Azure DW for IOC Technical Specifications

Technical Specification Document

Prepared for

Mosaic

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Version Draft

*Prepared by*

Visual BI Solutions

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1. Document Information
   1. Purpose

The purpose of this document is to provide technical design details used to implement the Azure DW and Power BI Dataset for IOC

* 1. Audience

The primary audience for this document is technical teams such as architects and developers

* 1. Change Record

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change reference |
| 6/15/2020 | Clint Vallandingham | 0.1 | Initial draft |
| 7/14/2020 | Anaga Mani | 0.2 | Data Ingestion (Sprint 1b)-Initial design |
| 9/18/2020 | Gayathiri K | 0.3 | Replaced Initial design with Latest Control Flow |
| 9/21/2020 | Gayathiri & Anaga | 0.4 | Backend: Stored Procedure |
| 9/24/2020 | Gayathiri | 0.5 | Backend: Table, Views, and latest Naming Convention |
| 10/09/2020 | Gayathiri | 0.6 | Backend: Renaming of FactTable and Views added |
| 10/15/2020 | Gayathiri & Anaga | 0.7 | Backend: Table flow sequence and Stored Procedure revised |
| 10/20/2020 | Gayathiri | 0.8 | Replaced the Control Flow |
| 10/23/2020 | Sathya Narayana Karthikeshwar | 0.9 | Frontend: Power BI Report, AD Security, Table Fields and Design Specifications |
| 10/28/2020 | Anaga Mani | 1.0 | Added Data Structure to Excel, Database maintenance and Notes |
| 11/09/2020 | Gayathiri | 1.1 | Added Ingest query details, Production SQL Server details, URL for storage Accounts, BRD and S2T document link |
| 11/09/2020 | Anaga Mani | 1.2 | Included Backfill process and Triggers |
| 11/13/2020 | Clint Vallandingham | 1.3 | Updated the Solution Diagram in section 3 |
| 11/24/2020 | Jiwon Jeon | 1.4 | Added Event Hubs and Stream Analytics |
| 8/12/2020 | Sathya Narayana Karthikeshwar | 1.5 | Added Asset Utilization MDPR Details in Power BI Content |
|  |  |  |  |
|  |  |  |  |

* 1. Reviewers

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Version approved | Position | Date |
| Clint Vallandingham | 1.0 | Data Architect | 11/13/2020 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* 1. Definition of Terms

|  |  |
| --- | --- |
| Terminology | Descriptions |
| MIC | Mosaic Information Center |
| IOC | Integrated Operations Center |
|  |  |
|  |  |
|  |  |
|  |  |

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1. Scope Summary
   1. Overview

The goal of this project is to design and build an Azure based Data Warehouse platform as part of the Mosaic Information Center (MIC). The IOC represents an Integrated Operations Center that will utilize both batch and real-time data feeds from the Azure Data Warehouse. Power BI Dataset Definition for Final End Users.

* 1. Scope Summary

The scope for the Azure DW for IOC includes the initial setup and configure the Azure Data Services necessary to support the Data Warehouse. This includes Development, QA and Production environments as necessary to support the Azure DevOps Framework. Power Bi Design dataset creation and specifications.

The Business Requirements Document can be refered [here](https://mosaicco.sharepoint.com/sites/IOCIntegrationOperationsCenterImplementationProject/Shared%20Documents/Azure%20DW/Business%20Requirements/Azure%20DW%20Business%20Requirements%20.docx) , for further details on Source to Target, please refer [here.](https://mosaicco.sharepoint.com/sites/IOCIntegrationOperationsCenterImplementationProject/Shared%20Documents/Azure%20DW/Business%20Requirements/IOC%20-%20Source%20to%20Target%20Mapping.xlsx)

1. Technical Data Flow

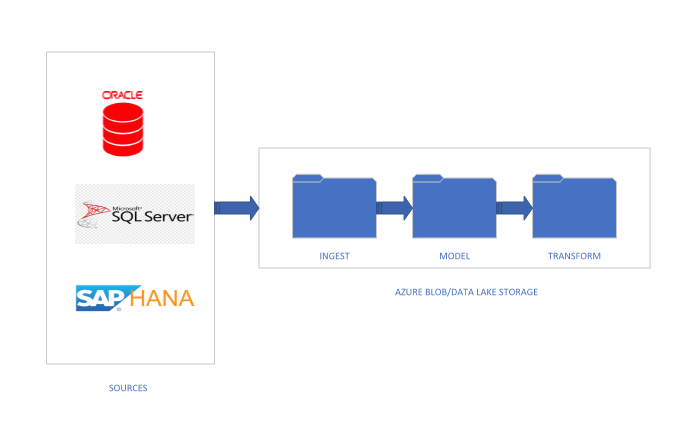


1. Azure Technical Design
   1. Overview

The design in Azure follows a multi-layered approach so as to fulfil the complete function. The data from the sources are copied into the Ingest in data lake through Azure Data Factory. The simple enhancements to these data like friendly name change are done and copied to the model layer in Data Lake. The transformations that are needed for the destined data in Azure SQL Database are done in the Enhance layer in data lake and they are finally pushed to the Azure SQL Database.

Data from PI source system leverages Apache NiFi (NiFi) for near-real time ingestion connector. NiFi accesses to the PI AF (Asset Framework) every 60 seconds and sends data to Azure Event Hub. Azure Event Hub connects to Azure Stream Analytics to query to populate hot path Push Dataset in Power BI. Azure Stream Analytics query also generates cold path csv files in ADLS Ingest container to archive historical information.

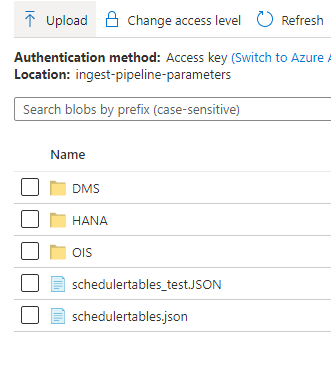
The flow in the orchestration is depicted in the below picture.



* 1. Azure Resources

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Purpose** |
| df-mic-d-01 | Data Factory | Orchestration Tool |
| stmicdatadev01 | Storage Account | To store target data |
| stmicconfigdev01 | Storage Account | Stores scheduler and Table config properties |
| evh-mic-d-01 | Event Hubs | To ingest real-time events |
| asa-mic-d-01 | Stream Analytics | To perform real-time analytics and processing |

* 1. Azure Storage Account

An Azure Storage/Data Lake Storage account contains all your Azure storage data objects: blobs, files, queues, tables and disks. The storage account provides a unique namespace for your Azure storage data that is accessible from anywhere in the world over HTTP or HTTPS. Data in your Azure Storage account is durable and highly available, secure and massively scalable.

Two different storage accounts are available, one is to store the list of tables and their properties in the form of table config files. And another one is to store data as Azure Target System.

stmicdatadev01 – Azure Target that stores the data date wise. Please click [here](https://portal.azure.com/#@mosaicco.onmicrosoft.com/resource/subscriptions/97ff60b8-a5a1-4a7e-8f68-fcd0a031371b/resourceGroups/rg-mic-d/providers/Microsoft.Storage/storageAccounts/stmicdatadev01/overview) to navigate .

stmicconfigdev01 – Stores list of tables and their properties. Please click [here](https://portal.azure.com/#@mosaicco.onmicrosoft.com/resource/subscriptions/97ff60b8-a5a1-4a7e-8f68-fcd0a031371b/resourceGroups/rg-mic-d/providers/Microsoft.Storage/storageAccounts/stmicconfigdev01/overview) to navigate.

* + 1. Configuration File

The purpose of configuration file is to reduce the number of objects in an orchestration, to support parallel execution and to make single point of input to the orchestration. This file will be in json format and have information regarding names and properties of objects in every layer of orchestration process. These details are stored in stmicconfigdev01 storage account. The configuration file will be available in storage account under ingest-pipeline-parameters container. There are two configuration files in this architecture.

**schedulertables**

This file contains list of tables and their runtime properties. The file is in Json format.

**File Path**: ingest-pipeline-parameters/schedulertables.json

Parameters to be configured:

{

            "dataSource": "<< datasource >>",

            "schema": "<< schema name >>",

            "table": "<< table name >>",

            "runTime": "<< data load runtime Eg: 8 PM EST set to 2000 >>",

            "Frequency": "Day"

}

**TableConfig**

TableConfig is a folder that contains JSON config file specific to each table. This file includes all the table properties.

**File Path**: ingest-pipeline-parameters/<< data source >>/<<schema name>>/<<TableName>>.json

{

    "Pipeline": [

        {

            "PipelineName": "<<Orchestration Pipeline Name>>",

            "inputValues": {

                "sourceTable": "<<source Table Nam>>",

                "sourceSchema": "<<source Schema Nam>>",",

                "ingestQuery": "<<select query to hit source>>",

                "dataSource": "<<data source>>",

                "isDeltaTable": "<<delta flag which determines table load type??",

                "deltaColumn": "<<delta column for delta load tables or empty string>>",

                "watermarkQuery": "<<select query to get max value of delta column"

            }

        }

    ]

}

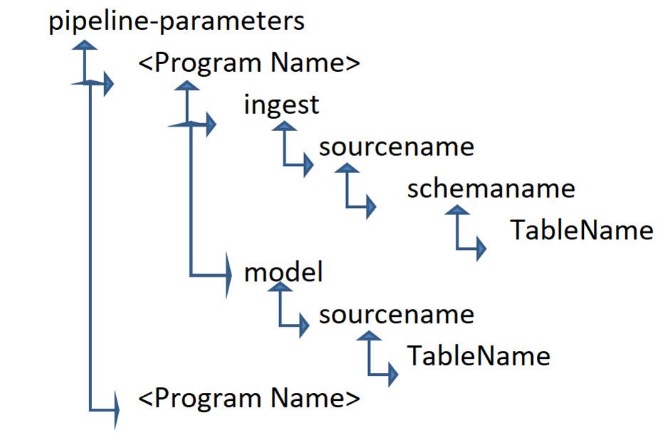
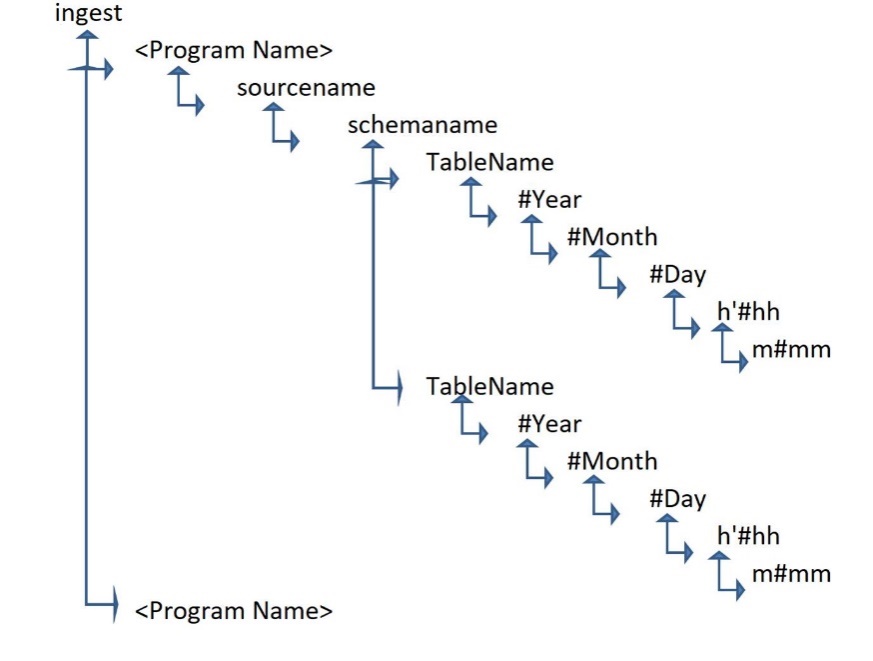
* + 1. Target Data File Structure

Target data are stored as Blobs in stmicdatadev01 storage account.

For all tables except for PIStreamingAnalytics, data will be stored in the following structure. PIStreamingAnalytics table stores near-real time data from the PI AF source system through Apache NiFi. Target data directly populates PI push dataset in Power BI and are stored in the Enhance layer in data lake to archive historical information.

**File Structure:**

data/ingest/<<data source>>/<<schema name>>/<<table name>> /YYYY/Mm/DD/h<<HH>>/TableName.csv



* 1. Azure Data Factory

Azure Data Factory is a manages cloud service that is built for complex data orchestration process and hybrid Extract-Transform-Load (ETL), Extract-Load-Transform (ELT) and data integration projects.

* + 1. Schedulers Description

Schedulers are used to schedule Orchestration pipelines by referring to schedulertables. json file and tableconfig files.

* + 1. Pipelines
       1. PipelineName: 04\_Scheduler-Table-Pipeline

|  |  |
| --- | --- |
| Pipeline Name | 04\_Scheduler-Table-Pipeline |
| Description | This is the first pipeline that kicksoff the entire flow |
| Pipeline Parameters | DataSource: DataSource Name (OIS/DMS/PI)  TableType: Pass table type, Default: [“Dim/Fact”]  TableName: Left empty by default to pick all the tables tagged under the source.  FullloadAllTable: Based on the load type pass Boolean value (True/False)  SchedulerFilePath: Pass value based on the application (” ioc”)  SchedulerName: JSON File with config details (SchedulerTables.JSON) |
| Calls | 2\_Schedule-table-config-lookup-pipeline |

**Pipeline Flow:**

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TM2RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA5OjI0IDEyOjQwOjEzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2MwAAkpIAAgAAAAM2MwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. **Pipeline Name: 03\_Schedule-table-config-lookup-pipeline**

|  |  |
| --- | --- |
| Pipeline Name | 03\_Schedule-table-config-lookup-pipeline |
| Description | Checks if the table is not null then looks up the corresponding table config file |
| Pipeline Parameters | TableName: Value passed from the first pipeline  ScheduleTime: Actual pipeline triggered time.  DataSource: Value passed from the first pipeline (OIS/DMS/PI)  SchemaName: Value passed from the first pipeline  FullloadAllTable: Value passed from the first pipeline (True/False)  ProjectTag: Value passed from the first pipeline (”ioc”) |
| Calls | 3\_Schedule-Parse-config-pipeline |

**Pipeline Flow:**

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4R/ORXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA5OjEwIDE0OjU3OjIzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzNgAAkpIAAgAAAAMzNgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVR1bSrPXtLvdM1Kzhv9OvIXtrq0uY1eKaJ1KujqchlYEggjBBINXqKAPKYtb134NRrY6za6l4o8FxbUs9bskkvNQ0+IDHl30eWknVcAC5QO7Kf3qgo00vV+Efih4P8ewifw34o0fXIy+z/QL6OVlcfeVlViVYdCpAIPBArq68O/a2+G3hfxL8Bfibq2peGdH1HW7Xwvqc1pqNzYRSXNvKlpI0bxyMpZWVlUhgQQQCMYoA73xZ8YvA/gdoYtb8VaXY3UzmOCyNyr3Vw46pFApMkjf7KKT7Vzj2WsfG6MRazo9x4d+HzYaXSdTTZf63hshJ4wT5FoQAWhfMkwbZIsSK8c3WeBPh/wCE/BmmxN4Y8MaL4cS4iVmXSdPitQwIBwRGq5HSuroAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK4H4/wAH2r4D/EiHGfM8N6kmPrayCu+rkvi5B9q+FPjSHr5mi3qY+sDigDU8Gz/avCOhzdfMsYHz9Y1NbNcr8Krj7V8L/B82c+Zo9m+frAhrqqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsLxzB9q8F+IIOpl064TH1jYf1rdr54/bj+C+t/GD4H6hL4Ovb7S/H3hwtq+hXWmzNFcPIqMsturLgnzYmdAuQCxTJwDQB6Z8B7gXXwP+Hc2cmTw7pz/nbRmu7r47/wCCZPwZ174f/AiHxb4yudQu/F3ixIZW/tOV3mtdOgUx2VuAzHaoQs4VcALIq4G3FfYlABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRXN+MviF4Y+Hdit74o8Q6X4es2O1JtUvI7dXb+6u9huY5ACjJJIAFAHSUV5R/wvh/EGV8E+B/FHi4NwL57L+yrEf7XnXhiMif7UCS+wPOEGi/F7xZzqPiHw/4AtG+9b+H7VtVvVHqt3cqkSn1BtWGe+ByAepTTJbxPLI6xxoCzOxACgDJJPYAV5peftHeB/tc1loWo3PjfUo2KNZ+EbKXVTG4/hlkgVooT7yug6DOSMxQ/s3+DdQlS48VJqPxCu1Iff4vvXv4AwOQy2jYto2B5ykSnOPQY9MsbG30yzhtbS3itbaJQkcMCBEQDoFUcAewoA8x/wCEo+LHi3jRvB2k+CbRuBeeLb4Xl0nofsVmxjYd+bpT2xzwv/Ck9U8SfN42+IfiPX0b7+naRP8A2JYj2AtSs7Ke6yTuCOCCCc+r0UAeUf8ADM3gTT/3vh2xvvBV93vPC+pT2DyN/fmWNxHcN6mdXyeTkgGj/hGfiz4TOdH8YaR44tF6Wfiyx+xXb+32yzURqP8At0Y989j6vRQB5R/wuzUvDny+Nvh94k8PIv3tR0q3/tuxPuGtA06qO7SwRgDknAJHW+C/id4R+I0MsnhjxJpeu+TxPHYXSSSQnoVkQHcjA8FWAI7iuqrjvGnwh8F/ESaK48SeGNM1W9h/1F9LbqLu3PrFOMSRn3VgaAOxoryf/hT3iPw383gv4la5psa/c03xKBr1l+LTMt2foLkDH50Hxp8UPCvGv+AbTxXar1vvBmpIJiO7NaXhi2gddqTysewJwCAesUV5npP7RPgLUNQh02/1pvC2sTNtj0vxRbS6TcSN/djS5VPN+sZYHqCRzXpQIbBByDyCKAHUUUUAFFFFABRRRQAUUUUAcv49+Ieh/DPR4dU16W8S2nuo7OFNP065v55ZnJ2IkNvG8jE4PRT05qXwb4307x9pcl/ptvrFrbpJ5TJrWi3mlTbgAciK6ijcrz94KQeRng1w37RXhfVvFuj+DrLR7rVNOuU8UWEz6lpFvFNPZxqX3TBZY5YwFyMs6MozyOlcl8fvCOoW/gPwroOqpN8SLZ9UY3mq+KPDD+II4vkdozcaXpq2yTruIVWZQsZCu2WANAHuaeItOm8Rz6EtznVYLWO9kt9jfLC7uqvuxtOWRhgHPHIwRWtXxLovw/1kfDc2XiTw/q8UEPh2xs54V8NTX9sDDqd23ky6eshe4tgnl7reKRmMTLtZhhjB488A61qXgnwEsnhixs/BttaalCNI/wCFf6lq9sty8yG1uItIS4jn09mQStHvZhb7ipZCQSAfcNFcx8N7HUdN+H3hq01ee6utUt9Ogiupr5FS4eRY1DNIqySAOSDkCRxnPzHrXT0AFFFFABRRRQAUUVwvi743eBvA2pDTNW8S2a60wymi2Za71GQeqWkIeZxyPuoeo9RQB3VFeTn4v+Kta48N/CjxJdRNyl9r09rpNuw7ZR5GuV/4FAD+PFOz8bNWjDL/AMIF4VLE/u2+261sHGPmH2PJ65GB9aAPVqK8pHgP4qXyk3/xWs7ViP8AmB+F4rdR+FxNcH9aP+FS+OJv9b8bvFsf/XrpWip/6HYPQB6tRXlU3wn8aCR3t/jX4vCsxZY59M0R1XJ6DbYKcD3Ofek/4V78TrJQbP4tLdSAk/8AE48NW0yH0GIHgP60AerUV5Str8bdK3MdQ8A+Jio+WP7De6Pv56FvOu9vGedrfSk/4Wp460U48QfCTVpEH37rwtqtpqUCD12yvbzsP92En2oA9Xorznw78ffAfiTVItIXX49I1+XhNE1+GTS9Qc9Dtt7lUkcAkfMqkcjBIIz6NQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUV5T8aP2iPD3wQn0+21ix1O7ur9d0DRRx21mPm2gSXty8VtGc/wtLuxg7TkZAPVqK8g0/Uviv8RLOG8sLnwj4H0a4XdFcQSPr93Kh7qymCCJvcGdeO+ePNvHnwJn+InxIsPBet/EDxZqUY0p9Yv7+6urZlkHnCKKBLDyPsJUneWaW2kYAKAwLMSAexeIf2gPAXh3VJdJPiCPWNch+/ovh+KTVL9fTdb2yvIgJB5ZQODzwcZ3/CwPiN4q48M/Dn+xLZumo+NdRS14/vJa2wnkb/dlaE9enGeGk1bxt8FdX0Dwl4f0LQdYt4dG1S9+wWZj0e1njgmthFNIYrZhFOYnZSkaCJnPVFxth8bftteHPCOr6TAV0OC3m0ux1e9g1rxFDp+o+TdcxrZWrI32uRVDMy74wPlCszHAAO//AOFU+MPFHzeMPiXqjQt97S/CNsui2pHoZd0t0COmUuFB5O3pjf8AB3wV8D+AtQbUdF8M2Nvq7jEmrzobi/lHo91KWlfqfvMep9a5HxB8XPEt/a+MLnw74etpPDekw31p/wAJAupr9qivYIXYt9kaLa0KuAm7zSxb/lkVy1dB8HfiRcfE3QY9Sgt45dJSCGJdVM4El5dBAZiIQgCxAkbWLAsdxCBdrOAejUV82Wfj74heJPEHw4sbTUkg0zUPEetQ6pexTww3D29pcTrFAIms5lZNiKCVaKQlR84ySd742af4ug+IXgWPRPib4k8NWHiHVW025sNPs9KlihRbSebdG1xYyyB2aJc7mYYJwBxgA91or5qu/wBp25t/EfiDwSs2gNrFnpepNbT2via1vtZimtICwmvtPihWO3D7dy7XYcqGVCSq2ZPjr4w/4Q2CHVNHj8N67Na6PqVldQ3aXhurWe7ghn85DEiwSjfhkXeoEgKuSDtAPoyivmnR/wBtbQda8XavpNsnh+7jhj1P7Db2XiWGfVDJZI7SLd2IjDWqv5T7GDSkjbuVCwWuj0n9oPW20nxBd+IPB9joElhodr4hs9/iKL7O9rOXA+1TyxRLbNGUJkx5ihclWc/KQD3OivnHwr+1ZqXjaxsbfw94c8PeJNbvNbm0RJdD8Vi80bclibsTC+W13FMARtiElXOMEDNWLH9qyex8P3Gv+KPCSaDoZ8PXGvWs0GrLcyuLeRIp45VMaJEN8ilH3sCuWcREFaAPoaivIfgH8f7H42rrttFJ4el1LR2gM7+FfECa3YMkqsybblY4zvGx1ZWjUggYLAg1zFv+0df2d54f05NP02efU7u6iWTxH4hh06e7KXs0AgsFFsI7qdRHuMRMRVWjy7Fi1AH0LRXj/wC0B4u8YeE5fA58Hust1c6u/wBs054lY6hbRWk8z26sVJR28sbWXB3BQeCRWMnx7u5L7X7nRYo/E0d9e6VZ+HLGaZbKIvdWolPmzeWzoow7Mdjsu0gKTxQB7Xq2kWGvafNYanY2+o2My7ZbW7hWWNx6MrAgj6ivNj+zl4Z0cl/Bt9rXw4mByq+Fb4wWiH1FjKslp+cJrnNH+MnjLx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* + - 1. **Pipeline Name: 02\_Schedule-Parse-config-pipeline**

