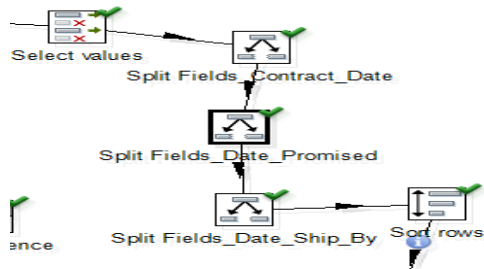
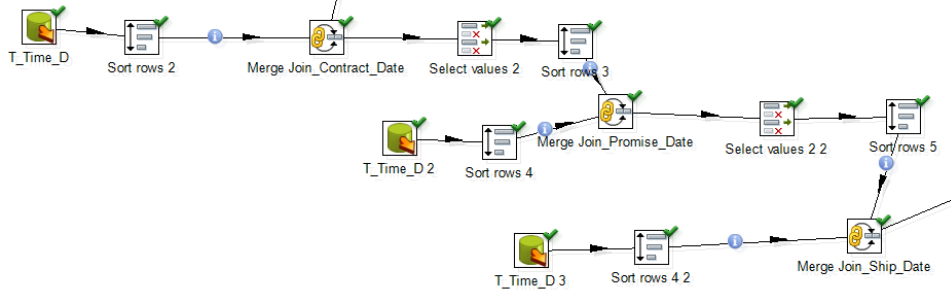


[illegible]



4. Find Time_Id from Time Dimension For each of three dates



5. Calculate Date Diff

Calculator

Step name: Date Differences

#	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		

OK Cancel

6. Invalid Date Diff(Add to Error_Log)

Filter by Condition and Add non matching rows

the condition:

Diff_Promise_minus_Contract >= [14]

AND

Diff_Promise_minus_Contract <= [30]

AND

Diff_Promise_minus_Ship >= [2]

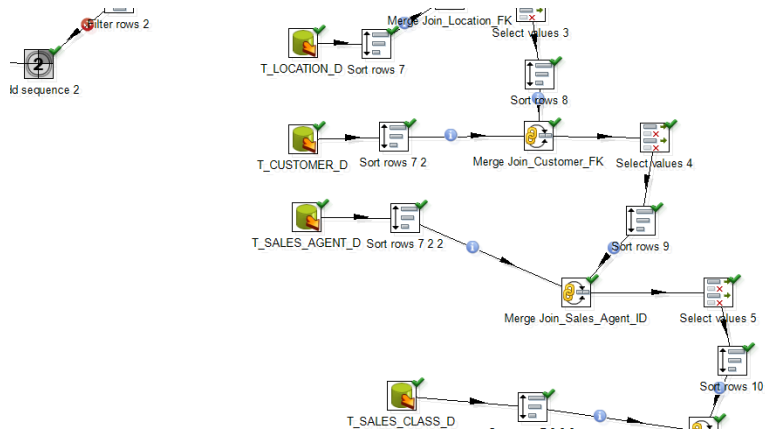
AND

Diff_Promise_minus_Ship <= [7]

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

7. Check FKs For Location_ID, Customer_ID Ordered By,Sales_Agent_ID,Sales_Class_ID

For Getting Rejected Rows , Do a left outer join for each merge with Tables Input.



8. Where FK's Values are not matched(Add to ERROR_LOG Table) Conditions are used to find non matching rows

The condition:

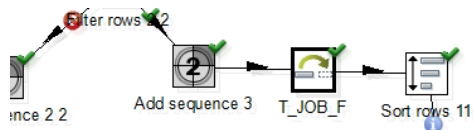
```

Time_ID_Contract_Date IS NOT NULL
AND
Time_ID_Promise_Date IS NOT NULL
AND
Time_ID_Ship_Date IS NOT NULL
AND
LOCATION_ID_FK IS NOT NULL
AND
CUST_KEY_FK IS NOT NULL
AND
SALES_AGENT_ID_FK IS NOT NULL
AND
SALES_CLASS_ID_FK IS NOT NULL

