Reading Day Numbers, Weekday Names and Month Names in different languages using SQL Tools and SSIS

Kimmo Kallela, Tampere, Finland

Overview

These files were originally developed to help my life making different Bi applications, mostly with PowerBi. However, you can use them wherever you need such data.

What does this package do?

Basically it reads CSV file containing names of weekday and month in different languages. It then unpivots them to unique rows in SQL Server database, assigning them unique ids. What's more, it generates data from dates (day number of week etc) to database where you can find easily that information of single day.

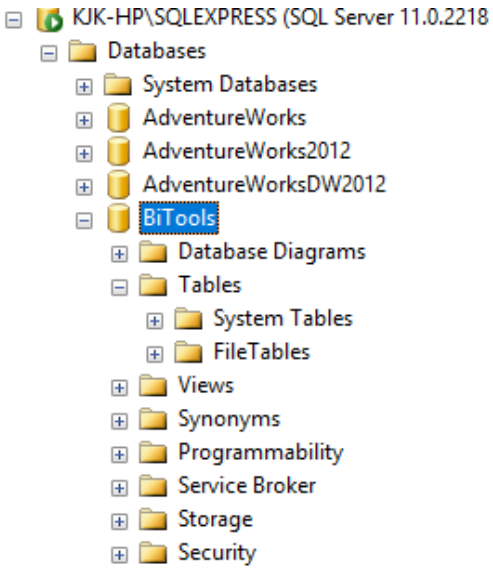
What does this package contains?

The package contains following items:

- CSV file of weekday and month names in 133 different languages (no, I did not type them manually but that's another story)
- SSIS project for importing languages, Day Names and Month Names into SQL Server database
- SQL Script for creating Dates table
- SQL Script for creating Languages table
- SQL Script for creating Months table
- SQL Script for creating Week Days table
- SQL Script for creating Date Data to Sales table

How to use this package?

1) Create a database using your favorite SQL Editor or use existing one. I have chosen it to be named as BiTools but feel free to use anything you like as long as you use the same name in the SQL Scripts

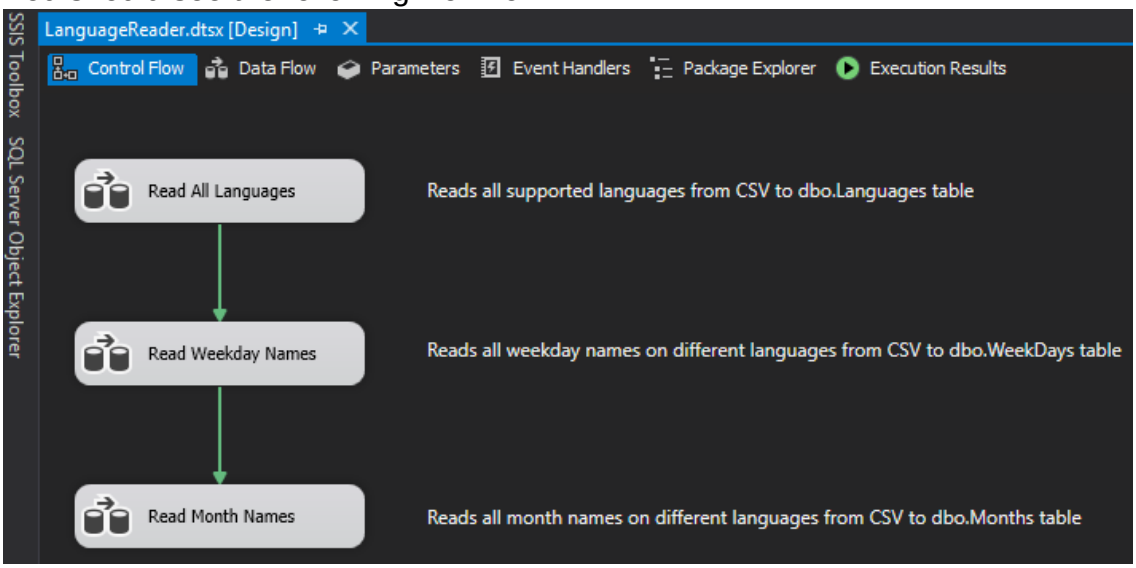


2) Run the following scripts to create necessary tables:

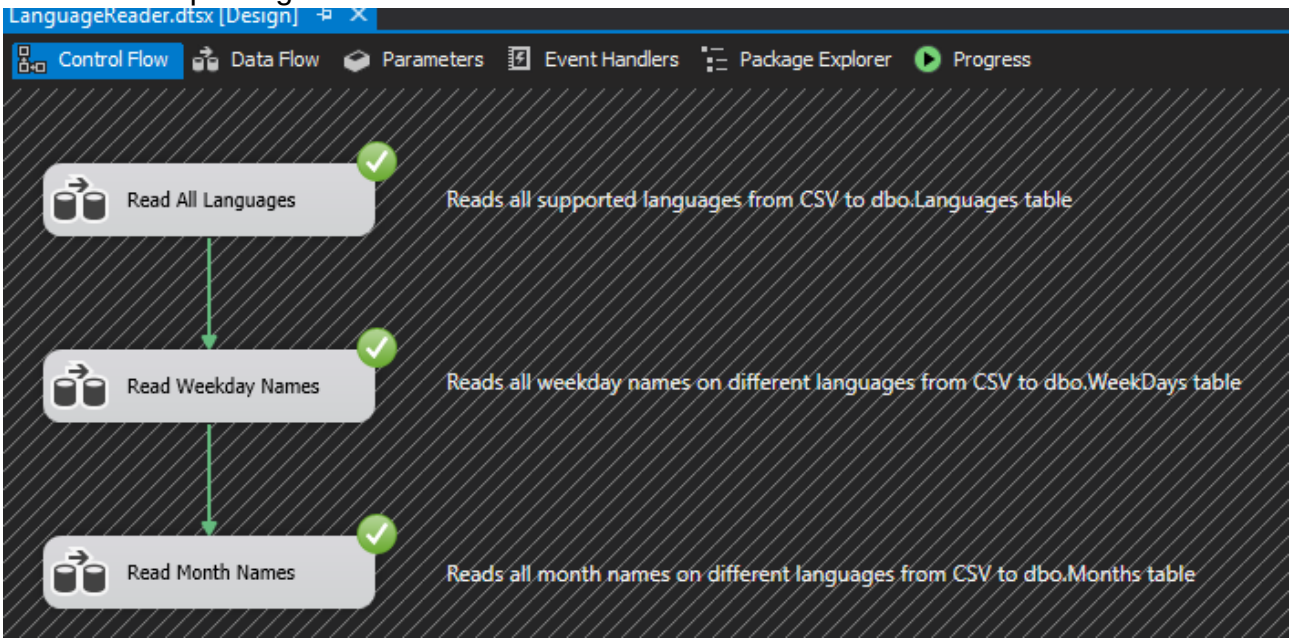
You should now have 4 new tables.

3) Run the *InsertDateData.sql* script. It may take a while. You should now have 3315 rows in Dates table. You can easily change the starting and ending day at the beginning of *InsertDateData.sql*.

