Flowchart

Legend:
- Source Schema / Source Table / Target Schema / Target Table
- Create Target Table / Use Auditing / Create Audit Table / Remove Non-Source Data
- Use Target Collation / Clear Target Table / Use All Columns / Equalize Text Data

Shape Key:
- Start
- Decision
- Setting
- Sub process
- Process

Start

Does Source Table exist? — No → **Exit**

Yes ↓

Get columns for Source Table

Is the switch Clear Target Table activated?
- No → Is a Primary Key defined for Source or Target?
  - No → Is a Primary Key or Identifier present on Source Table?
    - No → Is a Primary Key present on Target Table?
      - No → **Exit**
      - Yes → **Use Target Table Primary Key**
    - Yes → **Use Source Table Primary Key**
  - Yes → **Use defined Primary Key**
- Yes ↓

The Primary Key is used to identify/match the same record in both tables for compare and update purposes

Does Target Table exist?
- No → Create Target Table?
  - No → **Exit**
  - Yes ↓
    - Use Auditing?
      - No → **Create Target Table**
      - Yes → **Create Target Table with SU_LogDate column**
- Yes ↓

Get columns for Target Table

Is the switch Use All Columns activated?
- No → Is there a configuration for this table?
  - Yes → **Get columns to copy from configuration**
  - No → **Copy All columns that match by Name and Datatype**
- Yes → **Copy All Columns, match by name.**

Right branch: **Copy all defined Columns, match by name**

Create list of columns to copy

Copy Columns are all columns that will be copied from source to target

Is the switch Clear Target Table activated?
- No → Is there a configuration for this table?
  - Yes → **Compare all defined Columns, match by name**
  - No → **Compare All Columns, match by name and datatype** → **Create list of columns to compare for data changes**
- Yes → **Do not use auditing**

Compare Columns are all columns that will be used to determine if and what data has changed

Create Primary Key clause (Join)

Auditing is logging all inserts, deletes and updates for the Target Table before updating data, so no data is lost

Is the switch Use Auditing activated?
- Yes → Does the Audit Table exist?
  - Yes → **Use Auditing**
  - No → Is the switch Create Audit Table activated?
    - Yes → **Create Audit Table** → **Use Auditing**
    - No → **Do not use auditing**
- No → Is the switch Create Audit Table activated?

Is the switch Remove Non Source Data activated?
- Yes → Use Auditing?
  - Yes → **Copy all data to be deleted to Audit Table**
  - No → **Delete data from Target that does not exist in Source**
- No ↓

Use Auditing?
- Yes → **Copy all data to be updated to Audit Table**
- No ↓

Update data that is different between Source and Target

Clear Target Table

Does Target Table have a SU_LogDate Column?
- Yes → **Add RunTime to new data**
- No ↓

Use Auditing?
- Yes → **Copy all data to be inserted to Audit Table**
- No ↓

Insert new data from Source into Target Table