

CRYPTO REAL-TIME ETL

This file is only for show up purpose. Below You can see some parts of the real-time snowflake workflow. Final output is built of 3 tables – 1 fact table ‘FACT_COIN’ and 2 related dimension tables – ‘DIM_MARKET’ and ‘DIM_COIN_DETAILS’

- Airflow

DAGs

Filter DAGs by tag Search DAGs Auto-refresh

DAG	Owner	Runs	Schedule	Last Run	Next Run	Recent Tasks	Actions	Links
my_coin_dag	admin	(140) 39	*5 *****	2024-04-03, 17:30:00	2024-04-03, 17:35:00			

Showing 1-1 of 1 DAGs

- Azure Blob Storage – CoinPaprika container

+ Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
coin_paprika_data_2024-04-03 17:50:04.532808.json	4/3/2024, 7:50:08 PM	Hot (Inferred)		Block blob	1.45 MiB

- Snowflake – External stage, linked to SnowPipe

Search

CRYPTO / RAW / RAW_COIN_STAGE

External Stage ACCOUNTADMIN 5 days ago

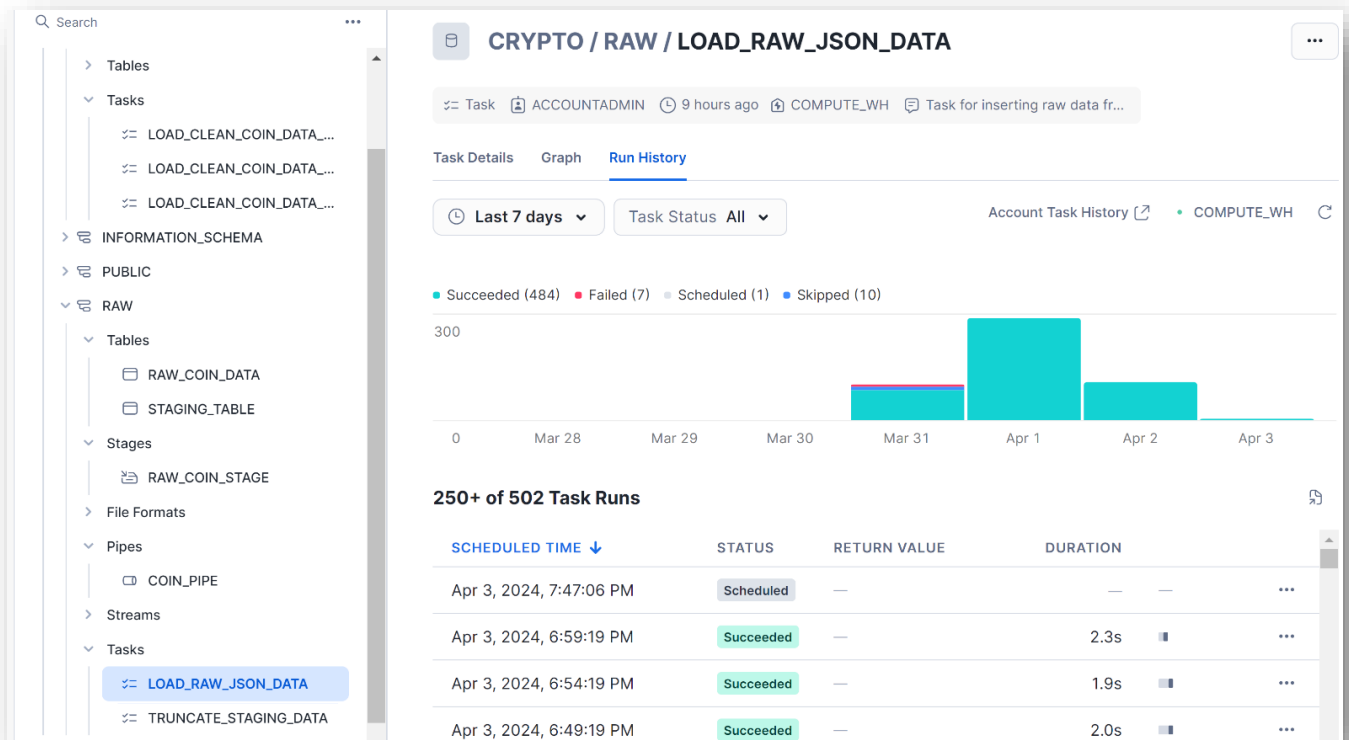
Stage Files Stage Details

RAW_COIN_STAGE (1 File)

