**eCoaching Log System**

**IIS Log Load**

**SSIS Detailed Design Document**

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| --- | --- | --- |
| Last Revision | Last Review | Description |
| 7/31/2020 |  | TFS 17716 - Removed company specific references |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Lili Huang |  | Date: | 11/20/2018 |
| Department / Location: |  |  |  |  |
| Approved by: |  |  | Date: |  |

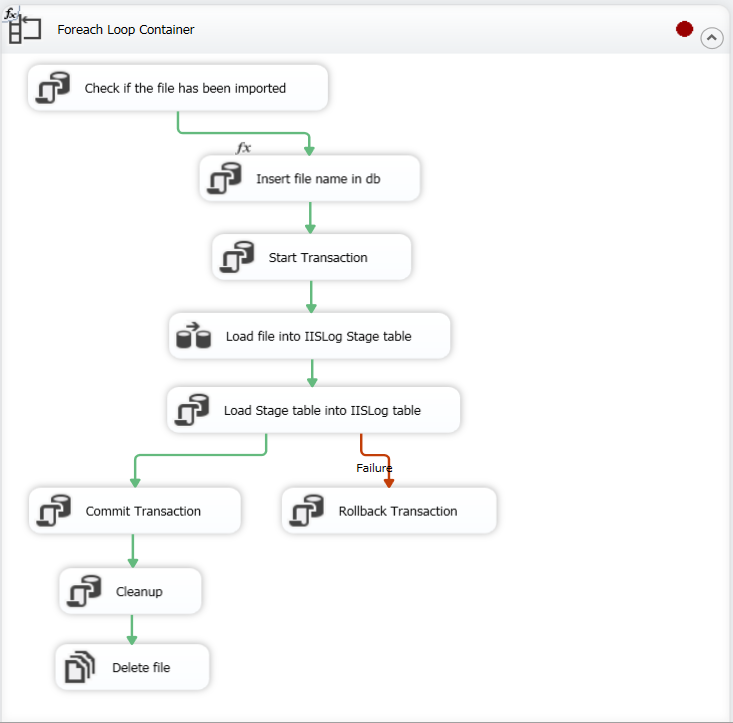
**Change History Log**

| **Date** | **Change Description** | **Author** |
| --- | --- | --- |
| 11/20/2018 | Initial Revision  TFS 12568 – Add IIS activity Reporting function to eCoaching Admin Portal; | Lili Huang |
| 11/29/2018 | TFS 12568 – Add IIS activity Reporting function to eCoaching Admin Portal;  Updated Control Flow; | Lili Huang |
| 7/29/2020 | TFS 17716 - Removed company specific references | Susmitha Palacherla |

# Summary

This process will load IIS Log CSV files into the database. The feed files to this process come from a separate Windows DOS script batch job run, which parses IIS Log files to CSV files.