|  |  |
| --- | --- |
| Pipeline Name | 02\_Schedule-Parse-config-pipeline |
| Description | Based on the config file it switches to kickoff the respective Base Orchestration Pipeline |
| Pipeline Parameters | Tablename: Value passed from the previous pipeline.  ScheduledTime: Actual Pipeline triggered time.  ProjectTag: Value passed from the first pipeline (”ioc”)  FullloadAllTables: Value passed from the first pipeline (True/False) |
| Calls | 4\_ Schedule-kickoff-Base-Orchestration-Pipeline |

* + - 1. **Pipeline Name: 01\_ Schedule-kickoff-Base-Orchestration-Pipeline**

|  |  |
| --- | --- |
| Pipeline Name | 01\_ Schedule-kickoff-Base-Orchestration-Pipeline |
| Description | Kicksoff the respective Base Orchestration Pipeline |
| Pipeline Parameters | Pipeline: Value passed from the first pipeline  Year: Derived from the Scheduledtime of the previous pipeline.(YYYY)  Month: Derived from the Scheduledtime of the previous pipeline.(MM)  Day: Derived from the Scheduledtime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  ProjectTag: Value passed from the first pipeline (”ioc”) |
| Calls | Base-Orchestration-Dependent-table-Pipeline Or,  Base-Orchestration-Fact-RealTime-Pipeline Or,  Base-Orchestration Dimension Pipeline Or,  Base-Orchestration-Fact-Pipeline Or,  Base-Orchestration-Confirmed-Dimension-Pipeline |

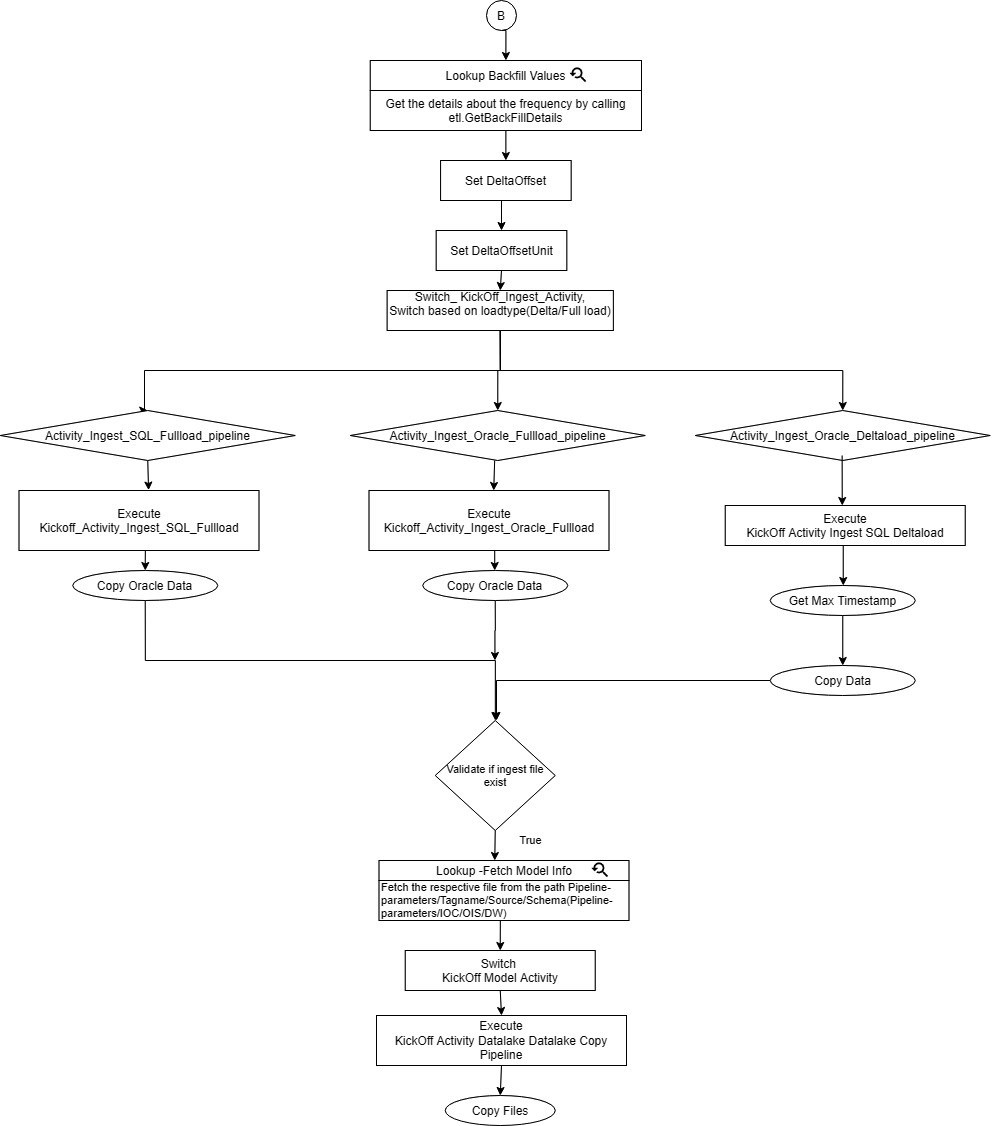
Pipeline Flow:![Diagram

Description automatically 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AVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9U6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiikyDnBzigBaKKKACiiigAooooAKKKKACiiigAooooAKKKy/E3iHS/CehX2s61f22laTYxNPdXt5KsUUMYHLM7EAD3JoA8++Df/JRfjt/2Odt/wCo9o1eqV4F8IfiZ4Qi+J3xUgbxRo32jxB4zt/7HT7dFnUAPDmjtmAbv3owM5TPBr3uM5HTHegB9FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRSZzyORS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHKfEb4oeFPhRpFrqfi/XrLw9p11cizhub6TajzFGcIPUlY3P0U15/8A8Nk/BH/opWg47ZuT/hWr8Zs/8LE+BOOv/CZ3H/qPazXqSqwLcY/GgDxj/hsj4I/9FK0D/wACKP8Ahsj4I/8ARStA/wDAivacN6/r/wDWow3r+v8A9agDxb/hsj4I/wDRStA/8CKP+GyPgj/0UrQP/AivacN6/r/9ajDev6//AFqAPFv+GyPgj/0UrQP/AAIo/wCGyPgj/wBFK0D/AMCK9pw3r+v/ANajDev6/wD1qAPFv+GyPgj/ANFK0D/wIpf+GyPgj/0UrQP/AAIr2jDev6//AFqMN6/r/wDWoA8X/wCGyPgj/wBFK0D/AMCKP+GyPgj/ANFK0D/wIr2jDev6/wD1qMN6/r/9agDxf/hsj4I/9FK0D/wIo/4bH+CP/RS9A/8AAmvaOfWjkdTj8aAPGP8Ahsb4I/8ARStA/wDAmqGvftVfAPxPouoaPqnxA8OX2mahbS2d3azXGUmhkUq6MMdGUkH617tnpz7daOfX9aAPyQ/YP+Hfwl/Z3/aA8eeMPE/xF8P3NlpMsmneD7iS9R2nglzvu2C/cfytsWDjmSUdACf0IX9sj4J4+b4laAD6fas/rivZwc9Dn8aM+/60AeMf8NjfBH/opWgf+BNJ/wANj/BH/opegf8AgTXs+7r8w/Ol5oA8X/4bI+CP/RStA/8AAij/AIbI+CP/AEUrQP8AwIr2jn1ow3r+v/1qAPF/+GyPgj/0UrQP/Aij/hsj4I/9FK0D/wACK9ow3r+v/wBajDev6/8A1qAPFv8Ahsj4I/8ARStA/wDAij/hsj4I/wDRStA/8CK9pw3r+v8A9ajDev6//WoA8W/4bI+CP/RStA/8CKP+GyPgj/0UrQP/AAIr2nDev6//AFqMN6/r/wDWoA8W/wCGyPgj/wBFK0D/AMCKP+GyPgj/ANFK0D/wIr2nDev6/wD1qMN6/r/9agDxb/hsj4I/9FK0D/wIpsn7ZnwPjjZm+Jnh9UVSWLXOAAO/Ir2vDev6/wD1q8o/ayVv+GWvjF/2Jus/+kM1AHqyZ5p9Rx53NkencmpKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDyr4yf8lF+BP8A2Odz/wCo9rNeq15V8ZP+Si/An/sc7n/1HtZr1WgAooooAKKK53x3460T4daC2sa/emysFkWFfLhknlmlchUiiijDSSyMTgIisx7CgDocgdeKMj1rkPAPxK8PfEq1vptBurl5rGf7Pd2WoWNxYXlq5Xcqy29xHHLHuU7lLIMg5GRWivivSz4sbwyt1/xPFsRqLWqxvxbmQxiTONn31IxnPFAG9mjIGMnFMjYBc9PftWL4g8ZaN4f1rQdJ1G9+z6hrlxJa6fD5Tv58iRNK65CkL8iMcsQOMdcUAbu4cc9elG4etYnirxZpfgnRX1XW7v7DYLNDAZvLeT55ZFijG1QTy7qOBgdTxmtYLtJP3c985/GgCWvnj9tXR/8AhIvB/wAP9NGhaT4nNz420yMaRrj7LG7z5v7uZvKlwp7/ALt/oa9K8ffGjwv8ONa03SNZfVptV1GGW4tbHRtBv9VmeKMoJGKWkMpVQXQEsAPmFOWHwJ+0F4Hie/0jTfF3huaZj9h1/S96xzRMyMstvcIGjlRgwKugdTkYFAHk19p+q/AP4bvq/h34f+C/Aerf2nGE8JeC3FxbeISybViZ1sIJFmAy6siNtEWWO3djg/if8aviTZS2Nn4W17UNUj0/wdF4obXNPXRILS9nkmcH7YdQkhCWSBAn+j7ZV3/O4YDd9N+E/gv8P/h/Is3hfwL4a8OTLI0qyaTpFvasHK7C4MaDBKkgn0OKfrHwg8C+II9Pj1TwV4d1NNNunvbNbzS4JhbTyPvkliDIdkjP8xZcEnnOaAPHtM+I3ibxT4h8Sazd+OLfwXa+HtRttKj8OSxWUtrfmWxinGZWBlMzyT4iMUoTEa/u5Mnd5Z8Tfit4g+InwPj0ubxU5OrfCaXxBqLWUNrvluvMgXecxMFDZnUqoAwWwAygj6+1DwH4SfxRD4zvvDuit4jsIWji1+4softdvDg5UTsu5FwzZ+YDk+teZfDXVvgX4o1S90rwp4Y0e0m1q3uWZn8JyadBrVu5X7Q0M0tukd7G2EZzE0isNrEkEGgDyqD4vfE6z+KElha3GrXGh6F4j0zw7IL2TQbfTb2CWCEySzmSWK7+1v5rNGtuixnYqhGyxr7Ijxzjj/PWuQh+Engi313Stag8F+Hoda0q3W00/UE0qBbizgUELFFIE3IgBICqQBuNWfG3j/RPh/Y2V3rUt4qX12ljaxWGn3F9PNMyswVYoEkc/KjknbgBSTgUAdRnNBOOTwKo6LqUWsafDfQJcRwzoHRbq2ltpQP9qKVVdD/ssAayPiF8Q9B+GHhxte8RXU9rpqTRW+61s5ruV5JXEcaJFCjyOzMwACqeTQB0uR60V5/4V+NXhbxhNcW2nf23Fe28lvHLYah4c1Gxu4xMzLFKYJ4Ek8ksrDzdvlrtbLDaa72MbSc9/egB5IHU4oyPWsTxV4s0rwjb2U+rXX2aO7vYdPgIjdy9xM4SJMIDjLEDJ4HU4q7omqQ61psF9brPHBcL5iLdW0ltKAf70ciq6njoyg0AX6KQMG6EGigBaKKKACvKf2sv+TWfjH/2Jusf+kU1erV5T+1l/wAms/GP/sTdY/8ASKagD1Vfuj6UtIv3R9KWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8q+Mn/JRfgT/2Odz/AOo9rNeqV4j+0r4v0fwD4g+C/iDxDqEOk6LY+MZjc31ydsUO/QdXjQse2XdV+pFTL+2V8EwT/wAXL0D/AMCaAPaaK8X/AOGy/gn/ANFL0D/wIo/4bK+Cf/RS9A/8CKAPaK8q/aO0Oz13wLaR6joOt6zY2+ow3Ml14ZnmTVNKKbtl9bJCDJLJGxX92gJZWb5XGVOZ/wANlfBP/opfh/8A8CaP+Gyvgn/0Uvw//wCBNAHi+oaX4j8RaLrl5faR4k8Z+Bv+Eg0g6nqGveEhZ65renRxv9pt5rKK2gluYIpGh2qbfLKZFAkUE1neLvgroXjpfEtxo3ww1zT/AA7Z+AL4eHdN1TS5ozBfC8neFrWByWt5AcNDEPLkjV8CNM7a95/4bK+Cf/RS/D//AIE0f8NlfBP/AKKX4f8A/AmgD528bfDfxprHxog1DU7XUG1eS60KfQdWi8F3eqXtpDHFF9oji1QXkMNgm8XHnRzAF1kY/vSwUWbb4Y3cvxK0oP4F1qX4gR+JNem1nxMdJnS2ubSa1vFsf9NYeXLHseGNFDnycMpEe75voH/hsr4J/wDRTPD/AP4E0f8ADZXwT/6KZ4f/APAmgD5sXSfE3izRPDNta+CfFVq2i+DtE0i6+36Hc2x+2Q6vZPPEgeMbwiRl/MXchXcQSFJGv8Lfhn420/49fbrlJNP8XR6rrU15rA8C3ey5tZfM+yrd6ub6OG8twDbmOCJC6GMKViwzD3z/AIbK+Cf/AEUzw/8A+BNH/DZXwT/6KZ4f/wDAmgDjPFPwz+IniD46eAZdR8XXumXNpoerJceJvBegRWtsm6W1McDJei+RSwVj94M2zjABrgf2jPgy2j2GjeEtM8JN4vil0vVLtdd8QeGrzxM9xqs7hmHk28kNvZ3EjMXF3IFROVQIoIr3L/hsn4J/9FM8P/8AgTR/w2R8E/8Aopfh/wD8CaAPBNK+Da6t4O8f694p8JazJrd1ZeH7Vb+Tw69/eGFLGzNyjW7bZriAyKy3EEZ3yKjLgsBWP4t+Hetah4D8EpL4MsrPwDa3msCfSF+H2p6lYzySKn2a5Hh9bhbi0DYnCKWZYmO/C+YGX6T/AOGyPgn/ANFM8P8A/gTR/wANkfBP/opnh/8A8CaAOPsfhX8Ude/Z1HhWTxPaNb3XhFtOSy1fQpbbVzcNblU865GoSonUBl2ueoLk5NbOh+PpPHWl+H9A0j4b67p2v6fYTebda5ok9hb+HrhLV4l+z3E8apcOzsIlNs7DYzMXC/e1l/bK+CTEgfE3w+SpwcXQ470v/DZHwT/6KZ4f/wDAmgD5TtvhLf6p4P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* + - 1. **Pipeline Name: Base-Orchestration-Dependent-table-Pipeline**

|  |  |
| --- | --- |
| Pipeline Name | Base-Orchestration-Dependent-table-Pipeline |
| Description | Kicksoff the Ingest Oracle load Pipeline and Model activity to copy data |
| Pipeline Parameters | IngestConfig: Passed from previous pipeline  Year: Derived from the ScheduledTime of the previous pipeline.(YYYY)  Month: Derived from the ScheduledTime of the previous pipeline.(MM)  Day: Derived from the ScheduledTime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  IngestDataContainer: Default value ”Ingest”  ModelDataContainer: Default value ”model”  ModelConfigContainer: Default value ”Pipeline-Parameter” |
| Calls | - |

