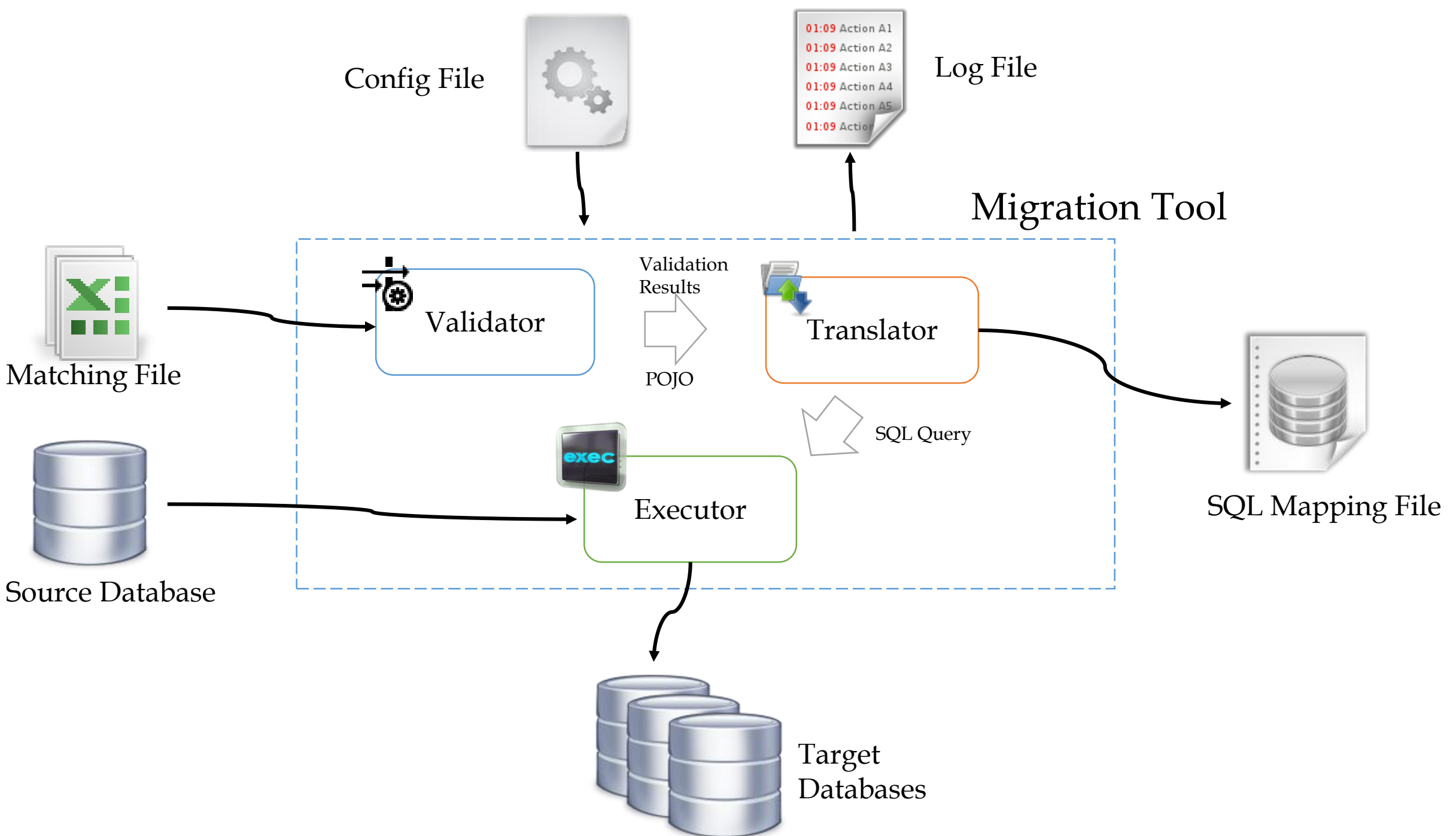


eSaude