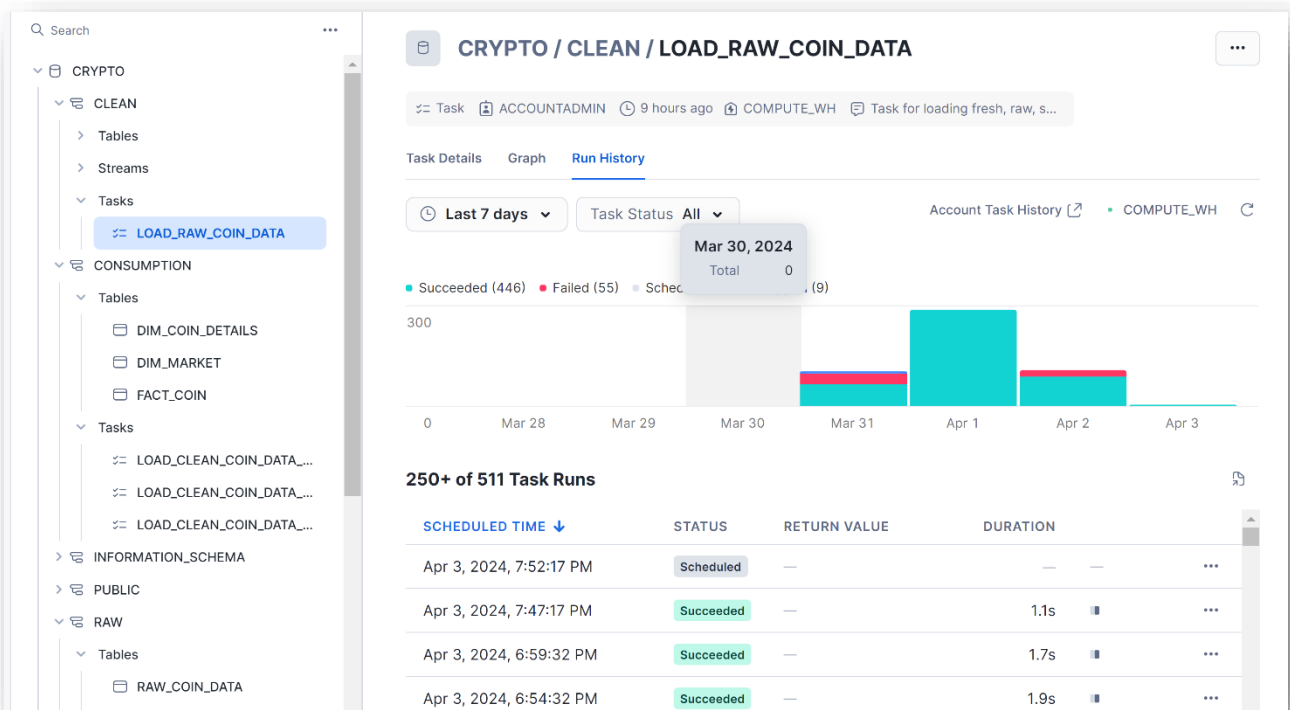
Search COMPUTE_WH

NAME	SIZE	LAST MODIFIED
coin_paprika_data_2024-04-03 17:45:04.172635.json	1.4MB	22 seconds ago