Pipeline Flow:



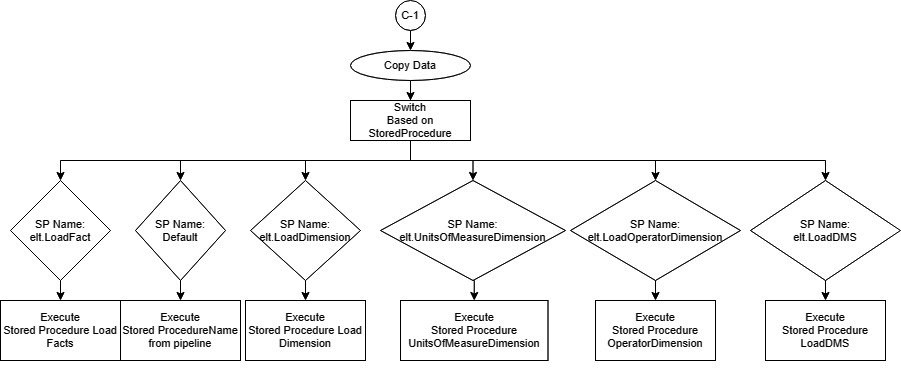
* + - 1. **Pipeline Name: Base-Orchestration-Fact-RealTime-Pipeline**

|  |  |
| --- | --- |
| Pipeline Name | Base-Orchestration-Fact-RealTime-Pipeline |
| Description | Looksup Shift details and Kickoff the Activate Ingest RealTime Pipeline |
| Pipeline Parameters | IngestConfig: Passed from previous pipeline  Year: Derived from the Scheduledtime of the previous pipeline.(YYYY)  Month: Derived from the Scheduledtime of the previous pipeline.(MM)  Day: Derived from the Scheduledtime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  IngestDataContainer: Default value ”Ingest”  ModelDataContainer: Default value ”model”  ModelConfigContainer: Default value ”Pipeline-Parameter” |
| Calls | - |

Pipeline Flow:

![Diagram

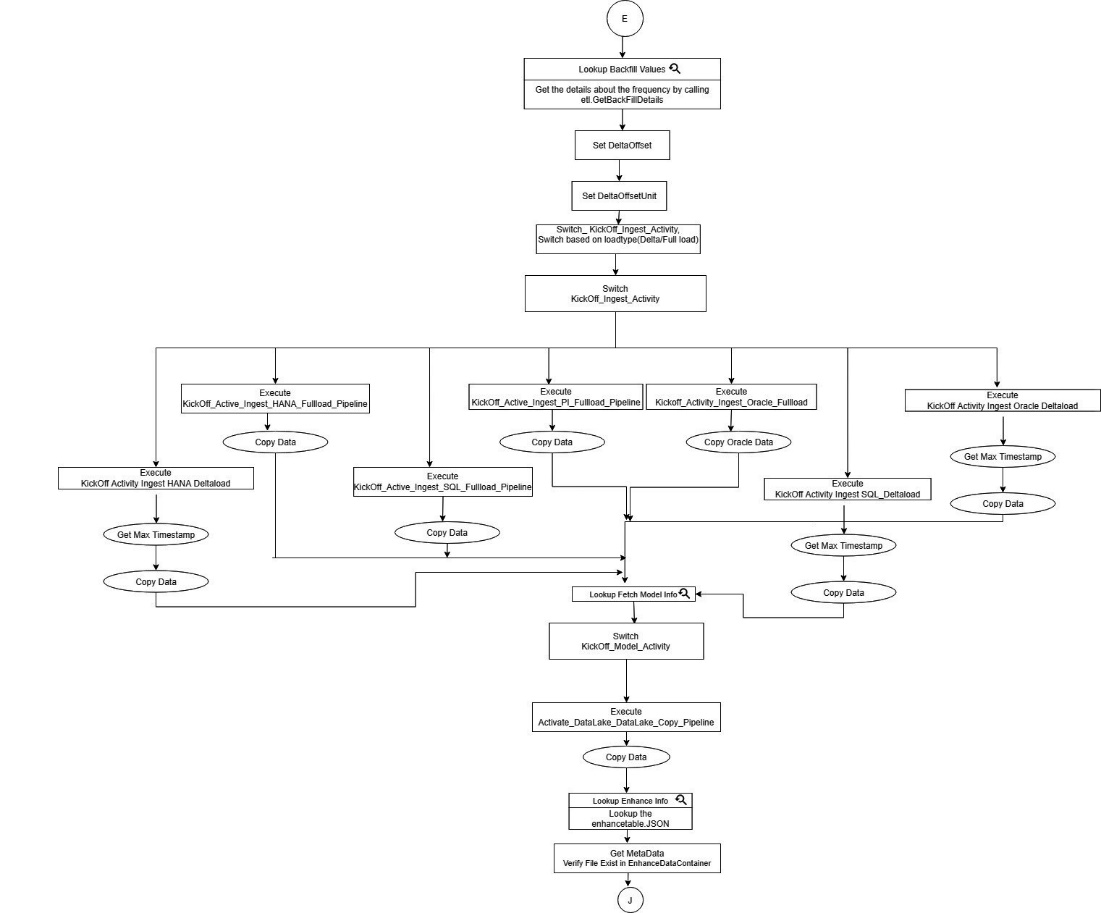
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gpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/AP1TooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDgPiF8QL7SdY03wp4XtrXUvGmrxyTW8V4zC1sbaPHmXlyUBby1LIiouGlkdEBRfMliwW/Zv8ADniRY7jx9e6p8QdUb5rhtWvpk09j/dTT43W2RB90Dy2YgDe8jZYx/Anz9e8RfFHxbewt9o1DxNcaVaTSA7hY6eBaRxKf+eYuEvZMdN88h/iNbPxe8eav4WPhjRPDNvaS+JvEuo/2dZTajHJJaWirE80txKiMrSBI42wishZio3KMmgDOP7M/gbTbiW78LW2oeAdRYl47nwnqEtjHHJ2Y2qsbWXB52SwuhP3lNX/BPjjWtK8VJ4F8cPZyeIntWvNM1iwRorbWbdGCyYjYnybiPKGSIM6lZEdGOZI4dT4f3HjaOTVdP8axaZcy2ro1prmjQtbW1/G4JI+zSTTSQvGRtbdIysNrKRllXlf2pln0z4SXPiqxi3ap4PvbTxHbyRgmSNLaZWutp6/PaG5ibHVJnX+KgD2CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8Z+DMY8F+P/iV4Lu5fLuZ9Zk8UaVCxwJ7C8WNpXTnnbeC7Vh1XfETgSpu6n4pfDeTx9a6Nc6bqg0HxLoN8NR0nVGtvtMcU2xkZZYd6mSJ43dGUMhIbKspAIsfET4eL42XTr+x1KTw/4o0d3m0jXIIUme2d12SRuj/LLBIPleJsZwrKySJHInHS/GTxZ4LSO08Z/DTxBd3CYWTWvBkC6pp0/wD00SJX+1pnqY2hYKchXlA3MAdh8P8Awj4k0CbVdR8V+Kv+Em1fUHTEdlZPY6faRxghUgt2mmKkklndpWZiRyFAUcj+05EvinwRZfD22k3at4z1G201LdfvGyWaOXUJTzxGlqk3zHALvEmcyKDW0n9oy58fWkFx8Pfh54o8T2l7Gk1hrepW66RpMsbgFJjNcETGIgg7oYJWKkFUaus+H/w+vdH1W58UeKtSh17xtfW62sl5BAILaytg5cWlpHklYtxLMzs0khCl22pFHEAeg0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRXz5+2140+Jfwu+Cdz48+GNzbPqXhe4XUtT0q+s1uIdR04KyzIwwHTZlZiyOh2xPyelAHW/sm/8msfBv/sTNG/9IYa9Wr4n/wCCXPjH4l/Er4H2+u+MLi3tfB1jZ2fhzwtpVpZrGGhsovJlu3kILyGRlVD820NDJhVGK+2KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDw/wAQW3irx18fPEvhyw+IniDwbo2j+GdH1CK30K00x/OuLq61SOV5Hu7Odvu2cIAUqBgnBJzW3/wpvxd/0Xb4gf8AgD4e/wDlVTfDf/J1HxD/AOxM8Nf+l2u16vQB5V/wpvxd/wBF2+IH/gD4e/8AlVR/wpvxd/0Xb4gf+APh7/5VV6rRQB5V/wAKb8Xf9F2+IH/gD4e/+VVH/Cm/F3/RdviB/wCAPh7/AOVVeq0UAeVf8Kb8Xf8ARdviB/4A+Hv/AJVUf8Kb8Xf9F2+IH/gD4e/+VVeq0UAeVf8ACm/F3/RdviB/4A+Hv/lVR/wpvxd/0Xb4gf8AgD4e/wDlVXqtFAHlX/Cm/F3/AEXb4gf+APh7/wCVVH/Cm/F3/RdviB/4A+Hv/lVXqtFAHlX/AApvxd/0Xb4gf+APh7/5VUf8Kb8Xf9F2+IH/AIA+Hv8A5VV6rRQB5V/wpvxd/wBF2+IH/gD4e/8AlVVO++B3ibU7O4tLv42+O7q1njaKW3m0/wAOukiMMMrKdKwQQSCD1r2GigDwzwd+zXqfw/8AC2l+GvDvxj8c6RoemQLbWdlb2Hh8JFGowB/yCsk9ySSSSSSSSa3v+FN+Lv8Aou3xA/8AAHw9/wDKqvVaKAPKv+FN+Lv+i7fED/wB8Pf/ACqo/wCFN+Lv+i7fED/wB8Pf/KqvVaKAPKv+FN+Lv+i7fED/AMAfD3/yqo/4U34u/wCi7fED/wAAfD3/AMqq9VooA8q/4U34u/6Lt8QP/AHw9/8AKqj/AIU34u/6Lt8QP/AHw9/8qq9VooA8q/4U34u/6Lt8QP8AwB8Pf/Kqj/hTfi7/AKLt8QP/AAB8Pf8Ayqr1WigDyr/hTfi7/ou3xA/8AfD3/wAqqP8AhTfi7/ou3xA/8AfD3/yqr1WigDyr/hTfi7/ou3xA/wDAHw9/8qqP+FN+Lv8Aou3xA/8AAHw9/wDKqvVaKAPKv+FN+Lv+i7fED/wB8Pf/ACqo/wCFN+Lv+i7fED/wB8Pf/KqvVaKAPnD42+EfHfw1+DPj7xbpfxw8cT6n4f8AD9/qttHeafoDQvLBbPKiuq6WGKllAIDA4zgjrX0fXlP7WX/JrHxk/wCxM1n/ANIZq9WoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDynw3/wAnUfEP/sTPDX/pdrterV5T4b/5Oo+If/YmeGv/AEu12vVqACiiigAooooAKKKKACiiigAooooAKKKKAPEfhL8XviD8TtH03xK3gbw3pfhC8ebdcJ4ourjUUijkePcLVdOCM5MZ+QTdDwcjFdhJ8bPBcejz6s2toNOh01NXluTby7IrdnKJuOz5ZGdWUQn94WVgEJBA8Q+B/wCzrr3wkm0oy/CH4T3Ws2U9xI/jO31SRNVl8ySRw/8AyCd27a4UjzjwOp6Vpa5+y/r+reC/F2i/2lpfneKpIdd1CWEy2gj1iK4jlCRPCqSC3dUWPfuEqGMSDezttAPULf8AaE8DXfhifXotRvmt7e+/syTTzo18NTW6I3CD+zzCLrzCvzhfKyUywBXmprX4+eBb7Q9T1aHXg+n6bp8Wq3kotJ8w20jSKjMuzdu3RSK0eN6lCGVTxXkPh39nbxj4b+x+J7Gy0SLxXZeIP7XTSr3xXrGpw3UX2J7MpPqd2skpfa5YMlsqgKqbW5enfEX4J/Fnxl/wkzx3Xg1rnxd4ftdL1STz7uBbCWCaaQCBfLk89GSbYWdoiCu8Ic7AAdxpv7UHhiTUPGlvqlrqmlr4e11dDgVdJvrmbUpWgSUfZ4Ut98rYMhKRCQhE8wkIwNel+EfF2kePPDlhr2gX6ajpN8nmQXEasu4ZwQysAyMCCrKwDKwIIBBFfPPj39mbxV4k8Savq1s2nziHxPH4h0yGHxHqGjzXCvpy2c8MtzaRiS2K7d6vGZQ4JVlXOa9j+CXgC4+GXw30zQ7uOzhvo5Jri5jsbu7u4lklleVwJrqSSaU7nOXdgWbLbVztAB6DRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHlP7WX/JrHxk/7EzWf/SGavVq8p/ay/5NY+Mn/Ymaz/6QzV6tQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHlPhv/k6j4h/9iZ4a/8AS7Xa8z+Nf7R+s+Afixr3hiDx18P/AAXbaboNvqtnb+LLOWa61aeRpwYISt9AQf3SABI5WzIPlPAPpnhv/k6j4h/9iZ4a/wDS7XazfGHwb8Y3/wATNd8W+FPGGh6MmtaRb6ReWOteG5dR+WJ5iHjdL2AKSJ2BDKw4HuKAJNf/AGhH8HaNpmoa14C8VC2ews7zV761t4PsmkG4Kr5bvLNG8xRidwgSVkAywXIB0dP+Pml3Ws63E+ga/aeHtJe8iuPFksEJ03zbVSbhCElaeMrtcbpIVVihCsxK7vI/F37Cdj4kWys4te0uaxs9GsNKtbjXvDsepajp7WmSklncmZBbLIdvmIsZJwdrIcEdve/sxjxF8Qte17XdY0u4tNUtryzeTS9ATT9XuIJ4jF5F5fJKRdQxK37tTCpBSMszFCWAOs+GfxwsPiVqlzpg8P674Z1GOxg1W3t9dhgU3ljMWEdxE0MsihcjBVysi5G5BmrXxX8cax4aPhzRPDcVk/iXxJfNYWU+pK7WtqFheaWeRFKtIESMkRqyl2Kjcoyw8z+GPwPm/ZrjvtZ0vwxpXi68nt4dNj0/wD4U0rQLholLEz3Mk90vnyNhd2JUTjKw5JNdXqdjrvxlt7W5bwx4i+F3iLw9drf6PqmuDTr2JpmSSN0aK1vZfMiKOyupaIkMNrhgCADI1D496t8JJPEumfEe3t9d1DSbKz1O3vfClg9st9BcXP2YILeed/Lkjl2g/v2DKwI2nKjpE+Owl8QW+jp4I8VSXMYt49WkhhtZ49DmuF3RRXXl3DMxxtZmgWZEDhmZRzWLqf7Puq+LrPWbzxV4sttS8Vai+nx/b9P0k2lna2tpdLcrBDbNPIw3sG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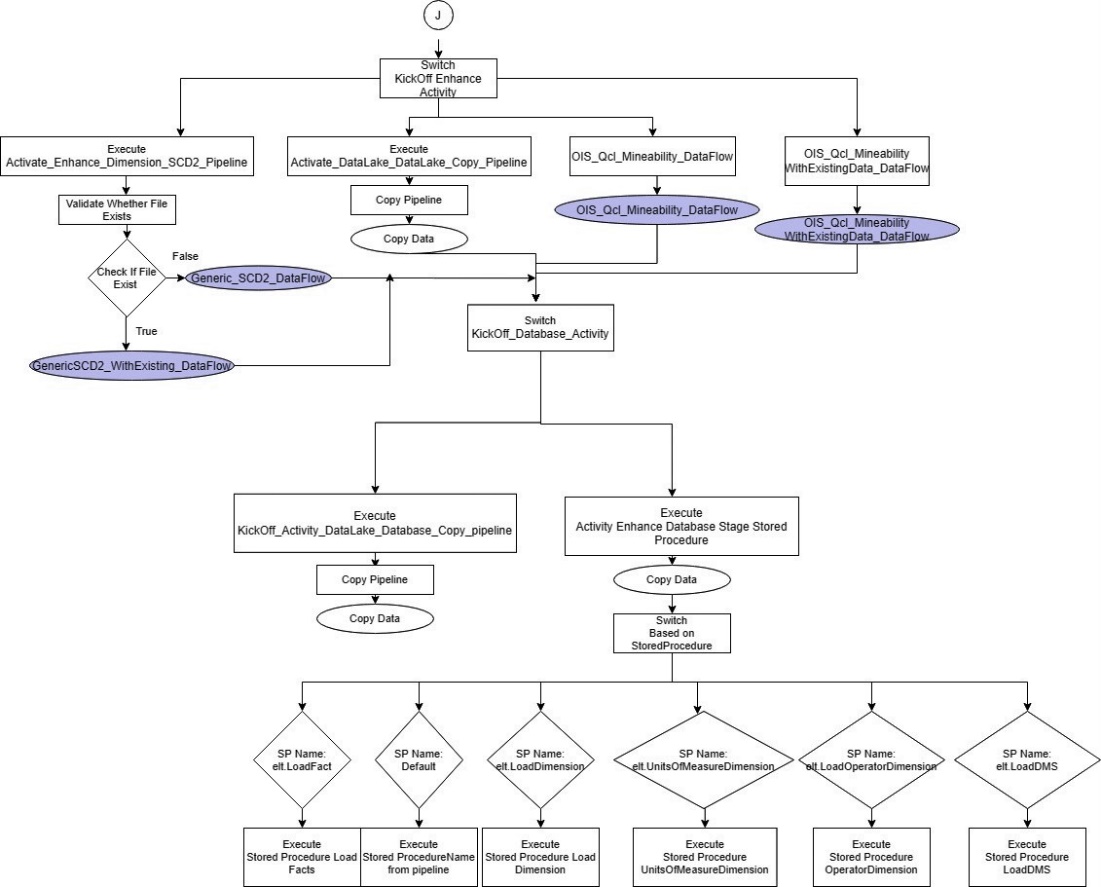


