

Name of Solution:

Mapping: SCD Type-2 When Rows Are Repeated

Business Requirement:

PowerCenter mapping example that demonstrates how to implement the Slowly Changing Dimension (Type-2) when source data has multiple occurrences of the same dimension key.

Solution URL:

<https://community.informatica.com/solutions/1972>

Supported Versions:

Informatica PowerCenter 9.1 and above.

Description:

Overview

SCD Type 2 tracks historical data by creating multiple records for a given natural key in the dimensional tables with separate surrogate keys.

The mapping example to apply SCD type-2 on source data.

Suppose a company is maintaining a table with the employee location details. An example of the data is given below:

EMPLOYEE TABLE

E_ID	E_NAME	E_DOB	E_LOCATION	START_DATE
100	Chandler Bing	26/06/1978	Texas	01/01/2000
100	Chandler Bing	26/06/1978	Las Vegas	01/01/2006
100	Chandler Bing	26/06/1978	New York	01/01/2009

Now the mapping will load the historical data in SCD Type-2 dimension table. So the data will look like as shown below after it has been passed through mapping.

SEQ	E_ID	E_NAME	E_DOB	E_LOC	S_DATE	E_DATE	F
101	100	Chandler Bing	26/06/1978	Texas	01/01/2000	12/31/2005	N
102	100	Chandler Bing	26/06/1978	Las Vegas	01/01/2006	12/31/2008	N
103	100	Chandler Bing	26/06/1978	New York	01/01/2009	12/31/9999	Y

Note: The End_Date with 12/31/9999 in row indicates the current tuple version.

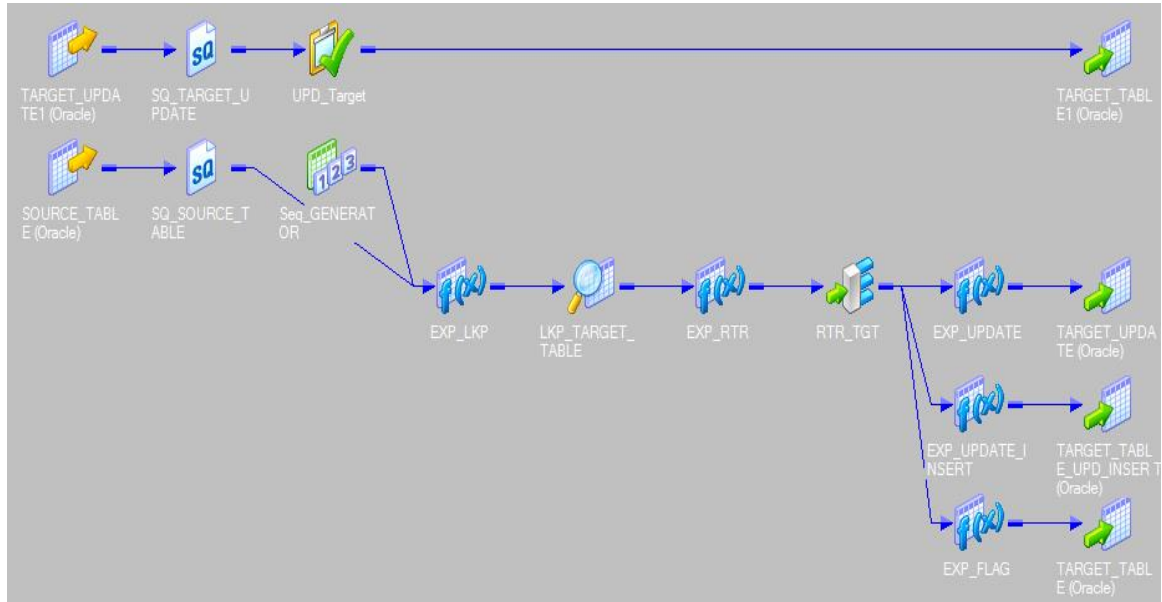
Download file contents:

- PowerCenter mapping XML
- Oracle scripts to create a source and target.

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Steps to implement the solution:

1. Compile the script in the database to create source and target tables.
2. Import workflow using the Repository Manager. Select the appropriate folder from the repository and resolve the conflicts by choosing suitable option.
3. In the PowerCenter Designer, study the mapping and how transformations are designed.



4. Observe the logic of Router transformation as shown below.

Edit Transformations	
Transformation	Ports Properties Groups Metadata Extensions
Select transformation:	RTR_TGT
Transformation type:	Router
Group Name	Group Filter Condition
INSERT	NewLookupRow=1
UPDATE	NewLookupRow=2
DEFAULT1	

5. Open the workflow in Workflow Manager. Assign the integration service in Workflow -> Edit -> Integration Service.
6. Edit session and assign valid connection object for the source and target. Make sure that the lookup transformation also gets the valid connection.
7. Execute the workflow and observe the output in the target table. The SCD type 2 is implemented when rows are repeated.

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