for visualization
- Works with spatial ETL tools for data integration



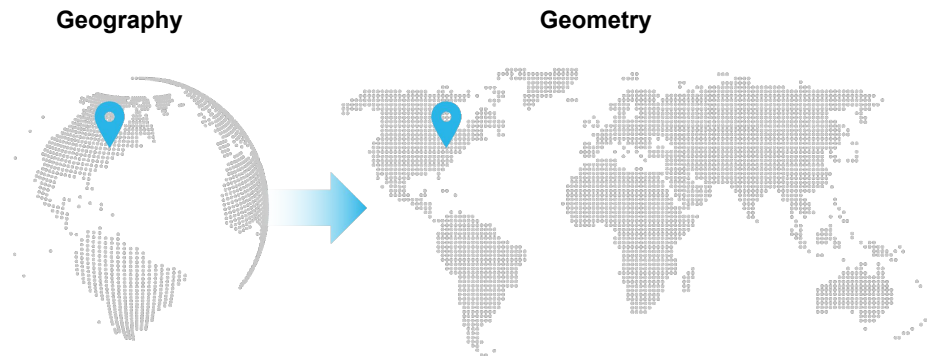
Geospatial Innovations

What is new?

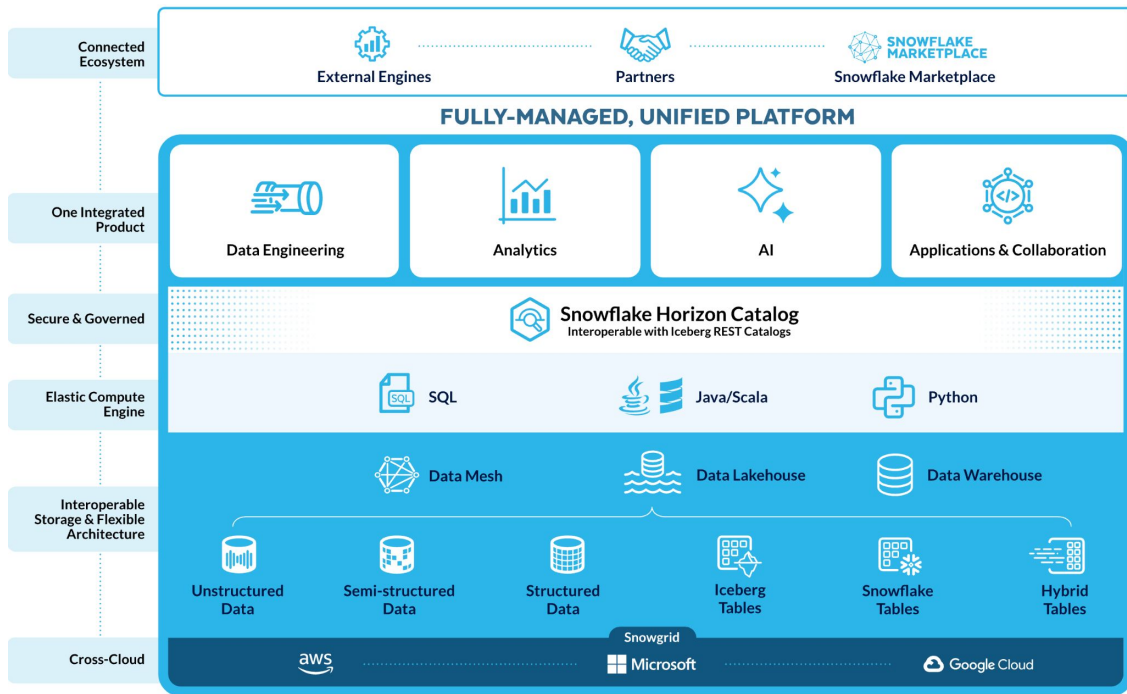
- The new **Geometry** Data Type supports multiple spatial reference systems
- Easily switch between spatial systems with **ST_Transformation**
- We are also announcing support for invalid shapes for both **Geometry** and **Geography** and new functions for the **Geography** data type

Value

Enable geospatial use cases in manufacturing, government, and infrastructure. Snowflake can now ingest any type of spatial vector object, allowing customers to process all types of vector geospatial data



Snowflake Platform Architecture



✓ **BRING AI TO YOUR DATA**
Reduce complexity and optimize across quality and cost

✓ **BUILT-IN GOVERNANCE**
Secures both data & AI models

✓ **SOLID DATA FOUNDATION**
Helps improve quality & reduce hallucinations

Native AI & Agents Inside Snowflake

Cortex Code

AI coding agent that generates and iterates on Snowflake-native code (SQL, Python, Streamlit, etc.) grounded in your data and environment.

