# Generating Databases and Tables out of Qlik Sense Application Data Files

Scope: Develop a solution to create databases and tables for Qlik Sense data files dynamically

Solution: The below Java application built with Talend Studio executes following steps

1. Read context parameters from context file located in ‘*..\ProcessQlikSenseFiles\talendproject\processqliksensefiles\_0\_1\contexts\Default.Poperties*’
2. Connects to target database where data must be loaded to
   1. A database must exist on the target platform to connect to
3. Creates databases for each directory containing Qlik Sense data files  
   Ein Bild, das Text, Screenshot, Zahl, Schrift enthält.

   Automatisch generierte Beschreibung
4. Creates tables for each Qlik Sense csv file
5. Load data to target   
   Ein Bild, das Text, Screenshot, Zahl, Schrift enthält.

   Automatisch generierte Beschreibung

Ein Bild, das Text, Screenshot, Zahl, Software enthält.

Automatisch generierte Beschreibung

1. Talend Main Job  
   Ein Bild, das Text, Screenshot, Reihe, Diagramm enthält.

   Automatisch generierte Beschreibung
2. Talend Sub Job  
   Ein Bild, das Screenshot, Reihe, Text, Diagramm enthält.

   Automatisch generierte Beschreibung
3. Actual options
   1. Copy files from one directory to another
   2. Load data to MS SQL Server
   3. Load data to Snowflake

Execution

1. Install Java Runtime
2. Include ‘*java.exe’* into operating system ‘*PATH*’ variable
3. Copy ‘*ProcessQlikSenseFiles\_0.1.zip*’ to a directory
4. Unzip ‘*ProcessQlikSenseFiles\_0.1.zip*’
5. Configure parameter in file ‘*..\ProcessQlikSenseFiles\talendproject\processqliksensefiles\_0\_1\contexts\Default.Poperties’*
   1. *sourcedir ->* parent directory containing subdirectories for Qlik Sense applications
   2. *targetdir ->* target directory in case of file copy option
   3. *targettype -> ‘db’* for database target *‘filecopy’* for directory target
   4. *dbtype -> ‘*mssql’ for Microsoft SQL Sever target  
       ‘snowflake’ for Snowflake target
   5. *enter all other parameter*
6. Execute
   1. ..ProcessQlikSenseFiles\PocessQlikSenseFiles\_run.bat -> Windows Command
   2. ..ProcessQlikSenseFiles\PocessQlikSenseFiles\_run.ps1 -> Windows PowerShell
   3. ..ProcessQlikSenseFiles\PocessQlikSenseFiles\_run.sh -> Linux/Unix
7. Verify result

## Appendix

**Default.propeties:**

#this is context properties

#Tue Aug 01 12:00:47 UTC 2023

sourcedir=**E\:/qliksensefiles**

targetdir=**E\:/targetfiledir**

targettype=**db**

dbtype=**snowflake**

QlikSenseFiles\_AdditionalParams=

QlikSenseFiles\_Database**=<mssql database>**

QlikSenseFiles\_Login**=<mssql username>**

QlikSenseFiles\_Password=enc\:routine.encryption.key.v1\:P869vsMDfeM4Oql+3On7AN+d/So4mMDmCxRSQZZim1OQt8uxC1tRWg\=\=

QlikSenseFiles\_Port=**<port>**

QlikSenseFiles\_Schema=**<schema>**

QlikSenseFiles\_Server=**<mssql server db server>**

SF\_QLIKSENSE\_account=**<account.eu-central-1>**

SF\_QLIKSENSE\_db=**TEST**

SF\_QLIKSENSE\_jdbcParameters=

SF\_QLIKSENSE\_keyAlias=

SF\_QLIKSENSE\_loginTimeout=30

SF\_QLIKSENSE\_oauthProperties\_clientId=

SF\_QLIKSENSE\_oauthProperties\_clientSecret=

SF\_QLIKSENSE\_oauthProperties\_oauthPassword=

SF\_QLIKSENSE\_oauthProperties\_oauthTokenEndpoint=

SF\_QLIKSENSE\_oauthProperties\_oauthUserName=

SF\_QLIKSENSE\_oauthProperties\_scope=

SF\_QLIKSENSE\_regionID=

SF\_QLIKSENSE\_role=

SF\_QLIKSENSE\_schemaName=<PUBLIC>

SF\_QLIKSENSE\_userPassword\_password=enc\:routine.encryption.key.v1\:mVEd6p3KOIIGST08/PcJ6L9XDFATQH2M2CobaoFbEowDPLlHsfE4os0\=

SF\_QLIKSENSE\_userPassword\_userId=<username>

SF\_QLIKSENSE\_warehouse=<WAREHOUSE>