

SFTP Processing Framework using SSIS:

Scope:

SFTP (SSH File Transfer Protocol) file processing framework using SQL Server Integration Services (SSIS)

Requirements:

Framework should have below functionalities and also handle below listed scenarios

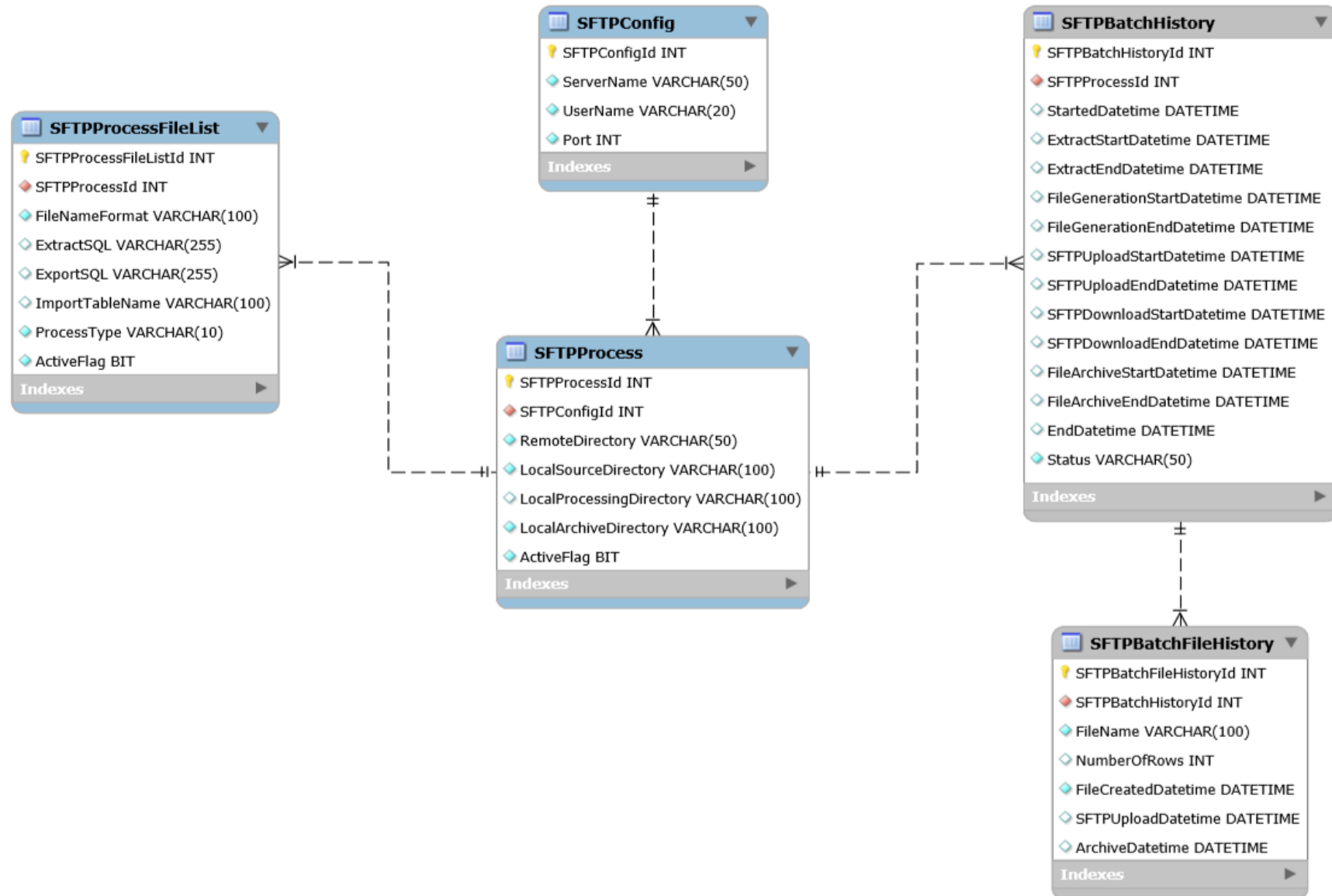
- Process single or multiple files to multiple SFTP servers
- Support outwards (upload to SFTP server), inwards (download from SFTP) transfers
- Multiple file processing per process
- Option to enable and disable any number of processes or a file in a process
- Process level, file level logging
- Recording each stages of process in a table (Data Extraction, File Generation, SFTP upload/download, File Archive etc)
- Record number of records processed per file per process
- Ability to store the data before exporting as a file
- Re-Startability – restart from last failure point
- Pre-validation of each process
- Email notification on completion of execution (success/failure)

