

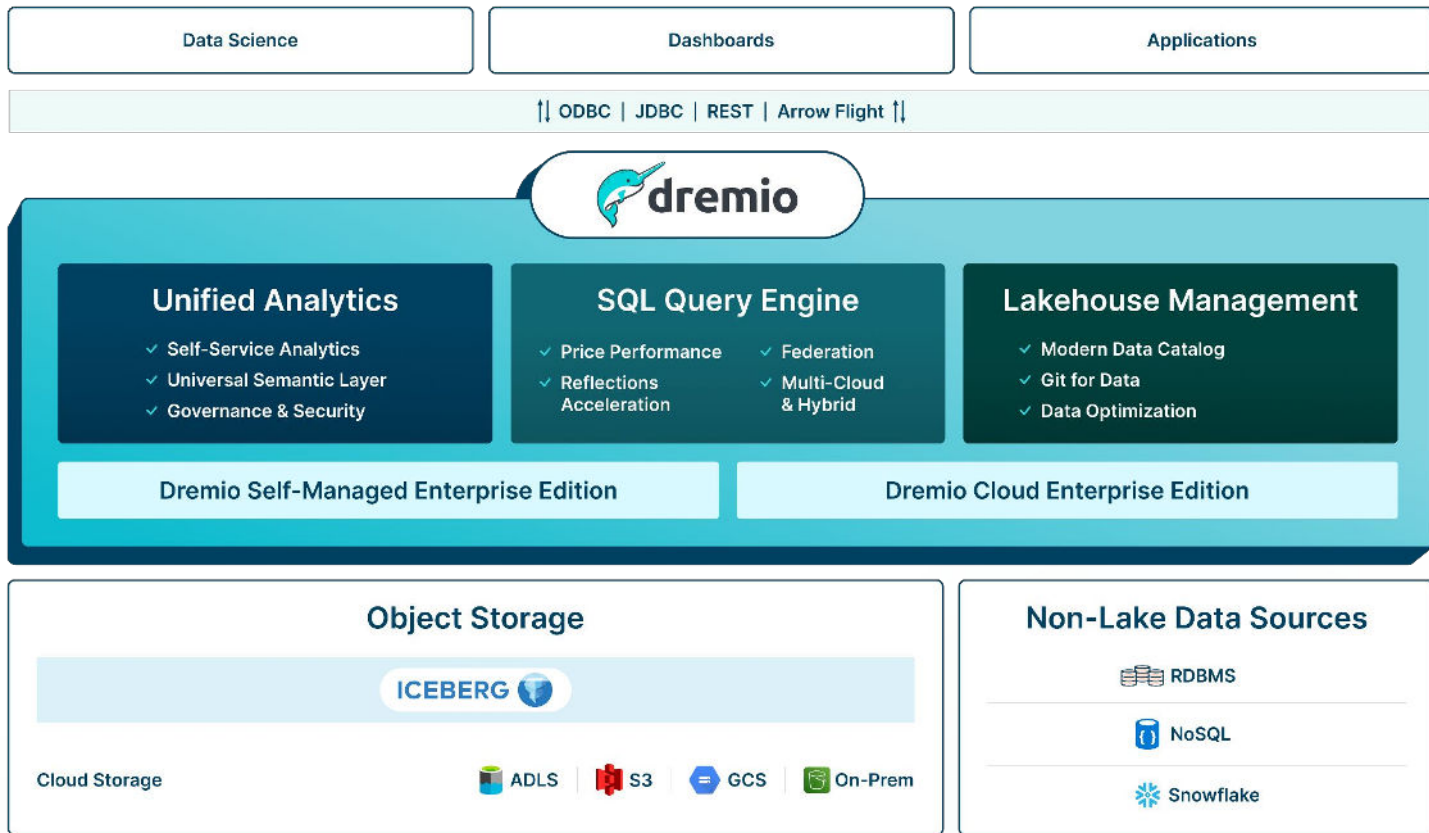
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EPISODE 50