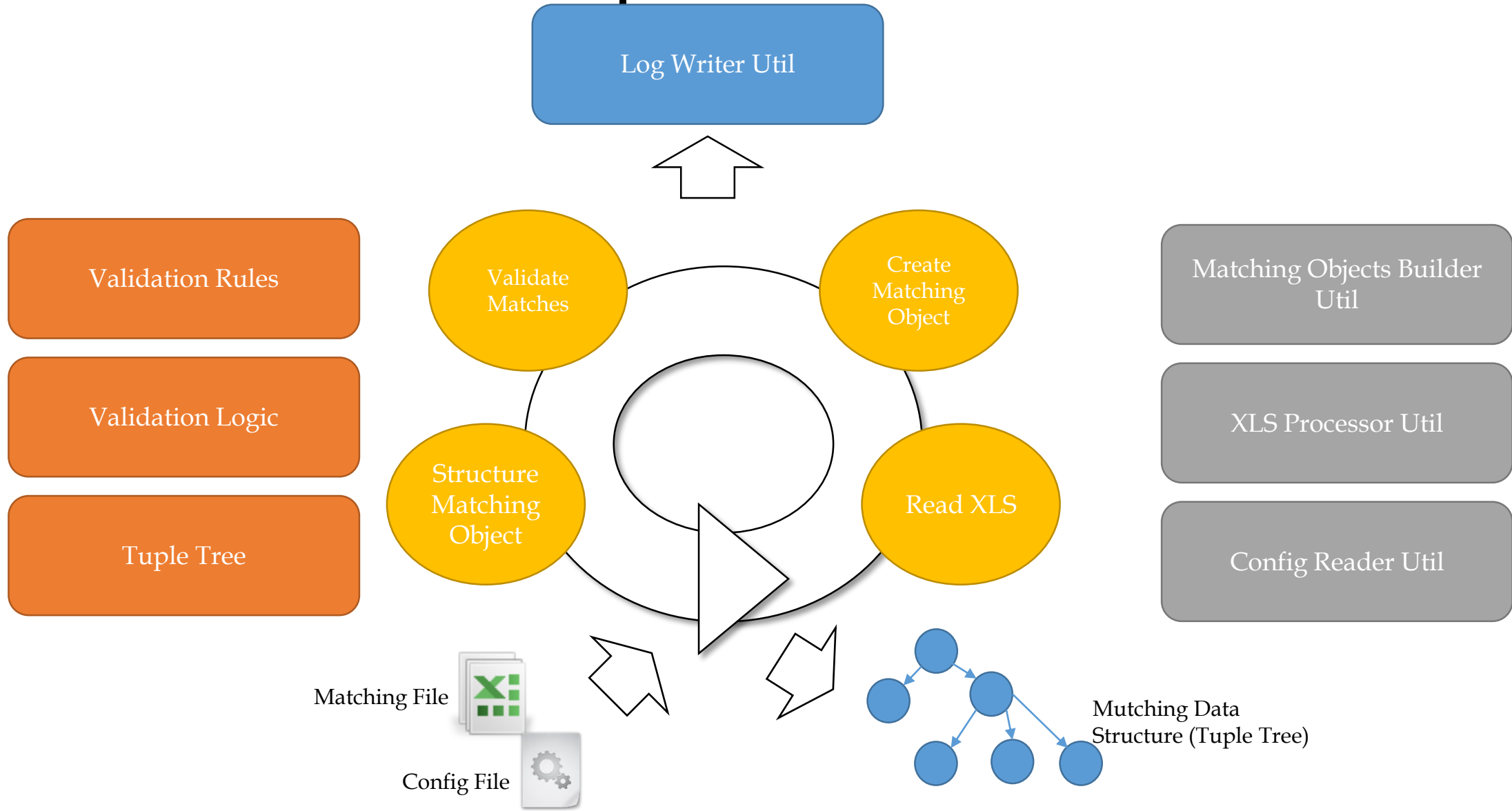
Data Migration Tool Development Approach

