

FRESCO DATABASE MANUAL

DAILY TRANSACTIONS

Objective: To input the daily sales data GNC sends via email to the Database hosted in SQL Server (SUN87/SQLEXPRESS) **automatically** and **daily**.

Inputs:

- Email with file containing 7 rolling days of Daily Transactions.

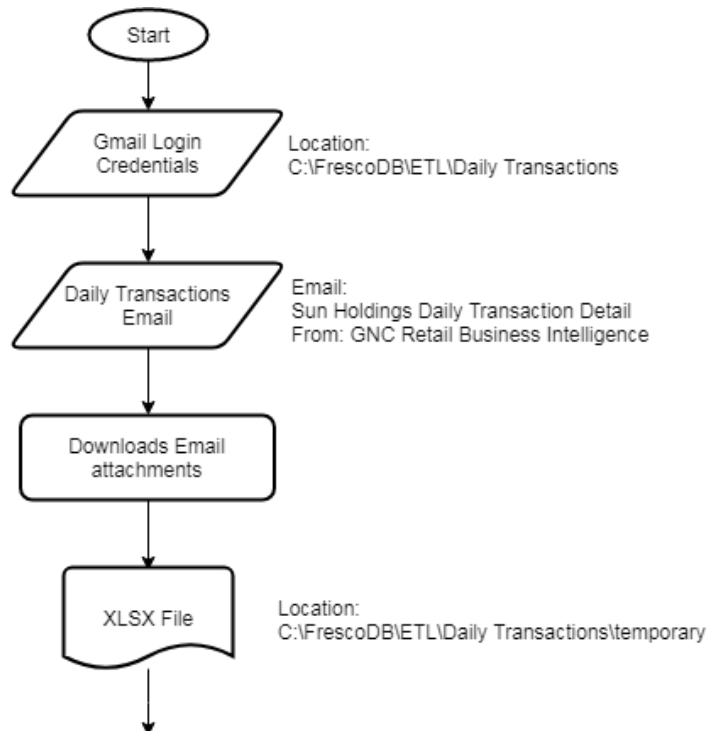
Outputs:

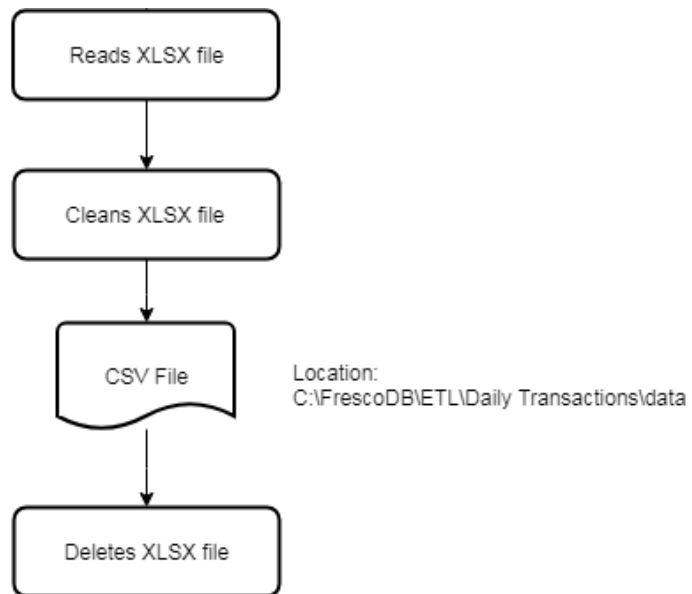
- FacSales* table of Fresco Database in SUN87/SQLEXPRESS Server.

The following set of diagrams are all joined through an executable file (.bat) that runs an **R Script**, a **SSIS Package** and **CMD Commands** from the Windows terminal.