Key Contacts:

- Support email : datateam@datalygence.com
- Name : Datalygence, Data team tech lead
- Jira Ticket : DataTeam (DT)
- Stakeholder : Finance Team (finance@datalygence.com)

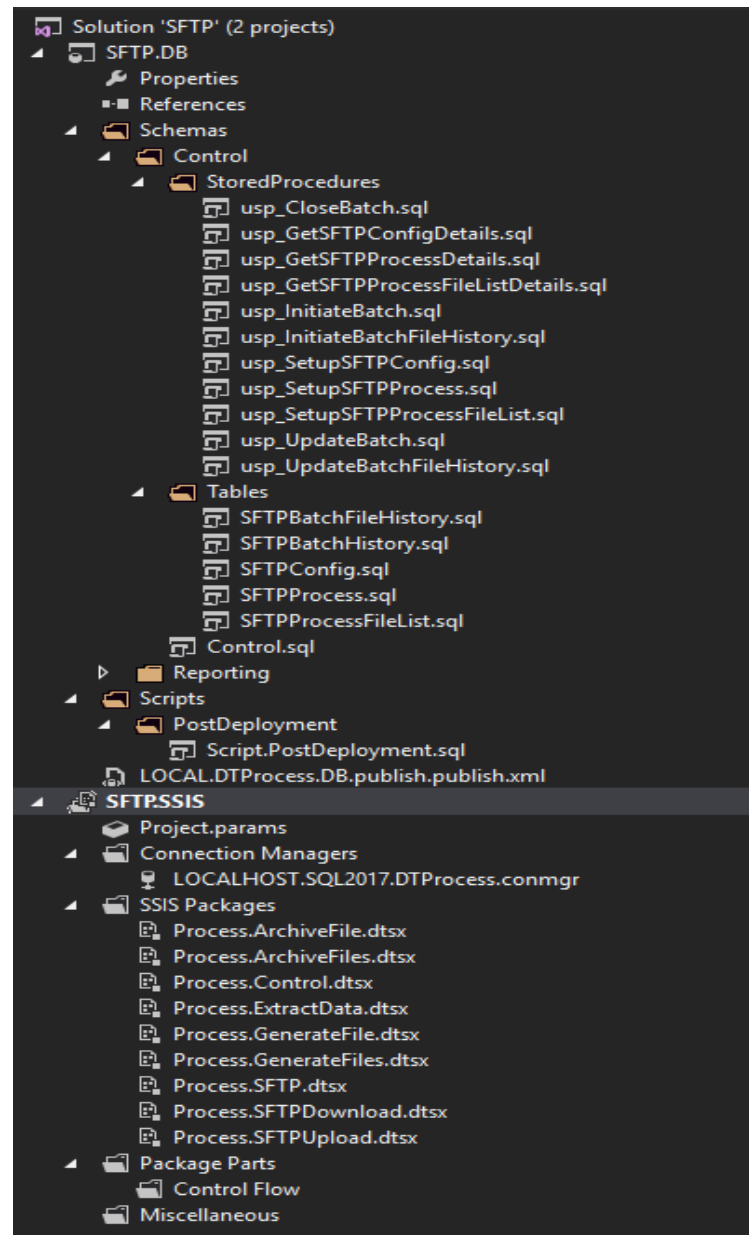
Data Model:

- Below data model supports this framework, it contains both control and history tables on Control schema