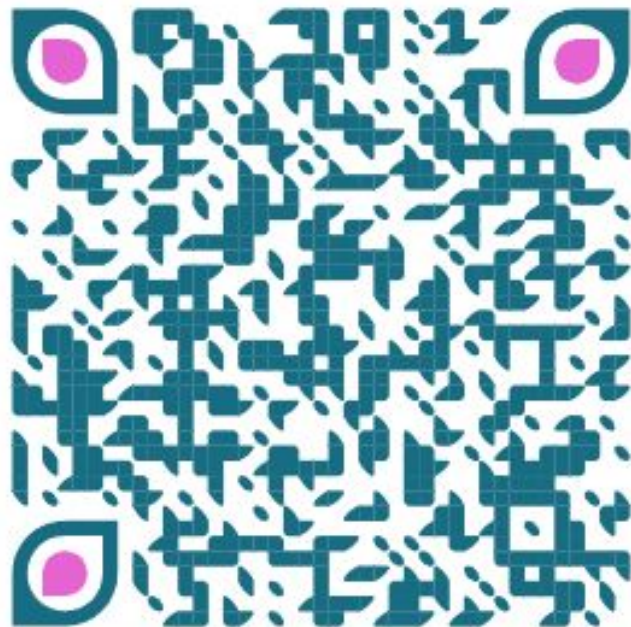
# How to Optimize your Analytics with Apache Iceberg, Dremio, Snowflake and the Data Lakehouse

# Unified Lakehouse Platform for Self-Service Analytics





**A Iceberg/Dremio Lakehouse on  
your laptop exercise**



**Deploy Dremio Software or  
Dremio Cloud**



Postgres -> Iceberg -> Dashboard



SQLServer -> Iceberg -> Dashboard



MongoDB -> Iceberg -> Dashboard

**[dremio.com/blog](https://dremio.com/blog)**

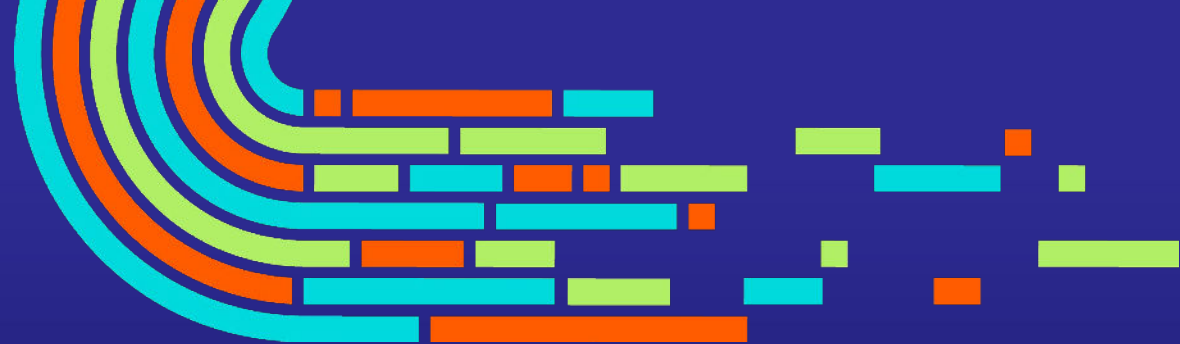


Unlock efficiency and savings on your analytics with Dremio when using Snowflake

# DREMIO + SNOWFLAKE: ICEBERG-CENTRIC ANALYTICS & AI

June 5th | 9:00am - 5:30pm

Dremio Chill Lounge @ 221 4th St, San Francisco, CA 94103



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EPISODE 50

# How to Optimize your Analytics Spend with Apache Iceberg, Dremio, Snowflake and the Data Lakehouse

# What's The Problem?

# Broken Pipelines that require tedious backfilling





# Angry Consumers from Late and Inconsistent Data

# Cost of these Movements

1. Storage Costs
2. Compute/Processing Cost
3. Network & Egress Costs
4. Lost productivity in time it takes for all pipelines to proliferate data
5. Regulatory fees from governance and security risks in too many copies
6. Data Model Drift from as data models may become inconsistent over several movement
7. Cost of Bad Insights from Inconsistent Data from Data Copy Sprawl

# Snowflake + Dremio Solution

## #1 - Dashboard Optimization

## Problem

Want to serve a dashboard that uses a lot of aggregate functions and GROUP BYs under the hood that can be expensive to run real-time as the board is accessed.

## Possible Solution

We can create a new table of the pre-computed results using Snowflakes GROUP BY CUBE or GROUP BY ROLLUP to materialize a new table.

The creates a new namespace and you'll have to rebuild this materialization when the data changes.

