

Talend – SCD Type 2

Deliverable:

Objective:

Load SCD using Employee Pay History as the example

Source & Targets: (located in NEU SharePoint folder) - \Data Integration - Lesson 2 - SCD

Source: csv file EmployeePayHistory.csv

Target: SQL Server table - Create_table_employeePaySCD (this script contains SQL for 4 databases, select appropriate dbms SQL)

Tasks:

1. Download source file & target SQL script from NEU SharePoint folder
2. Create EmployeePayHistorySCD table in workshop dbms
3. Create job in Talend to load target table SCD from csv (or Excel file) and adding employee name (first, middle, last) from AdventureWorks2017 (Tables ONLY)
4. List count of total number of unique employees tracked in EmployeePayHistorySCD?
5. What employee had the most pay changes?
6. How many rows in EmployeePayHistorySCD?
7. What was the employee(s) with the first pay rate recorded?
8. What was the employee(s) with the last recorder pay rate recorded?
9. Upload screen snapshot of completed job
10. Upload zip of your Talend job with associated metadata

```
drop TABLE EmployeePayHistorySCD
;
```

```
CREATE TABLE EmployeePayHistorySCD
( EmployeePayHistorySCD_SK int identity(1,1) not null,
  EmployeeID int NOT NULL,
  FirstName varchar(50) NOT NULL,
  MiddleName varchar(50),
  LastName varchar(50) NOT NULL,
  PayRate decimal(15,2) NOT NULL,
  PayFrequency int NOT NULL,
  scd_effective_date datetime not null,
  scd_ineffective_date datetime null,
  scd_version int not null,
  scd_active int not null
PRIMARY KEY (EmployeePayHistorySCD_SK)
);
```