* + - 1. **Pipeline Name: Base-Orchestration-Dimension-Pipeline**

|  |  |
| --- | --- |
| Pipeline Name | Base-Orchestration-Dimension-Pipeline |
| Description | Kicksoff the Dimension table Ingest activities |
| Pipeline Parameters | IngestConfig: Passed from previous pipeline  Year: Derived from the Scheduledtime of the previous pipeline.(YYYY)  Month: Derived from the Scheduledtime of the previous pipeline.(MM)  Day: Derived from the Scheduledtime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  IngestDataContainer: Default value ”Ingest”  ModelDataContainer: Default value ”model”  ModelConfigContainer: Default value ”Pipeline-Parameter” |
| Calls | - |

Pipeline Flow:

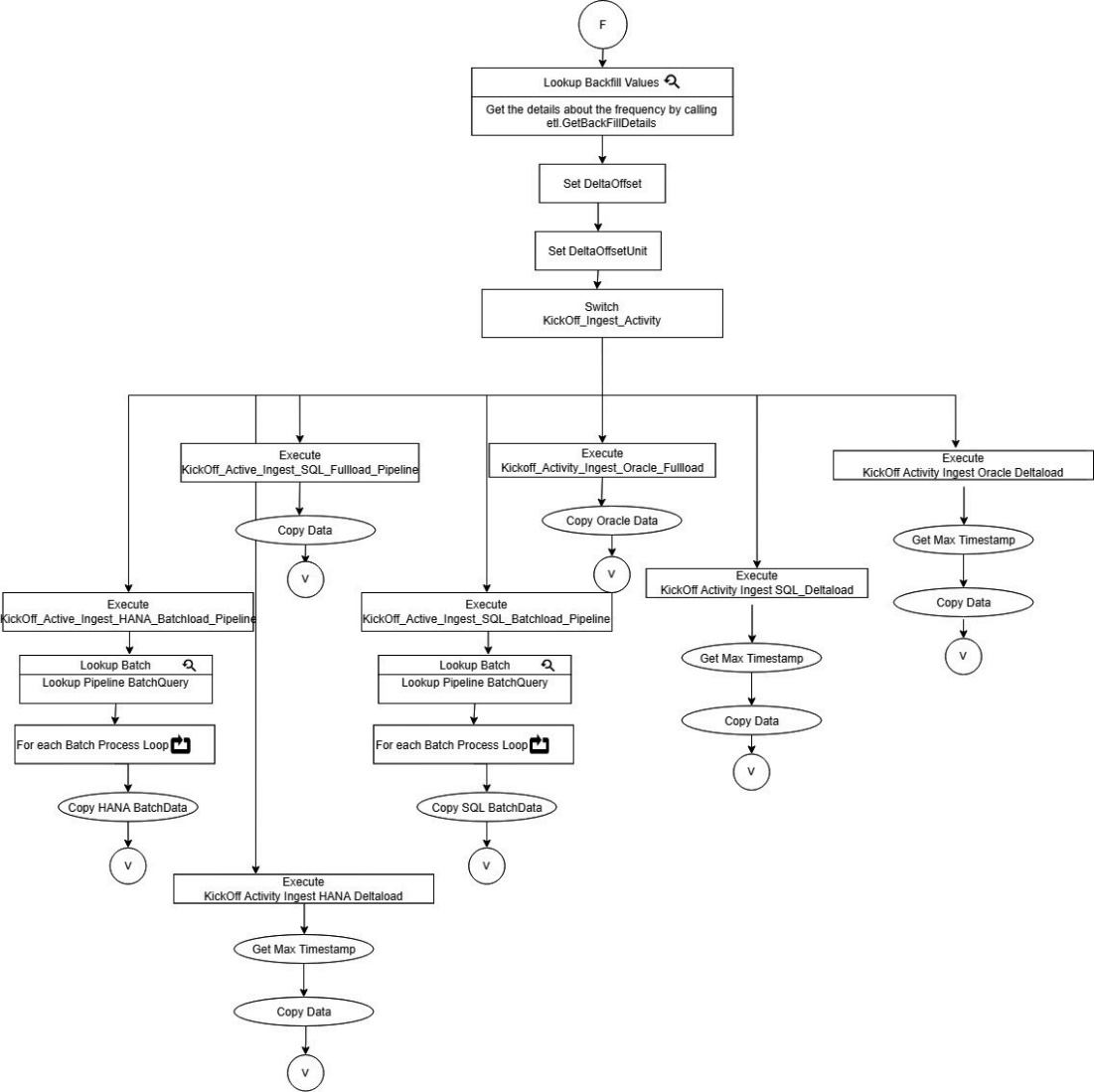


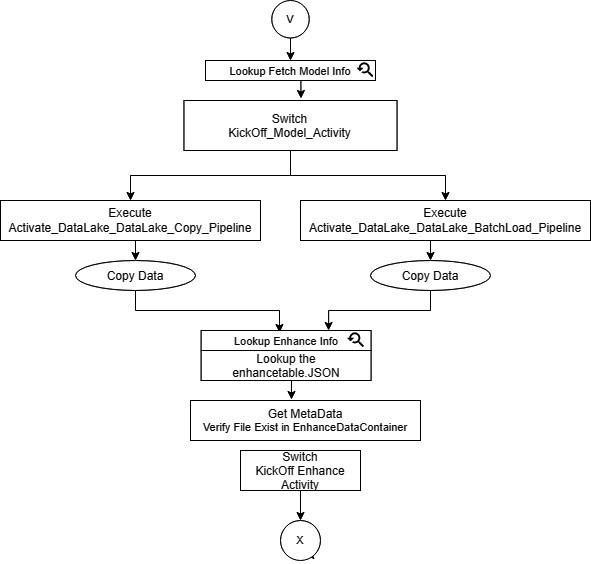


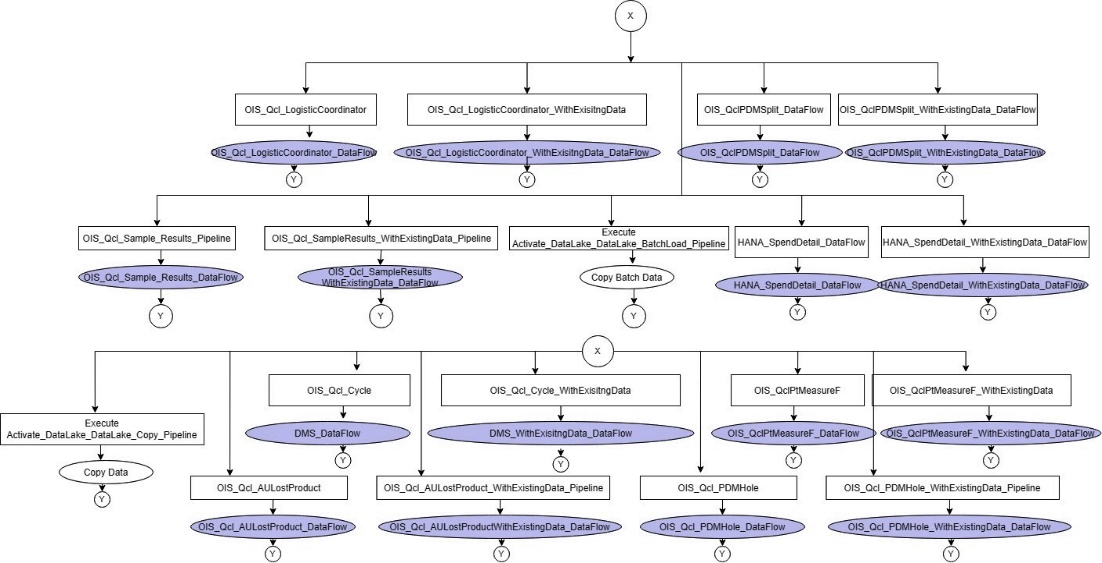
* + - 1. **Pipeline Name: Base-Orchestration-Fact-Pipeline**

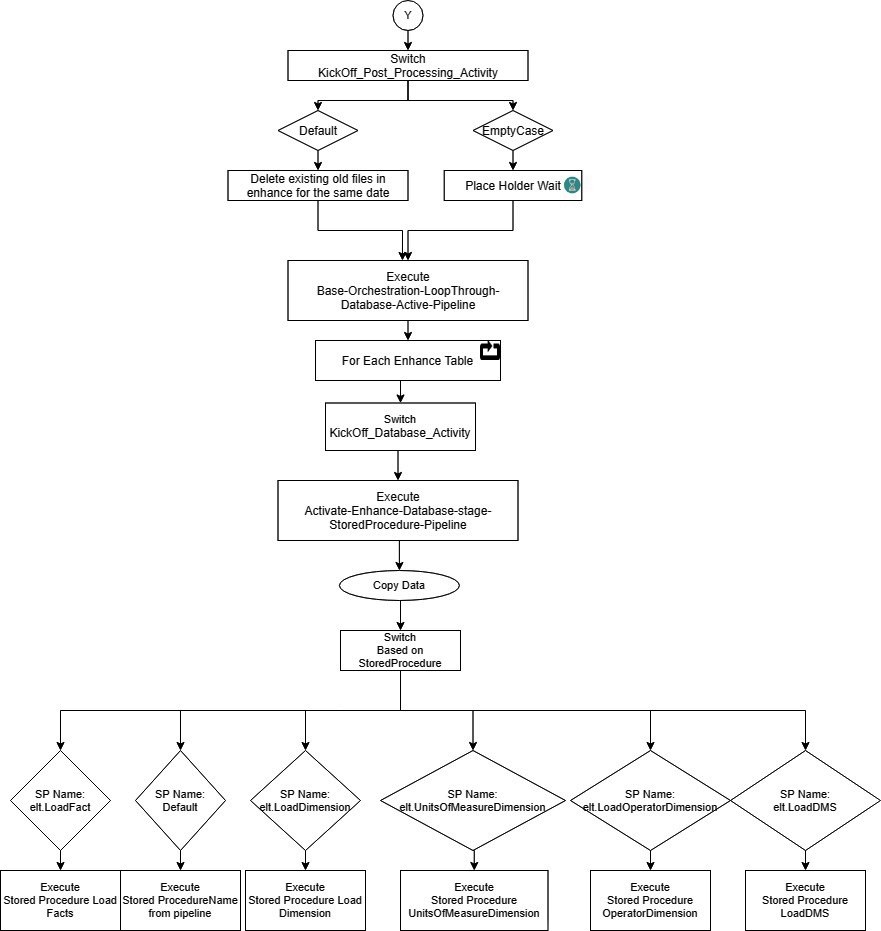
|  |  |
| --- | --- |
| Pipeline Name | Base-Orchestration-Fact-Pipeline |
| Description | Kicksoff the Fact tables Ingest Activity based on the Source (Oracle/PI/HANA/SQL) |
| Pipeline Parameters | IngestConfig: Passed from previous pipeline  Year: Derived from the Scheduledtime of the previous pipeline.(YYYY)  Month: Derived from the Scheduledtime of the previous pipeline.(MM)  Day: Derived from the Scheduledtime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  IngestDataContainer: Default value ”Ingest”  ModelDataContainer: Default value ”model”  ModelConfigContainer: Default value ”Pipeline-Parameter” |
| Calls | - |

Pipeline Flow :









* + - 1. **Pipeline Name: Base-Orchestration-Confirmed-Dimensions-Pipeline**

|  |  |
| --- | --- |
| Pipeline Name | Base-Orchestration-Confirmed-Dimensions-Pipeline |
| Description | Kicksoff the Fact tables Ingest Activity based on the Source (Oracle/PI/HANA/SQL) |
| Pipeline Parameters | IngestConfig: Passed from previous pipeline  Year: Derived from the Scheduledtime of the previous pipeline.(YYYY)  Month: Derived from the Scheduledtime of the previous pipeline.(MM)  Day: Derived from the Scheduledtime of the previous pipeline.(DD)  Hours: Derived from the Scheduledtime of the previous pipeline.(HH)  Mins: Derived from the Scheduledtime of the previous pipeline.(mm)  FullloadAlltables: Value passed from the first pipeline (True/False)  IngestDataContainer: Default value ”Ingest”  ModelDataContainer: Default value ”model”  ModelConfigContainer: Default value ”Pipeline-Parameter” |
| Calls | - |

Pipeline Flow:

![Diagram, schematic

Description automatically 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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5jxt45s/AumwXFzBc6heXlwLPTtKsVVrrULkqzLBCHZV3FUdyzsqIiO7sqIzDp68U+EjN8TfiL4s+I16vm2en3tz4X8NRuAyQW9tKY725Qg43z3MbKSB9y1hGfvEgFn/hVPib4kN9s+Ivie/s7SUbo/CXhO/nsLSAEHKT3cRS4um7E7oozyPK6kyf8MmfBkwyRyfDPw1O7uJGuLjT45ZyRnB85gXz8zc7u5r16igDyD/hRVx4NcXXw38Vap4VnUgjR9Tup9U0eYZJKG2nkLQA9vs7xYIBww3Keo8A/EZvFV1f6LrGnDw94w0sK9/ozT+evlsWEdzby7V8+3cq22TapyrK6o6sg7evH/wBo62u/D/hOL4k6MjHXfA4k1RkhAD3umgK1/ZHOeJIYwwGP9bBA2PkFAHsFFUdO1C31awtr6ymW5tLiJZYZozlXjYZVge4IINXqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvE/wBjby2/Zj+HbxytIZNN3zNIMMZmdmlBGTzvL9zXtleK/AXd4D1/xl8Mrr9y2lahNrWi8ALLpN9PJNGqc5Pkzm4gZf4VSI8B1yAe1V+frah46X9mPxtb2/h3w/J4RPjK836pLr86Xyj+3BuxZiyaM4bgf6QOOf8AZr9Aq54eCvDw0W40j+wNLGkXE7XM2niyj+zyylxIZGTG0sX+csRkt83XmgDoazdcgtLrR9Qhv2AsZIHWfPTyyhDfpmtKvI/2ktavk+Gtx4W0KVk8U+MnPh3SWQEtDJMrCW5OOQsEAmnLekWOSwBAJ/2XZJ7n9mj4SyzljK3hLSizN95v9DiIJ9yOSOcEkZPWvVayvD+hWfhfQdN0fTovIsNPtY7O2h3fdjjUKi/gABWrQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVxPxA+Hw8YDTNRsLxdG8VaNI82kauYPOELOu2SKWPcpmt5QAJIdy7tqsGSRI5E7aigDxe3/aO0vwjdQ6R8VLX/AIVtrG7yhfahJnRb5ufmtb4gJg4HyTeVKMj5O59Lt/Gnh+802TUbfXtMl05PvXcd3G0IPuwOP1rSuLaK8t5IJ4kmglUxyRyKCrKRggg9QRXzh+0T+z/8LbHwbpeoW3w28I29/J4v8Mwvcw6DarK0cuu2MUqFxHkq8cjowzhldgcgkEA7zWP2lPCB1SXRvCE7/EnxOrBTpHhN0uzAxOM3E4YQ2yjuZpFIGMBsgHZ8B+A9Vi16fxh4wubW88W3MDWcNtp7u9jpFmzqxtbYsql9zJG0kzKrStGnyoiRxx9npGjaf4f0+HT9LsbbTNPhXbFa2cSwxRjrhVUAAfStKgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvKv2lv+SdaR/2OfhP/ANSHTq9Vr5n/AGrfjz8P/DMWn+Ctb8VWGh+J4Nf8Kay1lqkhtQ1mviCzZ5o5JAsbqiwSs2xiVEbFgApNAH0xRXH/AA1+KHhn4weE7fxL4R1QazoNxLNDBfpBJHHM0UjRyFN6ruAdWUOuVO04JrsKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDyOT9pbwX9uvoLa28Yan9gvbnT5bjS/A+t3tv59vM8E6LNDZtHJtljdSVZhlDzxU3/AA0t4S/6A/j/AP8ADc+Iv/kCl/Zp/wCSdav/ANjn4s/9SHUa9VoA8p/4aW8Jf9Afx/8A+G58Rf8AyBR/w0t4S/6A/j//AMNz4i/+QK9WooA8p/4aW8Jf9Afx/wD+G58Rf/IFH/DS3hL/AKA/j/8A8Nz4i/8AkCvVqKAPKf8Ahpbwl/0B/H//AIbnxF/8gUf8NLeEv+gP4/8A/Dc+Iv8A5Ar1aigDyn/hpbwl/wBAfx//AOG58Rf/ACBR/wANLeEv+gP4/wD/AA3PiL/5Ar1aigDyn/hpbwl/0B/H/wD4bnxF/wDIFH/DS3hL/oD+P/8Aw3PiL/5Ar1aigDyn/hpbwl/0B/H/AP4bnxF/8gUf8NLeEv8AoD+P/wDw3PiL/wCQK9Wryr9oTVvG2h+A4bjwVbahPci+h/tOXRreC51K30/kzyWkM+YpJgAMKyvkFsIxwKAE/wCGlvCX/QH8f/8AhufEX/yBXx3/AMFEvh/4d/az8M+Fbvw1pPjSz8YaLqCQG5uvh34gRH0+ZgJwxFhljGdsqgn7qyhQWfFe9eCf2gLzwrPcQa34gn8ZeHDqsllHq2t6fLo2t6cRYyXQjv7JrOBRuMTiORUjVkIJBIJJJ+1Ze69pfh5rXw9caVeTy6d/aaQajHvsZ59T+xfZSZLZ1kUmOcs6hW2phSpIYAHR/Dv4sfDr4WeBNA8I+H9A8f22j6LZRWFrGfhz4gLFEUDc+LAAuT8zN1ZiSeTXT/8ADS3hL/oD+P8A/wANz4i/+QK8u+GP7Q/xE1rQ7TR5vDWj+J/HV7e63cRWza39ktxp9neNBgyiz/1m5kjRfL2uF3PIhJFT6B+0V4z0zx/4htdY8MfavCw8XWXh8XE1/FFd6W91a27JEsMcTLcKk0hDuZgw8wbN6jgA9K/4aW8Jf9Afx/8A+G58Rf8AyBR/w0t4S/6A/j//AMNz4i/+QK9WooA8p/4aW8Jf9Afx/wD+G58Rf/IFH/DS3hL/AKA/j/8A8Nz4i/8AkCvVqKAPKf8Ahpbwl/0B/H//AIbnxF/8gUf8NLeEv+gP4/8A/Dc+Iv8A5Ar1aigDyn/hpbwl/wBAfx//AOG58Rf/ACBR/wANLeEv+gP4/wD/AA3PiL/5Ar1aigDyn/hpbwl/0B/H/wD4bnxF/wDIFH/DS3hL/oD+P/8Aw3PiL/5Ar1aigDyn/hpbwl/0B/H/AP4bnxF/8gUf8NLeEv8AoD+P/wDw3PiL/wCQK9WooA8p/wCGlvCX/QH8f/8AhufEX/yBW34F+MHhz4latqul6P8A2xBqWmQ29zd2etaFf6TNHFOZlikVLuCJnVmt5lBUMMxkHFd3XlHhv/k6j4h/9iZ4a/8AS7XaAPV6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8q/Zp/wCSdav/ANjn4s/9SHUa9Vryr9mn/knWr/8AY5+LP/Uh1GvVaACiiigAooooAKKKKACivgrWrvVG+NnxPsvE1nHF8FJfGdtH4mv4LrbNJI9jbLBFcrgbbHzNglYNk+YgYCMPnt9J8Wa1/wALKv8A4e6Bq0XgPS9Q8Wanbrq2haZYRywQWmmWksUKLJA8bE7+XkjdgkW1SuBgA+vqK+LvBfjzWYfj5rdhB4qt59E1290SC88caPBbtHfXA07MMESMZUjFwyMC/wAwHCIQzq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* + - 1. **Pipeline Name: Base-Orchestration-Load-TimeDate**

|  |  |
| --- | --- |
| Pipeline Name | Pipeline Name: Base-Orchestration-Load-TimeDate |
| Description | Kicks Off Stored Procedures for Date and Time generation |
| Pipeline Parameters | NoOfYears: Number of years for which the date must be genetrated.  StartDate:StartDate from which the date must be generated. |
| Calls | - |

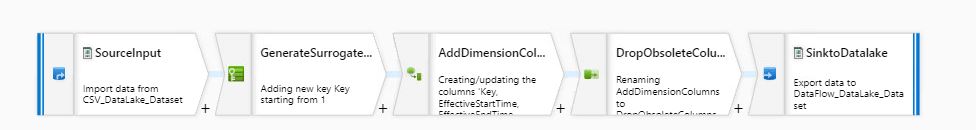
Pipeline Flow:

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SfgRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA5OjI0IDE4OjMxOjQ1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + 1. DataFlows
       1. DataFlow Name: Generic\_SCD2\_Dataflow

Purpose: SCD2 Initial load, it loads the dataset from source, adds surrogate key and dimension columns with respect to SCD2 . Before sinking it drops the Obsolete column PipelineRunTime.



