ETL Tools

Pentaho Data Integration (ETL) a.k.a Kettle - https://github.com/pentaho/pentaho-kettle

 Kettle scripts (Pentaho data-integration)
- Original tranSMART ETL method
- Scripts to manipulate data
- Pivot input files
- Load to staging tables
- Invoke stored procedures
- Try to catch errors
- Integrated in other tools
- Transmart-data make targets
- ICE tool GUI

tMDataLoader - https://github.com/Clarivate-LSPS/tMDataLoader
- Developed by Clarivate (formerly Thomson Reuters)
- Validates input files
- Adds new options for clinical data
- Run loads all data types for all studies

Transmart-batch - https://github.com/thehyve/transmart-batch
- Developed by the Hyve (Netherlands)
- Replaces stored procedures
- Avoids staging tables
- Designed for performance
- Repeat previous run

SSIS - https://docs.microsoft.com/en-us/sql/integration-services/sql-server-integration-services?view=sql-server-2017

- Developed by the Microsoft
- Native for SQL Server, plugin for Oracle and ODBC connection for PostgreSQL
- GUI tool with drag and drop, lots of features
- Designed for performance
- Repeat previous run