

Transformation of Production Data Warehouse

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

T JOB: CHANGE DATA

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

< OK Cancel

Help

- 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
                      AND
                      (

```

Help OK Cancel

1:56 PM 8/19/2018

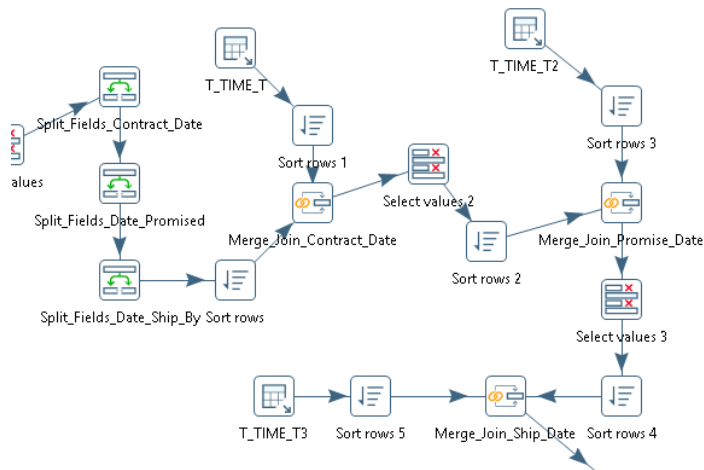
Added in W_ERROR_LOG

	LOG_ID	CHANGE_ID	JOB_ID	NOTE
1	1	61186	(null)	Null values are found
2	2	61077	(null)	Null values are found
3	3	61090	(null)	Null values are found
4	4	61202	(null)	Null values are found
5	5	60798	(null)	Null values are found

- Date Parsing

[illegible]

- Find Time_Id from Time Dimension For each of three dates



- Calculate Date Diff

Calculator

Step name: Date_Differences

Fields:

#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask	Decimal sym
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		

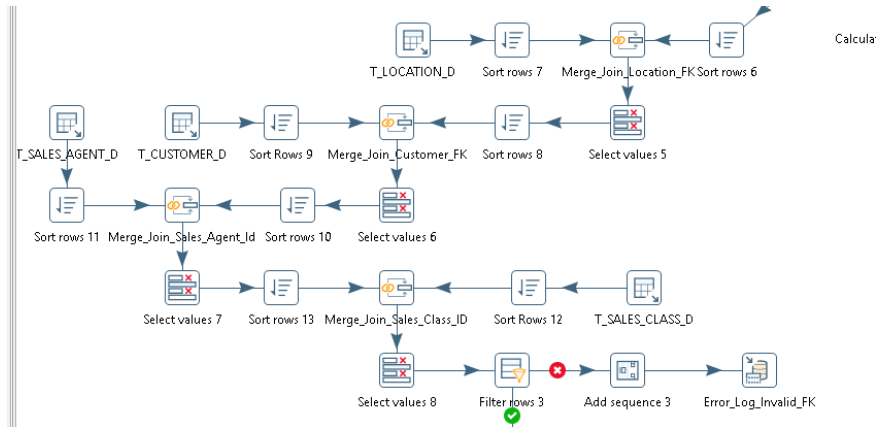
< >

Help OK Cancel

- Invalid Dates are added to the Error Log

6	6	61016	(null)	Invalid Dates
7	7	60879	(null)	Invalid Dates
8	8	60950	(null)	Invalid Dates
9	9	60968	(null)	Invalid Dates
10	10	60835	(null)	Invalid Dates
11	11	60837	(null)	Invalid Dates
12	12	61255	(null)	Invalid Dates
13	13	61108	(null)	Invalid Dates
14	14	61220	(null)	Invalid Dates
15	15	60782	(null)	Invalid Dates
16	16	61062	(null)	Invalid Dates
17	17	61065	(null)	Invalid Dates
18	18	60789	(null)	Invalid Dates
19	19	61192	(null)	Invalid Dates
20	20	61042	(null)	Invalid Dates
21	21	61103	(null)	Invalid Dates
22	22	60725	(null)	Invalid Dates

- Foreign Key Check



- Invalid Foreign Key Error Log

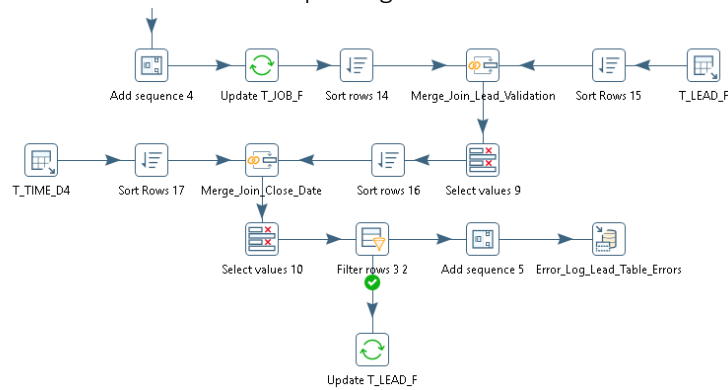
23	23	61145	(null)	Invalid	Referential	Integrity
24	24	60939	(null)	Invalid	Referential	Integrity
25	25	61086	(null)	Invalid	Referential	Integrity
26	26	60802	(null)	Invalid	Referential	Integrity
27	27	60735	(null)	Invalid	Referential	Integrity
28	28	61122	(null)	Invalid	Referential	Integrity
29	29	61212	(null)	Invalid	Referential	Integrity
