**\*\*Jackson Fan Progress Report\*\***

**09.08.2023 to 11.08.2023**

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**\*\*Understanding and Development: \*\***

- Gained an understanding of the MDP framework and reviewed Willem's contributions.

- Developed a personalized workflow for MDP.

**\*\*Workflow Steps: \*\***

1. Opened `ETL.Control` and `ETL.Control Flow` Table.

2. Realized the need to manually update `ETL.Control` and `ETL.Control Flow` Table using insert or update statements.

3. Developed an Excel Helper to assist with Insert and Update operations.

4. Copied the IBIS 1000 series from ETL control table.

5. Discovered that several Stored Procedures (SP) need to be copied and updated. Found it easier to update SP on SSMS due to color coding.

6. Updated `sp\_get\_JsonResponse` into Vault HS.

7. Ran a sample response of Vault HS API call to determine the column structure. Leveraged GPT for assistance in outlining the column structure.

8. Used Excel to visualize the column structure after pasting the Select Statement with the sample column response.

9. Currently deciding on which columns to hash for creating a unique value for `sp\_Update\_extract`.

10. Considering hashing `TARGET.[recordId]`, `TARGET.[date]` for Vault HS. However, contemplating a design change to hash `.recordId`, `Site id`, and `Correction ID` for a unique value.

11. Plan to utilize the Merge helper excel sheet for SP column generation.

**\*\*PRESENTATION.sp\_Transform Updates:\*\***

- Recognized the complexity of updating `PRESENTATION.sp\_Transform`.

- The process involves using an API call for a sample response.

- GPT assists in extracting all column names to the finest detail.

- The challenge lies in swapping column names between source and target and handling the OPEN JSON part of the Stored Procedure.

- The entire update process for the stored procedure takes approximately two hours. This raises concerns for scalability with multiple data sources.

**\*\*Table Creation: \*\***

- Several tables need creation, currently at four.

- Questions arise regarding manual table creation, especially when dealing with potential text fields that might require updates to NVARCHAR MAX.

- Tables created so far:

1. `[STAGE].VaultHS\_Hazard\_Risk\_JsonResponse`

2. `Stage.extract\_VaultHS\_Hazard\_Risk\_DELTA` (with a mock PK column `[DETL\_ExtractKey] [bigint] IDENTITY(1,1) NOT NULL`)

3. `extract\_VaultHS\_Hazard\_Risk`

4. `[PRESENTATION].[VaultHS\_Hazard\_Risk]` (with the same PK as `extract\_VaultHS\_Hazard\_Risk`)

**\*\*Testing and Considerations: \*\***

- Conducted tests on the workflow with the Vault API endpoint.

- Identified that each endpoint requires the creation of 7 objects: 4 tables and 3 stored procedures.

- Currently exploring ways to enhance data ingestion development and testing efficiency.