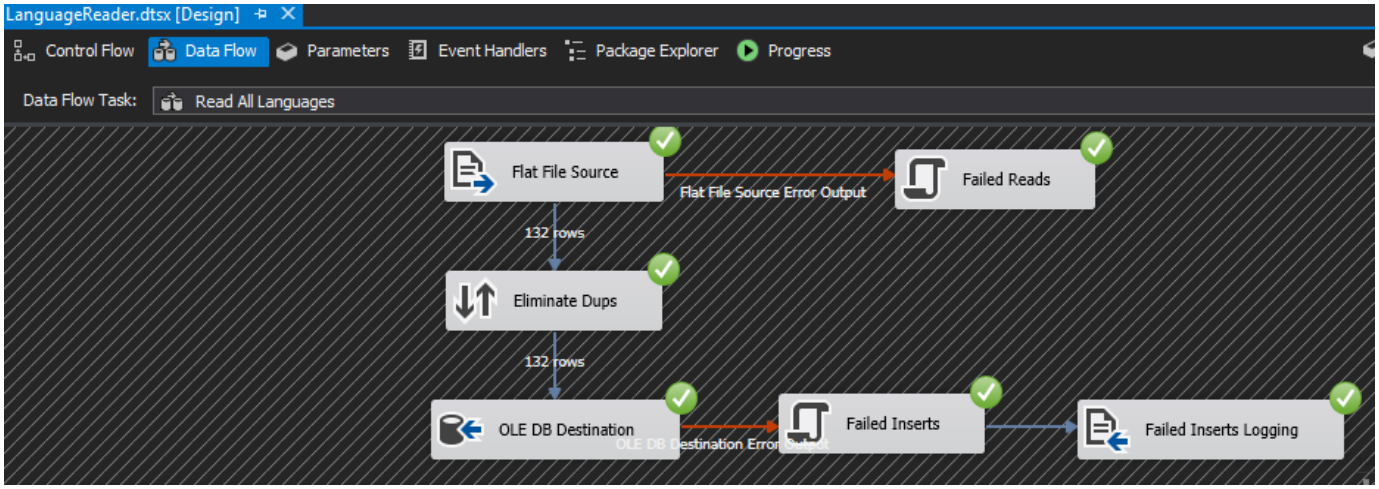
4) Start *Import Date And Month Names.sln* SSIS project in *SQL Server Data Tools*. You should see the following workflow:



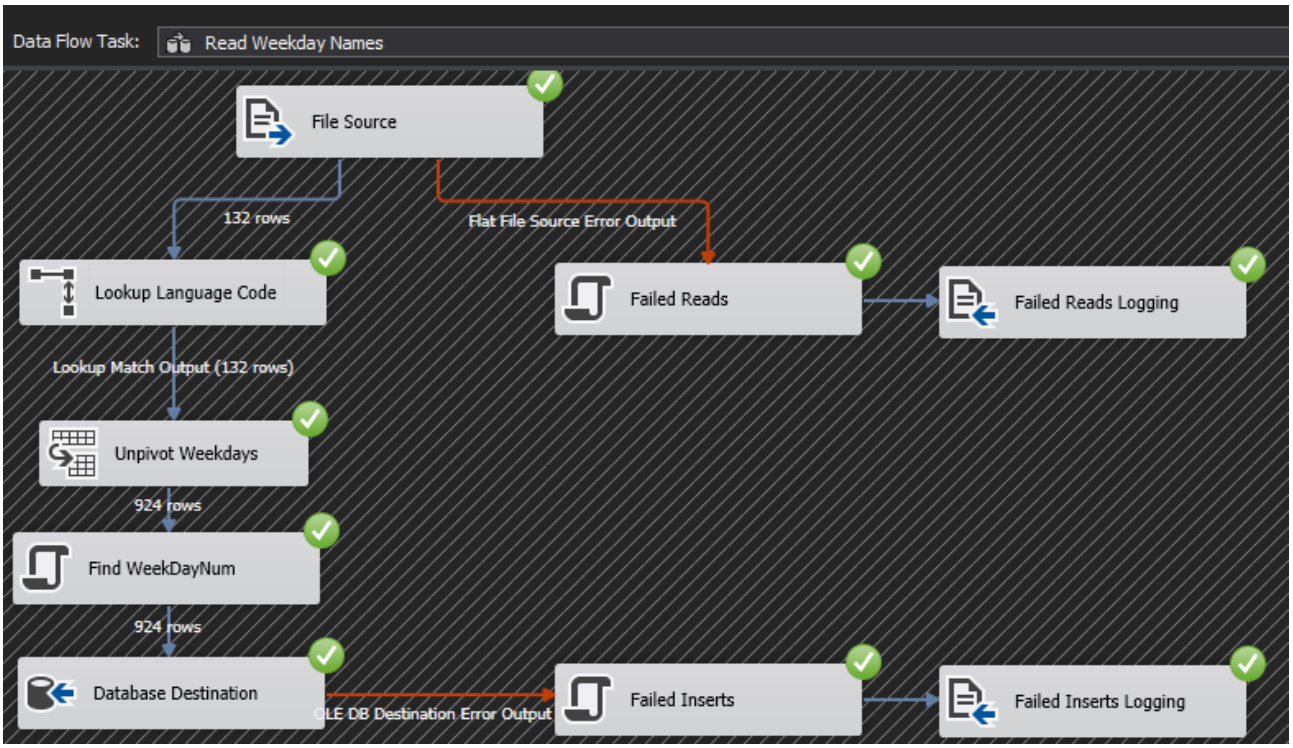
5) Execute the package. The workflow should look like this:



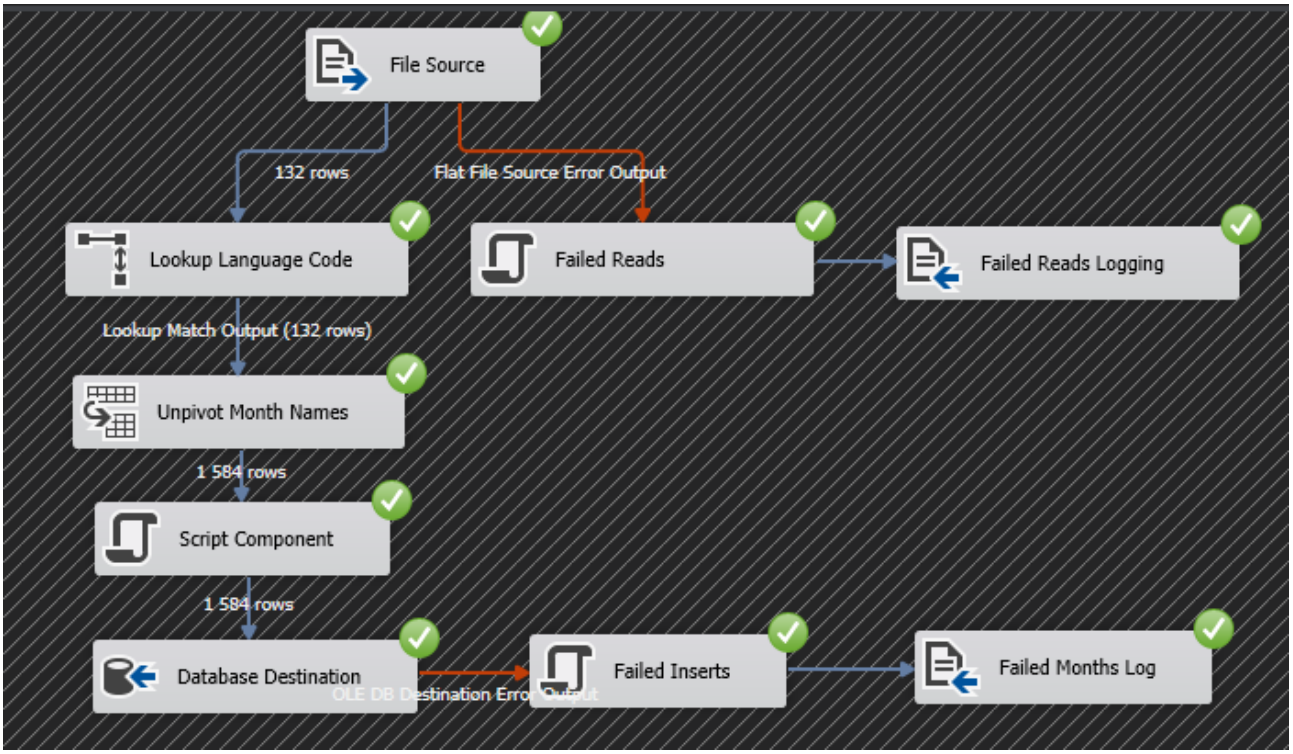
You can double-click each flow to examine what really happened.



As you can see, *Read All Languages* successfully read 132 rows from CSV file and inserted them into database without errors.



Read Weekday Names flow read also 132 rows but unpivots them from columns to rows, so 924 rows (132 * 7) was inserted successfully into Weekday name table.



Same thing Read Month Names flow. It unpivots 132 rows to 1584 rows (12*132) and successfully inserts them into database.

6) Now everything is ready! Just go and explore your new data. I did not add any relations between these tables but I am sure you know how to do it if you need.

   Enjoy!

- Kimmo