PowerCenter

10.x

Case Study

Ver.1.0

Prepared by

HCL

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Revision List

Document Name: **PowerCenter 10.x Case Study**

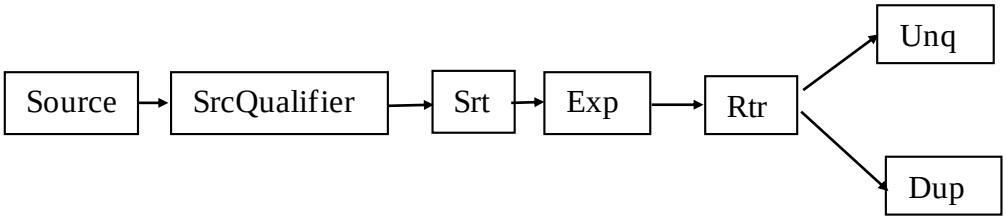
Version: **1.0**

#	Revision Date	Revision Description	Version	Location in Document	Revised by
1	26-04-2018	Initial Version	1.0	Entire Document	Informatica CoE

PROBLEM STATEMENT #1

Load all unique records into one target and all duplicate records into another target.

Design:



Please use similar queries to create DB tables.

CREATE TABLE TGT_EXP_EMPLOYEE_UNQ_2 AS select * from SRC_EXP_EMPLOYEE WHERE 1=2;

CREATE TABLE TGT_EXP_EMPLOYEE_DUP_2 AS select * from SRC_EXP_EMPLOYEE WHERE 1=2;

THE SOLUTION ROADMAP

- Create source definition for SRC_EXP_EMPLOYEE
- Create Sorter Transformation to sort.
- Create Expression Transformation. Use variable ports.
- Create Router Transformation
- Create target definitions TGT_EXP_EMPLOYEE_UNQ_***xx*** and TGT_EXP_EMPLOYEE_DUP_***xx***
- Create session and workflow
- Run the workflow to move data from source to target

Case Study

Use following transformations

- **SORTER**
- **EXPRESSION**
- **ROUTER**

Duration : 30-45 minutes
Source Definition : SRC_EXP_EMPLOYEE
Target Definition : TGT_EXP_EMPLOYEE_xx

Note: While importing source and target tables from the database use DataDirect ODBC driver rather than Oracle native drivers.

Log on '**Informatica PowerCenter Designer**' and connect to repository **infa_rep**.

Use informclientx/informclientx

Create Source table

- Tools->Source Analyzer->Sources->Import from Database->Select table *SRC_EXP_EMPLOYEE* to Import

Create Target table

- Tools->Target Designer->Targets->Import from Database->Select tables *TGT_EXP_EMPLOYEE_UNQ_xx* and *TGT_EXP_EMPLOYEE_DUP_xx* to Import

Create Mapping

- Tools->Mapping Designer
- **Mappings**->Create
- Enter new Mapping name. Enter ***m_Split_Unique_Duplicate_xx***. A new mapping with this name will be created and shown in the Mappings folder of the Parent folder in the navigator window
- Click the **Sources** folder and drag and drop ***SRC_EXP_EMPLOYEE*** to the mapping designer workspace
- **Transformation**-> Create-> Sorter-> name it as **SRT_EMPID.**
- **Transformation**-> Create-> Expression-> name it as **EXP_SPLIT_UNQ_DUP.** Create variable port to store previous record EMPID and compare the same with input port EMPID (Current record EMPID) to determine if it's a unique EMPID or duplicate. Create output port as Flag and Flag the records as U or D.
- **Transformation**-> Create-> Router-> name it as RTR_UNQ_DUP-> Create 2 groups in one group (name it as UNQ) Flag=U and another group (name it as DUP) Flag=D
- Click the **Targets** folder and drag and drop both the targets *TGT_EXP_EMPLOYEE_UNQ_xx* and *TGT_EXP_EMPLOYEE_DUP_xx*
- Connect all the ports from Router – UNQ group and map it to *TGT_EXP_EMPLOYEE_UNQ_xx*
- Connect all the ports from Router – DUP group and map it to *TGT_EXP_EMPLOYEE_DUP_xx*
- Save the Mapping

Create Workflow

- Log on '**Workflow Manager**' and connect to repository **infa_rep**.
- Connect to folder in which mapping is created.
- Click '**Tools**' Menu and select '**Task Developer**'.
- Click '**Tasks**' menu and click '**Create**'.
- Select '**Session**' type of task and enter name of the task '***s_Split_Unique_Duplicate_xx***' and click '**create**'.
- Select mapping '***m_Split_Unique_Duplicate_xx***' for this session. And click OK button.