* + - 1. DataFlow Name: Generic\_SCD2\_WithExistingData\_Dataflow

Purpose: SCD2 delta load, it loads the dataset from source, add Hashkey for Key and Non-key columns to identify the delta records. If these delta records are new then new surrogate key is generated and added, for existing records the values are updated for dimension columns with respect to SCD2. Before sinking to destination, the Obsolete column activity drops the PipelineRunTime column.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_Qcl\_Minebility\_DataFlow

Purpose: Dataflow joins dataset from DimSplit Fact and DimHoleCmp Fact and then aggregates it based on Mineability column , this aggregated value is then sink into the destination.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxOAAAkpIAAgAAAAMxOAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_Qcl\_Minebility\_WithExisitingData\_DataFlow

Purpose: Dataflow joins dataset from DimSplit Fact and DimHoleCmp Fact and then aggregates it based on Mineability column, this aggregated value is then compared with the existing records for identifying the delta records, This delta records are added to the existing records and sink into the destination file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_Qcl\_PFMeasureF\_Dataflow

Purpose: Source dataset is fetched and with derived column activity the columns DatapointID, MaterialID, LocationID and EffectiveDate are derived and sink into destination file .

![A close up of a piece of paper

Description automatically 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* + - 1. DataFlow Name: OIS\_Qcl\_PFMeasureF\_WithExisingData\_Dataflow

Purpose: Source dataset is fetched and Hashkey value is generated. With derived column activity the columns DataPointID, MaterialID, LocationID and EffectiveDate are derived for the new records and added with the existing records .

![A picture containing screenshot

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMwAAkpIAAgAAAAMzMwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_QclLogistic\_Coordinator\_Dataflow

Purpose: Fetches dataset from two sources is used to get the derived columns and joins them to achieve the logistic coordinator, derived columns along with the operator is sink to destination file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_QclLogistic\_Coordinator\_WithExistingData\_Dataflow

Purpose: Fetches dataset from two sources and joins them, the distinct operator details are fetched from the LocationPublishedHistory file added to the existing Operators, derived columns and logistic coordinator details are arrived and sink to destination file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name : OIS\_QclLostproduction\_Dataflow

Purpose: Source dataset fetched, and derived columns are arrived with StartTime, StartDate and EndtimeID are added to the source dataset to get the Fact file AssetUtilization. Distinct PeriodicType value from the source is sink in as separate file. Distinct Product is arrived and sink into separate file.

![A picture containing screenshot

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_QclLostproduction\_WithexistingData\_Dataflow

Purpose: Source dataset is fetched, and Hash key is generated to identify the delta records. Derived columns are arrived with StartTime, StartDate and EndTimeID are added to the source dataset to get the Fact file AssetUtilization. Distinct PeriodicType value from the source is sink in as separate file. Distinct Product is arrived and sink into separate file. All the new records are merged with the existing records for Fact and Dimensions and sink into separate files.

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwNQAAkpIAAgAAAAMwNQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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/Z)

* + - 1. DataFlow Name: OIS\_QclPDMSplit\_Data

Purpose: Datasets from Split and SplitProductQuality are merged based on the LocationID and Splitnum columns and columns from both the source are added to destination dataset in a file.

![A picture containing screenshot

Description automatically 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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPO/ij5n/CtbXz/AC/N8yDf5eNu7ac4x2ql4V/5DPhL/sETf+h11WseGoPFPguy05ZJbKLZFIoI3MoC8Kc9+ah07wfJpt3ps8V2HOnWr20YaL74Y5yfm6168cRTjh3Sb1vL8VY8b6vUlWjVS0tH8GmdMOn40tVlS+7vD/36P/xVO2Xv/PSD/v0f/iq8g9knpD0qHy73/npD/wB+j/8AFUeXe/34f+/Z/wDiqAILA4ml/wCurfzNbK/drJhs7iFmZZEyzFjlD1P41Z33w6PB+MR/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAvUVR33/9+D/v03/xVG+//vwf9+m/+KoAuSOIo2dvuqCT9BVG0QmH94MM+S2Djk9aJFu508uZ4ShI3BYyCRnp96rCLtWgDjB4AtP+Eva7M2tfZDZhRJ/b95nzPMJ2/wCu3Yxjj7tdqBtUAZ4GOTmiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAraaS2lWhacXBMKEzD/lp8o+b8etWaKKuek2ZUXenF+SDFKBRRUGwUlFFAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)

* + - 1. DataFlow Name: OIS\_QclPDMSplit\_WithExisitingData\_Dataflow

Purpose: Datasets from Split and SplitProductQuality are merged based on the LocationID and Splitnum columns and required columns are fetched. For these column Hashkey is generated for both Key and NonKey columns. Based on the Hashkey columns the delta records are identified and added to the destination file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AFNYEsuCQOpxjmnU0/61fvdD9O36//AF6AAIwH+sY/Nnt+XTpRsbB/eNyc5wOPbpWRrt1qdpJbyWPlLbBv9IeQgbRn37VDd69b6hoOuHTpXEtnbyAyKcYbYxBVgfbOay9rHn5Hv+foTzK9jdKMd37xhu6dPl+nFBUnd+8YZ6dOP0ryrw54iutG8PtrFlHrWoWCadAZ11aW4Xzbp3UZje4BbGGOdvyfdxXS3PjfUbWO8mfQY/K0qNH1TN980JZd+2MBMSEKQTkqM8AmtSjsCp5+duRjtx70bD/z0b7uO3X16da4zUviDJp82t502HZplq88UU100U95tUHMaGPaYznG8OcHqBS6h4/m0UXKazozRzqkMlrHaStc+eJXKKCFj3KwYchVfjpnpQB2QQgj94xwMdB+fSkCHIJkY7QQQcfN9eK5Cy8cajqFvZwQeHpItVupJVW3vHltotkYUtJvkhWQr86gfusk+g5qkuqeL9ZvvFGnW8drYtbxwfZNt0TJE7oGKn93gEjPzZO04wD1oA7xYiFQGViV+9wPm+vFIEYdZXzknJAyf0rg9M8RjSYLXT9OsdSlv7rUDaTWerag0j2r+SZc+Yxk3IQoOVJGGyOmKr6l4rvrm8s55EmsJbaPUYryzgusoZIogRhtuGHOQWXvnb1FAHopiO1sSuPm3dB09OnSlCtk4f8AiyBjgV5XqXifxDJZeJIg6wWFt4chvLe4W7b7SkjRuQxIjGWJU5wR90Y6kLsWniHVL/xh4atbjSNY0mB4J/M+1ywlLkiNCM+VK5OOuWA6n3oA7yNt65APXHSnZqNyu3zA3OMg5OMVE1wwkwq5HY+tNRb2JlJR3LOaiuf9UPrUX2lx/CKa8zSLggde1aRhJO5nKomrE1t/qvxqaorcFYue9S1EviZpH4UFFFFSUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUh/1i/e6H6dv8/nS0jKGxuGcHIoAWqY0iwEd5GtsqrfAi52kjzMgg5P0J6VaMSEEEcE5PPegxI27I+9jPPWlZN3ApT6Hp1zoiaRNb7rFERFi3sMBCCoznPGB3qvf+FtH1LUft15as8zKqyBZ5ESYKcqJEVgsmO24HFapjRt2R97GeetKUUkkj7wwaYHLeKPBFrrWk6uLXe2o31rLBE95dzSRRF1wdqMWWMHjOxRVuHwVoaWNxbz2Zn+1Kgnea4kkc7OVCuzFkCnlQpAU9MVu+Unp/Dt69qBGoIIHKjAoAxZfB+jTWMNpLFdMIZDJHOb6f7QrEYJ87f5nTA+925qR/Cekyy3MrQTK11CkEvlXUqblT7pwrD5h2cfN71rCJBtwPu9KQQoNuARtPHJoA5DUvAFrI2kw6ajQ29vqBvbx5LqZpph5ToCJSS5cFlwSwPHB4rWXwZoP2WC3Ww2pbpNGmZnLETDEhZt2WZu7MSc85zWysKKBjPByOe9AhQDgd93U9aAMm48I6HdeYZrVsPZfYJFS4kRXg7KwDANjJwTyMnBGanvNA0u98n7bb7zbwvBGTIw2o6hWXg85AHJ5FX/JXkepyaUImSSoOetAGRD4X0hLpLlLQpJHJHIn71iN0aFEbGccKSPfvk1seWndRTiQe2KSgBPLT+6KNijoo/KloouxWQUUUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApKKKAFooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/9k=)

* + - 1. DataFlow Name: DMS\_CycleData\_DataFlow

Purpose: Source CycleData Fact file is joined with the MineID Dataset based on DMSeries column. Duplicate records are eliminated and CycleCheck, duration and other derived columns are calculated. These records are written in the destination file with sink activity. Source CycleData file is used to deduce StressPhase and Alarm, these values are written in separate files with sink activity.

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: DMS\_CycleData\_WithExistingData\_DataFlow

Purpose: Source CycleData Fact file is joined with the MineID Dataset based on DMSeries column. Duplicate records are eliminated and CycleCheck, duration and other derived columns are calculated. Hash key is generated for identifying the delta records. These records are written in the destination file with sink activity. Source CycleData file is used to deduce StressPhase and Alarm separately. Hash key is generated for these records to identify the new records based on the hash key of the existing records. These new records are merged with the existing data set and are written in their respective files with sink activity.

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1NgAAkpIAAgAAAAM1NgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_QclSampleResults\_DataFlow

Purpose: SourceFromModel dataset is used to derive the respective derived columns for SinkSample, SinkSampleDetails, SinkSampleLocation and SinkParamterType dataset. These records are the sink in their destination files.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMyNQAAkpIAAgAAAAMyNQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIS\_QclSampleResults\_WithExistingData\_DataFlow

Purpose: SourceFromModel dataset is used to derive the respective derived columns for SinkSample, SinkSampleDetails, SinkSampleLocation and SinkParamterType dataset. Hashkey is generated for all these datasets to identify the delta records, these records are the sink in their destination files.

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3OAAAkpIAAgAAAAM3OAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: OIC\_Qcl\_PDMHole

Purpose: SourceHoleCmp fact and SourceProductQuality are joined based on LocationID, ProspHoleID and ProspStandard columns and sink into destination file .

![A picture containing screenshot

Description automatically 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* + - 1. DataFlow Name: OIC\_Qcl\_PDMHole\_WithExistingData

Purpose: SourceHoleCmp fact and SourceProductQuality are joined based on LocationID, ProspHoleID and ProspStandard columns and sink into destination file. Hashkey is generated for all these datasets to identify the delta records, these records are the sink in their destination files.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2NQAAkpIAAgAAAAM2NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: HANA\_SpendDetail\_DataFlow

Purpose: SourceSpendDetail fact is used aggregate the CostCenter and sink into destination file, Another flow use is used to aggregate TrxnCurrency,GrpCurrency and LocCurrency while filtering all the Null values from these columns, these 3 columns are then joined with Unionall based on the LocCurrency. This is then sink into separate Currency file. Hashkey is generated and these records are the sink in their destination files.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + - 1. DataFlow Name: HANA\_SpendDetail\_DataFlow

Purpose: SourceSpendDetail fact is used aggregate the CostCenter and sink into destination file, Another flow use is used to aggregate TrxnCurrency,GrpCurrency and LocCurrency while filtering all the Null values from these columns, these 3 columns are then joined with Unionall based on the LocCurrency.Hashkey value is used to identify the delta records and there are merged with the existing records in the destination. Hashkey is generated for the Source record and the delta records are identified and sink in their destination files.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdheWF0aGlyaSBLAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDowOToyNCAxNjoxODoxMAAyMDIwOjA5OjI0IDE2OjE4OjEwAAAARwBhAHkAYQB0AGgAaQByAGkAIABLAAAA/+ELHmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMDktMjRUMTY6MTg6MTAuMTMzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkdheWF0aGlyaSBLPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAaACPgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDRE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D3uoAZTTCxyQAZ1H4n0FNN9qBYhNMJCtglplGeM5/z0wetaNGPwoAzTc3ky/v9PaEKNwcTK314/P8AKnk4mVh/GKvt93n8azV8wNHhsYPHFAhbo4hfP901JLc3cYAtrLzgRw3mqvasq3Gp27SQXgS4hWMstwHHJzwu3qOK6CPiNc9vepjLmVwTuZx1HUleNW0lsu2CROuF685/CpDe6huG3TCQT1M65H4Vf64pMjocD61Qyh9vvzuxpbHawXAmXn3H4frkUz+0NSEh8zSGCYyGWdT2PGK0gevHelPTjmgCk6nc6Hjeu4DPTNJGxaME+nNSXed8ZThuT+FYWsxa89uq6FNbxSbm3NKM844P0HJ/AVUY8ztewdTWjd0mlaKMyOEBCZA3cnvQb/U84Gkk46k3CDPNNsfPTPmhJJ1iG/Z8qlu4Hp7Un9pakAS+knCjJ23AY/ljk/19akB7X2p7gF0o47nz045HbvxSi+1EgY0o5zg/6QmMev8An0p5u7vdgaezKTjPmrjH4nP6Uxby/wCQ2m4O3PFwpyew5/maAF+26hsz/ZhztBI89euKlZ5ZrQvLAYnU5A3A/wAqrm/1EsNuknGBnNyoIPf9auQSSyxFriAwt/dLBuPwoAVDuUEd6dUMH+qWpaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKx/Ff/ACKeqf8AXnL/AOgGtiobu1ivbOW2uF3xTIUdfVSMEVUJcskyZrmi0Zug/wDICt+xwfw+Y1aSIzNcIFUlkHDEgfTI5qSGxS3hWKDKIvRQenOaetuUYlWIJ6nNEnzSbCC5YpGVFodwmT5FkSrFkzJKQP1+lObRJCF8u1tVb/lpvlkYeuRzz0A5xjnr0rV8uT/nq350GN+7lvqakopWltfWYKx29qIyAxVZHZt+Ofvds/55qUtrJkYItjt5wSXz7H/63+NT7H9T+Jpdkh6sfzoALmUw2ZM338c7ATn1wOpqvDKtyEkjDBCuQHXacH1B5H41ZEZyC2fzprwBiDk5A9aAIbn/AFTHuBmob7T5bpSyRwNwAPMd17c9DVlrYOpBzgjFSCNx0ZvzoAyINDdJjHJBCkLKwPlzPxn6n19Pf05bJoNx5hMVvabVXCEzy5+vpWzsk45PFJsk9T+dAFa00iFF8yeBVuHAD7HYbsDHPPJpy6BpyEkW7fN1zK3rn1qwEcZ5P50CN+5NAFR7mOO6+zKsm5Y/kxGxXaDjlumcmp0z5Q71KIgVKnPPvVeSAx4wTjPrQtWJuyI2XK3S7dwMOMZI9e45/KsEPBG6oj2KMyFCd8/Q8FQe1dMbbrgspPdTg0NbllKs8jKRgqzkg0DOela2h8ot9jBiG8K0s2FweOcfXqO4pzR2QgV5FswoISQ+ZLgAcgA+uSTXReW+0YYjAxwaBG4YkE8nJ+tAHNQXMVq6yQTWYRCWQM8pZQQOMY559c1tJqkc1qUklja4CbmWIMcA9wCM9KtNE55LNn1yaUIScsTn60AJaTLc2scsauqMoI3oVP4g8ip8YpMngUtACUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAYooooAKKKKAFopOaKACiijvQAVUu7l7aMyrbyThT84j5YLjqF6k+1W6Tb196T2AonUduAbO6YnPCxk4wePz60n9qLlQbO9yxwAYiMnGf8fy9xV4oP8A61LjueT70wMw6wF5XT9QcY6iA8Hdjp+vHUfUVbs7mO8VyiSpsOCJFKkHGf5GpwuM479aULQA0vsPyqT+NRu7uQDGRz1qfFFNOxLVwJNFFFIoKWkooAU80lFFAC0lFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFI5IjJHWlpGGVIJwPWgBvl8Y3N+dLs/wBpvzp1FADdn+01Hl+5P40PIkf+sdV4z8xx/nqKTz4f+eqf99CgAEY9/wA6Xyx79MdaI3ST7jq3GeDmnd6AGbMZ68CnJzGpNLjdkeopsf8AqloAcaKKKACjFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/9k=)

* + 1. Stored Procedures:
       1. Store Procedure: etl.LoadFact

|  |  |
| --- | --- |
| Object Name | LoadFact |
| Purpose | Generic Stored Procedure to load data into Fact Tables and join with dimensions. Dynamic source query built using select clause and information from lookup table for joins. |
| Parameters | SchemaName, TableName, StartDateFieldName, EndDateFieldName, VersioningFieldName, IsVersioningRequired |

This stored procedure is a generic procedure to load the below fact tables. The parameters passed are SchemaName and TableName. The other parameters like StartDateFieldName, EndDateFieldName, VersioningFieldName And IsVersioningRequired are passed if versioning is enabled as for few MIC projects. In IOC, versioning is not enabled.

In this stored procedure, dynamic source query is built using the information available in the Lookup table in etl schema. (etl.FactLookupDetails). The FactLookupDetails contains the join key information for the fact tables with the corresponding dimensions. The procedure also handles hard delete conditions. The corresponding stage table is truncated once the load into the fact is complete.