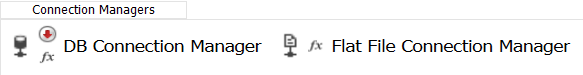
# SSIS package for IISLogImport.dtsx



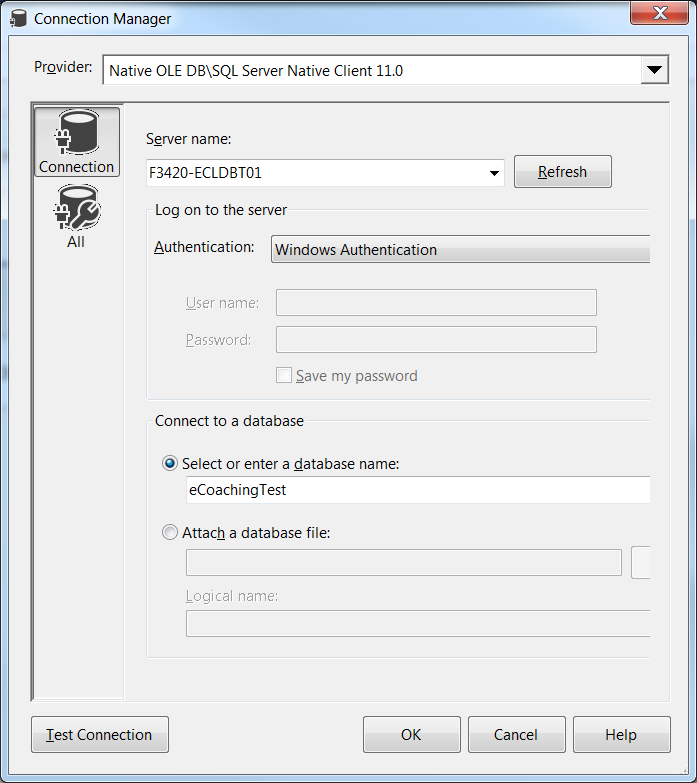
# SSIS Logic Flow Overview

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Task** | **On Success** | **On Failure** |
|  | **Foreach Loop Container** |  |  |
|  | **Check if the file has been imported**  SQLStatement:  SELECT COUNT(\*) AS FileCount  FROM ec.IISLog\_FileImport  WHERE FileName = ?;  Parameter Mapping: User::vCurrentFile | If FileCount == 0,  continue with next step;  Else, continue with next loop. |  |
| 2 | **Insert file name in db**  SQLStatement:  INSERT INTO ec.IISLog\_FileImport  VALUES (?, GETDATE(), 1);  Parameter Mapping: User::vCurrentFile | Continue with next step. |  |
| 3 | **Start Transaction**  SQLStatement:  BEGIN TRANSACTION; |  |  |
| 4 | **Load file into IISLog Stage table**  Encapsulates Data Flow Task: Load data from Flat File Source (User::vCurrentFile) to OLE DB Destination (IISLog\_Stage table); |  |  |
| 5 | **Flat File Source**  Connection Manager: Flat File Connection Manager; | Continue with next step. | Go to step 8. |
| 6 | **OLE DB Destination**  Connection Manager: DB Connection Manager; | Go to step 9. | Go to step 8. |
|  | **End of Load file into IISLog Stage table** |  |  |
| 7 | **Load Stage table into IISLog table**  SQL Statement:  EXEC [EC].[sp\_InsertInto\_IISLog\_From\_Stage]; |  |  |
| 8 | **Rollback Transaction** | -Continue with next loop. |  |
| 9 | **Commit Transaction** |  |  |
| 10 | **Cleanup**  SQL Statement:  TRUNCATE TABLE [EC].IISLog\_Stage;  UPDATE [EC].[IISLog\_FileImport] SET ImportFlag=1  WHERE [FileName] = ?  Parameter Mapping: User::vCurrentFile |  |  |
| 11 | **Delete file**  Delete the file that has been imported from source folder. | Continue with next loop. |  |

# SSIS Connection Managers



**DB Connection Manager** – Database connection



Properties Section 🡪 Expressions:

Connection String:

@[User::vDBConnStr]

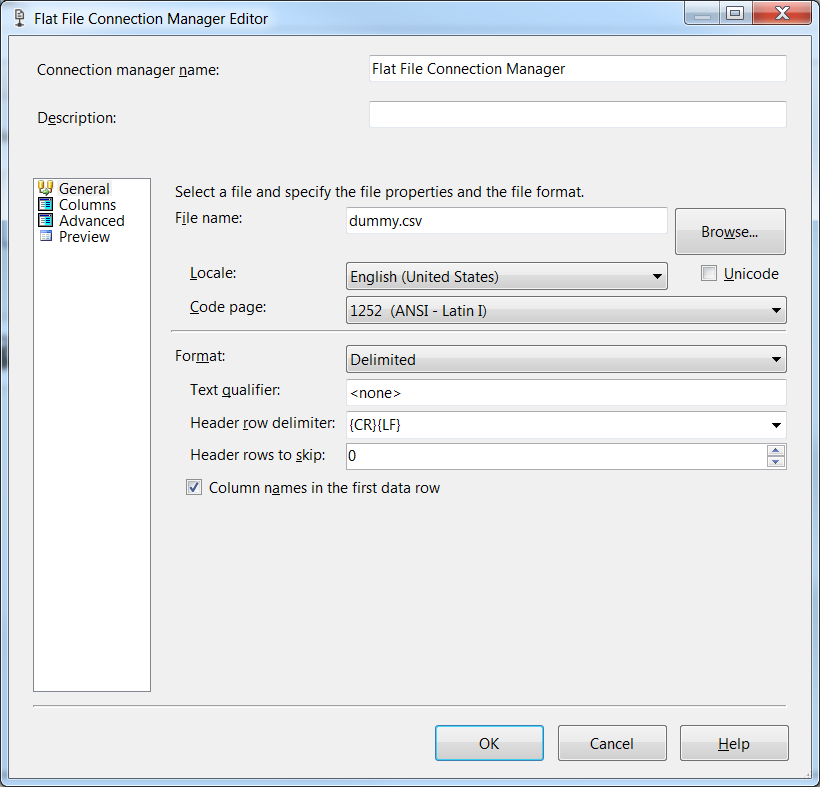
( @[User::vEnv] ) == "PROD" ? "Data Source=F3420-ECLDBP01;Initial Catalog=eCoaching;Provider=SQLNCLI11;Integrated Security=SSPI;" :

( @[User::vEnv] ) == "UAT" ? "Data Source=F3420-ECLDBT01;Initial Catalog=eCoachingUat;Provider=SQLNCLI11;Integrated Security=SSPI;" :

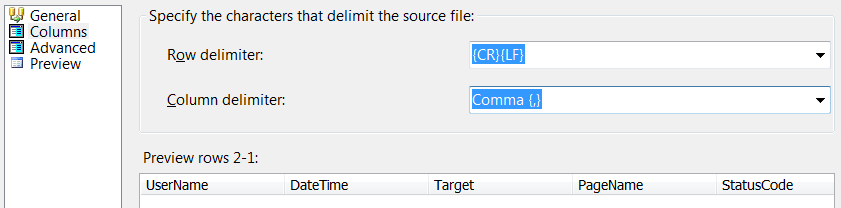
( @[User::vEnv] ) == "TEST" ? "Data Source=F3420-ECLDBT01;Initial Catalog=eCoachingTest;Provider=SQLNCLI11;Integrated Security=SSPI;" :

"Data Source=F3420-ECLDBD01;Initial Catalog=eCoachingDev;Provider=SQLNCLI11;Integrated Security=SSPI;"

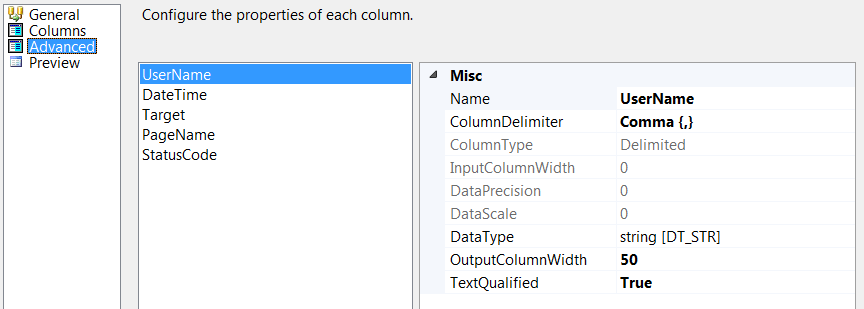
**Flat File Connection Manager** – Import comma-delimited value flat file connection IIS Log file (CSV).



