

Transformation of Test Data Warehouse

- Adding constants for Error Messages and Success Column in T_Lead_F Table

T JOB CHANGE DATA T TIME T2

■ Add constant values — □ ×

Step name Add constants

Fields :

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value
1	Invalid_Foreign_Key	String							Invalid Referential Integr
2	Invalid_Date_Diff	String							Invalid Date
3	Null_Values	String							Null Values
4	Lead_Table_Errors	String							Invalid Lead Table Updat
5	Lead_Table_Success	String							Y

< >

- Check for Null Values

Filter rows

Step name: **Filter rows**

Send 'true' data to step: **Select values**

Send 'false' data to step: **Add sequence**

The condition:

```

CHANGE_ID IS NOT NULL
AND
(
  (
    CONTRACT_DATE IS NOT NULL
    AND
    (
      SALES_AGENT_ID IS NOT NULL
      AND
      (
        SALES_CLASS_ID IS NOT NULL
        AND
        (
          LOCATION_ID IS NOT NULL
          AND
          (
            CUST_ID_ORDERED_BY IS NOT NULL
            AND
            (
              DATE_PROMISED IS NOT NULL
              AND
              (
                DATE_SHIP_BY IS NOT NULL
                AND
                (
                  NUMBER_OF_SUBJOBS IS NOT NULL
                  AND
                  (
                    UNIT_PRICE IS NOT NULL
                    AND
                    (
                      QUANTITY_ORDERED IS NOT NULL
                      AND
                      (
                        QUOTE_QTY IS NOT NULL

```

OK Cancel

Help

These are added in T_ERROR_LOG

6	316	107	(null)	Null values are found
7	317	113	(null)	Null values are found

- Date Parsing

Fields to alter the meta-data for :

Field #

Fieldname

Type

Length

Precision

Binary to Normal?

Format

Date Format Lentient?

Date Locale

1

CHANGE_ID

None

10

0

N

N

2

CONTRACT_DATE

String

10

0

N

yyyy-MM-dd

N

3

SALES_AGENT_ID

None

10

0

N

N

4

SALES_CLASS_ID

None

10

0

N

N

5

LOCATION_ID

None

10

0

N

N

6

CUT_ID_ORDERED_BY

None

10

0

N

N

7

DATE_PROMISED

String

10

0

N

yyyy-MM-dd

N

8

DATE_SHIP_BY

String

10

0

N

yyyy-MM-dd

N

9

NUMBER_OF_SUBJOBS

None

4

0

N

N

10

UNIT_PRICE

None

5

2

N

N

11

QUANTITY_ORDERED

None

8

0

N

N

12

QUOTE_CITY

None

10

0

N

N

13

LEAD_ID

None

10

0

N

N

14

Invalidd_Foreign_Key

None

10

0

N

N

15

Invalidd_Date_Diff

None

10

0

N

N

16

Pubic_Vaiues

None

10

0

N

N

17

Lead_Table_Errors

None

10

0

N

N

18

Lead_Success

None

10

0

N

N

Field splitter

Step name

Split Fields_Date_Promised

Field to split

DATE_PROMISED

Delimiter

-

Enclosure

Fields

Field #

New Field

ID

Remove ID?

