Load Source/Sink Shadow Prices

Tuesday, April 14, 2015

10:13 PM

LOAD FROM FILE : Load Source Sink Shadow Prices

Datamodel

Populates the table MC\_PRICE\_FTR.

Uses lookup tables used: MC\_PRICE\_SOURCE\_CODE\_TYPE, X\_XP, MC\_PRICE\_FTR\_TYPE and MC\_FTR\_AUCTIONS.

Outputs

<?xml version="1.0" encoding="UTF-8"?>

<FTRDownload:sourceSinkShadowPrices xmlns:FTRDownload="http://ftr.midwestiso.org/download/xml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://ftr.midwestiso.org/download/xml <http://10.72.50.65:9032/ftrmain/mui/download/xml/PublicAuctionSourceSinkShadowPrices_2>

\_0.xsd">

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>XXX</FTRDownload:sourceSink>

<FTRDownload:class>XXX</FTRDownload:class>

<FTRDownload:shadowPrice>nnn.nn</FTRDownload:shadowPrice>

<FTRDownload:round>XXX</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

</FTRDownload:sourceSinkShadowPrices>

Description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field**  **MC\_PRICE\_FTR** | **UK** | **REQ** | **Description** | **Source** | **Lookup** |
| XP\_ID |  | Y | Specifies Source/Sink location name. | <FTRDownload:sourceSink>XXX</FTRDownload:sourceSink> | XP\_ID Where ISO\_REF = XXX |
| START\_DT |  | Y | Indicates effective Start date of the record | Based on the auction name selected when loading, the start date is populated. Look up the auction name in the MC\_FTR\_AUCTIONS, and retrieve the START\_DT for that auction name.  We’ll need to create monthly records for the duration between the Start and end date  For Example,  START\_DT = 12/01/2009  DT\_INTRVL\_VAL = 89  We’ll need to create 3 records for the MC\_PRICE\_FTR table with  START\_DT = 12/01/2009 and DT\_INTRVL\_VAL = 31,  START\_DT = 01/01/2010 and DT\_INTRVL\_VAL = 30 and  START\_DT = 02/01/2010 and DT\_INTRVL\_VAL = 28 |  |
| DT\_INTRVL\_VAL |  | Y | The interval value to denote the duration of the data. | Based on the auction name selected when loading, the start date is populated. Look up the auction name in the NM\_FTR\_AUCTIONS, and retrieve the START\_DT for that auction name. We’ll need to create monthly records for the duration between the Start and end date  For Example,  START\_DT = 12/01/2009  DT\_INTRVL\_VAL = 90  We’ll need to create 3 records for the NM\_PRICE\_FTR table with  START\_DT = 12/01/2009 and DT\_INTRVL\_VAL = 30 ,  START\_DT = 01/01/2010 and DT\_INTRVL\_VAL = 30 and  START\_DT = 02/01/2010 and DT\_INTRVL\_VAL = 30 |  |
| PRICE\_TYPE\_CD |  | Y | Price Type Code | Use ROUND1ONPEAKSHADOWPRICE where,  <FTRDownload:class>Peak</FTRDownload:class> and  <FTRDownload:round>Round 1</FTRDownload:round>    Use ROUND1OFFPEAKSHADOWPRICE where,  <FTRDownload:class>Off-Peak</FTRDownload:class> and  <FTRDownload:round>Round 1</FTRDownload:round>    Use ROUND2ONPEAKSHADOWPRICE where,  <FTRDownload:class>Peak</FTRDownload:class> and  <FTRDownload:round>Round 2</FTRDownload:round>    Use ROUND2OFFPEAKSHADOWPRICE where,  <FTRDownload:class>Off-Peak</FTRDownload:class> and  <FTRDownload:round>Round 2</FTRDownload:round>    Use ROUND3ONPEAKSHADOWPRICE where,  <FTRDownload:class>Peak</FTRDownload:class> and  <FTRDownload:round>Round 3</FTRDownload:round>    Use ROUND3OFFPEAKSHADOWPRICE where,  <FTRDownload:class>Off-Peak</FTRDownload:class> and  <FTRDownload:round>Round 3</FTRDownload:round>    Use ROUND4ONPEAKSHADOWPRICE where,  <FTRDownload:class>Peak</FTRDownload:class> and  <FTRDownload:round>Round 4</FTRDownload:round>    Use ROUND4OFFPEAKSHADOWPRICE where,  <FTRDownload:class>Off-Peak</FTRDownload:class> and  <FTRDownload:round>Round 4</FTRDownload:round>    Use MONTHLYONPEAKSHADOWPRICE where,  <FTRDownload:class>Peak</FTRDownload:class> and  <FTRDownload:round>Monthly</FTRDownload:round>    Use MONTHLYOFFPEAKSHADOWPRICE where,  <FTRDownload:class>Off-Peak</FTRDownload:class> and  <FTRDownload:round> Monthly </FTRDownload:round> | MC\_PRICE\_FTR\_TYPE |
| SOURCE\_CD |  | Y | 'ISO' |  | MC\_PRICE\_SOURCE\_TYPE |
| PRICE\_AMT |  |  | Indicates the shadow price of the FTR at the Source/Sink | <FTRDownload:shadowPrice>nnn.nn</FTRDownload:shadowPrice> |  |
| USER\_ID |  | Y |  |  |  |
| REVISED\_DT |  | Y |  |  |  |