The fact tables that invoke the above stored procedure are listed below.

* AssetUtilization
* Forecast
* LogisticsCoordinator
* Production
* ProspectDataMeasureHole
* ProspectDataMeasureSplit
* Sampledetail
* SpendDetail
  + - 1. Store Procedure: etl.LoadDimension

|  |  |
| --- | --- |
| Object Name | LoadDimension |
| Purpose | Generic Stored Procedure to load data into Dimension Tables |
| Parameters | SchemaName, TableName |

The standalone dimensions of all sources invoke this stored procedure. The procedure uses Lookup table from etl schema (etl.DimensionLookupDetails) tables in building the dynamic select query. The SCD of type 1 and type 2 and delete conditions are also handled in the procedure. The stage table is truncated after the load.

* + - 1. Store Procedure: etl.LoadTimeDimension

|  |  |
| --- | --- |
| Object Name | LoadTimeDimension |
| Purpose | Generic Stored Procedure to load data into TimeDimension Table |
| Parameters | None |

This procedure is created to load data into the dim.Time table. Time components are generated for 12 hour and 24 hour type by iterations in the procedure. Created Date and Modified Date are updated in the dimension table based on new or updated cases.

* + - 1. Store Procedure: etl.LoadDateDimension

|  |  |
| --- | --- |
| Object Name | LoadDateDimension |
| Purpose | Generic Stored Procedure to load data into DateDimension Table for the required No.Of.Years from the mentioned Startdate |
| Parameters | StartDate, No Of Years |

This procedure is created to load data into the dim.Date table. The parameters are start date, date from which the date dimension will be loaded and No. of years. The start date and cut off date are set and the date values are loaded from start date until the cut-off date. The other date fields are derived using the SQL date functions for the corresponding date values. The values are then matched between the temporary table and date dimension table. The unmatched values are inserted into the dimension table.

* + - 1. Store Procedure**:** etl.LoadLocationDimension

|  |  |
| --- | --- |
| Object Name | LoadLocationDimension |
| Purpose | Stored Procedure to Load data into dim.Location table |
| Parameters | None |

The procedure handles loading data into the conformed dimension table, dim.Location. The truesource for the Location dimension is Oracle. The dimension also holds data from other sources namely Element Hierarchy from PI, Maximo Location in HANA and Mine information from DMS. The stored procedure handles flattening of the location hierarchy for various sources and realigns as per the information from config.LocationMapping table according to the true source system, Oracle. The location keys are updated accordingly and the procedure handles obsolete location conditions.

* + - 1. Store Procedure: etl.LoadEnviromentDimension

|  |  |
| --- | --- |
| Object Name | LoadEnviromentDimension |
| Purpose | Stored Procedure to Load data into dim.Environment table |
| Parameters | None |

This procedure is used to load the hierarchical Reason table into flattened dimension table in the backend. The input table is of parent child hierarchy type and it is flattened with this procedure. The flattened table then handles the SCD type 2 with the merge statements of insert and update. The columns specific to Type 2 SCD like CreatedDate, ModifiedDate, Effective start and End Date, IsCurrent and IsDeleted are added to the table.

* + - 1. Store Procedure: etl.LoadOperatorDimension

|  |  |
| --- | --- |
| Object Name | LoadOperatorDimension |
| Purpose | Stored Procedure to Load data into dim.Operator table |
| Parameters | None |

Operator is a conformed dimension and data is consumed from three different sources. Viz., DMS, OIS and HANA. The true sources for this dimension are DMS and OIS. In the stored procedure, DMS source data is matched with HANA based on the active field to get cleansed information. And from the OIS source, operator data are extracted from the combined field. The procedure then handles merge activity with insert or update.

* + - 1. Store Procedure: etl.LoadOpsMeasureDimension

|  |  |
| --- | --- |
| Object Name | LoadOpsMeasureDimension |
| Purpose | Stored Procedure to Load data into dim.OpsMeasure table |
| Parameters | None |

This procedure is used to load the hierarchical OpsMeasure table into flattened dimension table in the backend. The input table is of parent child hierarchy type and it is flattened with this procedure. The flattened table then handles the SCD type 2 with the merge statements of insert and update. The columns specific to Type 2 SCD like CreatedDate, ModifiedDate, Effective start and End Date, IsCurrent and IsDeleted are added to the table.

* + - 1. Store Procedure: etl.LoadReasonDimension

|  |  |
| --- | --- |
| Object Name | LoadReasonDimension |
| Purpose | Stored Procedure to Load data into dim.Reason table |
| Parameters | None |

This procedure is used to load the hierarchical Reason table into flattened dimension table in the backend. The input table is of parent child hierarchy type and it is flattened with this procedure. The flattened table then handles the SCD type 2 with the merge statements of insert and update. The columns specific to Type 2 SCD like CreatedDate, ModifiedDate, Effective start and End Date, IsCurrent and IsDeleted are added to the table.

* + - 1. Store Procedure: etl.LoadUnitOfMeasurementDimension

|  |  |
| --- | --- |
| Object Name | LoadUnitOfMeasurementDimension |
| Purpose | Stored Procedure to Load data into dim.UnitOfMeasurement |
| Parameters | None |

The true source for the Unit of Measure dimension is Oracle. The data are being loaded from PI system as well and also referenced from the ENG PRODUCTION UOM column from Asset Utilization fact of Oracle source. The UOM from the other project FPA is also combined in the stored procedure. UOM Mapping table holds the mapping information for the respective sources

* + - 1. Store Procedure: etl.LoadAttributeDimension

|  |  |
| --- | --- |
| Object Name | LoadAttributeDimension |
| Purpose | Procedure to load data into dim.Attribute table |
| Parameters | None |

The procedure loads the Attribute dimension table as per the SCD type 2 requirements and calls the Unit of Measure procedure. Once the Unit of Measure load is complete, the UOM keys are updated in the Attribute dimension table.

* + - 1. Store Procedure: etl.LoadAssetDimension

|  |  |
| --- | --- |
| Object Name | LoadAssetDimension |
| Purpose | Procedure to load data into dim.Attribute table |
| Parameters | None |

The conformed dimension, Asset holds data from the Maximo Asset of HANA and info.Machine from DMS sources. The AssetMapping table is looked upon for mapping information and data load into the Conformed dimension.

* + - 1. Store Procedure: etl.LoadCrewShiftDimension

|  |  |
| --- | --- |
| Object Name | LoadCrewShiftMapping |
| Purpose | Procedure to load CrewShiftMapping table. |
| Parameters | None |

This stored procedure loads the CrewShiftMapping table which acts as the bridge between crew and shift with location information. Lookup is done on dim.Shift to get location information and mapped to the details of crew for the specified location and shift. Data is loaded with joins on Shift, date, time and location tables.

* + - 1. Store Procedure: etl.PITimeSeriesFact

|  |  |
| --- | --- |
| Object Name | PITimeSeriesFact |
| Purpose | Procedure to load data past summary data rolled up for every hour |
| Parameters | None |

This procedure handles data retention for 30 days. The calculations for the PI system are handled in this procedure. The calculations performed are based on 5-minute aggregation. Minimum, Maximum, Weighted average and running minute average based on system ON/OFF time, cumulative total are the measures for which the calculations are performed in the procedure. Config.shiftSummaryParameterMapping is the table that holds the list of attributes for which the calculations are made.

* + - 1. Store Procedure: etl.LoadDMSFact

|  |  |
| --- | --- |
| Object Name | PITimeSeriesFact |
| Purpose | Procedure to load data past summary data rolled up for every hour |
| Parameters | None |

This procedure works on a similar way as LoadFact but it is specific to DMS CycleData fact table. Since the number of columns on this table is comparatively higher, the dimensions corresponding to the CycleData fact are explicitly used in this procedure with the join conditions on the merge statement. The procedure truncated the stage table once the data are loaded.

* + - 1. Store Procedure: etl.UpdateWatermarkValue

|  |  |
| --- | --- |
| Object Name | UpdateWatermarkValue |
| Purpose | Procedure to update delta value in Watermark table |
| Parameters | TableName |

This procedure updates the delta value in the watermark table for any corresponding fact or dimension table that invokes this procedure. The maximum value of the watermark column is updated in the watermark table. In case of null in the watermark column, the current date is updated as the delta value in the watermark table. The parameter for this stored procedure is the table name which is the name of the dim or fact table for which the watermark value is to be updated.

* + 1. Dimension Tables:

For complete list of dimension tables and associated model views for IOC, please click [here](https://teams.microsoft.com/_#/xlsx/viewer/teams/https:~2F~2Fmosaicco.sharepoint.com~2Fsites~2FIOCIntegrationOperationsCenterImplementationProject~2FShared%20Documents~2FAzure%20DW~2FDeveloper's%20Resources~2FIOC%20Tables%20List.xlsx?threadId=19:2df80f74b094439fa2aea12f47f9379d@thread)

1. DimAlarm:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
* Activity-Ingest-SQL-BatchLoad-Pipeline/Activity-Ingest-SQL-DeltaLoad-Pipeline
* Activity-DataLake-DataLake-BatchLoad-Pipeline
* DMS\_Dataflow
* Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
* Invoking Stored Procedure – etl.LoadDimension

1. DimAnalyte:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimAsset:

**Sequence of Table Population: HANA Source**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Conformed-Dimension-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Conformed-Asset-Dimension-Pipeline
    - KickOff-Asset-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadAssetDimension

**Sequence of Table Population: DMS Source**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dependent-Tables-Pipeline
    - Activity-Ingest-SQL-FullLoad-Pipeline
    - Activity-Ingest-SQL-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Conformed-Asset-Dimension-Pipeline
    - KickOff-Asset-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadAssetDimension

1. DimAttribute:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-PI-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadAttributeDimension

1. DimCostCenter:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-HANA-BatchLoad-Pipeline/Activity-Ingest-HANA-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-BatchLoad-Pipeline
    - HANA\_SpendDetail\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadDimension

1. DimCostElement:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimCurrency:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-HANA-BatchLoad-Pipeline/Activity-Ingest-HANA-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-BatchLoad-Pipeline
    - HANA\_SpendDetail\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadDimension

1. DimCycleTypes:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-SQL-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimDataPoint:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimDate:

**Sequence of Table Population:**

* Base-Orchesrtation-Load-TimeDate
* Invoked Stored Procedure : etl.LoadTimeDimension

1. DimEnvironment:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-Datalake-Copy-Pipeline
    - Activity-DataLake-Datalake-Copy-Pipeline
    - Activity-Enhance-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name : etl.LoadEnvironmentDimension

1. DimHoleLocation:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimItem:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimLabName:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltalLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclSampleResults\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name: etl.LoadDimension

1. DimMaterial:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimMineability:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclMineability\_Dataflow
    - Activity-Enhance-Stage-StoredProcedure-Pipeline

1. DimOpsMeasure:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline
    - Activity-DataLake-Datalake-Copy-Pipeline
    - Activity-DataLake-Datalake-Copy-Pipeline
    - Activity-Enhance-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name: etl.LoadOpsMeasureDimension

1. DimParameterType:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltalLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclSampleResults\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name: etl.LoadDimension

1. DimPeriodType:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltalLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_AuLostProduction\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name: etl.LoadDimension

1. DimProduct:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltalLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_AuLostProduction\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure Name: etl.LoadDimension

1. DimProject:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Dimension-SCD2-Pipeline
    - Activity-DataLake-Database-Copy-Pipeline

1. DimPurchaseOrder:

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Dimension-Pipeline
    - Activity-Ingest-HANA-FullLoad-Pipeline/ Activity-Ingest-HANA-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - Activity-Enhance-Stage-StoredProcedure-Pipeline

1. DimReason

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Stage-StoredProcedure-Pipeline

1. DimSample

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Fact-Pipeline
* Activity-Ingest-Oracle-DeltaLoad-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* OIS\_QclSampleResults\_Dataflow
* Activity-Enhance-Database-Stage-StoredProcedure-Pipeline

1. DimShift

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhanced-Stage-StoredProcedure-Pipeline

1. DimStatus

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Dimension-SCD2-Pipeline
* Activate-Datalake-Database-Copy-Pipeline

1. DimCrew

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activity-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Dimension-SCD2-Pipeline
* Activity- Datalake-Database-Copy-Pipeline

1. DimStressPhase

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* DMS\_Dataflow
* Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
* Stored Procedure Name : etl.LoadDimension

1. DimTime

**Sequence of Table Population:**

* Base-Orchesrtation-Load-TimeDate
* Invoked Stored Procedure : etl.LoadTimeDimension

1. DimTimeCode

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-SQL-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Dimension-SCD2-Pipeline
* Activate-Datalake-Database-Copy-Pipeline

1. DimLocation

**Sequence of Table Population: OIS Source**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activity-Conformed-Location-Dimension-Pipeline
* Invoked Stored Procedure-etl.LoadLocationDimension

**Sequence of Table Population: OIS HANA**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-HANA-Fullload-Pipeline
* Activity-Conformed-Location-Dimension-Pipeline
* Invoked Stored Procedure-etl.LoadLocationDimension

**Sequence of Table Population: OIS PI**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-PI-FullLoad-Pipeline
* Activity-Conformed-Location-Dimension-Pipeline
* Invoked Stored Procedure-etl.LoadLocationDimension

**Sequence of Table Population: OIS DMS**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-SQL-FullLoad-Pipeline
* Activity-Datalake- Datalake -Copy-Pipeline
* Activity-Conformed-Location-Dimension-Pipeline
* Invoked Stored Procedure-etl.LoadLocationDimension

1. DimEmployee

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-SQL-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Conformed-Employee-Dimension-Pipeline
* Invoked Stored Procedure-etl.LoadEmployeeDimension

1. DimUnitOfMeasure

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Conformed-Dimension-Pipeline
* Activity-Ingest-Oracle-FullLoad-Pipeline
* Activity-Conformed-UnitOfMeasure-Dimension-Pipeline

1. DimVendor

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-HANA-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhanced-Stage-StoredProcedure-Pipeline

1. DimWODepartment

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Dimension-SCD2-Pipeline

1. DimWorkOrder

**Sequence of Table Population:**

* Scheduler04-Table-Pipeline
* Schedule03-Table-Config-Lookup-Pipeline
* Scheduler02-Parse-Config-Pipeline
* Scheduler01-KickOff-Base-Orchestration-Pipeline
* Base-Orchestration-Dimension-Pipeline
* Activity-Ingest-HANA-DeltaLoad-Pipeline/ Activity-Ingest-HANA-FullLoad-Pipeline
* Activate-Datalake-Datalake-Copy-Pipeline
* Activity-Enhance-Stage-StoredProcedure-Pipeline
* Stored Procedure Name:etl.LoadDimension
  + 1. Fact Tables:

For complete list of fact tables and associated model views for IOC, please click [here](https://teams.microsoft.com/_#/xlsx/viewer/teams/https:~2F~2Fmosaicco.sharepoint.com~2Fsites~2FIOCIntegrationOperationsCenterImplementationProject~2FShared%20Documents~2FAzure%20DW~2FDeveloper's%20Resources~2FIOC%20Tables%20List.xlsx?threadId=19:2df80f74b094439fa2aea12f47f9379d@thread)

1. FactAssetUtilization

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_AuLostProduction\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactDMS

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-SQL-BatchLoad-Pipeline/ Activity-Ingest-SQL-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-BatchLoad-Pipeline
    - DMS\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadDMS

1. FactLogisticsCoordinator

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest-Oracle-FullLoad-Pipeline/ Activity-Ingest-Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclLogisticsCoordinator\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactPITimeSeries

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-RealTime-Pipeline
    - Activity-Ingest- PI-BatchLoad-Pipeline
    - Activity-Model-PI-Batch -Copy-Pipeline
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadPITimeSeriesFact

1. FactProduction

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest- Oracle-FullLoad-Pipeline/ Activity-Ingest- Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_PtMeasureF\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactProspectDataMeasureHole

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest- Oracle-FullLoad-Pipeline/ Activity-Ingest- Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclPDMHole\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactProspectDataMeasureSplit

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest- Oracle-FullLoad-Pipeline/ Activity-Ingest- Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclPDMSplit\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactSampleDetail

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest- Oracle-FullLoad-Pipeline/ Activity-Ingest- Oracle-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-Copy-Pipeline
    - OIS\_QclSampleResults\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

1. FactSpendDetail

**Sequence of Table Population:**

* + Scheduler04-Table-Pipeline
  + Scheduler03-Table-Config-Lookup-Pipeline
  + Scheduler02-Parse-Config-Pipeline
  + Scheduler01-KickOff-Base-Orchestration-Pipeline
  + Base-Orchestration-Fact-Pipeline
    - Activity-Ingest- HANA-BatchLoad-Pipeline/ Activity-Ingest- HANA-DeltaLoad-Pipeline
    - Activity-DataLake-DataLake-BatchLoad-Pipeline
    - HANA\_SpendDetail\_Dataflow
    - Activity-Enhance-Database-Stage-StoredProcedure-Pipeline
    - Invoking Stored Procedure – etl.LoadFact

**4.4.7 Triggers**

Triggers in Azure Data Factory are a way of executing a pipeline automatically based on the clock schedule. ADF supports three types of triggers: schedule, tumbling window and event-based.

The triggers are set based on the source requirement and the type of trigger majorly used is Schedule trigger type. The tumbling window type trigger has been used for DMS, OIS and PI fact tables.

Tumbling Window trigger – This trigger fires at defined periodic time intervals from the start date and time. This type of trigger supports backfill scenarios and retry capability. Pipelines can be scheduled for the past windows as well.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **Trigger Name** | **Trigger Type** | **Schedule Execution Time (EST)** | **Recurrence** |
| Confirmed Dimension | Load-Asset-Dimension-Trigger | Schedule | 2:00 AM | 1 Day |
| Common Dimension | Load-Common-Dimension-Trigger | Schedule | 2:00 AM | 1 Day |
| Date Dimension | Load-Date-Time-Trigger | Schedule | NA | 1 Hour |
| DMS | Load-DMS-Dimension-Trigger | Schedule | 4:00 AM | 1 Day |
| Load-DMS-Fact-Trigger | Tumbling Window | NA | 5 Minutes |
| Load-DMS-FullLoad-Trigger | Schedule | 2:30 AM | 1 Day |
| HANA | Load-HANA-FullLoad-Trigger | Schedule | NA | 1 Hour |
| Load-HANA-DeltaLoad-Trigger | Schedule | 6:00 AM | 1 Day |
| Confirmed Dimension | Load-Location-Dimension-Trigger | Schedule | 1:45 AM | 1 Day |
| OIS | Load-OIS-Dimension-Trigger | Schedule | 4:00 AM | 1 Day |
| Load-OIS-Fact-Trigger | Tumbling Window | NA | 15 Minutes |
| Load-OIS-FullLoad-Trigger | Schedule | NA | 1 Hour |
| PI | Load-PI-Dimension-Trigger | Schedule | 4:00 AM | 1 Day |
| Load-PI-Fact-Trigger | Tumbling Window | NA | 5 Minutes |

* + 1. Maintenance
       1. Backfill Process

Backfill process is implemented to handle record deletions in the source fact table. The backfill process runs between 12 AM EST and 1 AM EST on a nightly basis. The ETL process will lookup config.BackFill table for the backfill logic to fetch the default backfill unit and value for each of the fact tables. The default BackFill value and backfill unit can be modified in the config.BackFill table if required.

