

# Data Version Unifier

Allows standardize the metadata and integrate the information from the data schemas of various versions of entities, avoiding the existence of errors derived from the different schemas.

**Data Version Unifier** also allows integrate new tables with old schemas, unifying to a destination table. From the data schemas of various versions of entities, such as CFDI's, Purchase Orders (PO), catalogs of products, suppliers or customers, among others

The internal process of this solution performs a cycle between different versions, where each version will be placed in its corresponding destination according to the comparison made in the cycle (data lineage).

The source and target can be any combination of connected and allowed relational database providers (RDBMS), for example:

- SQL Server database versions 2012 or later
- Azure SQL Database
- SQL Server in virtual machine
- Azure Database for PostgreSQL
- Azure Database for MySQL
- Among others.

This solution performs some simple detections of patterns in fields automatically, however, for optimal operation the process requires business rules and manual validation in case of not detecting simple patterns between the fields.

The differences between source and destination appear in a comparative matrix to facilitate their validation. Once you have the complete mapping of the different versions, you can perform the required operations: Validation, Comparison and Integration.

Once the process is finished, a notifications are sent via email to the administrators with the report of the integration results. The comparisons are saved and can be integrated into a script to versioned, and later modified and used later.

The base of this solution is in Databricks, which allows handling large volumes of data.



The problem of having different schemas and not being able to compare the information in the same entity is common in projects where it's required to validate, perform operations, use derived columns, compare and integrate historical information.

– Government customer