- Add proper **$Source** and **$Target** values in **Properties** tab and **Mapping** tab. Save the session
- Click '**Tools**' Menu and select '**Workflow designer**'.
- Click '**Workflow**' menu and click '**create**'.
- Type '**wf_*Split_Unique_Duplicate_xx***' in the name filed and press OK.
- Drag and drop session '**s_*Split_Unique_Duplicate_xx***' from sessions folder
- Click '**Tasks**' menu and select '**Link Task**', link Start and session task.
- Save the workflow
- Right click and start the workflow.

In Workflow Monitor, right Click on succeeded session '**s_*Split_Unique_Duplicate_xx*'**. Select 'Get Run Properties'.
Check Source/Target Properties.

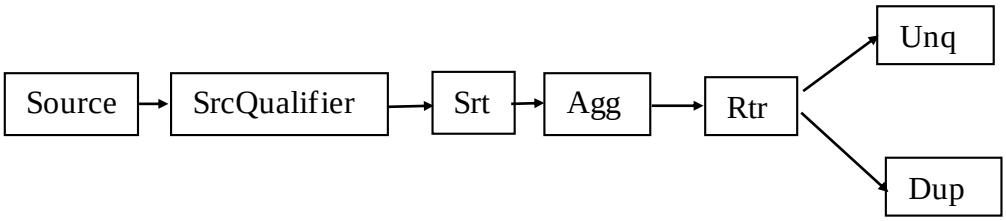
Rows in the Source Table: 9
TGT_EXP_EMPLOYEE_UNQ_xx: 3
TGT_EXP_EMPLOYEE_DUP_xx: 6

PROBLEM STATEMENT #2

Load all unique records into one target and all distinct duplicate records into another target.

Use AGGREGATOR

Design:



PROBLEM STATEMENT #3

Read latest Employee information from SRC_EXP_EMPLOYEE and load it into a Flatfile

Use Source Qualifier Override

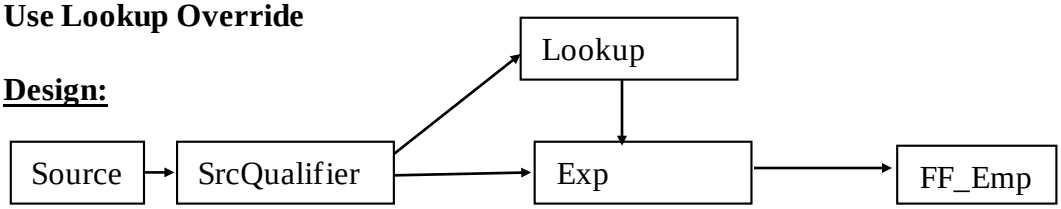
Design:

PROBLEM STATEMENT #4

Read EMP_DTLS table, lookup on EMP_DEMOGRAPHIC to get demographic information and load it in Flat file.

Use Lookup Override

Design:

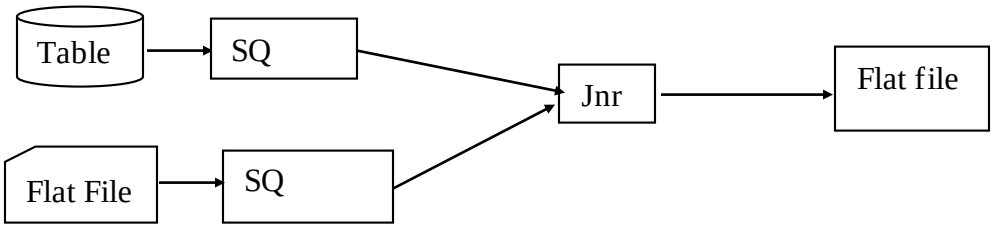


PROBLEM STATEMENT #5

Read EMP_DTLS table and EMP_DEMOGRAPHIC flat file, populate all employee information into a flat file.