The backfill frequency and the corresponding priority details are captured in config.BackFillPriority table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SourceName** | **SourceTableName** | **BackFillFrequency** | **BackFillUnit** | **BackFillValue** |
| DMS | CycleData | Adhoc | Day | 30 |
| Daily | Day | 4 |
| Monthly | Day | 40 |
| Weekly | Day | 40 |
| OIS | AU\_LOST\_PRODUCTION\_F | Daily | Day | 45 |
| LC\_AREA\_SCHED\_ACTUAL\_F | Daily | Day | 45 |
| PT\_MEASURE\_F | Daily | Day | 45 |
| QCL\_SAMPLE\_RESULTS\_F | Daily | Day | 45 |

* + - 1. Database Maintenance

PI Fact table

The maintenance for the Pi fact table is implemented in such a way that the purge activity takes place every 7 days. The purge activity is set for every Sunday. The data older than 30 days get deleted on every Sunday. At any point of time the PI fact table stores 30 days of data

Fact tables (DMS/OIS/HANA)

The other fact tables hold 3years of data at any point of time. The maintenance activity takes place yearly on the first Sunday of the year. The data for the current year and previous 3 years of data alone reside in the tables and the rest of them get deleted.

* + 1. Notes

Partition

The partition techniques are not implemented for the tables because the data movement between the partitions take very long time and this comes into picture only once a year when the maintenance activity is scheduled. Hence, implementing partitioning techniques seem to make maintenance tedious and thus the maintenance activity is implemented in the above said way.

Index Rebuilding

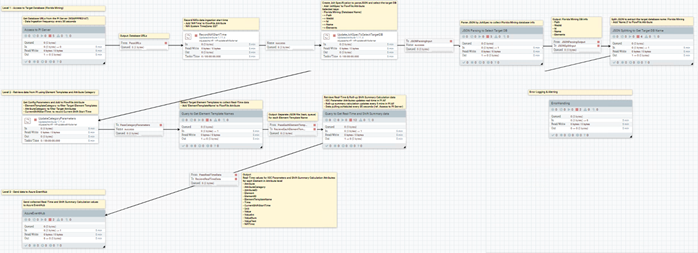
When loading data as a part of the maintenance activity on a monthly or yearly basis, index is disabled and rebuilt as a part of best practice. This is done to avoid slower performance and fragmentation of index on loading the data with index enabled.

* 1. **Azure Event Hubs & Stream Analytics**

Azure Event Hubs and Stream Analytics are designed to support real-time event ingestion and processing in Azure. IOC utilizes these services in addition to Apache NiFi to display the output of queries from PI AF system near-real time. Apache NiFi flow is scheduled to run every 60 seconds to update the underlying dataset. Users can see the snapshot information with maximum latency of 60 seconds on the PI Streaming Dataset and corresponding reports.

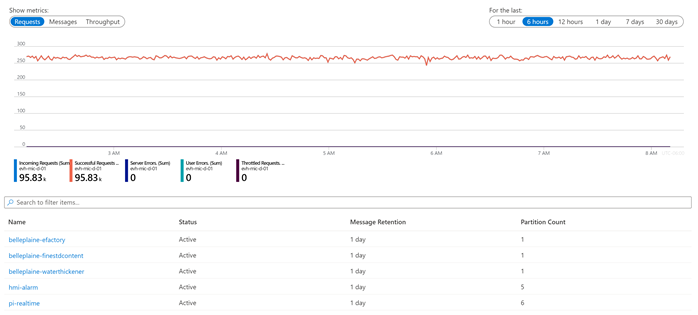
* + 1. Apache NiFi

Apache NiFi sits outside of Azure environment and works as a near-real time connector to initiate data movement from the PI AF server to Azure Event Hubs. It accesses to the source system every 60 seconds and start ingesting data. Ingest start time is added as an additional KPI to the query outputs to identify the ingress timestamp.



* + 1. Azure Event Hubs

Azure Event Hubs works as a gateway to Azure to continuously stream data from the PI AF source system. IOC project shares 1 Event Hubs Namespace for the entire project, and 1 Event Hubs Instance is provisioned for PI Streaming to capture and send query outputs collected by NiFi to Azure Stream Analytics.

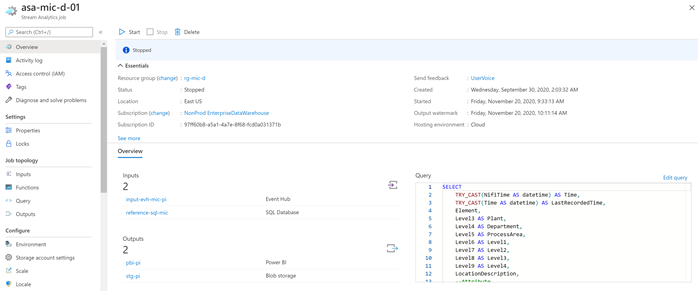


|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Event Hubs Namespace | Event Hubs Instance | Retention | Partition | Purpose |
| evh-mic-d-01 | pi-realtime | 1 day | 6 | To ingress PI AF attributes |

* + 1. Azure Stream Analytics

Azure Stream Analytics runs SQL-type query to process the events coming from the three Event Hubs Instances. It works as an event processing engine to develop and run real-time analytics on multiple streams of data from the Wonderware source.

* 1 input to stream PI AF attributes from the Event Hubs Instance
* 1 input to refer to SQL table for dimension tables (configuration only, not in use)
* 2 outputs to populate hot path Power BI push datasets and generate cold path ADLS archive files (.csv)



**Input streams**

|  |  |  |  |
| --- | --- | --- | --- |
| Stream Analytics | Input Name | Resource Instance | Purpose |
| asa-mic-d-01 | input-evh-mic-pi | evh-mic-d-01/ pi-realtime | To process PI AF attributes |
|  | reference-sql-mic | Sqldb-mic-d-01 | To provide dimension tables information for real-time analytics to refer to (not in use) |

**Output streams**

|  |  |  |  |
| --- | --- | --- | --- |
| Stream Analytics | Output Name | Target Name | Purpose |
| asa-mic-d-01 | pbi-pi | Pi Streaming Analytics (Certified) | To populate pi table in Power BI |
|  | stg-pi | stmicdatadev01/ioc/fact/PI/Snapshot | To store pi archiving files in ADLS |

**Query**

SELECT

TRY\_CAST(NifiTime AS datetime) AS Time,

TRY\_CAST(Time AS datetime) AS LastRecordedTime,

Element,

Level3 AS Plant,

Level4 AS Department,

Level5 AS ProcessArea,

Level6 AS Level1,

Level7 AS Level2,

Level8 AS Level3,

Level9 AS Level4,

LocationDescription,

--Attribute,

AttLevel1 AS Attribute,

CASE

WHEN AttLevel2 IS NULL THEN 'Value' ELSE AttLevel2

END AS Measure,

CASE WHEN AttLevel2 IS NULL THEN TRY\_CAST(Value AS float) ELSE NULL END AS Value,

CASE WHEN AttLevel2 = 'Hi' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Hi,

CASE WHEN AttLevel2 = 'HiHi' THEN TRY\_CAST(Value AS float) ELSE NULL END AS HiHi,

CASE WHEN AttLevel2 = 'Lo' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Lo,

CASE WHEN AttLevel2 = 'LoLo' THEN TRY\_CAST(Value AS float) ELSE NULL END AS LoLo,

CASE WHEN AttLevel2 = 'Maximum' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Maximum,

CASE WHEN AttLevel2 = 'Minimum' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Minimum,

CASE WHEN AttLevel2 = 'Target' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Target,

Unit,

Value AS SourceValue,

--ValueInt,

--TRY\_CAST(ValueInt AS bigint) AS ValueInt,

TRY\_CAST(ValueNum AS float) AS ValueNum,

--ValueText,

AttributeCategory,

ElementTemplateName,

ElementID,

AttributeID,

--CAST(System.Timestamp AS datetime) CurrentTimeUTC,

TRY\_CAST(CurrentShiftStartTime AS datetime) AS CurrentShiftStartTime,

CASE

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 0 THEN 'Y' ELSE 'N'

END AS CurrentShift,

CONCAT(AttributeID, '\_', ElementID, '\_', NifiTime) AS ID

INTO

[pbi-pi]

FROM

[input-evh-mic-pi]

SELECT

NifiTime AS Time,

TRY\_CAST(NifiTime AS datetime) AS TimeCast,

Time AS LastRecordedTime,

TRY\_CAST(Time AS datetime) AS LastRecordedTimeCast,

Element,

Level3 AS Plant,

Level4 AS Department,

Level5 AS ProcessArea,

Level6 AS Level1,

Level7 AS Level2,

Level8 AS Level3,

Level9 AS Level4,

LocationDescription,

--Attribute,

AttLevel1 AS Attribute,

CASE

WHEN AttLevel2 IS NULL THEN 'Value' ELSE AttLevel2

END AS Measure,

CASE WHEN AttLevel2 IS NULL THEN TRY\_CAST(Value AS float) ELSE NULL END AS Value,

CASE WHEN AttLevel2 = 'Hi' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Hi,

CASE WHEN AttLevel2 = 'HiHi' THEN TRY\_CAST(Value AS float) ELSE NULL END AS HiHi,

CASE WHEN AttLevel2 = 'Lo' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Lo,

CASE WHEN AttLevel2 = 'LoLo' THEN TRY\_CAST(Value AS float) ELSE NULL END AS LoLo,

CASE WHEN AttLevel2 = 'Maximum' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Maximum,

CASE WHEN AttLevel2 = 'Minimum' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Minimum,

CASE WHEN AttLevel2 = 'Target' THEN TRY\_CAST(Value AS float) ELSE NULL END AS Target,

Unit,

Value AS SourceValue,

--ValueInt,

--TRY\_CAST(ValueInt AS bigint) AS ValueInt,

TRY\_CAST(ValueNum AS float) AS ValueNum,

--ValueText,

AttributeCategory,

ElementTemplateName,

ElementID,

AttributeID,

CurrentShiftStartTime,

TRY\_CAST(CurrentShiftStartTime AS datetime) AS CurrentShiftStartTimeCast,

CASE

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 0 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 3600000 THEN '1'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 3600000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 7200000 THEN '2'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 7200000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 10800000 THEN '3'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 10800000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 14400000 THEN '4'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 14400000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 18000000 THEN '5'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 18000000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 21600000 THEN '6'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 21600000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 25200000 THEN '7'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 25200000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 28800000 THEN '8'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 28800000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 32400000 THEN '9'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 32400000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 36000000 THEN '10'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 36000000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 39600000 THEN '11'

WHEN DATEDIFF (millisecond, CurrentShiftStartTime, Time) >= 39600000 AND DATEDIFF (millisecond, CurrentShiftStartTime, Time) < 43200000 THEN '12'

ELSE null

END AS ShiftHour,

CONCAT(AttributeID, '\_', ElementID, '\_', NifiTime) AS ID,

MIN(TRY\_CAST(NifiTime AS datetime)) AS WindowStartCast,

System.Timestamp() AS WindowEndUTCCast

INTO

[stg-pi]

FROM

[input-evh-mic-pi]

GROUP BY

NifiTime,

Time,

Element,

Level3,

Level4,

Level5,

Level6,

Level7,

Level8,

Level9,

LocationDescription,

--Attribute,

AttLevel1,

AttLevel2,

Unit,

Value,

--ValueInt,

ValueNum,

--ValueText,

AttributeCategory,

ElementTemplateName,

ElementID,

AttributeID,

CurrentShiftStartTime,

ShiftHour,

ID,

TumblingWindow(minute, 5)

1. Dataset Design
   1. Connection Details

Production Server Name:   sqlserver-mic-p-01.database.windows.net

Database Name: sqldb-mic-p-01

QA Server Name:  sqlserver-mic-q-01.database.windows.net

Database Name:  sqldb-mic-q-01

Dev Server Name:  sqlserver-mic-d-01.database.windows.net

Database Name: sqldb-mic-d-01

* 1. Source Details

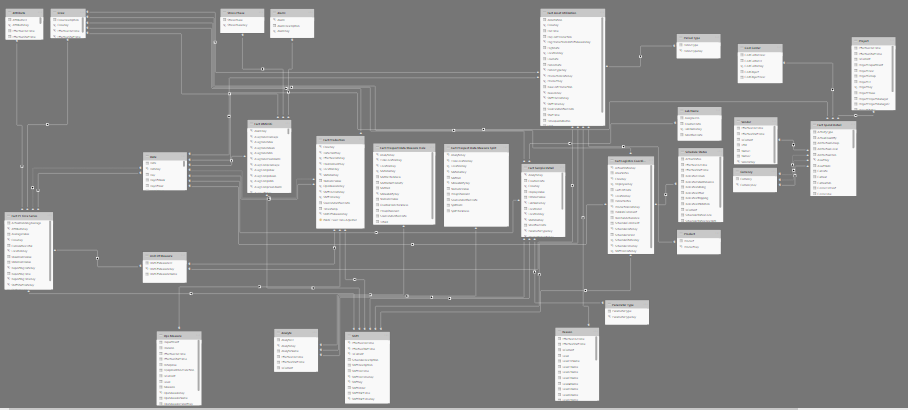
Details about different sources and the ingest query of the table, click [here](file:///U:\Folders_backup\Ingest_query.xlsx)

|  |  |  |
| --- | --- | --- |
| Source System | Table, View or File Name | Technical Name (If Applicable) |
| Schema Model | DimActualStatus | model.DimActualStatus |
| Schema Model | DimAlarm | model.DimAlarm |
| Schema Model | DimAnalyte | model.DimAnalyte |
| Schema Model | DimAsset | model.DimAsset |
| Schema Model | DimAttribute | model.DimAttribute |
| Schema Model | DimCostCenter | model.DimCostCenter |
| Schema Model | DimCostElement | model.DimCostElement |
| Schema Model | DimCrew | model.DimCrew` |
| Schema Model | DimCurrency | Model.DimCurrency |
| Schema Model | DimCycleType | Model.DimCycleType |
| Schema Model | DimDataPoint | Model.DimDataPoint |
| Schema Model | DimDate | Model.DimDate |
| Schema Model | DimEmployee | Model.DimEmployee |
| Schema Model | DimEnvironment | Model.DimEnvironment |
| Schema Model | DimHoleLocation | Model.DimHoleLocation |
| Schema Model | DimItem | Model.DimItem |
| Schema Model | DimLabName | Model.DimLabName |
| Schema Model | DimLocation | Model.DimLocation |
| Schema Model | DimMaterial | Model.DimMaterial |
| Schema Model | DimMineability | Model.DimMineability |
| Schema Model | DimOpsMeasure | Model.DimOpsMeasure |
| Schema Model | DimParameterType | Model.DimParameterType |
| Schema Model | DimPeriodType | Model.DimPeriodType |
| Schema Model | DimProduct | Model.DimProduct |
| Schema Model | DimProject | Model.DimProject |
| Schema Model | DimPurchaseOrder | Model.DimPurchaseOrder |
| Schema Model | DimReason | Model.DimReason |
| Schema Model | DimSample | Model.DimSample |
| Schema Model | DimScheduleStatus | Model.DimScheduleStatus |
| Schema Model | DimShift | Model.DimShift |
| Schema Model | DimStressPhase | Model.DimStressPhase |
| Schema Model | DimTime | Model.DimTime |
| Schema Model | DimTimeCode | Model.DimTimeCode |
| Schema Model | DimUnitOfMeasure | Model.DimUnitOfMeasure |
| Schema Model | DimVendor | Model.DimVendor |
| Schema Model | DimWODepartment | Model.DimWODepartment |
| Schema Model | DimWorkOrder | Model.DimWorkOrder |
| Schema Model | FactAssetUtilization | Model.FactAssetUtilization |
| Schema Model | FactDMSIOC | Model.FactDMSIOC |
| Schema Model | FactLogisticsCoordinator | Model.FactLogisticsCoordinator |
| Schema Model | FactPITimeSeries | Model.FactPITimeSeries |
| Schema Model | FactProduction | Model.FactProduction |
| Schema Model | FactProspectDataMeasureSplit | Model.FactProspectDataMeasureSplit |
| Schema Model | FactProspectDataMeasureHole | Model.FactProspectDataMeasureHole |
| Schema Model | FactSampleDetail | Model.FactSampleDetail |
| Schema Model | FactSpendDetail | Model.FactSpendDetail |
| Schema Model | FactAssetUtilizationMDPR | Model.FactAssetUtilizationMDPR |

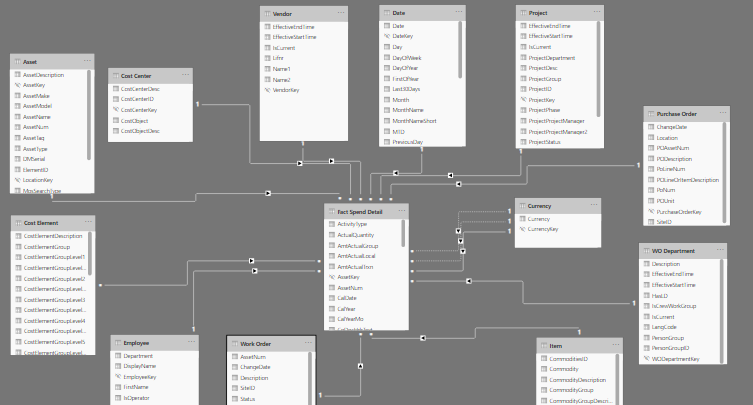
* 1. Dataset Model

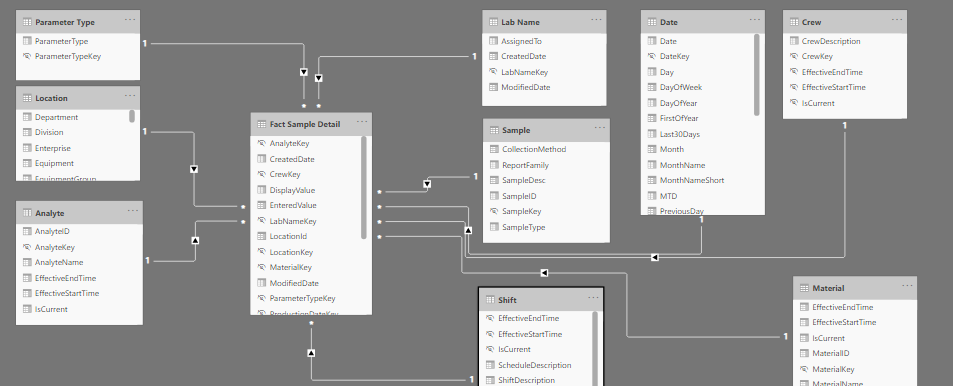
Semantic Model in Power BI

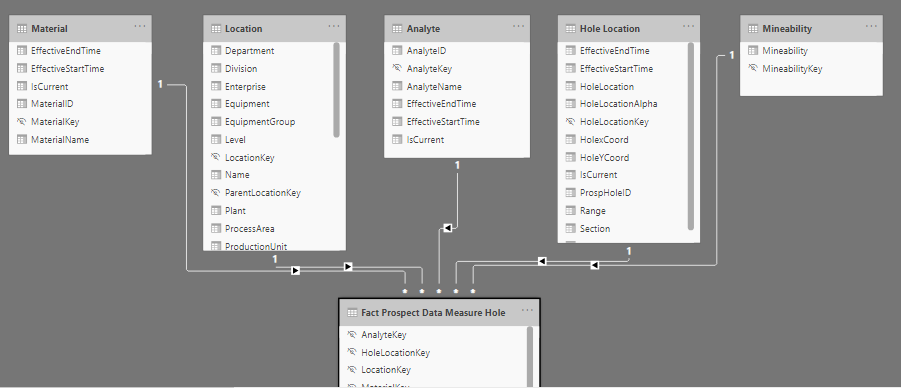
Centralised View of all Joins to Dim and Fact.