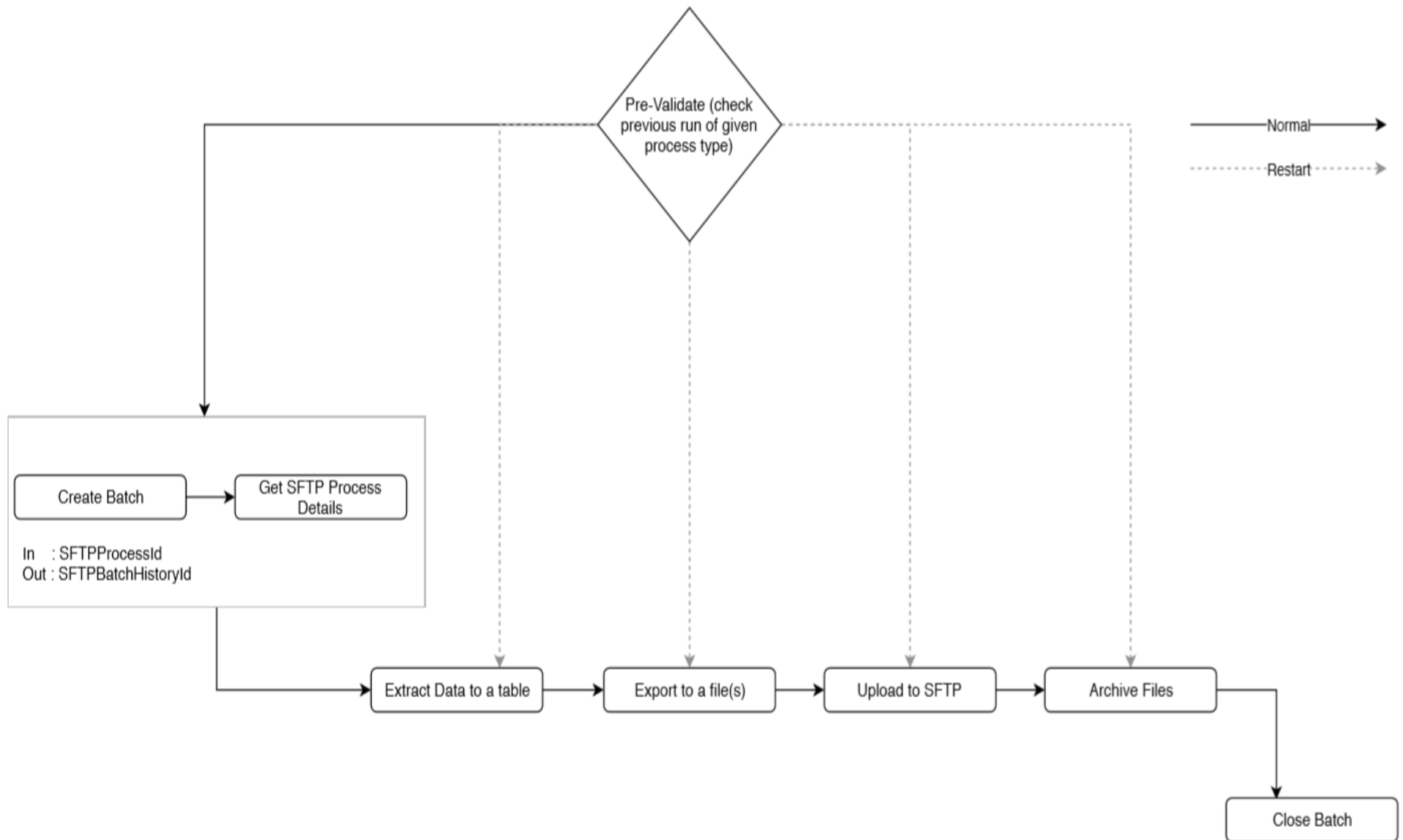


Database & SSIS Solution Design:

- Contains both database (SFTP.DB) and SSIS (SFTP.SSIS) projects in single solution



Process Flow:



Acceptance Criteria:

- Successful execution copies files from (or) to SFTP server to or from File server
- Start and End time of each process stored in a table
- Created file names should match file name pattern on control table
- When process fails, restarting the package should start the process from where it failed in the previous execution
- Email Notifications are sent out on completion (appropriate message for Success/Failure)