Use Joiner

Design:

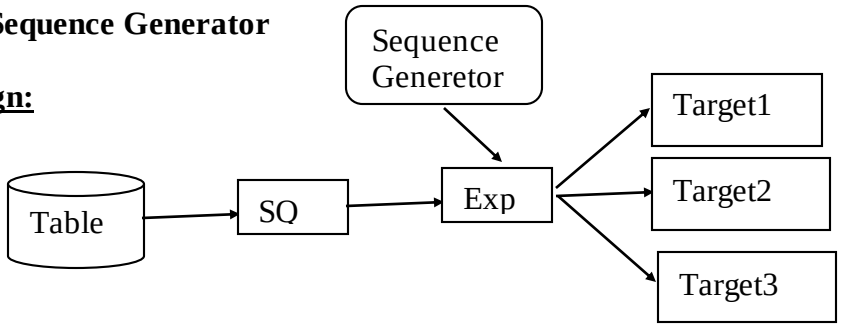


PROBLEM STATEMENT #6

Read EMP_DTLS table, load 1st record into first target, 2nd into second target, 3rd into third target and then load 4th into first target, 5th into second target, 6th into third target, similarly continue for all the data in the source.

Use Sequence Generator

Design:

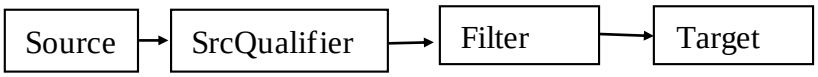


PROBLEM STATEMENT #7

Read EMP_DTLS flat file, load only Asia region data into target flat file

Use Filter

Design:

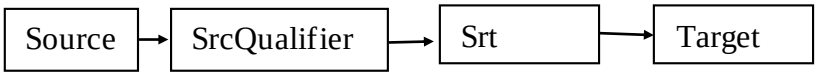


PROBLEM STATEMENT #8

Read EMP_DTLS flat file, sort data and into target flat file

Use Sorter

Design:

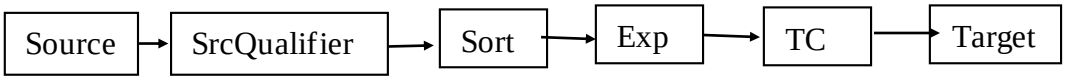


PROBLEM STATEMENT #9

Read EMP_DTLS flat file, extract region wise data into separate target flat files

Use Transaction Control

Design:

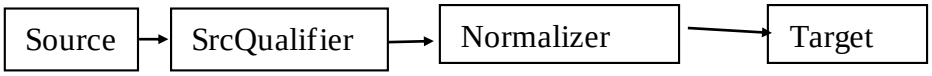


PROBLEM STATEMENT #10

Read EMP_PIVOT flat file, pivot data and load into target flat file

Use Normalizer

Design:

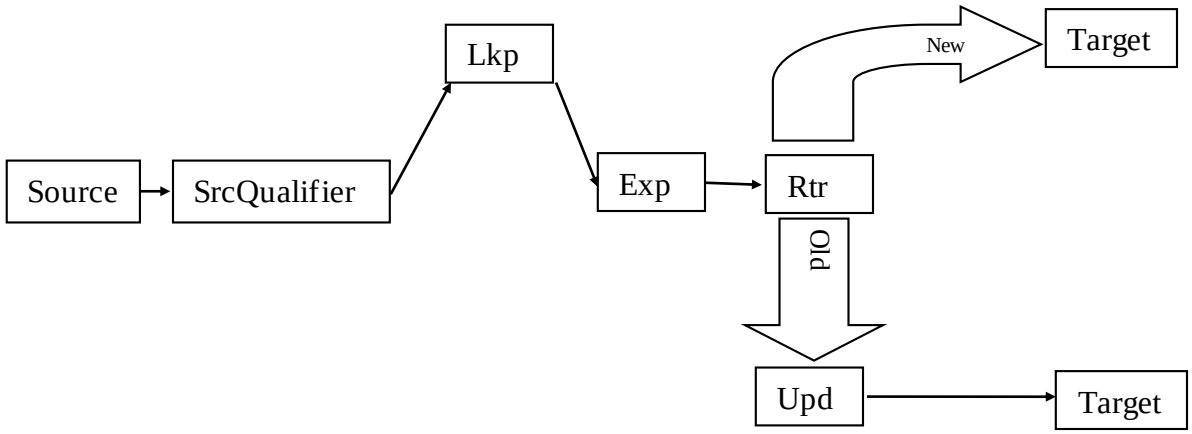


PROBLEM STATEMENT #11

Read EMP_DTLS flat file, achieve SCD type1

Use Update Strategy

Design:

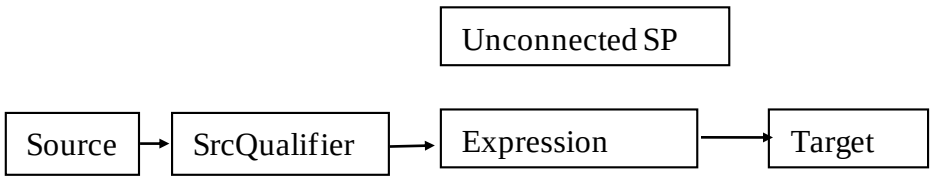


PROBLEM STATEMENT #12

Read **EMP_SRC_PROC** flat file, get the other employee related information from stored procedure **PROC_GET_NAME_USING_ID** and load target **emp_dept_sp**

Use Stored Procedure-Unconnected

Design:



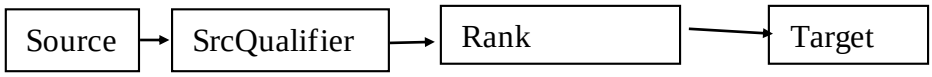
CASE STUDY

PROBLEM STATEMENT #13

Read **EMPLOYEE** table, rank employees based on salary per department and load it into target

Use Rank

Design:

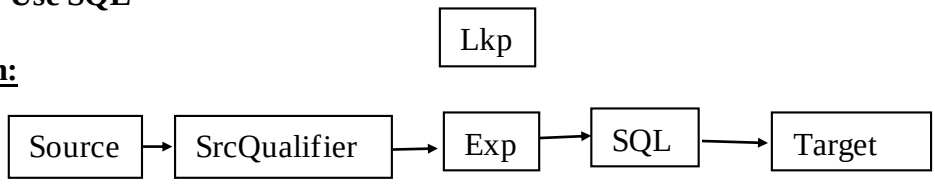


PROBLEM STATEMENT #14

Read **EMPLOYEE** table, lookup on **DEPT** table to get department information, load into TGT_EMP_SQL using SQL

Use SQL

Design:

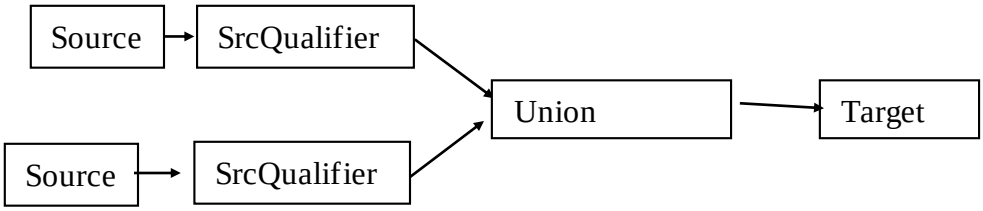


PROBLEM STATEMENT #15

Read **TGT_EMP_SQL_ONE, TGT_EMP_SQL_TWO** table, use UNION and load it into target

Use Union

Design:



CASE STUDY

PROBLEM STATEMENT #16

Read **XML file** and load it into target

Use XML