Approach

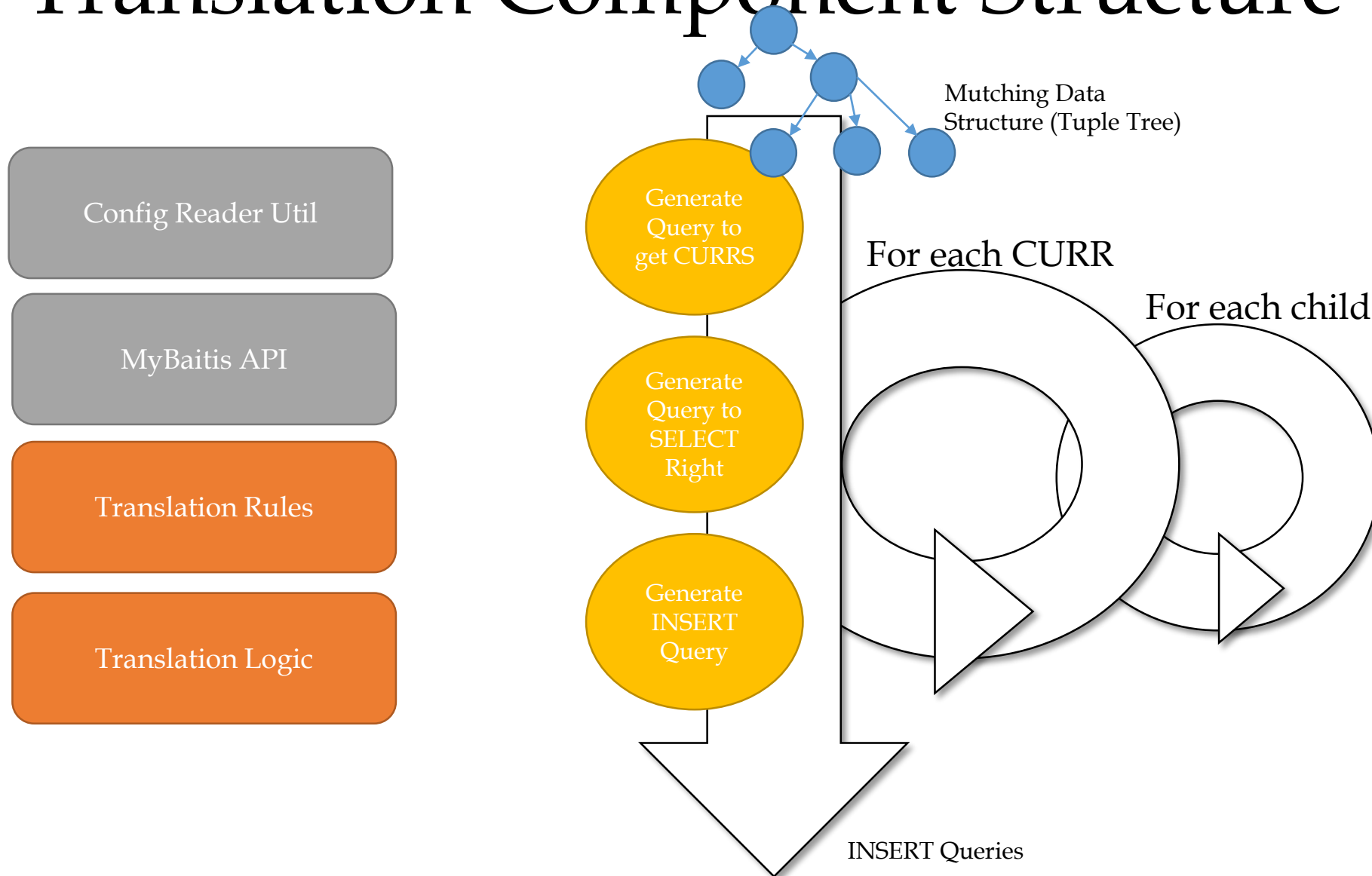
- Reusable
 - Developed once and used when needed
 - The mapping is created based on input logic
- Configurable
 - The migration logic is structured in a user friendly and versatile input worksheet
- Auditable
 - Provide feedback to the user and the tool itself
- General Purpose
 - Can be used out of the box (evolving OpenMRS as the target database)



