

## **Snowflake Metadata Share Guide**



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# **Document Version Record**

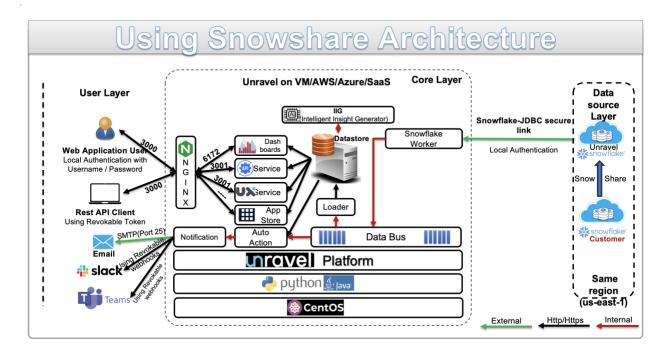
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02-May-23	1.0	Dev Team	New Document

### Objectives 1.

Health check download for snowflake unravel product.

#### 2. Architecture





#### 3. Pre-requisite

## A. Snowflake account Access through snowshare

- i. Create a unravel user in snowflake.
- Grant select for unravel user on schema ii. SNOWFLAKE.ACCOUNT\_USAGE.
- Create a database unraveldb and a schema unravelschema to create a stored procedure required for metadata collection from account\_usage, information schema & Profile and store in local schema.
- Execute procedure to create tables and serverless task to populate the metadata from the account metadata.
- Need to have Snowshare access to share the local schema to unravel snowflake account, Execute the snowshare script to give access to "Unravel Snowflake account".
- Based on the latency required the serverless/warehouse task will cost.

#### Share Snowflake Metadata with Snowflake secure share. 4.



4.1. Execute below statement to create the procedure and necessary functions.

```
https://github.com/unraveldata-org/snowflake-data-
loader/blob/ba204fad9def3de7ded263a59d462f669be5346c/script/replication/replication a
uery.sql
```

4.2. One time execution for POV for 2 days

```
CALL CREATE TABLES('UNRAVEL SHARE', 'SCHEMA 4823 T');
CALL REPLICATE_ACCOUNT_USAGE('UNRAVEL_SHARE','SCHEMA_4823_T',2);
CALL WAREHOUSE_PROC('UNRAVEL_SHARE','SCHEMA_4823_T');
CALL REPLICATE_REALTIME_QUERY('UNRAVEL_SHARE','SCHEMA_4823_T',10);
CALL CREATE QUERY PROFILE(dbname => 'UNRAVEL SHARE', schemaname => 'SCHEMA 4823 T', cost
=> '1', days => '2');
```

4.3. One time execution for health check for 7 days

```
CALL CREATE_TABLES('UNRAVEL_SHARE','SCHEMA_4823_T');
CALL REPLICATE_ACCOUNT_USAGE('UNRAVEL_SHARE','SCHEMA_4823_T',7);
CALL WAREHOUSE PROC('UNRAVEL SHARE', 'SCHEMA 4823 T');
CALL REPLICATE REALTIME QUERY('UNRAVEL_SHARE', 'SCHEMA_4823_T',10);
CALL CREATE QUERY PROFILE(dbname => 'UNRAVEL SHARE', schemaname => 'SCHEMA 4823 T', cost
=> '1', days => '7');
```

- 4.4. To continue execution on certain interval this is created as tasks for POV not required for health check.
  - 1. Based on requirement schedule time / lookbackdays /cost can be changed.

```
-- create account usage tables Task
CREATE OR REPLACE TASK replicate metadata
WAREHOUSE = UNRAVELDATA
SCHEDULE = '60 MINUTE'
CALL REPLICATE ACCOUNT USAGE('UNRAVEL SHARE','SCHEMA 4823 T',2);
-- create warehouse replicate Task
CREATE OR REPLACE TASK createWarehouseTable
WAREHOUSE = UNRAVELDATA
SCHEDULE = '60 MINUTE'
AS
```



CALL warehouse proc('UNRAVEL SHARE','SCHEMA 4823 T');

-- create profile replicate task

CREATE OR REPLACE TASK createProfileTable

WAREHOUSE = UNRAVELDATA

SCHEDULE = '60 MINUTE'

CALL create\_query\_profile(dbname => 'UNRAVEL\_SHARE',schemaname => 'SCHEMA\_4823\_T', cost => '1', days => '1');

-- create Task for replicating information schema query history

CREATE OR REPLACE TASK replicate\_realtime\_query

WAREHOUSE = UNRAVELDATA

SCHEDULE = '30 MINUTE'

