

2.1B OMOP Team 2 Status Report

Project Title: OMOPSync

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1. Overview:

- This week, the team updated the NABC presentation, advanced ETL pipelines, extended data mapping, set up a data quality dashboard, and progressed AI and ATLAS setup. Next week, we plan to complete the AI functionality, finalize ATLAS setup, and conduct further data analyses.

2. This Week's Accomplishments:

- Updated the NABC presentation based on feedback from Dr. Carlson.
- Set up ETL pipelines using the R script from Lab 7, wrapped with a Python layer.
- Extended data mapping documentation by mapping Synthia dataset fields into the OMOP CDM tables.
- Established the data quality dashboard and successfully ran queries and analyses on the OMOP CDM tables.
- Progressed halfway through AI functionality implementation: set up MCP servers and are working on connecting MCP servers with MCP clients.

3. Tasks Still in Progress:

- Completing the connection between MCP servers and MCP clients for AI functionalities.
- Setting up ATLAS and connecting it to the PostgreSQL database.

4. Team Communication

- Held four team meetings throughout the week to coordinate progress, address challenges, and align on technical tasks.
- Team members actively collaborated to integrate feedback and synchronize efforts across ETL pipeline development, AI integration, and data mapping documentation.

5. Next Week's Plan

- Complete the AI functionality
- Finalize the ATLAS setup
- Conduct additional analyses on the OMOP CDM tables