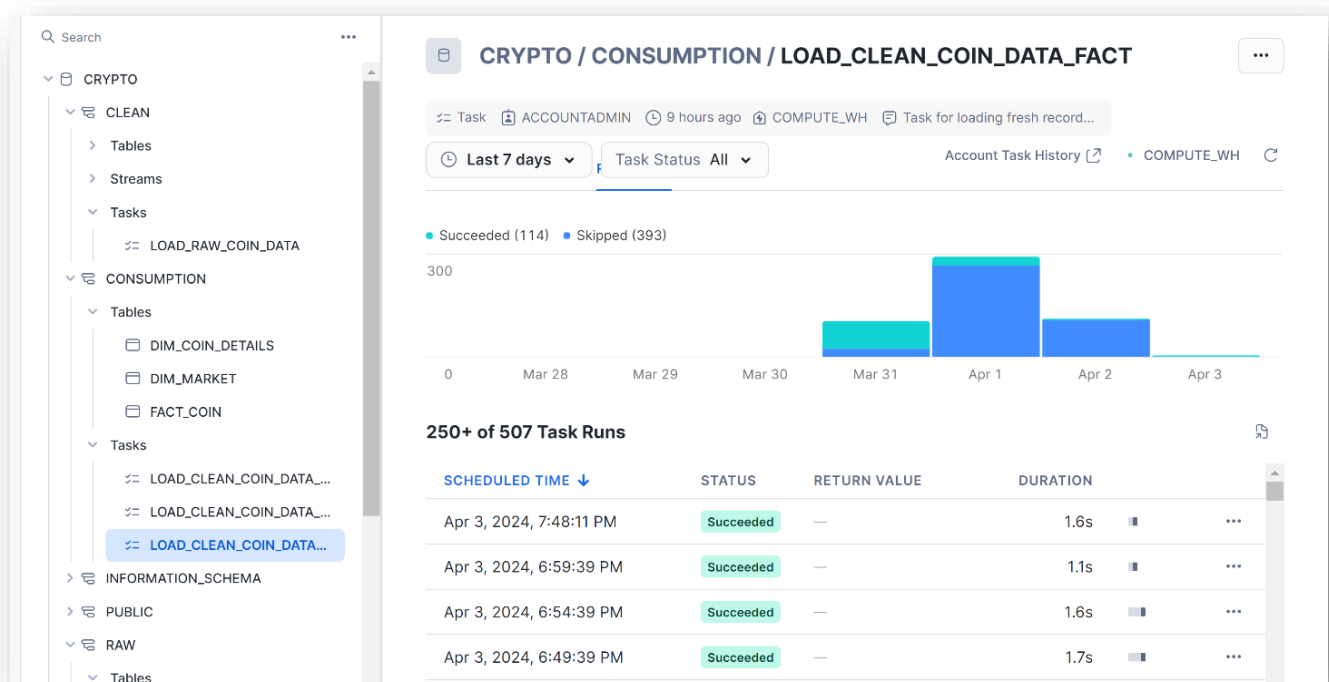
- Snowflake – raw, flattened data loading to RAW_COIN_DATA table



- Snowflake – loading structured data to CLEAN_COIN_DATA table – transformed from RAW_COIN_DATA table



- Snowflake – final cleaned data insertion to FACT table (and afterwards to DIM tables)



- Snowflake – final tables – FACT_COIN

The screenshot shows the Snowflake interface for a table named 'CRYPTO / CONSUMPTION / FACT_COIN'. The table is displayed in 'Data Preview' mode, showing a list of cryptocurrencies and their corresponding prices.

Table Details:

- Table: CRYPTO / CONSUMPTION / FACT_COIN
- Account: ACCOUNTADMIN
- Warehouse: COMPUTE_WH
- Size: 2K
- Updated: 3 days ago
- Load Data: [Button]

Table Data:

ID	RANK	PRICE_USD
1 BTC	1	65978.675904777
2 ETH	2	3319.744920254
3 USDT	3	1.000948667
4 SOL	4	188.05394103
5 BNB	5	553.888538506
6 USDC	6	1.000283726
7 XRP	7	0.5790192507
8 STETH	8	3313.530818945
9 DOGE	9	0.1763833004
10 ADA	10	0.5778395104
11 AVAX	11	45.958905027