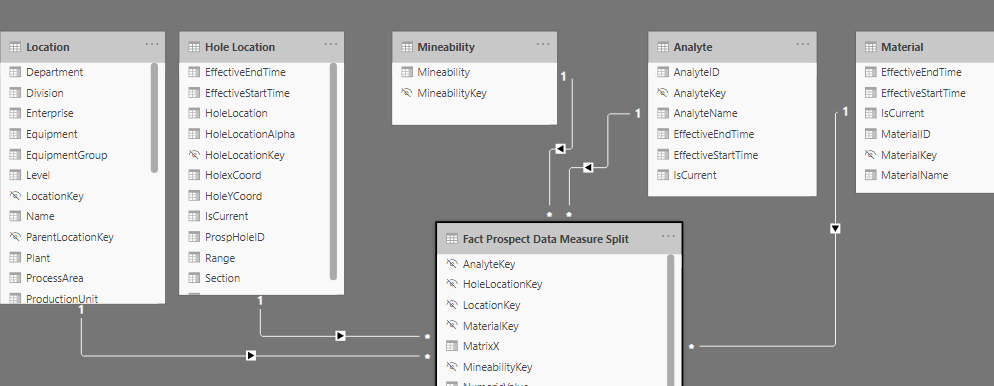
Fact Spend Detail:

Fact SampleDetail:

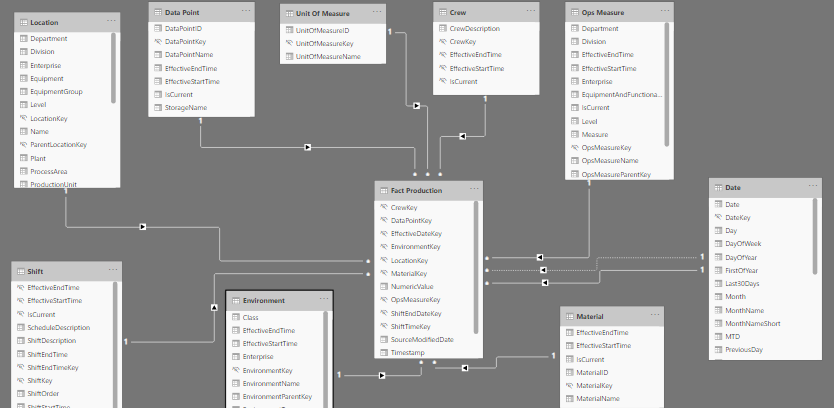
Fact ProspectDataMeasureHole



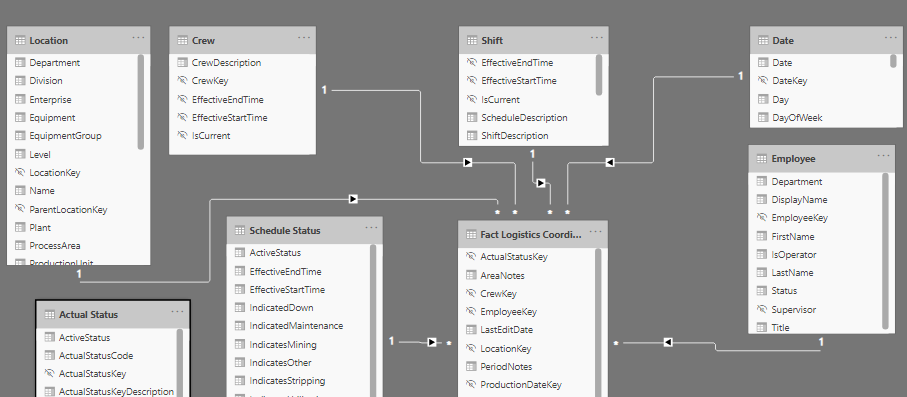
Fact ProspectDateMeasureSplit



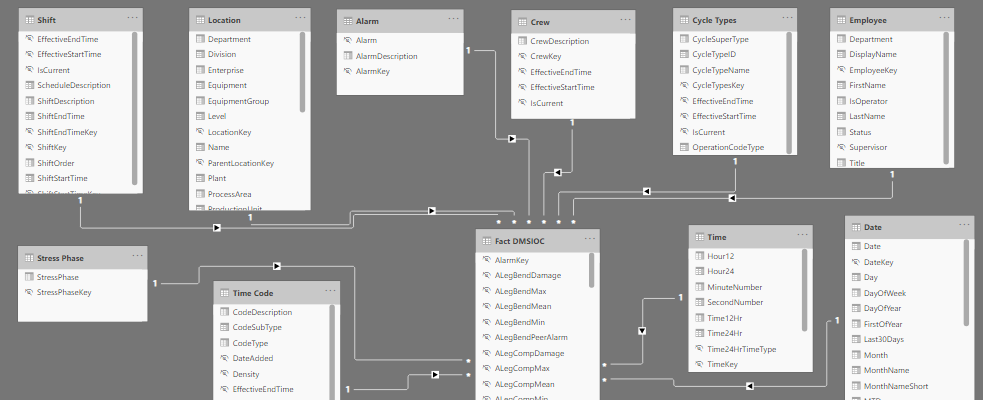
Fact Production



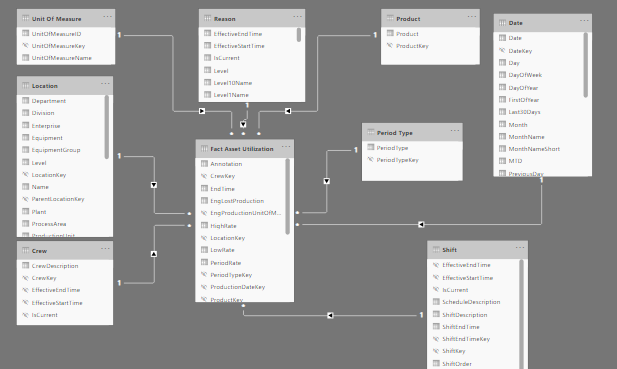
FactLogisticsCoordinator



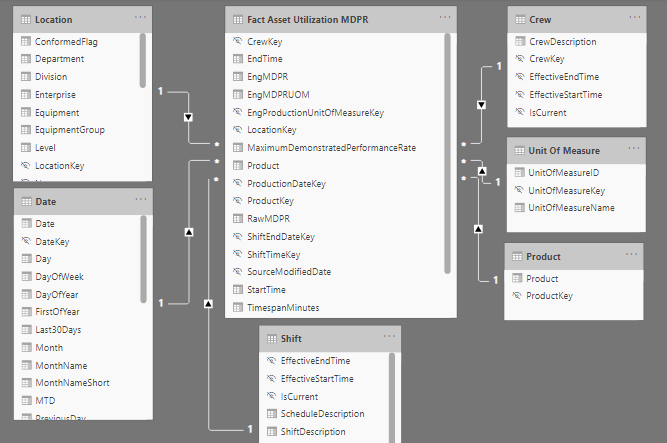
Fact DMSIOC



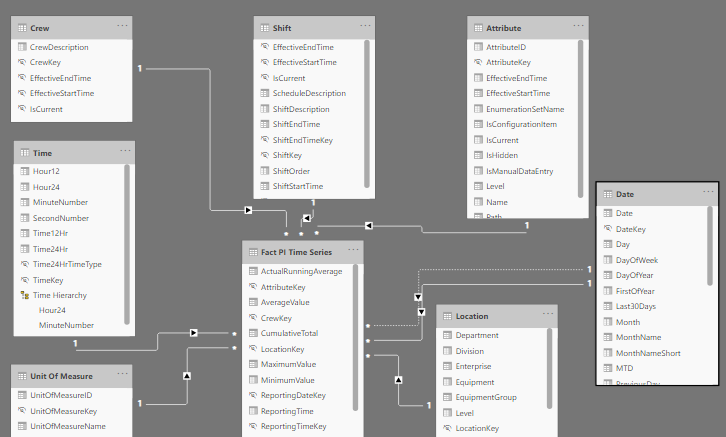
Fact AssetUtilization



Fact AssetUtilizationMDPR



Fact PITimeSeries



* 1. Dataset Table Detail

1. Transformations Performed on Source
2. Table Definition – List of Tables
3. Column Definition – List of Tables with Column Description
4. Measure – Measure Names/ measure calculation/ Dax Formula Calculation
   1. KPI Catalog

[Link to Functional KPI Catalog](https://mosaicco.sharepoint.com/:x:/s/IOCIntegrationOperationsCenterImplementationProject/EQ4KCu_TFHdJmZfHtqxgaAUBr9pRa4pQc7pHJxzzUMjcbQ?e=enXEWc)

* + 1. KPIs and Measures

|  |  |
| --- | --- |
| Field | Description |
| Column | Name of the column |
| Table | Name of the table |
| Description | Definition of column that is informative to business users |
| Data Lineage | Source system(s) of the column and any relevant transformations or dependencies |
| Business Owner | Job title for the Business PoC |
| Purpose | Name of the initial project to deliver the columns |
| Initiative | Business Unit responsible for the initial project |
| Certified Dataset Owner | Functional CoE group responsible for approving and endorsing new and/or enhancements dataset |
| Certified Dataset Name | Name of the Certified Dataset |
| Certified Dataset Location | Power BI Workspace |

* + 1. Dimensions

|  |  |
| --- | --- |
| Field | Description |
| KPI | Name of the Key Performance Indicator |
| Description | Definition of KPI that is informative to business users |
| Calculation | Summary of the aggregation and used for the calculation |
| Data Lineage | Source system(s) of the column and any relevant transformations or dependencies |
| KPI Business Owner | Job title for the Business PoC |
| Purpose | Name of the initial project to deliver the calculations |
| Initiative | Business Unit responsible for the initial project |
| Certified Dataset Owner | Functional CoE group responsible for approving and endorsing new and/or enhancements to the dataset |
| Certified Dataset Name | Name of the Certified Dataset |
| Certified Dataset Location | Power BI Workspace |
| Required Context | Filter context that is required for the measure to work properly |
| Ignored Context | Filter context that is ignored |

* 1. Refresh Frequency

1. Source Frequency - Daily
2. Dataset Frequency - Daily (10am EST)
3. Users Notified for Failures - Yes
   1. Visualization Design

Document the purpose, audience and KPIs for each of the Dashboards, Reports and Visualizations to be created in Power BI

* + 1. Reports

|  |  |  |
| --- | --- | --- |
| Report Name | Description | KPIs |
| UAT Validation Report for IOC Dataset - Live | Report to Validate the KPI Catalog Measures and Fact tables, Dim Tables | As Per Source to Target Mapping Document |

* Document the page level filters
  + **Not Applicable.**
* Document the visualizations
  + **Not Applicable**

1. Delivery and Deployment
   1. Workspace

|  |  |
| --- | --- |
| Workspace Name | Owner |
| [Dev – NA Operations - Minerals](https://app.powerbi.com/groups/783c93fd-534a-484b-8a25-400ae76c8896/list/dashboards) | Ethan Hull |
| [QA – NA Operations - Minerals](https://app.powerbi.com/groups/a824c235-18fc-416f-a380-4c54a16a2519/list/dashboards) | Ethan Hull |
| [Prod – NA Operations - Minerals](https://app.powerbi.com/groups/bed753a5-6b5e-4fb5-b38a-7b35ac9ba9dc/list/dashboards) | Ethan Hull |

* 1. SharePoint

Documented the details for PBIX storage on SharePoint

|  |  |  |  |
| --- | --- | --- | --- |
| Document Folder | Purpose | Audience | AD Security Group |
| [Dev](https://mosaicco.sharepoint.com/:f:/s/IOCIntegrationOperationsCenterImplementationProject/Er21KEhvQRlArwiACfBMo1UBVSngsJjwkwQkdtllhAWwIg?e=A2GsSQ) | To hold development Artifacts | Data Architects and Power Users | TBD |
| [QA](https://mosaicco.sharepoint.com/:f:/s/IOCIntegrationOperationsCenterImplementationProject/Euk8DLn-x2JBiZeUalapzY4BNvhnXS_QCRmFxvl0Dxc_aQ?e=UKTUHZ) | To hold testing Artifacts | Data Architects, Power Users, Business Owners and Self-Service Users for testing | TBD |
| [Prod](https://mosaicco.sharepoint.com/:f:/s/IOCIntegrationOperationsCenterImplementationProject/Euk8DLn-x2JBiZeUalapzY4BNvhnXS_QCRmFxvl0Dxc_aQ?e=UKTUHZ) | To hold Production Artifacts | Data Architects and Power Users | TBD |

* 1. Dataset Development Best Practices Checklist

Below is a checklist for dataset development to ensure usability, testing, and Q&A features.

|  |  |
| --- | --- |
| Best Practice | Status |
| Create UAT Validation Report for [Project] Dataset - Live | Done |
| The UAT Report has a page for each fact table with necessary dimension columns (provided by business) | Done |
| Slicer visuals are added and applied on page for each related Dim Table (provided by business) | Done |
| Pages are created for each fact, in the Model View, with the related dimension tables | Done |
| Test case for Measure Values are provided by business and pages are bookmarked | NA |
| Q&A Feature enabled in the Options and Settings | Done |
| Each Query is parameterized for Source and Schema | Done |
| Columns with numeric data types in dimension tables are set to do not summarize | Done |
| Columns with numeric data types in dimension tables that are identified as defined as Boolean type in Power Query | Done |
| Hierarchies are established for all logical fields in dimension tables | Done |
| Properties are configured for tables (i.e. Description, Synonyms, Row Labels, and Key Columns) | In-Progress (Awaiting Business User Inputs) |
| Properties are configured for columns (i.e. Description, Synonyms, Display Folder, Is Hidden, Data Type and Format) | In-Progress (Awaiting Business User Inputs) |
| ID and Key columns are set to hidden within the dataset | Done |
| Properties are configured for measures (i.e. Description, Synonyms, Display Folder, Format, Percent Format, Thousands Separator and Decimal Places) | Done |
| Calculated Measures adhere to semantic naming conventions (i.e. Special characters are removed, spaces are applied, “Avg" is changed to "Average") | Done |

1. Security

[IOC - NA Operations - Minerals - AD Security Group](https://mosaicco.sharepoint.com/:x:/s/IOCIntegrationOperationsCenterImplementationProject/EVjKyTTdi9NMh6RqCqwTqugBLSyi07xniWDtFR1T1Hot0g?e=cL64wh)

[Power BI - AD Security and Workspace Alignment - Demo](https://mosaicco.sharepoint.com/:p:/s/PowerBICommunity-PowerBIAdministration/EXm3UnlIst1BhV1K3uMXWZoBabsI8Ep5q8b_HxItxY84cw?e=0z7eRr)

* Auditing requirements for the Data Services solution are defined as revisions by user, file, time and channel.
* Data Access Roles and Security Groups to align with the Power BI Workspace, Persona and Environment.
* Business Owner(s) identified for the approvals of Workspace and Dataset Access Request which is managed using Azure AD Security Groups

|  |  |
| --- | --- |
| Workspace Name | Owner |
| Dev - NA Operations - Minerals | Ethan Hull |
| QA - NA Operations - Minerals | Ethan Hull |
| Prod - NA Operations - Minerals | Ethan Hull |

|  |  |
| --- | --- |
| Security Group by Workspace | Owner |
| MIC\_DEV\_PBI\_NAO\_MINERALS | Ethan Hull |
| MIC\_QA\_PBI\_NAO\_MINERALS | Ethan Hull |
| MIC\_PROD\_PBI\_NAO\_MINERALS | Ethan Hull |

|  |  |
| --- | --- |
| Security Group by Environment & Persona | Owner |
| MIC\_DEV\_PBI\_NAO\_DA | Xu Liu |
| MIC\_DEV\_PBI\_NAO\_MINERALS\_PU | Ethan Hull |
| MIC\_DEV\_PBI\_NAO\_MINERALS\_SS | Ethan Hull |
| MIC\_QA\_PBI\_NAO\_DA | Xu Liu |
| MIC\_QA\_PBI\_NAO\_MINERALS\_PU | Ethan Hull |
| MIC\_QA\_PBI\_NAO\_MINERALS\_BO | Ethan Hull |
| MIC\_QA\_PBI\_NAO\_MINERALS\_SS | Ethan Hull |
| MIC\_QA\_PBI\_NAO\_MINERALS\_RC | Ethan Hull |
| MIC\_PROD\_PBI\_NAO\_DA | Xu Liu |
| MIC\_PROD\_PBI\_NAO\_MINERALS\_PU | Ethan Hull |
| MIC\_PROD\_PBI\_NAO\_MINERALS\_BO | Ethan Hull |
| MIC\_PROD\_PBI\_NAO\_MINERALS\_SS | Ethan Hull |
| MIC\_PROD\_PBI\_NAO\_MINERALS\_RC | Ethan Hull |

* 1. Approval:
     1. Row level security

**Not Applicable**

<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls>

* + 1. Test Cases

[Link to Test Case Documentation Repository](https://mosaicco.sharepoint.com/:f:/s/IOCIntegrationOperationsCenterImplementationProject/Eo686mHCzN5ArCe6VmpvyJEB7Wr-JrexP-A5LrZnUYDyuQ?e=X2sLDc)

1. Appendix
   1. AD Groups and Members

For a detailed list of AD Groups and members please refer to the Initial AD Security Group Request form.

MIC - [IOC- AD Security Group](https://mosaicco.sharepoint.com/:x:/s/IOCIntegrationOperationsCenterImplementationProject/EVjKyTTdi9NMh6RqCqwTqugBLSyi07xniWDtFR1T1Hot0g?e=Z4DDGq)

* 1. Process for adding a member to an existing AD security group

Submit a general Global Service Desk request with the following information:

* User Name
* User ID
* AD Security Group Name
  1. Process for requesting a new AD security group be created

Submit a general service desk ticket. The service desk ticket needs to include:

* AD Security Group Name
* AD Security Group Business Owner
  1. Glossary of Terms

|  |  |
| --- | --- |
| **Term** | **Definition** |
| N/A | N/A |

* 1. Additional Information and Attachments

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| **Document Name** | **File Location** | **Comments** |
| (Additional Documents) | N/A | N/A |

* 1. Responsible Organizations

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