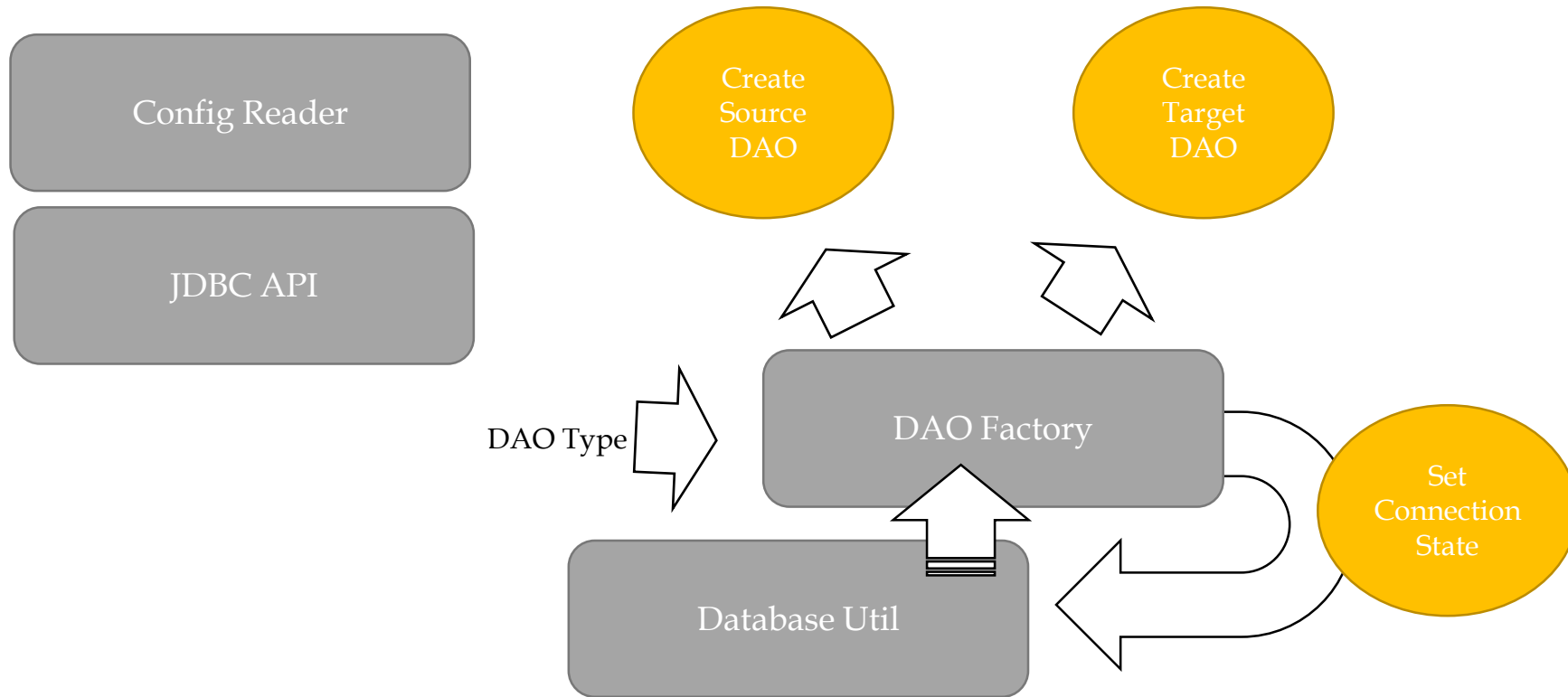
Validation Component Structure



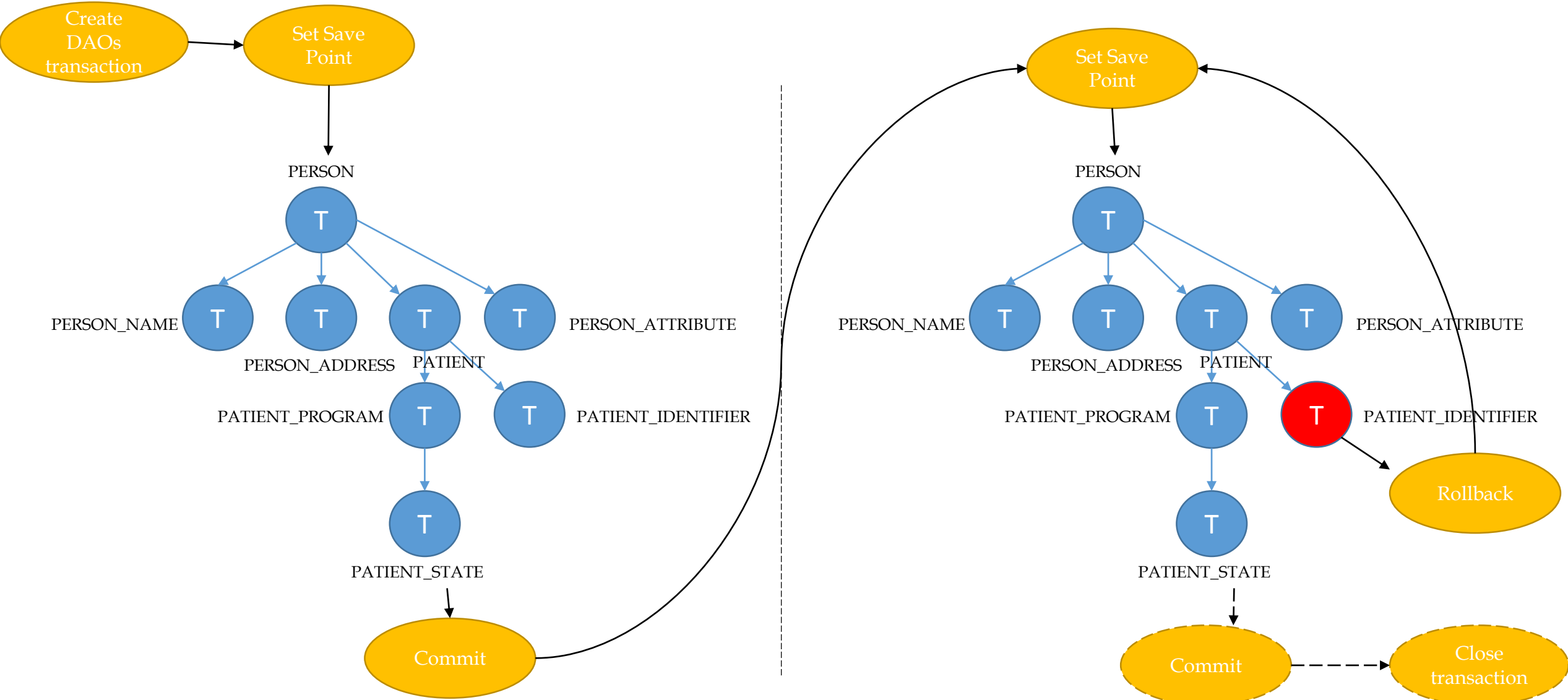
Translation Component Structure



Execution DAO Structure



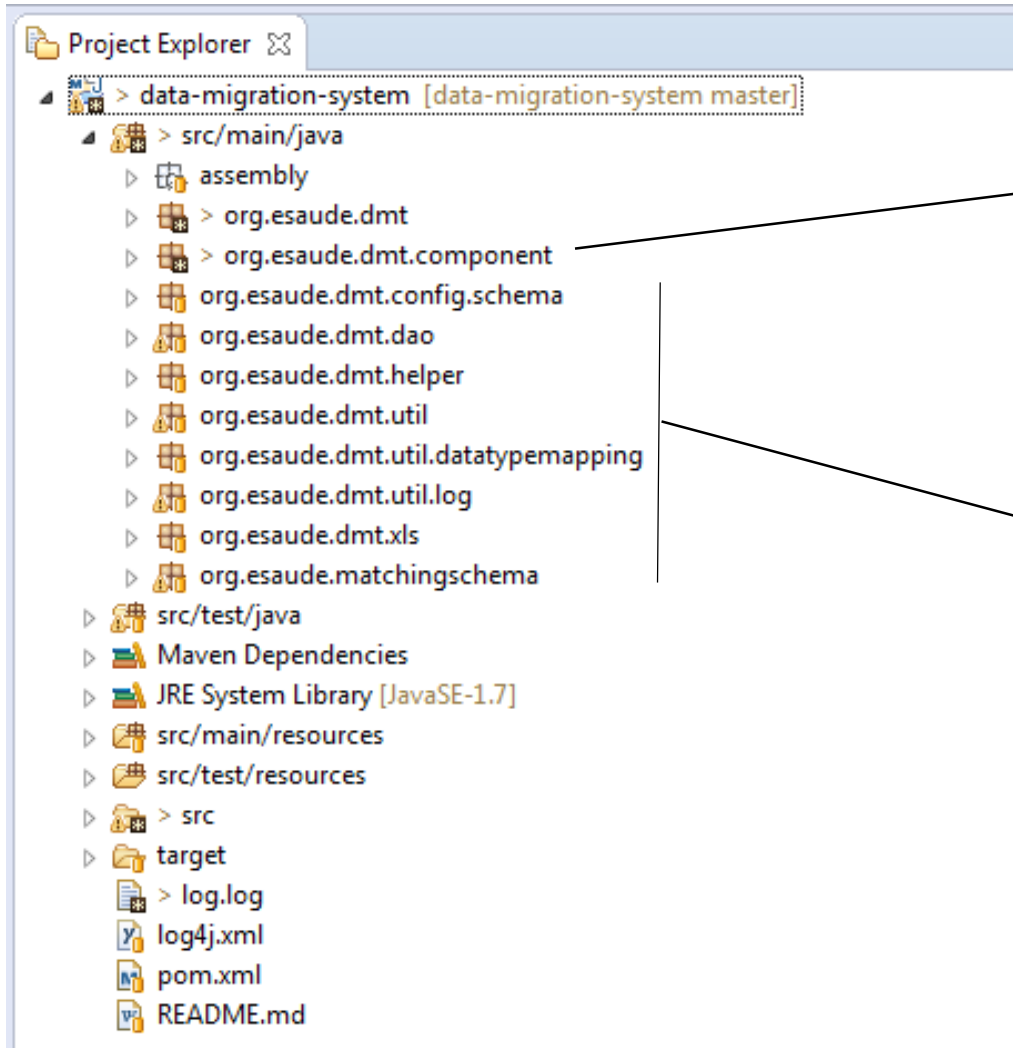
Execution Transaction Mechanism



Re-Execution Mechanism

- The execution terminates if encounter an error
- The re-execution must start from the save point of the rollback

Project Structure



Business Logic

Utils and Helpers

Limitations

- The matches are still close to technical SQL language
- The hardwork of creating the mappings are not automated
- The mapping process requires a deep understanding of the concepts of both sides of the migration
- There is no input validation