Columns:



Advanced:



Properties Section 🡪 Expressions:

*ConnectionString:*

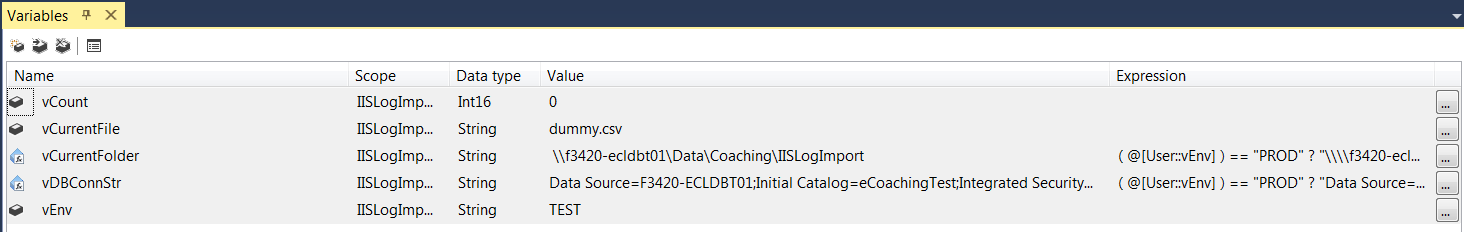
@[User::vCurrentFile]

( @[User::vEnv] ) == "PROD" ? "\\\\f3420-ecldbp01\\Data\\Coaching\\IISLogImport" :

( @[User::vEnv] ) == "TEST" ? " \\\\f3420-ecldbt01\\Data\\Coaching\\IISLogImport" :

"\\\\f3420-ecldbd01\\Data\\Coaching\\IISLogImport"

# Variables



## vCount

*\*\* The total count for the current processing file in table [EC].[IISLog\_FileImport]*

## vCurrentFile

*\*\* The file name being processed.*

DEFAULT: dummy.csv

## vCurrentFolder

*\*\* The full path of the folder that holds the data files to be processed.*

Expression:

( @[User::vEnv] ) == "PROD" ? "\\\\f3420-ecldbp01\\Data\\Coaching\\IISLogImport" :

( @[User::vEnv] ) == "TEST" ? " \\\\f3420-ecldbt01\\Data\\Coaching\\IISLogImport" :

"\\\\f3420-ecldbd01\\Data\\Coaching\\IISLogImport"

## vDBConnStr

*\*\* Database connection string.*

Expression:

( @[User::vEnv] ) == "PROD" ? "Data Source=F3420-ECLDBD01;Initial Catalog=eCoachingDev;Integrated Security=SSPI;" :

( @[User::vEnv] ) == "UAT" ? "Data Source=F3420-ECLDBD01;Initial Catalog=eCoachingDev;Integrated Security=SSPI;" :

( @[User::vEnv] ) == "TEST" ? "Data Source=F3420-ECLDBT01;Initial Catalog=eCoachingTest;Integrated Security=SSPI;" :

"Data Source=F3420-ECLDBD01;Initial Catalog=eCoachingDev;Provider=SQLNCLI11;Integrated Security=SSPI;"

## vEnv

*\*\* The environment that this process is running.*

Default: TEST

# Task Details

1. **Foreach Loop Container**

Foreach Loop.

Collection:

Enumerator: Foreach File Enumerator

Expressions:

Directory: @[User::vCurrentFolder]

FileSpec: “\*.csv”

Enumerator configuration:

Default to [\\f3420-ecldbt01\Data\Coaching\IISLogImport](file:///\\f3420-ecldbt01\Data\Coaching\IISLogImport)

Files:

\*.csv

Retrieve file name:

Fully qualified

Traverse subfolders: unchecked

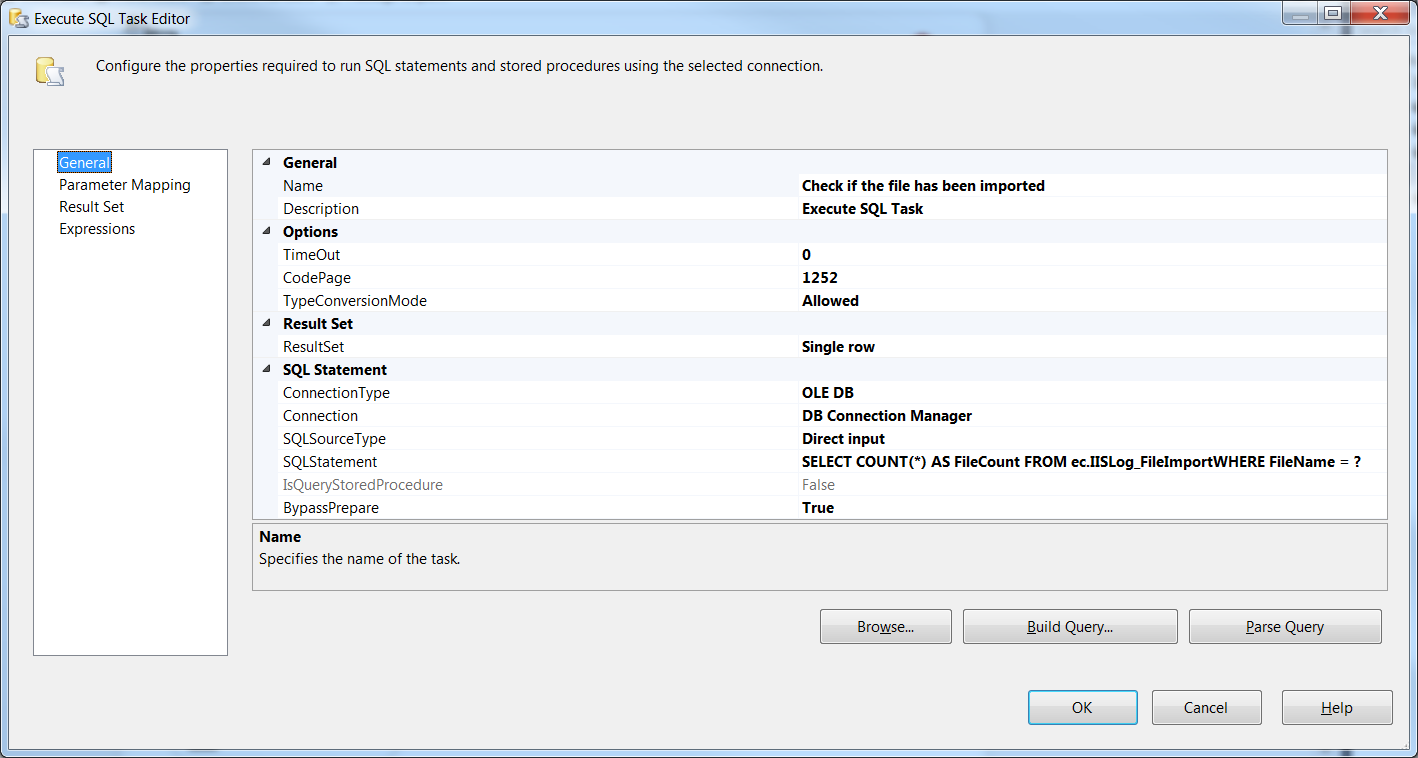
Variable Mappings:



1. **Check if the if the file has been imported**

Execute SQL Task.

General:



Parameter Mapping:



Result Set:

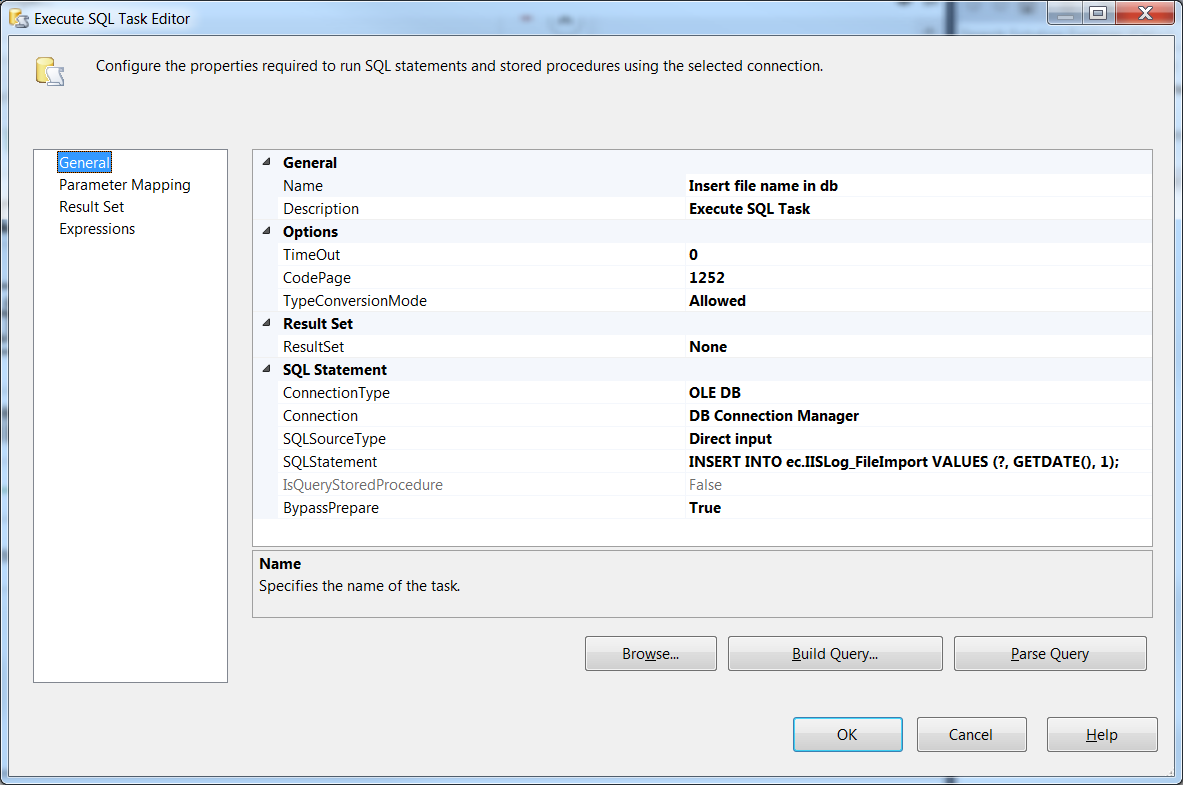


Expressions: None

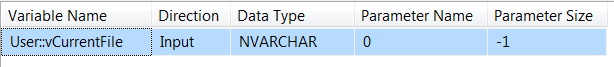
1. **Insert file name in db**

Execute SQL Task

General:



Parameter Mapping:



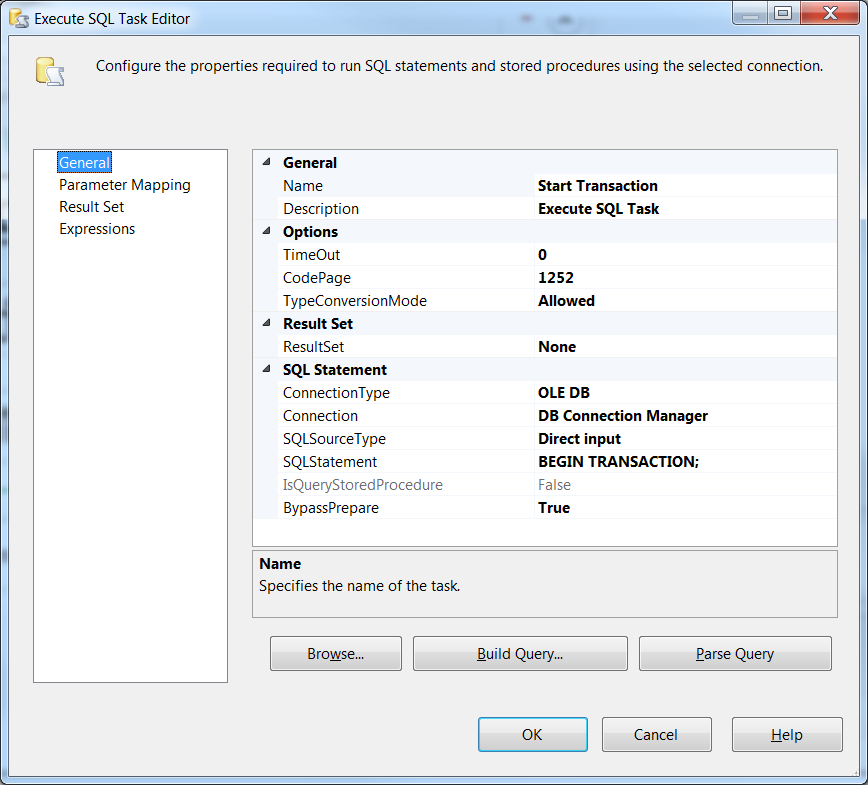
Result Set: None

Expressions: None

1. **Start Transaction**

Execute SQL Task

General:



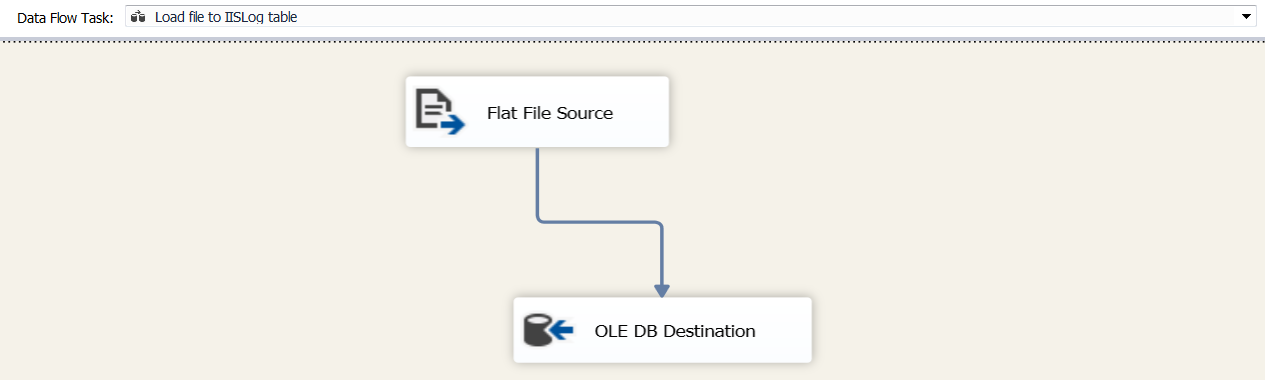
Parameter Mapping: None

Result Set: None

Expressions: None

1. **Load file into IISLog Stage table**

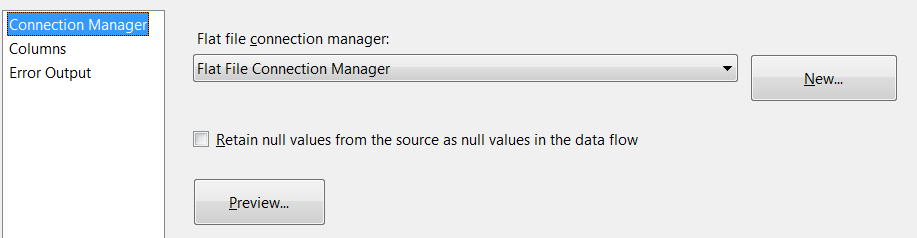
Data Flow Task



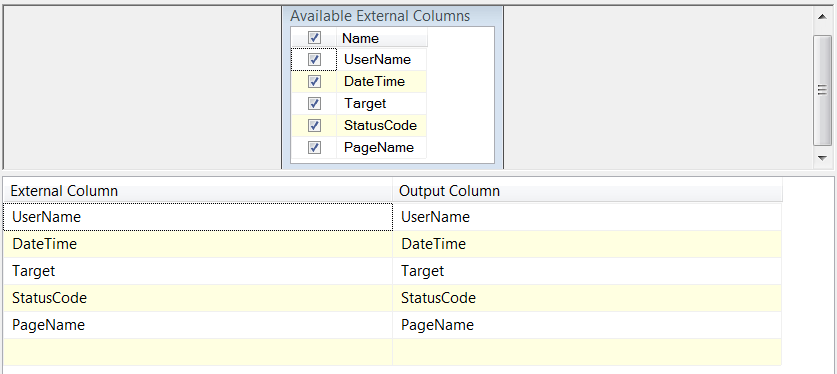
1. **Flat File Source**

Flat File Source.