## Possible Solution

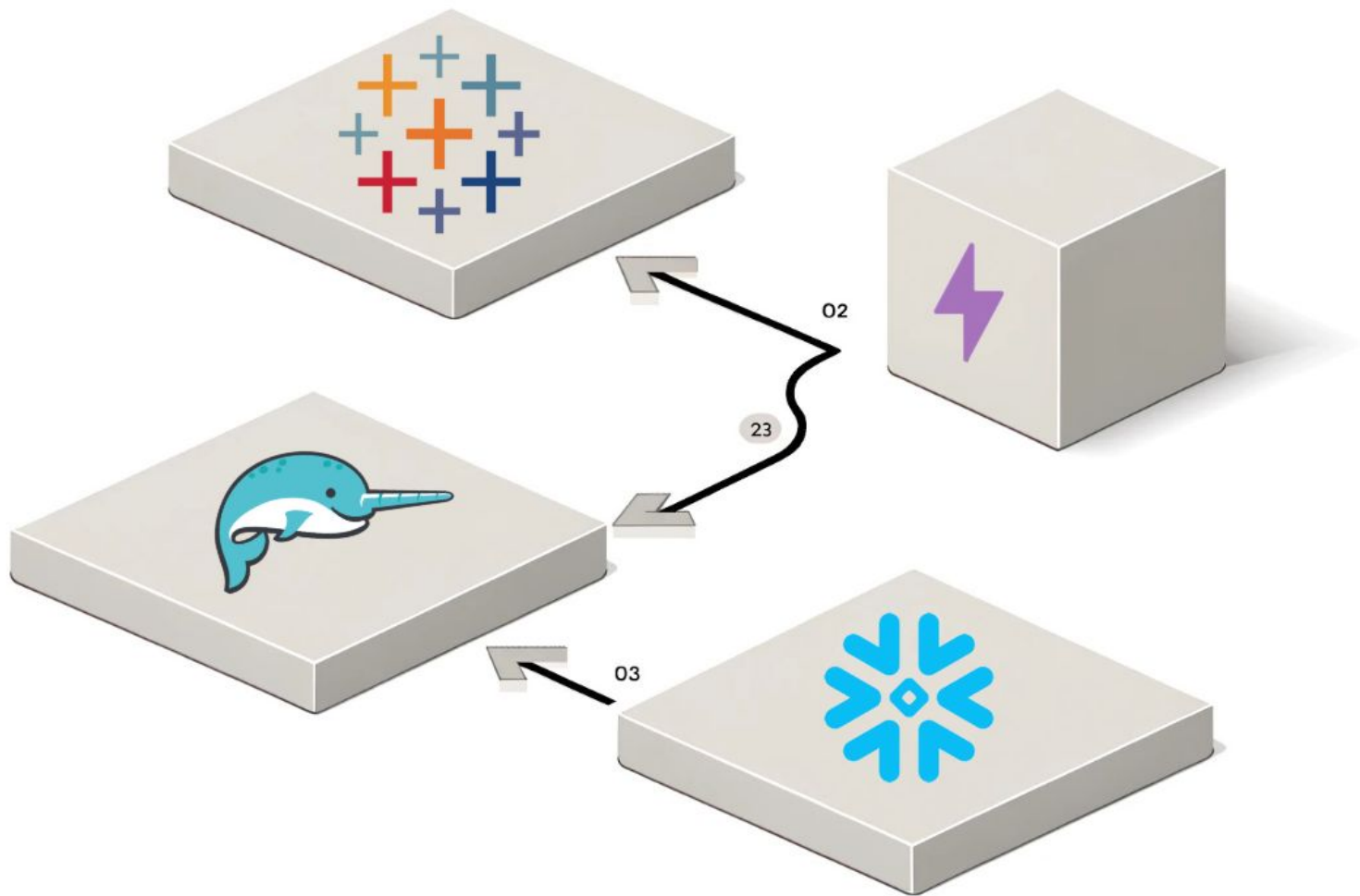
We can possibly use Snowflakes Dynamic Tables which will automatically update the result set periodically.

Better but still creates a new namespace and has limitation regarding joins and window functions that may not work for some use cases.

## Possible Solution

Connect Dremio to your Snowflake account and create an aggregation reflection on the dataset. Serve the BI dashboard from live queries on Dremio

Reduce costs, no new namespace, automatically updates and works for all joins.



# Snowflake + Dremio Solution

## #2 - Data Unification

## Problem

You have your own data in Snowflake you want to join with data you have elsewhere in a database, data lake or other data warehouse.

## Possible Solution

You can copy the data into a table on Snowflake.

You will have to create a data pipeline to regularly ingest the data that can break, be expensive and possibly result in consistency issues.