```

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

9. Now add the rows which satisfied the above conditions to Job Table



Mappings:

```

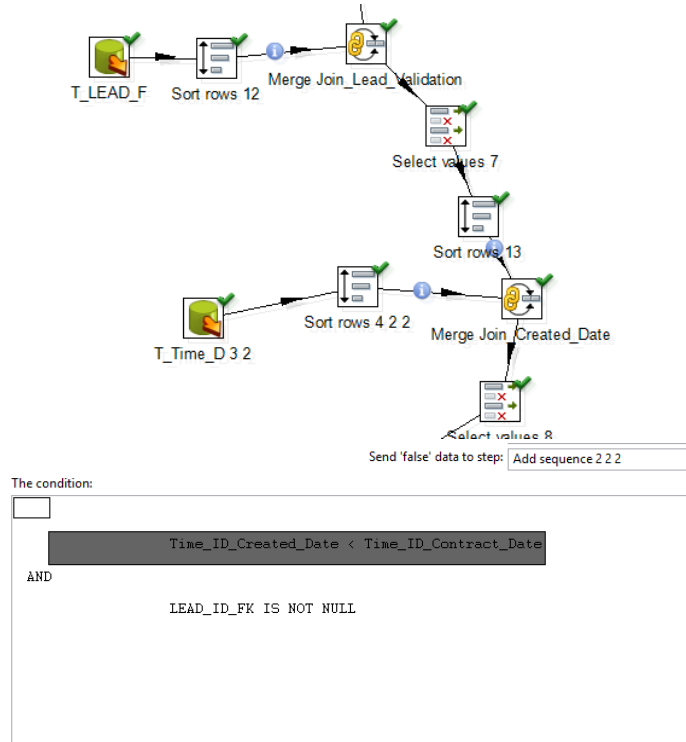
SALES_AGENT_ID --> SALES_AGENT_ID
SALES_CLASS_ID --> SALES_CLASS_ID
LOCATION_ID --> LOCATION_ID
CUST_ID_ORDERED_BY --> CUST_ID_ORDERED_BY
NUMBER_OF_SUBJOBS --> NUMBER_OF_SUBJOBS
UNIT_PRICE --> UNIT_PRICE
QUANTITY_ORDERED --> QUANTITY_ORDERED
QUOTE_QTY --> QUOTE_QTY
JOB_ID --> JOB_ID
Time_ID_Contract_Date --> CONTRACT_DATE
Time_ID_Promise_Date --> DATE_PROMISED
Time_ID_Ship_Date --> DATE_SHIP_BY

```

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_ORDERED
1	1	20130110	4	1	6	1	20130201	20130129	5	1.6	1.6
2	2	20130116	1	2	4	4	20130208	20130204	1	0.8	0.8
3	3	20130116	1	6	4	5	20130211	20130206	1	0.7	0.7
4	4	20130117	4	3	6	9	20130214	20130208	3	1.5	1.5
5	5	20130122	1	1	1	3	20130214	20130211	1	1.6	1.6
6	6	20130123	4	5	6	1	20130219	20130214	2	0.85	0.85
7	7	20130129	1	6	7	7	20130225	20130219	1	0.7	0.7
8	8	20130201	2	4	8	27	20130225	20130220	2	0.75	0.75
9	9	20130206	4	5	1	2	20130227	20130221	4	0.85	0.85
10	10	20130207	2	3	9	29	20130228	20130221	1	1.5	1.5
11	117	20130211	2	1	3	9	20130304	20130227	3	1.6	1.6
12	118	20130306	6	1	3	28	20130328	20130322	1	1.6	1.6
13	119	20130312	8	2	5	3	20130405	20130401	1	0.8	0.8
14	120	20130221	1	3	1	18	20130318	20130312	5	1.5	1.5
15	121	20130315	11	4	4	10	20130410	20130404	4	0.75	0.75
16	122	20130311	11	4	2	24	20130403	20130328	4	0.75	0.75
17	123	20130207	8	5	4	26	20130307	20130301	1	0.85	0.85
18	124	20130225	7	6	9	16	20130315	20130311	4	0.7	0.7

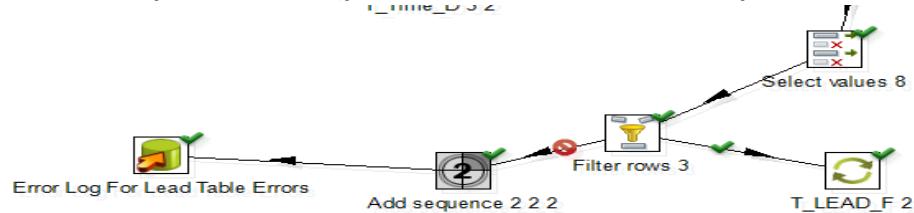
10. Lead Validation(Now using the added rows in Job Table)
Check for Lead_ID(Validity By Merging with Lead Table)
Checking Created_Date in Lead Table before Contract Date in Job