Type

Length

Precision

Format

Group

Decimal

Currency

Nullif

Default

Trunc

1

Promise_Year

N

N

Integer

2

Promise_Month

N

N

Integer

3

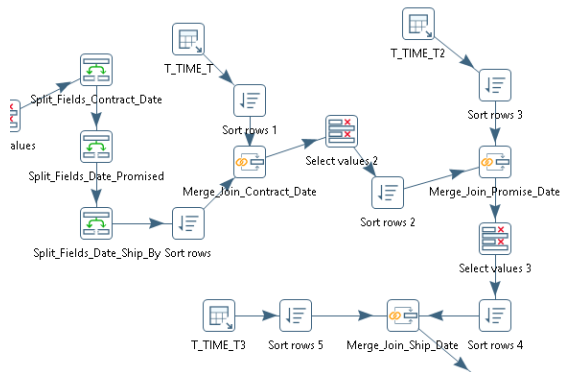
Promise_Day

N

N

Integer

- Find Time_Id from Time Dimension For each of three dates



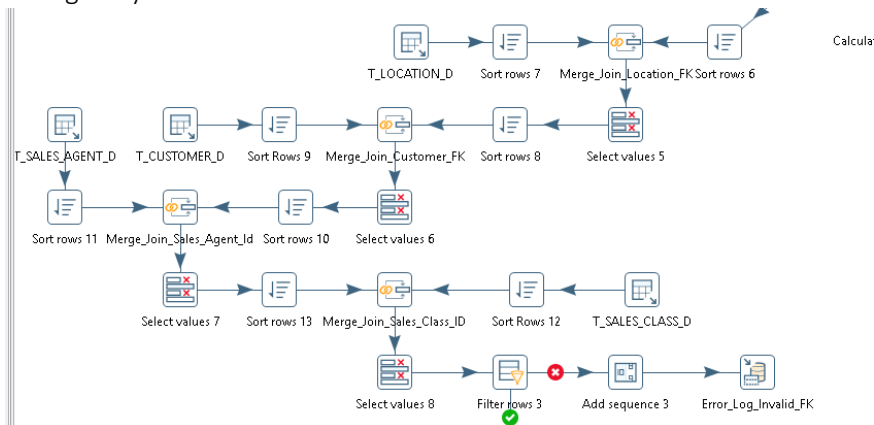
- Calculate Date Diff

Calculator										
Step name: Date Difference										
#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask
1	Diff_Promise_minus_Contract	A - B	RowNum_Promise_Date	RowNum_Contract_Date		None			N	
2	Diff_Promise_minus_Ship	A - B	RowNum_Promise_Date	RowNum_Ship_Date		None			N	

- Invalid Dates are added to the Error Log

8	318	103	(null)	Invalid Dates
9	319	118	(null)	Invalid Dates
10	320	116	(null)	Invalid Dates
11	321	117	(null)	Invalid Dates
12	322	114	(null)	Invalid Dates

- Foreign Key Check



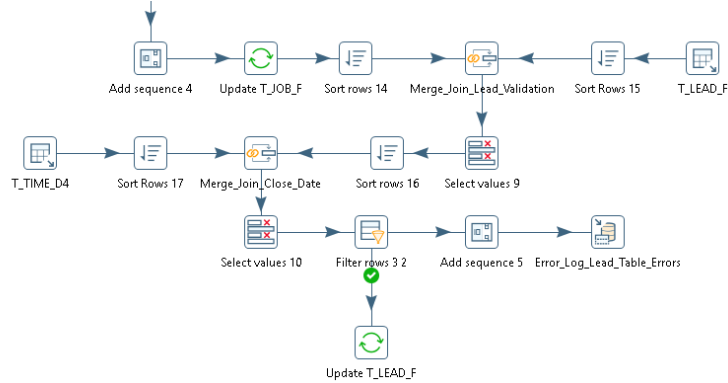
- Invalid Foreign Key Error Log

1	323	111	(null)	Invalid Referential Integrity
2	324	104	(null)	Invalid Referential Integrity
3	325	109	(null)	Invalid Referential Integrity

- Adding satisfactory rows to Job Table
Updated Job Table(8 rows are added)

JOB_ID	CONTRACT_DATE	SALES_AGENT_ID	SALES_CLASS_ID	LOCATION_ID	CUST_ID_ORDERED_BY	DATE_PROMISED	DATE_SHIP_BY	NUMBER_OF_SUBJOBS	UNIT_PRICE	QUANTITY
1	20130110	4	1	6	1	20130201	20130129	5	1.6	
2	20130116	1	2	4	4	20130208	20130204	1	0.8	
3	20130116	1	6	4	5	20130211	20130206	1	0.7	
4	20130117	4	3	6	9	20130214	20130206	3	1.5	
5	20130122	1	1	1	3	20130214	20130211	1	1.6	
6	20130123	4	5	6	1	20130219	20130214	2	0.85	
7	20130129	1	6	7	7	20130225	20130219	1	0.7	
8	20130201	2	4	8	27	20130225	20130220	2	0.75	
9	20130206	4	5	1	2	20130227	20130221	4	0.85	
10	20130207	2	3	9	29	20130228	20130221	1	1.5	
11	20130211	2	1	3	9	20130304	20130227	3	1.6	
12	20130306	6	1	3	28	20130328	20130322	1	1.6	
13	20130312	8	2	5	3	20130405	20130401	1	0.8	
14	20130221	1	3	1	18	20130318	20130312	5	1.5	
15	20130315	11	4	4	10	20130410	20130404	4	0.75	
16	20130311	11	4	2	24	20130403	20130328	4	0.75	
17	20130207	8	5	4	26	20130307	20130301	1	0.85	
18	20130225	7	6	9	16	20130315	20130311	4	0.7	

- Lead Table Validation and Updating Lead Table



- Adding to Error Log

4	326	105	120	Invalid Update To Lead Table
5	327	101	123	Invalid Update To Lead Table

6 rows are updated

#	CHANGE_ID	Contract_Year	Contract_Month	Contract_Day	SALES_AGENT_ID	SALES_CLASS_ID	LOCATION_ID	CUST_ID_ORDERED_BY
1	102	2013	2	11	2	1	3	9
2	106	2013	2	25	7	6	9	16
3	108	2013	3	6	6	1	3	28
4	110	2013	3	11	11	4	2	24
5	112	2013	3	12	8	2	5	3
6	115	2013	3	15	11	4	4	10

Transformation Complete:

