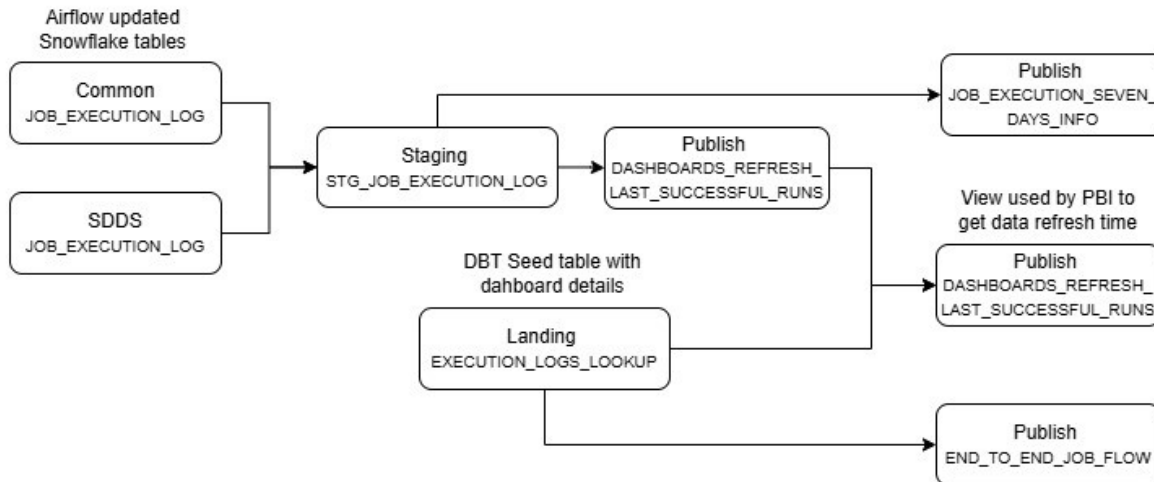


End to End Job details, Last Updated Data Refresh time in Dashboards and Last 7 days Airflow job status



The above process explained:

GCP - Airflow Job:

1. In GCP we have airflow job's, all the airflow job details are maintained in the Both Landing Table's as follows

- HRDP_LND_NP_DB.CMN_LND_SCH.JOB_EXECUTION_LOG* for common landing tables.
- CMN_LND_SCH.JOB_EXECUTION_LOG* for SDDS landing tables.

2. In DBT we are creating staging table on top of the above 2 landing tables by using union. We have all job-related information with updated timestamp in below staging table.

HRDP_STG_PD_DB.CMN_STG_SCH.STG_JOB_EXECUTION_LOG

DBT Job:

- DBT jobs are based on models situated in dbt folder, stored in git repo. DBT jobs are called by airflow through HTTP call by using DBT job Id's.

HRDP_LND_PD_DB.CMN_LND_SCH.EXECUTION_LOGS_LOOKUP

- DBT job Id's are manually added to the config file of airflow jobs and we maintain this relationship in the above-mentioned seed file.

3. The *HRDP_PUB_PD_DB.CMN_PUB_SCH.DASHBOARDS_REFRESH_LAST_SUCCESSFUL_RUNS* dimension table stores the last successful refresh time for each dashboard.

- To have a curated view of job execution history, for further analysis and reporting we have created a dimension name as below.

HRDP_PUB_PD_DB.CMN_PUB_SCH.JOB_EXECUTION_SEVEN_DAYS_INFO

- To get a overall view of the End To End Job Details. We have created a dimension name as below.

HRDP_PUB_PD_DB.CMN_PUB_SCH.END_TO_END_JOB_FLOW

Power BI Dashboards:

- PBI dashboards are using facts and dimensions in Snowflake Publish layer. Dashboards are based part of subject areas, themes which are maintained in a seed file manged by us.
- This view is designed to provide data for Power BI dashboards, specifically supplying information about the refresh date and time of the data. This allows dashboards to display when the underlying data was last updated, giving users context about the freshness of the information they are viewing.

HRDP_PUB_PD_DB.CMN_PUB_SCH.DASHBOARDS_REFRESH_LAST_SUCCESSFUL_RUNS_VW

Note: Currently we are only using *DASHBOARDS_REFRESH_LAST_SUCCESSFUL_RUNS_VW* in all PowerBi dashboards to provide the data refresh time.

Structure of the SEED file and Manging it

- Refer attached file to find the seed structure and data up to date till 4-01-2025.
- *POWER_BI_FACT_VIEW* column contains views used by Powerbi dashboards and *DBT_FACT_TABLE* contains the table created by the DBT job.
- This tables needs to be updated as we create new Airflow & DBT jobs and use the artifacts created by them in our Powerbi dashboards.

[2024-12-12 12_05pm.csv](#)