## Possible Solution

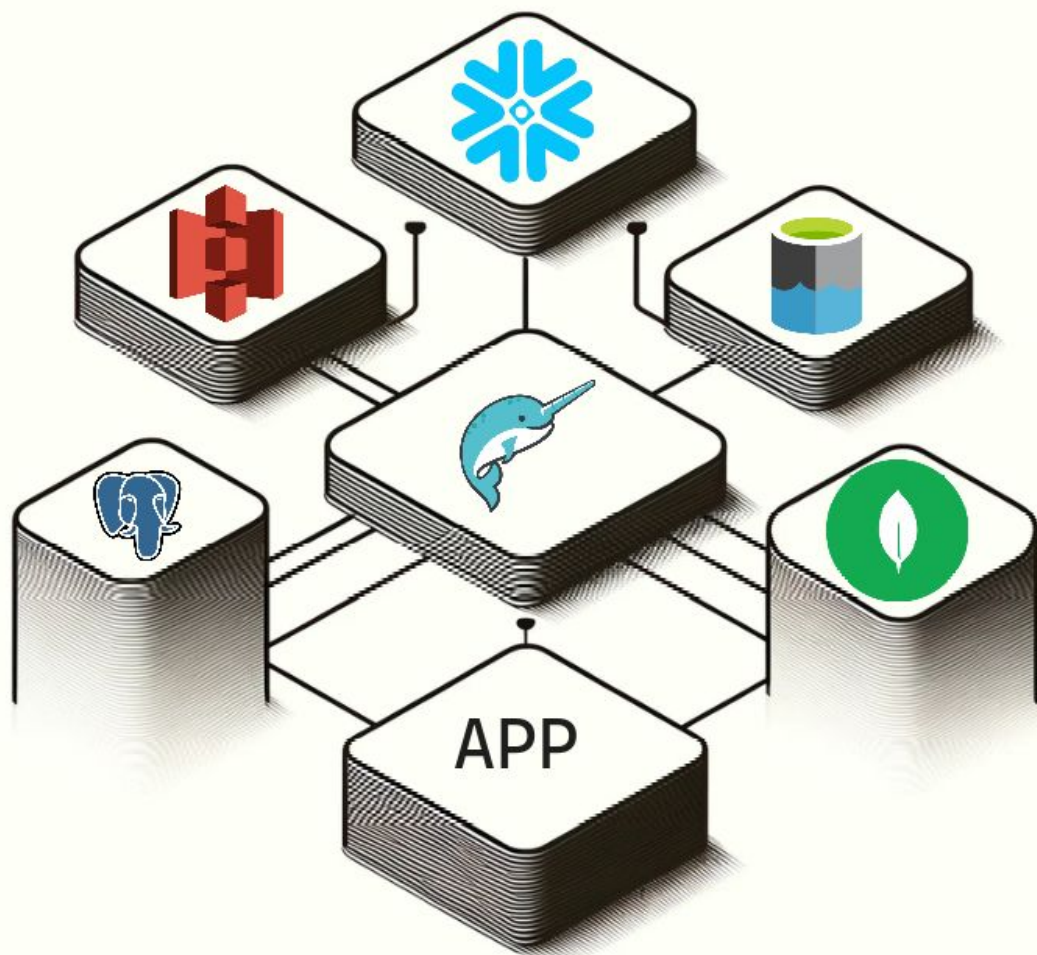
You can connect your Snowflake account and the other source to Dremio and join them from Dremio without the need to move data.

Can result in some egress expenses, turn on reflections on these sources and the egress costs go away too!



