# Introduction

The SchoolLogic Stats to Staging process is a Data Transformation procedure created in Pentaho. This process will do queries on the SchoolLogic database and post the results into a staging table namded srblog (which resides in SQL-Server).

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# Setup

## SQL-Server

The Schoollogic stats to staging process utilizes only SQL Server databases. It reads data from a **Schoollogic** database and posts the results into the **srblog** table that is part of the **SRB\_StageDB** database.

## Transformation Properties file

The Properties file (**SL\_Integration\_to\_Staging.properties**) is used to setup variables that are different for each client and are used in the transformation.

Variables:

|  |  |
| --- | --- |
| **Variable** | **Description** |
| STAGE\_DRIVER | The STAGE\_DRIVER indicates how to connect to the Staging SQL-Server database. We use a generic driver for this |
| STAGE\_CONNECTION\_URL | The STAGE\_CONNECTION\_URL variable has the SQL connection string to the staging database, including the database name, user and password. |
| SCHOOLLOGIC\_DRIVER | The SCHOOLLOGIC\_DRIVER indicates how to connect to the Schoollogic SQL-Server database. We use a generic driver for this |
| SCHOOLLOGIC\_CONNECTION\_URL | The SCHOOLLOGIC\_CONNECTION\_URL variable has the SQL connection string to the Schoollogic database, including the database name, user and password. |
| EMAIL\_LOG | This is either TRUE or FALSE, to indicate on whether or not the results log from the transformation is to be emailed. |
| EMAIL\_TO\_ADDRESS | Email address of person to receive the log report |
| EMAIL\_FROM\_ADDRESS | Spoof Email address of person who is sending the log report |
| EMAIL\_FROM\_NAME | Name of the person sending the log report |
| EMAIL\_SERVER | SMTP Server |
| EMAIL\_PORT | Port used on SMTP Server |

Sample **SL\_Stats\_to\_Staging.properties**

STAGE\_DRIVER=net.sourceforge.jtds.jdbc.Driver

STAGE\_CONNECTION\_URL=jdbc:jtds:sqlserver://localhost:1433/srb\_**stageDB**;user=tsc;password=tsc;useLOBs=false;

SCHOOLLOGIC\_DRIVER=net.sourceforge.jtds.jdbc.Driver

SCHOOLLOGIC\_CONNECTION\_URL=jdbc:jtds:sqlserver://localhost:1433/schoollogic\_sample;user=tsc;password=tsc;useLOBs=false;

EMAIL\_LOG=FALSE

EMAIL\_TO\_ADDRESS=degoudreau@shaw.ca

EMAIL\_FROM\_ADDRESS=don.goudreau@srb-es.com

EMAIL\_FROM\_NAME=Don Goudreau

EMAIL\_SERVER=smtp2.srb-es.com

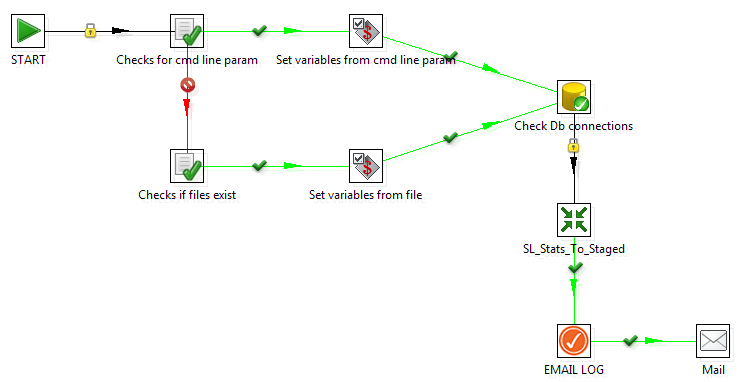
EMAIL\_PORT=587

## Transformation Start Batch File

The start batch file (**startSchoollogic\_stats.bat**) is used to run the transformation on a client’s system.

## Process Job

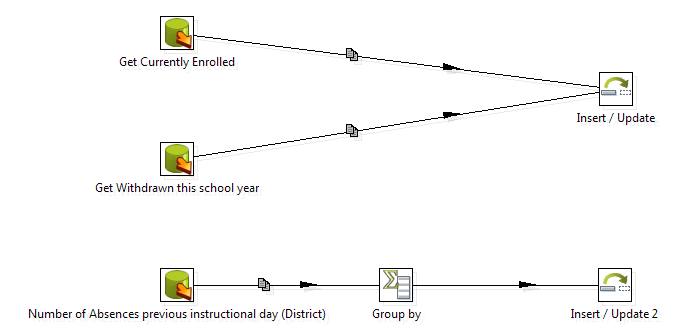
The job process (**startSL\_Stats\_To\_Staging.kjb**) performs a number of steps in pulling information from atrieveHR into the SQL staging area.



1. **Check for cmd line param**. This step will return a TRUE if the process is called from the START batch process (which will then move to step 2 below) or FALSE (which would indicate that the process is started from within the Pentaho environment), which moves to Step 3.
2. **Set variables from cmd line param.** If the process gets to this step, it will assign variables based on the properties file assigned in the start batch process. After completion of this step, the process moves to Step 5 (Check DB Connections)
3. **Check if files exist.** If the process gets to this step, it will return a True or False based if a specified file (the properties file) is found. If FALSE, then the process stops. If TRUE, process continues to step 4.
4. **Set variables.** If the process gets to this step, it will assign variables based on the properties file assigned in the start batch process
5. **Check Db connections.** This step will attempt to connect to the SCHOOLLOGIC and STAGING databases (using the variables assigned in the properties file). If unsuccessful, the process will stop.
6. **SL\_Stats\_To\_Staged.** This transformation (see below) will perform student enrollment and absence counts and post the results into the **srb\_stageDB:srblog** table.
7. **EMAIL.LOG.** If the *EMAIL\_LOG* variable is set to TRUE, then the process will continue to the next step. Otherwise, this is the end of the job.
8. **Mail.** Email of the LOG report will be sent to the person designated in the variable *EMAIL\_TO\_ADDRESS*

## Process Transformation

The transformation ( **SL\_Stats\_To\_Staged.ktr** ) takes information from Schoollogic tables fills in the srb\_Staged:srblog table.



The process counts the following and creates entries in the **srblog** table with the counts.

1. The number of students that are currently enrolled at each school in the district. The count is as of the date/time that the script is executed.
2. The number of students that have withdrawn during the current school year at each school in the district. The count is as of the date/time that the script is executed.
3. The number of students that were absent on the previous instructional day (in the district).