## snowflake TABLE SELECTION DECISION TREE - 03/14/2024 - v1.1

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 additional administration & costs may occur.. You may also incur egress & S3/ADLS Access API fees for queries executed by engines Willing to Own the running outsidfe of the storage region Responsibility of securing data Excpected Query Performance Best Best Temporary 500GB of storage limit per account during 3rd Party Engine (Spark increased when GA DDL & DML (Inserts. deletes & updates) ops OLTP use case? ast(<100ms )read & where the table is Snowflake performs all read-only for Snowflake DDL & DML (Inserts, writes deletes & updates) where Snowflake can read & write to this table TimeTravel Fail-Safe only by session duration of session 0-1 days 0 user Permanent- until by anyone with 0-1 days Transient 0 Snowflake internal tables typically have better Externally Managed Snowflake Managed Standard Internal dropped RBAC access compression than Snappy Parquet used by Iceberg or **External Tables Hybrid Tables Tables** Iceberg Tables Iceberg Tables by anyone with External Tables hence may result in cheaper storage costs for most. (Cost savings may not be the case for all 7 days 0-1 days (Standard) dropped RBAC access if customer is getting large discounts from CDPs on Permanent Permanent- until by anyone with 0-90 days RBAC access (Enterprise or higher dropped Hybrid tables are row store and use a more expensive storage medium for faster query times hence would be the most expensive option. Permanent Transient Temp Dynamic **Storage Costs** Storage Costs Storage Costs **Storage Costs** \$\$ - \$\$\$ \$\$ \$ \$\$\$\$