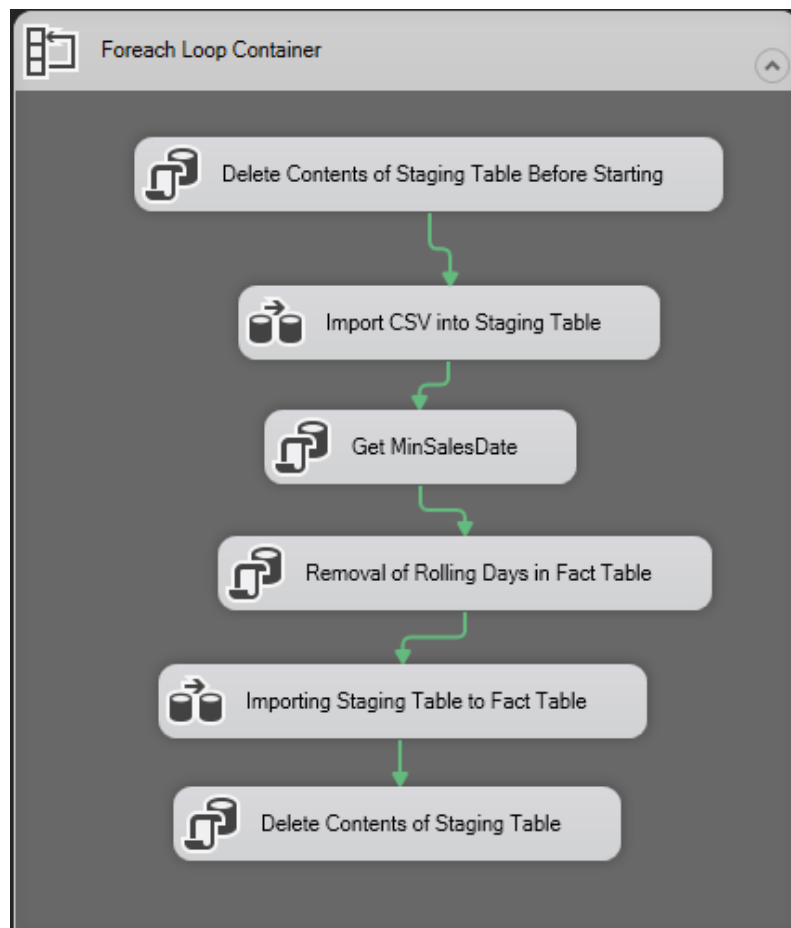
- "C:\Users\efelix\Documents\R\R-3.6.1\bin\i386\Rscript.exe" "C:\FrescoDB\ETL\Daily Transactions\scripts\Script_DailyTransactions.R"
- "C:\Program Files\Microsoft SQL Server\120\DTS\Binn\DTExec.exe" /FILE "C:\FrescoDB\SSIS\Fresco SSIS (test)\Daily Transactions.dtsx"
- move "C:\FrescoDB\ETL\Daily Transactions\data*.csv" "S:\Fresco\Sales\Sales Files\All Sales Archive (FFS)"

Flowchart 1:
(R Script)





Flowchart 2:
(SSIS Package)

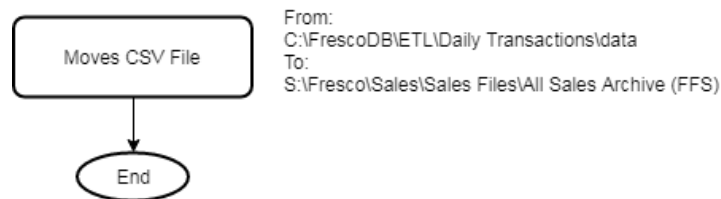


The SSIS package uses a Foreach Loop Container, which states that it'll loop through all the files that are to be saved in the CSV Files folder from the previous script.

This package additionally uses what is known as a Staging Table for purposes of preparing the data to be uploaded to the database, this way it is possible to store the data in a table that is not its destination. By using this type of table we are able to extract the Minimum Date of the Daily Transactions file that GNC sends us, so that it can be later passed on to a variable and delete all rows of the original *FacSales* table that are greater or equals that date in particular, thus removing the rolling days of the table and allowing the stores that did not poll on the previous 7 rolling days to be on our records.

Once the new data is loaded, we finish by clearing the contents of the Staging Table we just imported, so that it can be used next time when a new file arrives.

Flowchart 3:
(CMD
command)



TROUBLESHOOTING: What to do if...?

*Latest Sales
Dates are not on
the database*

Verify that the latest file that was downloaded, either on the *All Sales Archive* folder, *data* folder or *temporary* folder.

*Computer was
shut down*

Download manually the files that were not downloaded during the outage and save them as CSV inside the data folder. Then open the SSIS package and run it from the start.

*No Internet
Connection*

Download manually the files that were not downloaded during the outage and save them as CSV inside the data folder. Then open the SSIS package and run it from the start.