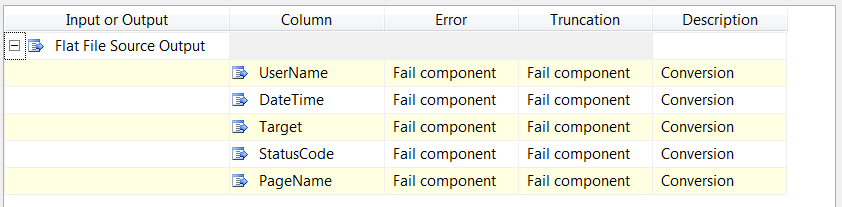
Connection Manager:



Columns:



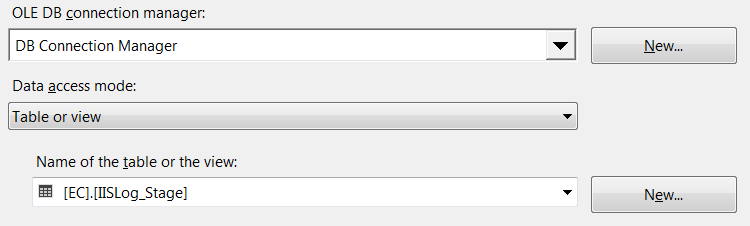
Error Output:



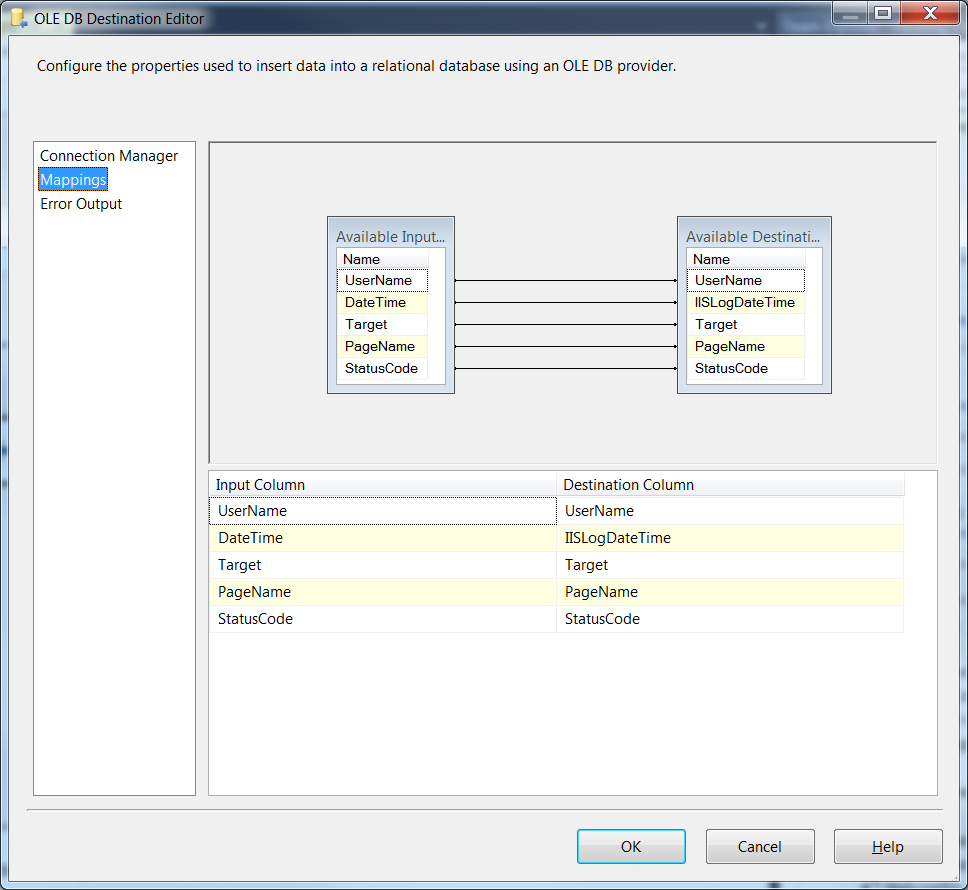
1. **OLE DB Destination**

OLE DB Destination

Connection Manager:



Mappings:

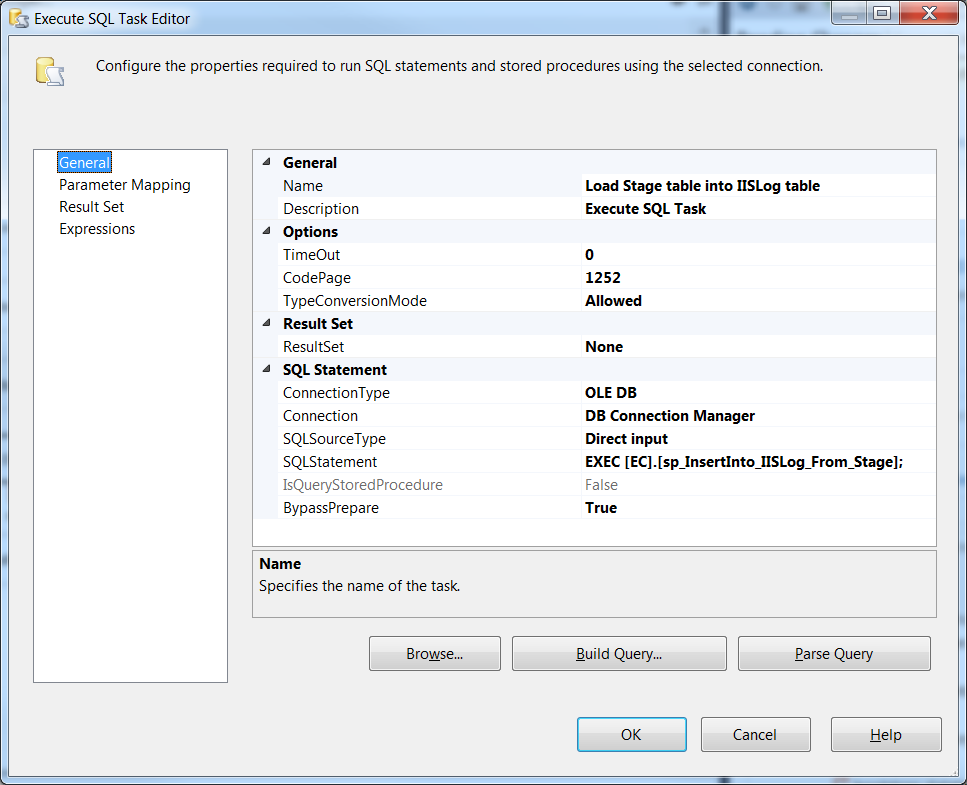


Error Output: None

1. **Load Stage table into IISLog table**

Execute SQL Task

General:



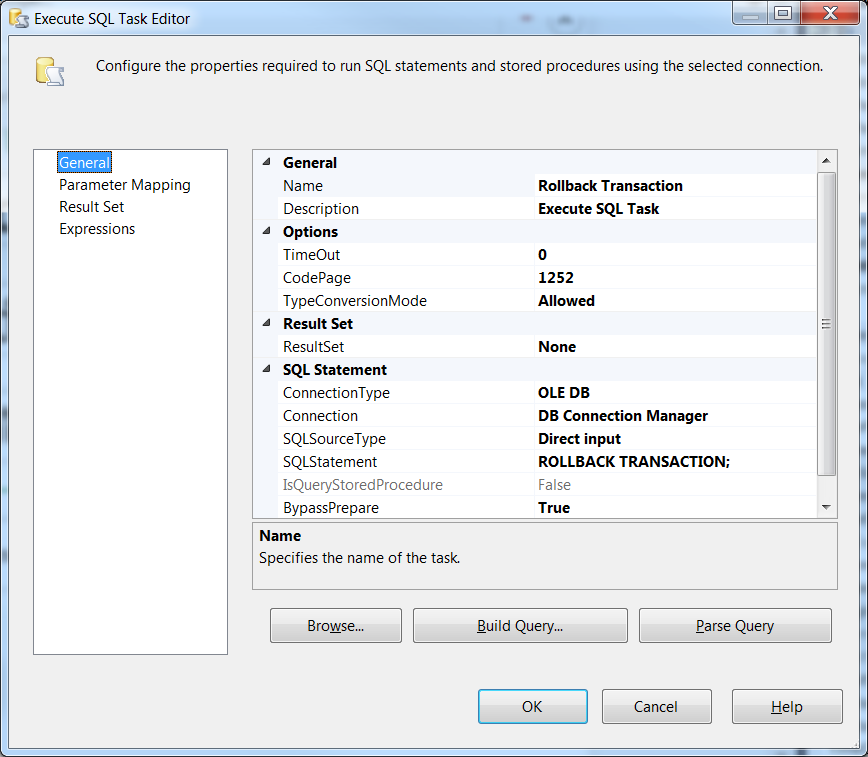
Parameter Mapping: None

Result Set: None

Expressions: None

1. **Rollback Transaction**

Execute SQL Task



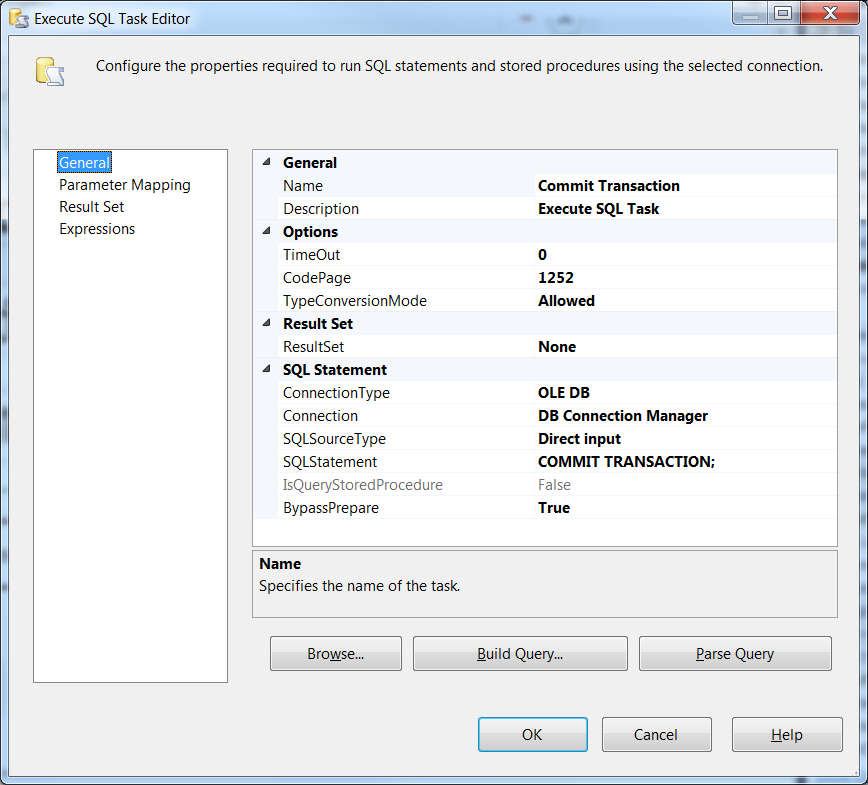
Parameter Mapping: None

Result Set: None

Expressions: None

1. **Commit Transaction**

Execute SQL Task



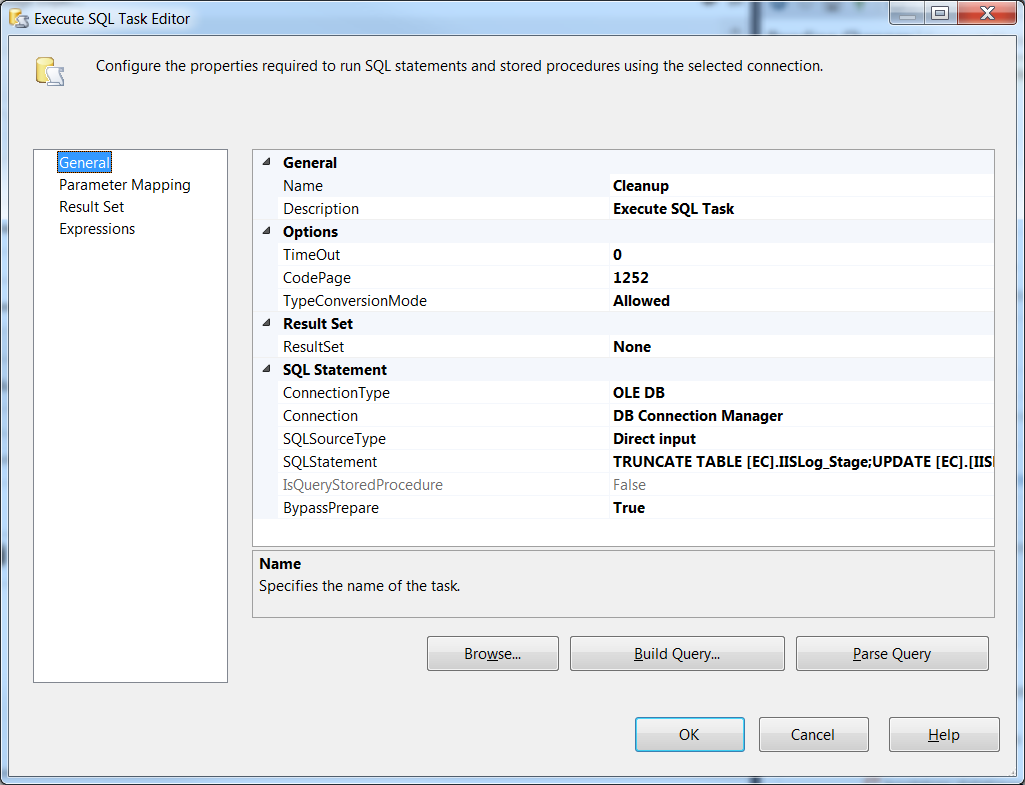
Parameter Mapping: None

Result Set: None

Expressions: None

1. **Cleanup**

Execute SQL Task



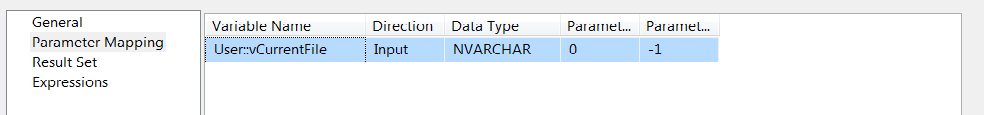
SQL Statement:

TRUNCATE TABLE [EC].IISLog\_Stage;

UPDATE [EC].[IISLog\_FileImport] SET ImportFlag=1

WHERE [FileName] = ?

Parameter Mapping:

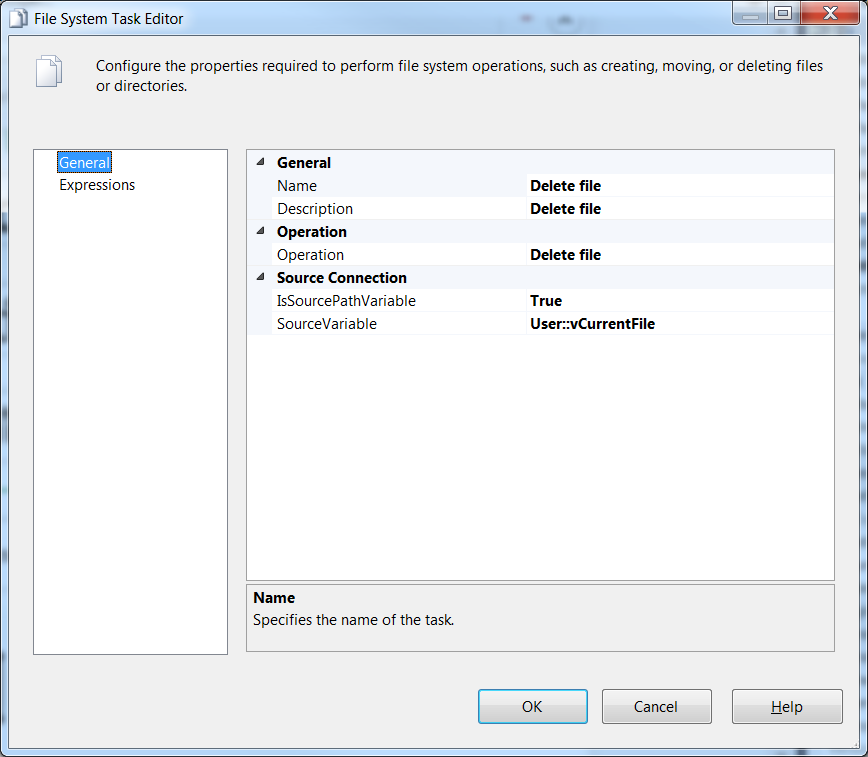


Result Set: None

Expressions: None

1. **Delete file**

File System Task



# Timings

This process will be executed via the job [DEV\_|TEST\_|UAT\_]**CoachingIISLogImport**.