30	30	61129	(null)	Invalid	Referential	Integrity
31	31	60677	(null)	Invalid	Referential	Integrity
32	32	60889	(null)	Invalid	Referential	Integrity
33	33	60946	(null)	Invalid	Referential	Integrity
34	34	61201	(null)	Invalid	Referential	Integrity
35	35	60771	(null)	Invalid	Referential	Integrity
36	36	61134	(null)	Invalid	Referential	Integrity
37	37	60984	(null)	Invalid	Referential	Integrity
38	38	60742	(null)	Invalid	Referential	Integrity
39	39	60775	(null)	Invalid	Referential	Integrity
40	40	61224	(null)	Invalid	Referential	Integrity
41	41	61099	(null)	Invalid	Referential	Integrity
42	42	61051	(null)	Invalid	Referential	Integrity
43	43	60796	(null)	Invalid	Referential	Integrity
44	44	61135	(null)	Invalid	Referential	Integrity
45	45	60684	(null)	Invalid	Referential	Integrity
46	46	60667	(null)	Invalid	Referential	Integrity
47	47	60894	(null)	Invalid	Referential	Integrity
48	48	61141	(null)	Invalid	Referential	Integrity
49	49	61072	(null)	Invalid	Referential	Integrity
50	50	60680	(null)	Invalid	Referential	Integrity
51	51	60829	(null)	Invalid	Referential	Integrity
52	52	61060	(null)	Invalid	Referential	Integrity
53	53	61127	(null)	Invalid	Referential	Integrity
54	54	60978	(null)	Invalid	Referential	Integrity
55	55	61131	(null)	Invalid	Referential	Integrity
56	56	60988	(null)	Invalid	Referential	Integrity
57	57	60967	(null)	Invalid	Referential	Integrity

- Adding satisfactory rows to Job Table

Updated Job Table

Execution Results								
Execution History Logging Step Metrics Performance Graph Metrics Preview data								
● First rows ○ Last rows ○ Off								
#	CHANGE_ID	Contract_Year	Contract_Month	Contract_Day	SALES_AGENT_ID	SALES_CLASS_ID	LOCATION_ID	
1	61082	2015	4	28	1122	1	5	
2	61153	2015	8	6	1125	1	6	
3	60662	2015	3	24	1135	1	4	
4	61132	2015	5	7	1142	1	12	
5	60908	2015	4	30	1154	1	4	
6	61158	2015	5	5	1156	1	2	
7	61010	2015	9	10	1162	1	10	
8	60800	2015	4	3	1176	1	1	
9	60920	2015	7	20	1178	1	1	
10	61204	2015	4	9	1185	1	5	
11	60963	2015	8	14	1186	1	2	
12	60781	2015	8	6	1189	1	3	
13	61199	2015	3	19	1190	1	8	
14	60666	2015	6	18	1195	1	7	
15	60869	2015	4	29	1201	1	10	
16	60931	2015	9	7	1204	1	11	
17	61057	2015	8	6	1206	1	8	
18	61233	2015	9	11	1209	1	1	
19	60767	2015	7	17	1217	1	6	
20	60693	2015	4	29	1222	1	1	
21	60805	2015	2	16	1229	1	6	
22	61231	2015	7	21	1231	1	8	
23	60858	2015	3	24	1243	1	12	
24	61119	2015	6	30	1251	1	2	

- Lead Table Validation and Updating Lead Table



- Adding to Error Log

58	58	60893	1000323	Invalid Update To Lead Table
59	59	60790	1000532	Invalid Update To Lead Table
60	60	60954	1000270	Invalid Update To Lead Table
61	61	61226	1000219	Invalid Update To Lead Table
62	62	60891	1000269	Invalid Update To Lead Table

Execution Results							
<div> <div>Execution History</div> <div>Logging</div> <div>Step Metrics</div> <div>Performance Graph</div> <div>Metrics</div> <div>Preview data</div> </div>							
<div> <div>First rows</div> <div>Last rows</div> <div>Off</div> </div>							
#	CHANGE_ID	Contract_Year	Contract_Month	Contract_Day	SALES_AGENT_ID	SALES_CLASS_ID	LOCATION_ID
1	60845	2015	3	4	1526	3	5
2	60723	2015	3	10	1481	5	3
3	60761	2015	2	10	1494	6	2
4	60828	2015	1	23	1384	5	6
5	60992	2015	3	9	1605	6	12
6	61177	2015	3	20	1240	5	7
7	61205	2015	1	29	1192	6	7
8	61247	2015	3	5	1149	2	3
9	60814	2015	3	26	1295	4	8
10	60839	2015	3	13	1471	3	3
11	61033	2015	3	25	1432	4	12
12	61043	2015	3	20	1598	6	9
13	60720	2015	3	30	1254	6	9
14	60731	2015	2	4	1377	6	8
15	60865	2015	3	17	1151	4	11
16	60878	2015	1	30	1322	2	7
17	61143	2015	1	29	1318	1	8
18	60695	2015	2	13	1514	3	1
19	60818	2015	1	30	1330	3	9
20	60887	2015	3	9	1150	4	4
21	60934	2015	3	9	1447	6	5
22	61089	2015	1	19	1456	1	9
23	61146	2015	3	9	1230	2	1
24	60926	2015	2	3	1417	2	7

Final View of W_LEAD_F

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL										
	LEAD_ID	QUOTE_QTY	QUOTE_PRICE	LEAD_SUCCESS	JOB_ID	CREATED_DATE	CUST_ID	LOCATION_ID	SALES_AGENT_ID	SALES_CLASS_ID
1	394326	1018100	1.47 Y		314464	20140128	2535	3	1154	2