Processing (Wipe and Load)

If price for given startdate / price type/ source DOES NOT exist, INSERT the new record.

If prices for a given startdate / price type/ source ALREADY exists, DELETE the data for the start date / price type / source and INSERT the new records.

Examples

<?xml version="1.0" encoding="UTF-8"?>

<FTRDownload:sourceSinkShadowPrices xmlns:FTRDownload="http://ftr.midwestiso.org/download/xml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://ftr.midwestiso.org/download/xml <http://10.72.50.65:9032/ftrmain/mui/download/xml/PublicAuctionSourceSinkShadowPrices_2>

\_0.xsd">

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN1</FTRDownload:sourceSink>

<FTRDownload:class>Off-peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687598.91</FTRDownload:shadowPrice>

<FTRDownload:round>Monthly</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN2</FTRDownload:sourceSink>

<FTRDownload:class>Off-peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687698.81</FTRDownload:shadowPrice>

<FTRDownload:round>Monthly </FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN3</FTRDownload:sourceSink>

<FTRDownload:class>Off-peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687799.63</FTRDownload:shadowPrice>

<FTRDownload:round>Monthly</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN1</FTRDownload:sourceSink>

<FTRDownload:class>Peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687598.91</FTRDownload:shadowPrice>

<FTRDownload:round>Round 1</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN2</FTRDownload:sourceSink>

<FTRDownload:class>Peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687698.81</FTRDownload:shadowPrice>

<FTRDownload:round>Round 1</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSinkShadowPrice>

<FTRDownload:sourceSink>TESTGEN3</FTRDownload:sourceSink>

<FTRDownload:class>Peak</FTRDownload:class>

<FTRDownload:shadowPrice>1687799.63</FTRDownload:shadowPrice>

<FTRDownload:round>Round 1</FTRDownload:round>

</FTRDownload:sourceSinkShadowPrice>

</FTRDownload:sourceSinkShadowPrices>

Error Handling

* Invalid Transaction Point. Skip record.
  + *No transaction point exists in the nMarket Database for the location name = <sourceSink>.*
* Invalid Class
  + *Invalid class passed from the file <class> is not a valid value.*
* Round
  + *Invalid round passed from the file <class> is not a valid value.*
* Invalid Price
  + *Invalid price passed from the file <shadowPrice> is not a valid value.*

Testing Approach

|  |  |
| --- | --- |
| **ISO LOADS** | **(A)utomated / (M)anual** |
| Connectivity - Download From Market | **N/A** |
| FileListener | **N/A** |
| Job Scheduler | **On hold** |
| Load From File | **M** |
| Verify price data appears correctly on View Prices screen. | **On hold** |
| Load from File: Verify the correct Load from File process is recognized. | **On hold** |
| Verify data is stored in the tables correctly. | **M** |
| Verify that the start date and date interval values are determined correctly. | **M** |
| Unique key validations for data integrity | **A** |
| Date- monthly auctions, multi month auctions | **A** |
| File with All the Valid Types that are supported (price types, Source) | **A** |
| XP\_Validate end-dated XP validation | **A** |
| Validate the Auditpath and Load Summary window has correct information | **M** |
| Error handling- Duplicate data validation for data integrity | **A** |
| Error handling- Business Keys (required fields and unique keys) | **A** |
| Error handling - Formatting | **A** |