11. Using this filter condition , adding false rows to Error_Log_table

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

12. Finally rows that satisfy all conditions(pass all validations are used to update the 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

13. Final View of T_LEAD_F

	LEAD_ID	QUOTE_QTY	QUOTE_PRICE	LEAD_SUCCESS	JOB_ID	CREATED_DATE	CUST_ID	LOCATION_ID	SALES_AGENT_ID	SALES_CLASS_ID
1	1	500000	1.6 Y		1	20130102	1	6	4	1
2	2	600000	1.5 N		(null)	20130104	26	9	9	3
3	3	1800000	0.75 N		(null)	20130107	10	2	6	4
4	4	60000	0.8 Y		2	20130107	4	4	1	2
5	5	4000	0.7 Y		3	20130108	5	4	1	6
6	6	300000	0.7 N		(null)	20130109	18	3	8	6
7	7	2700000	1.5 Y		4	20130110	9	6	4	3
8	8	70000	0.7 N		(null)	20130110	21	5	1	6
9	9	100000	1.6 Y		5	20130110	3	1	1	1
10	10	2000000	0.85 Y		6	20130114	1	6	4	5
11	11	12000	0.75 N		(null)	20130116	15	2	6	4
12	12	2000	0.7 Y		7	20130110	7	7	1	6
13	13	1200000	0.75 Y		8	20130121	27	8	2	4
14	14	3600000	0.85 Y		9	20130121	2	1	4	5
15	15	2300000	0.85 N		(null)	20130124	4	4	1	5
16	16	800000	1.5 Y		10	20130129	29	9	2	3
17	17	2070000	1.6 Y		117	20130201	9	3	2	1
18	18	69000	0.85 N		(null)	20130204	15	3	9	5
19	19	5000	1.5 N		(null)	20130206	17	8	6	3
20	20	345000	0.7 N		(null)	20130206	30	1	9	6
21	21	3105000	0.7 Y		124	20130208	16	9	7	6
22	22	81000	0.85 N		(null)	20130211	26	4	8	5