CALL REPLICATE REALTIME QUERY('UNRAVEL SHARE', 'SCHEMA 4823 T',10);

-- START ALL THE TASKS

ALTER TASK replicate metadata RESUME;

ALTER TASK createWarehouseTable RESUME;

ALTER TASK createProfileTable RESUME;

ALTER TASK replicate\_realtime\_query RESUME;

#### 5 Share the Transient tables to unravel account.

From SQL (Recommended):

### -- Share tables

Create share RICOH UNRAVEL SHARE;

Grant Usage on database UNRAVEL SHARE to share RICOH UNRAVEL SHARE;

Grant Usage on schema SCHEMA\_4823\_T to share RICOH\_UNRAVEL\_SHARE;

GRANT SELECT ON TABLE WAREHOUSE METERING HISTORY to share

RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE WAREHOUSE EVENTS HISTORY to share

RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE WAREHOUSE LOAD HISTORY to share

RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE TABLES to share RICOH\_UNRAVEL\_SHARE;

GRANT SELECT ON TABLE METERING DAILY HISTORY to share

RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE METERING HISTORY to share

RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE DATABASE\_REPLICATION\_USAGE\_HISTORY to share

RICOH UNRAVEL SHARE;



GRANT SELECT ON TABLE REPLICATION GROUP USAGE HISTORY to share RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE DATABASE STORAGE USAGE HISTORY to share RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE STAGE\_STORAGE\_USAGE\_HISTORY to share

RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE SEARCH OPTIMIZATION HISTORY to share

RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE DATA TRANSFER HISTORY to share

RICOH\_UNRAVEL\_SHARE;

GRANT SELECT ON TABLE AUTOMATIC CLUSTERING HISTORY to share

RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE SNOWPIPE\_STREAMING\_FILE\_MIGRATION\_HISTORY to share RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE TAG REFERENCES to share RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE QUERY HISTORY to share RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE ACCESS HISTORY to share RICOH UNRAVEL SHARE;

GRANT SELECT ON TABLE IS QUERY HISTORY to share RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE WAREHOUSE PARAMETERS to share

RICOH UNRAVEL SHARE:

GRANT SELECT ON TABLE WAREHOUSES to share RICOH UNRAVEL SHARE: GRANT SELECT ON TABLE QUERY PROFILE to share RICOH UNRAVEL SHARE; alter share RICOH UNRAVEL SHARE add accounts = HFB47355;

Receive the data in recipient account (Sql mode).

--Validate that the inbound share is available to the consumer account. Show shares like '%UNRAVEL%';

Use role AccountAdmin; create database RICOH SHARE from share FWTTICE.PRIMARY PG.RICOH UNRAVEL SHARE;

7. Share the Transient tables to unravel account (UI Mode).

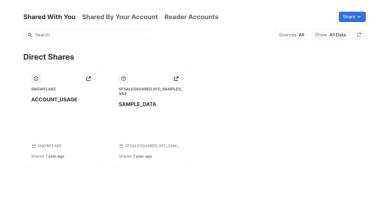
Sharing through UI:

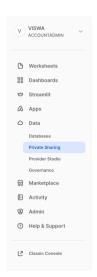
E.g. URL: https://app.snowflake.com/fwttice/primary\_pg/#/data/shared/outbound

Replace your account in above URL instead of "fwttice"



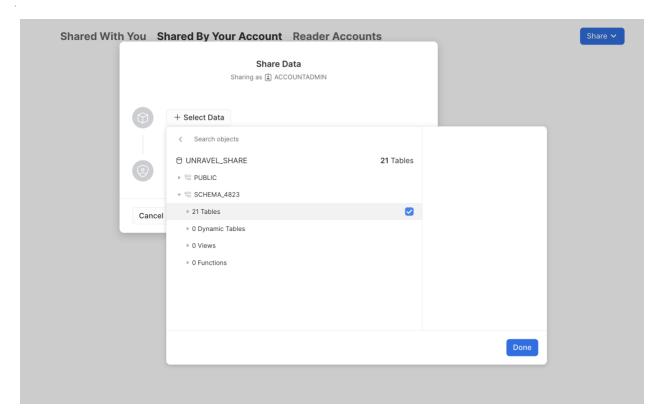


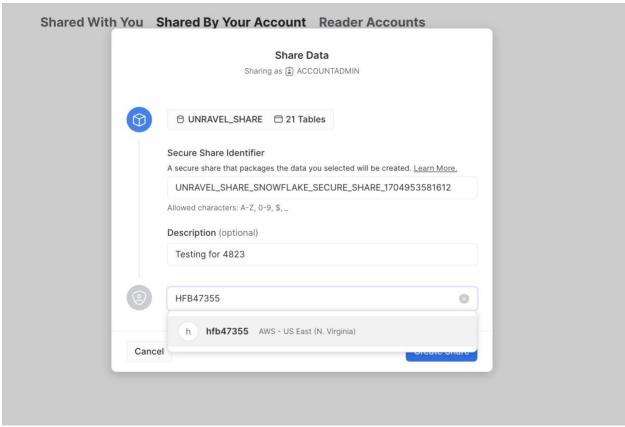




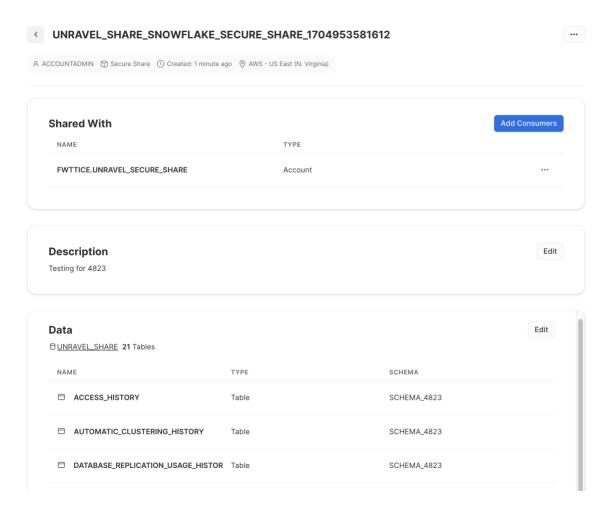










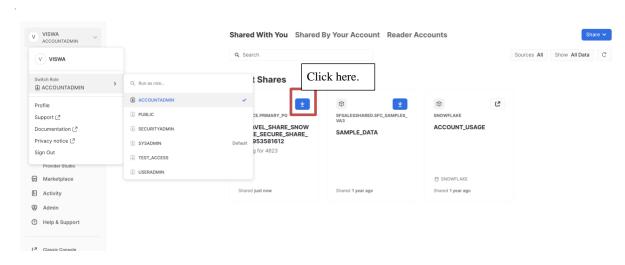


Now the tables are shared to HFB47355 Account

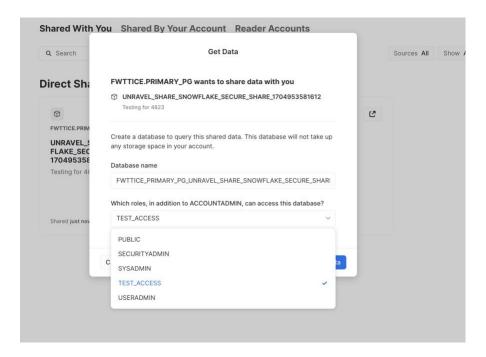
## 8. Receive the data in recipient account ui mode.

Login as account admin.

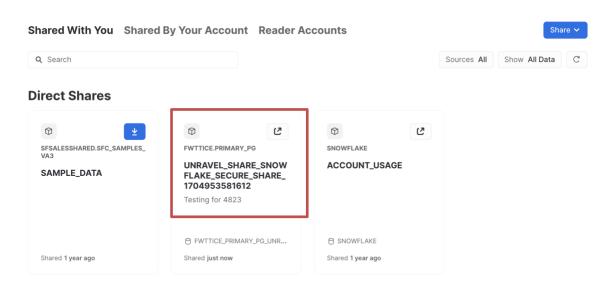




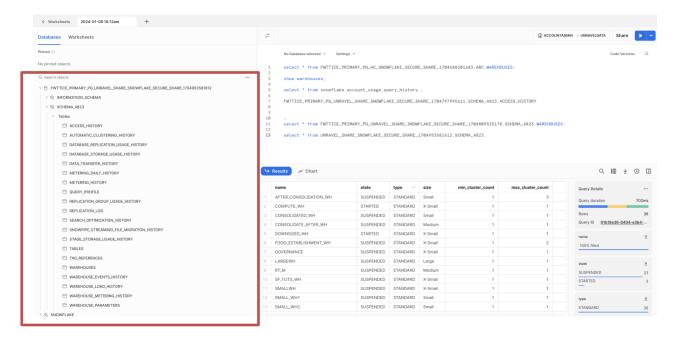
## Select the role.







Now data is available in recipient account.



#### 9. Configure recipient account in unravel.

Show shares like '%UNRAVEL%';

Use role AccountAdmin;



create database RICOH\_SHARE from share FWTTICE.PRIMARY\_PG.RICOH\_UNRAVEL\_SHARE;

Database: RICOH\_SHARE

Other configurations are same.