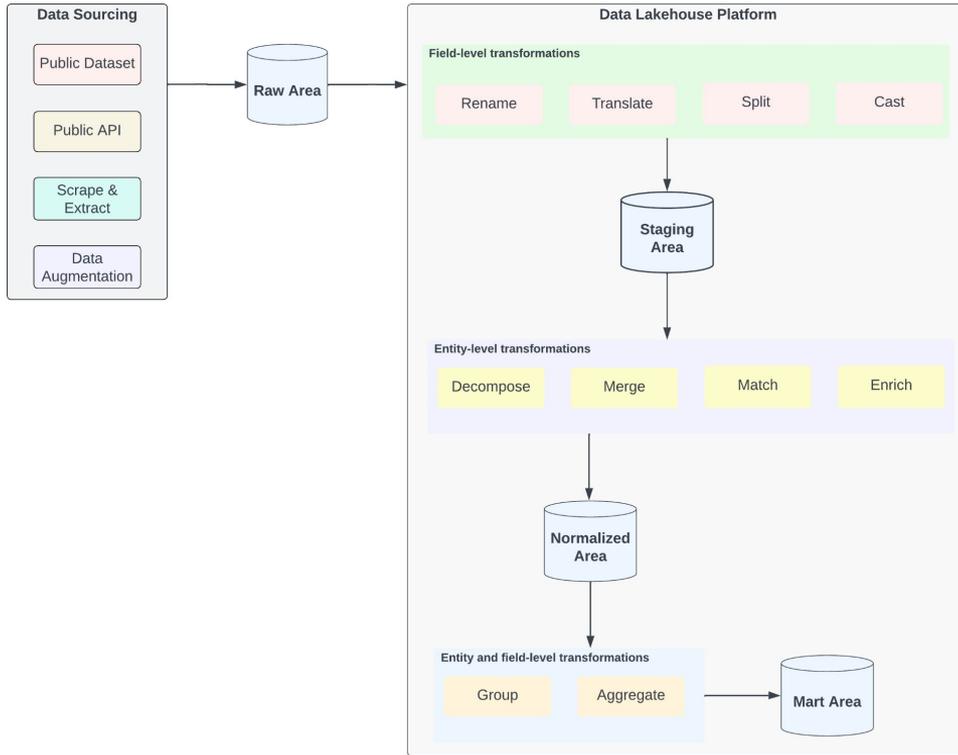


Data Modeling

Elements of Data Integration (CS 333E)

Feb 20, 2026

The Staging Layer



- Convert to semantic data types (anomaly 6)
- Convert multi-valued fields to scalars (anomaly 7)
- Rename non-descriptive fields
- Drop low-quality fields

Common Challenges with the Staging Layer

Challenge 1: Handling ingestion failures.

Challenge 2: Handling late arrival data.

Challenge 3: Handling schema drift.