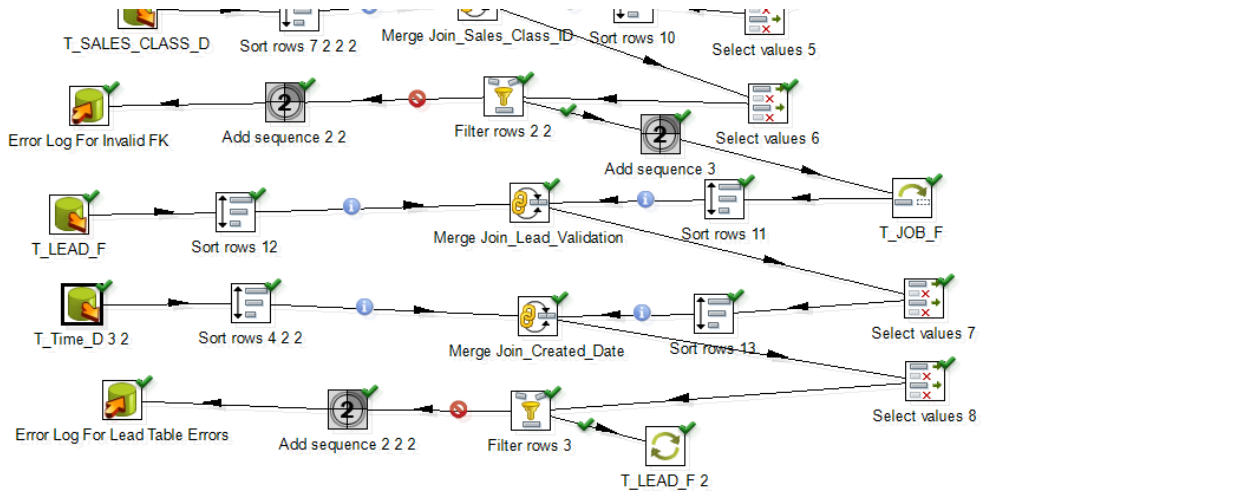
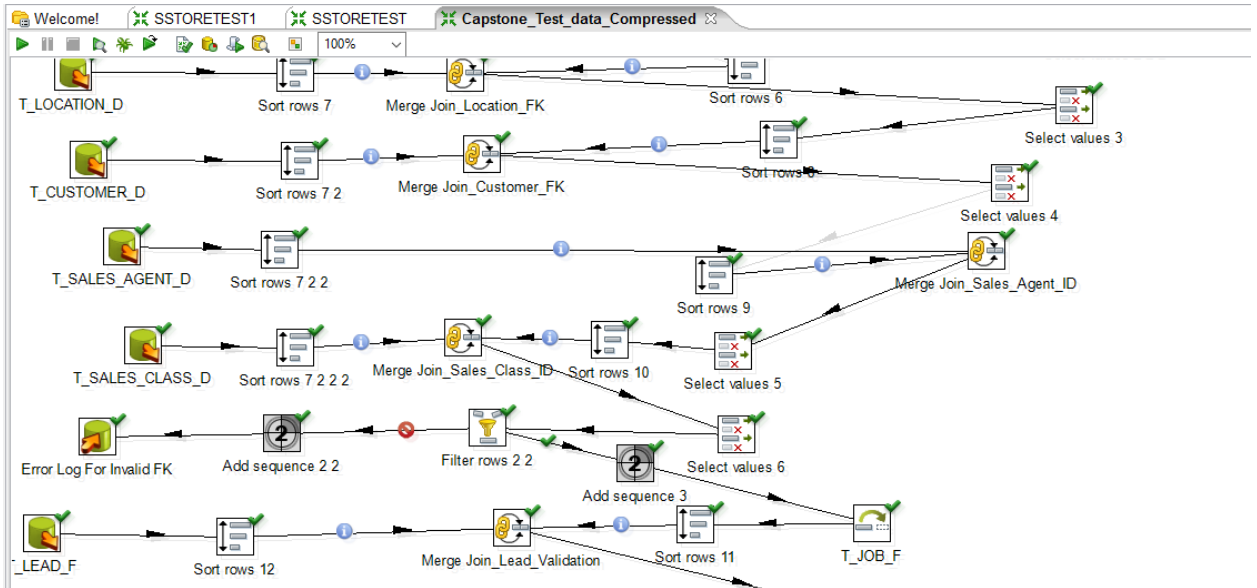
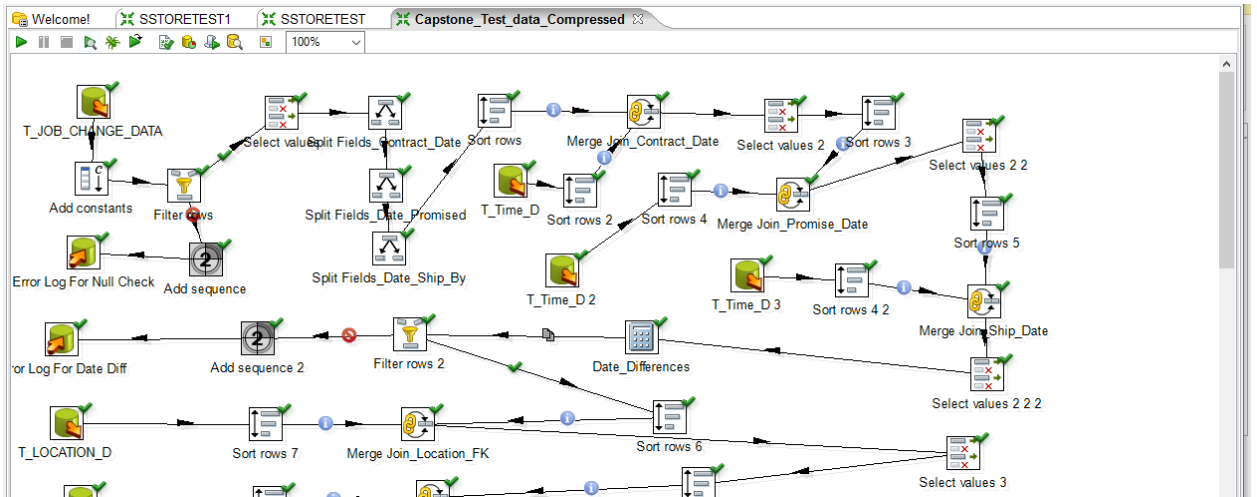
14. Final View of T_ERROR_LOG

	LOG_ID	CHANGE_ID	JOB_ID	NOTE
1	323	111	(null)	Invalid Referential Integrity
2	324	104	(null)	Invalid Referential Integrity
3	325	109	(null)	Invalid Referential Integrity
4	326	105	120	Invalid Update To Lead Table
5	327	101	123	Invalid Update To Lead Table
6	316	107	(null)	Null values are found
7	317	113	(null)	Null values are found
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

