Nick Akincilar - 03/20/2024

GA Feature

Private/Public Preview Feature

Table Selection

Is there a requirement to store the data in an opensource format and be accessible directyl from other 3rd patrty query engines w/o using Snowflake?

Does the data need to be queried by other Query Engine directly?

You will be responsible for securing & keeping access audits for all the data files & folders in your own cloud storage via cloud provider security rules & services where additonal administration & costs may occur..

You may also incur egress & S3/ADLS Access API fees for queries executed by engines running outsidfe of the storage region

Willing to Own the Responsibility of securing data files?

Excpected Query Performance

Basic   **Good**   **Best**   **Best**

3rd Party Engine (Spark & others) perform all DDL & DML (Inserts, deletes & updates) ops where the table is read-only for Snowflake

Snowflake performs all DDL & DML (Inserts, deletes & updates) where Snowflake can read & write to this table

Temporary 500GB of storage limit per account during preview stage but will be increased when GA

OLTP use case? fast(<100ms)read & writes

Yes → **Hybrid Tables**

No

External Tables   **Externally Managed Iceberg Tables**   **Snowflake Managed Iceberg Tables**   **Standard Internal Tables**   **Hybrid Tables**

Snowflake internal tables typically have better compression than Snappy Parquet used by Iceberg or External Tables hence may result in cheaper storage costs for most. (Cost savings may not be the case for all if customer is getting large discounts from CDPs on Storage)

Hybrid tables are row store and use a more expensive storage medium for faster query times hence would be the most expensive option.

Type	Persistance	Access	TimeTravel	Fail-Safe
Temp	duration of session	only by session user	0-1 days	0
Transient	Permanent- until dropped	by anyone with RBAC access	0-1 days	0
Permanent (Standard)	Permanent- until dropped	by anyone with RBAC access	0-1 days	7 days
Permanent (Enterprise or higher)	Permanent- until dropped	by anyone with RBAC access	0-90 days	7 days

Permanent   **Transient**   **Temp**

Storage Costs $$ - $$$

Storage Costs $$

Storage Costs $

Storage Costs $$$$