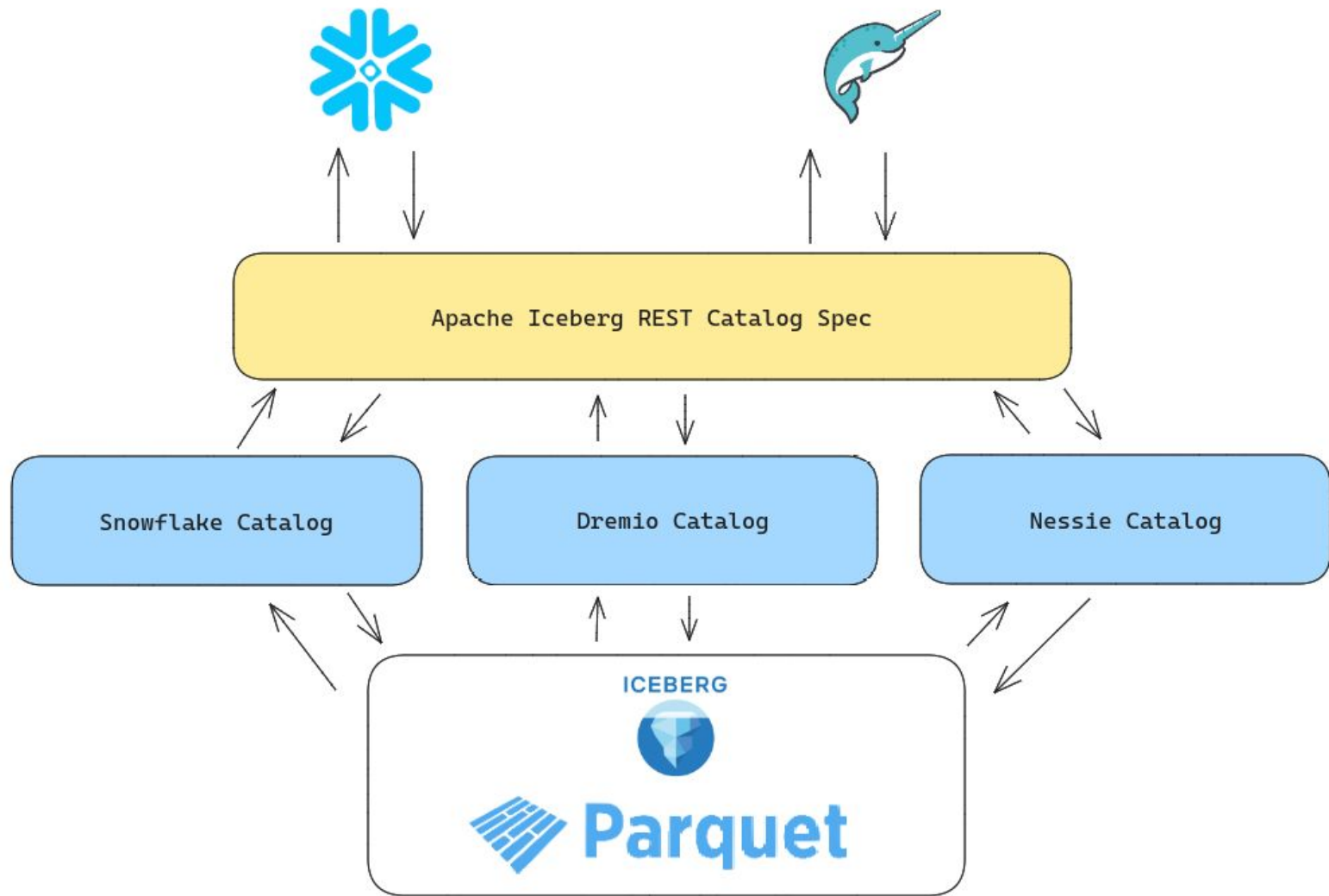
# Snowflake + Dremio Solution

## #3 - Simplifying Ingestion



## Snowflake + Dremio Solution

### #4 - Single Source of Truth (future looking)





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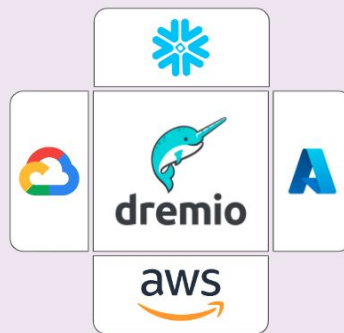
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Unifying Snowflake, Azure, AWS and Google Based

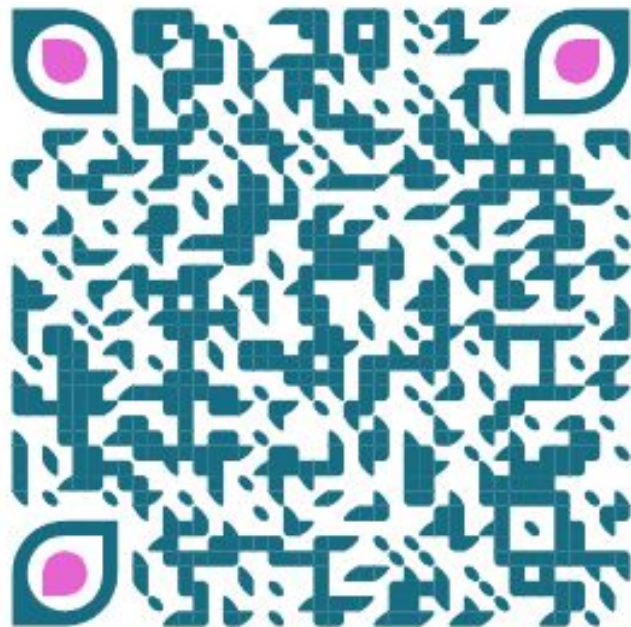
## Data Marketplaces and Data Sharing with Dremio

**Dremio Blog**





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