2	394327	385400	1.55 Y		314465	20130902	2686	10	1582	2
3	394328	940700	0.74 Y		314466	20130823	2571	5	1561	6
4	394329	1073200	1.47 Y		314467	20140328	2687	4	1476	2
5	394330	669900	1.52 N	(null)		20130524	2768	12	1313	2
6	394331	1031800	0.74 Y		314468	20140806	2876	12	1177	4
7	394332	138000	0.79 Y		314469	20131015	2522	12	1206	6
8	394333	474800	0.78 Y		314470	20130228	2791	4	1157	3
9	394334	290400	0.78 Y		314471	20131227	2635	3	1468	4
10	394335	763700	0.75 Y		314472	20141020	2664	5	1412	6
11	394336	989200	0.74 Y		314473	20140618	2882	1	1324	6
12	394337	210600	1.58 Y		314474	20140228	2760	11	1386	1
13	394338	65900	0.8 Y		314475	20140911	2840	5	1298	5
14	394339	195800	0.79 Y		314476	20140110	2642	2	1135	3
15	394340	218600	0.79 Y		314477	20130924	2770	7	1573	4
16	394341	171100	0.79 N	(null)		20130403	2695	12	1548	5
17	394342	984000	1.49 Y		314478	20140219	2590	4	1293	2
18	394343	143400	1.58 Y		314479	20140522	2749	12	1306	1
19	394344	1061100	1.47 Y		314480	20131217	2949	7	1356	1
20	394345	1061300	1.47 Y		314481	20131203	2666	3	1149	2
21	394346	426500	0.78 Y		314482	20130417	2827	4	1377	4
22	394347	468300	0.78 Y		314483	20140526	2947	9	1559	4

- Final View of W_ERROR_LOG

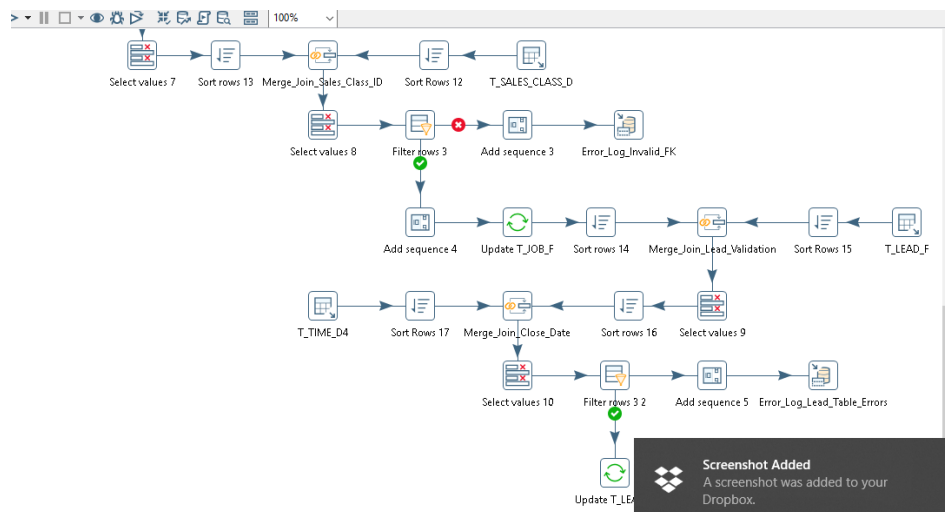
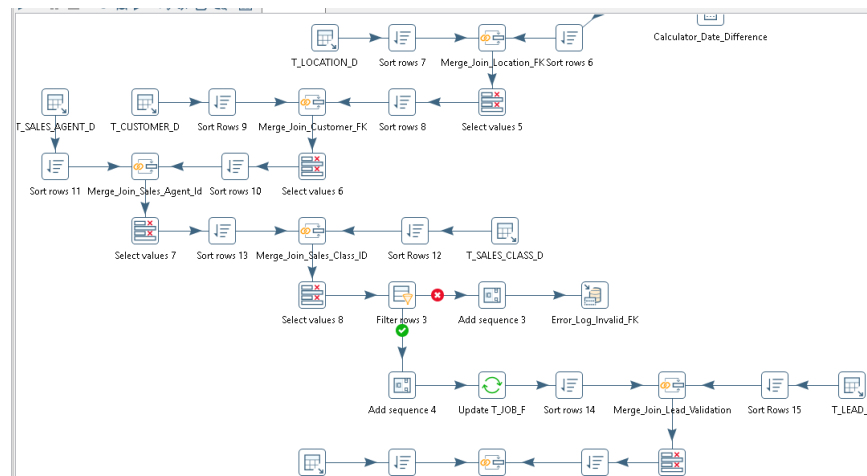
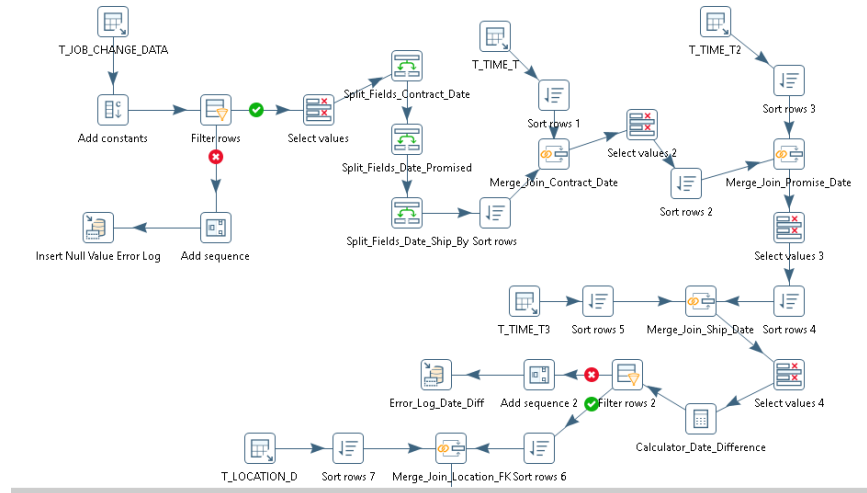
W_ERROR_LOG			
LOG_ID	CHANGE_ID	JOB_ID	NOTE
1	1	61186	(null) Null values are found
2	2	61077	(null) Null values are found
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7	7	60879	(null) Invalid Dates
8	8	60950	(null) Invalid Dates
9	9	60968	(null) Invalid Dates
10	10	60835	(null) Invalid Dates
11	11	60837	(null) Invalid Dates
12	12	61255	(null) Invalid Dates
13	13	61108	(null) Invalid Dates
14	14	61220	(null) Invalid Dates
15	15	60782	(null) Invalid Dates
16	16	61062	(null) Invalid Dates
17	17	61065	(null) Invalid Dates
18	18	60789	(null) Invalid Dates
19	19	61192	(null) Invalid Dates
20	20	61042	(null) Invalid Dates
21	21	61103	(null) Invalid Dates
22	22	60725	(null) Invalid Dates

23	23	61145	(null) Invalid Referential Integrity
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35	35	60771	(null) Invalid Referential Integrity
36	36	61134	(null) Invalid Referential Integrity
37	37	60984	(null) Invalid Referential Integrity
38	38	60742	(null) Invalid Referential Integrity
39	39	60775	(null) Invalid Referential Integrity
40	40	61224	(null) Invalid Referential Integrity
41	41	61099	(null) Invalid Referential Integrity
42	42	61051	(null) Invalid Referential Integrity
43	43	60796	(null) Invalid Referential Integrity

- Final View of W_JOB_F

W_JOB_F										
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	
1	314007	20140711	1208	2	2	2812	20140818	20140814	2	1.52
2	314008	20140321	1279	2	6	2926	20140501	20140422	2	1.52
3	314009	20140225	1497	3	3	2618	20140407	20140403	1	0.78
4	314010	20131108	1229	2	2	2723	20131129	20131125	2	1.52
5	314011	20140820	1181	3	3	2824	20140922	20140915	3	0.74
6	314012	20130530	1346	3	9	2736	20130711	20130708	3	0.74
7	314013	20140101	1231	5	2	2860	20140129	20140127	2	0.76
8	314014	20141230	1498	3	1	2700	20150129	20150123	3	0.74
9	314015	20140122	1551	6	9	2757	20140221	20140213	1	0.8
10	314016	20130522	1230	5	1	2834	20130625	20130621	4	0.78
11	314017	20140826	1457	5	6	2861	20140919	20140915	2	0.77
12	314018	20130401	1561	2	5	2569	20130503	20130429	1	1.6
13	314019	20140520	1463	4	10	2769	20140616	20140606	1	0.79
14	314020	20130607	1341	2	8	2693	20130708	20130701	1	1.54
15	314021	20130503	1515	5	4	2984	20130528	20130522	4	0.74
16	314022	20160108	1198	5	5	2921	20160209	20160130	2	0.76
17	314023	20130829	1270	6	9	2549	20131003	20131001	3	0.76
18	314024	20140107	1172	3	12	2723	20140211	20140204	9	0.73
19	314025	20160306	1372	1	6	2508	20160331	20160325	4	1.47
20	314026	20130805	1136	5	11	2645	20130903	20130829	2	0.78
21	314027	20141201	1320	6	6	2897	20141231	20141226	3	0.74
22	314028	20140508	1429	4	1	2926	20140610	20140604	4	0.75

Transformation Complete:



Screenshot Added
A screenshot was added to your
Dropbox.