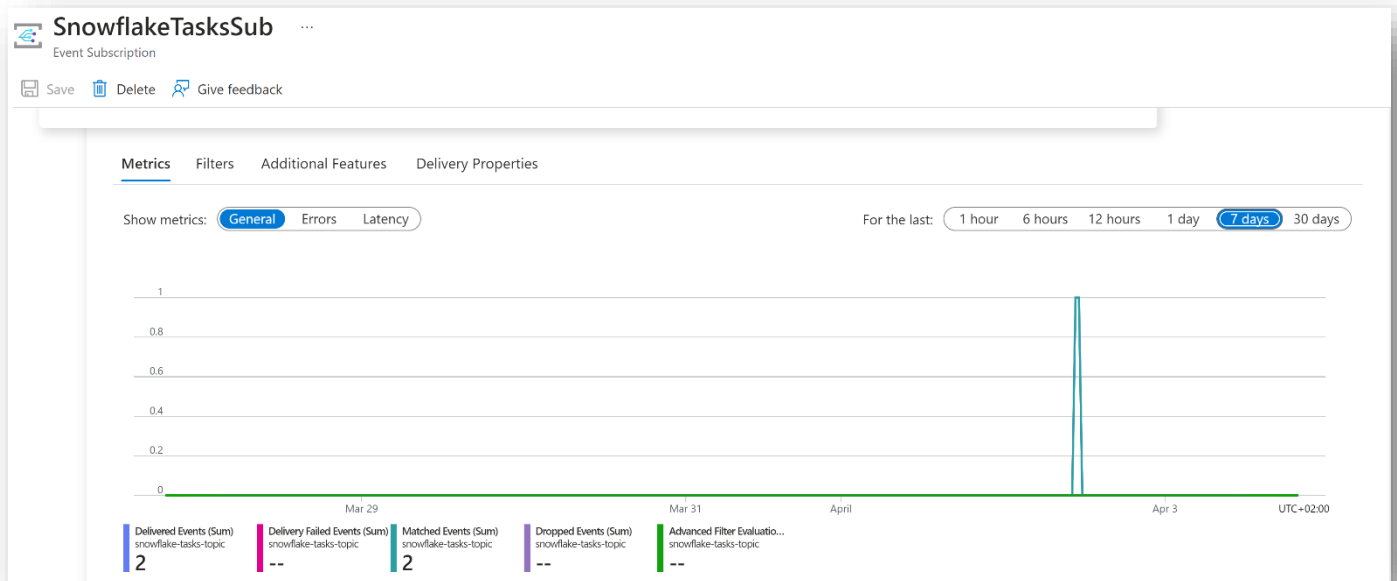
- Snowflake – final tables – DIM_MARKET

CRYPTO / CONSUMPTION / DIM_MARKET							...	Load Data
Table ACCOUNTADMIN 3 days ago 2K 192.0KB								
Table Details Columns Data Preview Copy History								
COMPUTE_WH 100 of 2K Rows • Updated just now							C	
	ID	ATH_PRICE_USD	VOLUME_24H	VOLUME_24H_CHANGE_24H	MARKET_CAP	MARKET_CAP_CHANGE_24H		
1	BTC	73686.928561653	32182745554.4929	-10.65	1297953955468	0.52		
2	ETH	4864.113196614	15240414914.0838	-22.87	398599408917	1.48		
3	USDT	1.21549	68815191439.1374	-13.39	105380604640	0.58		
4	SOL	259.704602081	4632046437.05427	4.84	83649690308	1.95		
5	BNB	690.56767219	1674957661.52579	-24.06	82826013397	-0.21		
6	USDC	1.90619801	7080638583.99302	-26.34	33002979329	0.72		
7	XRP	3.84194	1617435119.05396	-27.04	31812707353	-2.21		
8	STETH	4824.292564202	84482675.4178361	-38.13	31626385898	1.16		
9	DOGE	0.75287027	3265557238.66431	-16.94	24055252652	-5.31		
10	ADA	3.095027897	558028408.34315	-20.52	20567728667	-1.35		
11	AVAX	145.665216383	605020621.970952	-31.34	17359049271	-2.82		

- Snowflake – final tables – DIM_COIN_DETAILS

CRYPTO / CONSUMPTION / DIM_COIN_DETAILS							...	Load Data
Table ACCOUNTADMIN 3 days ago 2K 83.5KB								
Table Details Columns Data Preview Copy History								
COMPUTE_WH 100 of 2K Rows • Updated just now							C	
	ID	NAME	TOTAL_SUPPLY	MAX_SUPPLY	BETA_VALUE	RELEASE_DATE		
1	BTC	Bitcoin	19672312	21000000	-0.00000151715	2010-07-17 00:00:00	20	
2	ETH	Ethereum	120069288	0	0.000000490659	2015-08-07 00:00:00	20	
3	USDT	Tether	110703390119	0	0.000000192152	2015-02-25 00:00:00	20	
4	SOL	Solana	573200209	0	-0.0000180431	2020-08-26 00:00:00	20	
5	BNB	Binance Coin	148930232	200000000	-0.00000232073	2017-07-25 00:00:00	20	
6	USDC	USDC	32969386106	0	0.0000000853883	2018-10-09 00:00:00	20	
7	XRP	XRP	99987738355	100000000000	0.0000196792	2013-08-04 00:00:00	20	
8	STETH	Lido Staked Ether	9544618	0	0.000000108509	2021-08-12 00:00:00	20	
9	DOGE	Dogecoin	136380556384	0	-0.00000644417	2013-12-15 00:00:00	20	
10	ADA	Cardano	36756839750	45000000000	0.0000118901	2017-10-01 00:00:00	20	
11	AVAX	Avalanche	436397709	0	0.0000158678	2020-08-07 00:00:00	20	

- Azure Event Grid



- Snowflake Dashboard