15. Final View of T_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	QUANTITY
1	1	20130110	4	1	6	1	20130201	20130129	5	1.6	
2	2	20130116	1	2	4	4	20130208	20130204	1	0.8	
3	3	20130116	1	6	4	5	20130211	20130206	1	0.7	
4	4	20130117	4	3	6	9	20130214	20130208	3	1.5	
5	5	20130122	1	1	1	3	20130214	20130211	1	1.6	
6	6	20130123	4	5	6	1	20130219	20130214	2	0.85	
7	7	20130129	1	6	7	7	20130225	20130219	1	0.7	
8	8	20130201	2	4	8	27	20130225	20130220	2	0.75	
9	9	20130206	4	5	1	2	20130227	20130221	4	0.85	
10	10	20130207	2	3	9	29	20130228	20130221	1	1.5	
11	117	20130211	2	1	3	9	20130304	20130227	3	1.6	
12	118	20130306	6	1	3	28	20130328	20130322	1	1.6	
13	119	20130312	8	2	5	3	20130405	20130401	1	0.8	
14	120	20130221	1	3	1	18	20130318	20130312	5	1.5	
15	121	20130315	11	4	4	10	20130410	20130404	4	0.75	
16	122	20130311	11	4	2	24	20130403	20130328	4	0.75	
17	123	20130207	8	5	4	26	20130307	20130301	1	0.85	
18	124	20130225	7	6	9	16	20130315	20130311	4	0.7	

Transformation is as follows:



Execution Results are as follows:

Execution Results													
Execution History Logging Step Metrics Performance Graph Metrics Preview data													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	in
1	T_JOB_CHANGE_DATA	0	0	18	18	0	0	0	0	Finished	0.1s	269	
2	Add constants	0	18	18	0	0	0	0	0	Finished	0.0s	562	
3	Filter rows	0	18	18	0	0	0	0	0	Finished	0.0s	486	
4	Add sequence	0	2	2	0	0	0	0	0	Finished	0.1s	20	
5	Error Log For Null Check	0	2	2	0	2	0	0	0	Finished	0.1s	17	
6	T_Time_D	0	0	74	74	0	0	0	0	Finished	0.1s	698	
7	Sort rows 2	0	74	74	0	0	0	0	0	Finished	0.1s	763	
8	Select values	0	16	16	0	0	0	0	0	Finished	0.0s	400	
9	Split Fields_Contract_Date	0	16	16	0	0	0	0	0	Finished	0.0s	348	
10	Sort rows	0	16	16	0	0	0	0	0	Finished	0.1s	258	
11	Merge Join_Contract_Date	0	90	16	0	0	0	0	0	Finished	0.5s	194	
12	Split Fields_Date_Promised	0	16	16	0	0	0	0	0	Finished	0.1s	314	
13	Split Fields_Date_Ship_By	0	16	16	0	0	0	0	0	Finished	0.1s	281	
14	Select values 2	0	16	16	0	0	0	0	0	Finished	0.5s	33	
15	T_Time_D 2	0	0	74	74	0	0	0	0	Finished	0.1s	673	
16	Sort rows 4	0	74	74	0	0	0	0	0	Finished	0.1s	740	
17	Sort rows 3	0	16	16	0	0	0	0	0	Finished	0.5s	32	
18	T_Time_D 3	0	0	74	74	0	0	0	0	Finished	0.1s	961	
19	Sort rows 4 2	0	74	74	0	0	0	0	0	Finished	0.1s	1,254	
20	Merge Join_Promise_Date	0	90	16	0	0	0	0	0	Finished	0.9s	105	
21	Select values 2 2	0	16	16	0	0	0	0	0	Finished	0.9s	18	
22	Sort rows 5	0	16	16	0	0	0	0	0	Finished	0.9s	18	
23	Add sequence 2	0	5	5	0	0	0	0	0	Finished	1.4s	4	

Execution Results													
Execution History Logging Step Metrics Performance Graph Metrics Preview data													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	in
24	Error Log For Date Diff	0	5	5	0	5	0	0	0	Finished	1.4s	4	
25	Merge Join_Ship_Date	0	90	16	0	0	0	0	0	Finished	1.3s	70	
26	Select values 2 2 2	0	16	16	0	0	0	0	0	Finished	1.3s	12	
27	Date_Differences	0	16	16	0	0	0	0	0	Finished	1.3s	12	
28	Filter rows 2	0	16	16	0	0	0	0	0	Finished	1.3s	12	
29	T_LOCATION_D	0	0	10	10	0	0	0	0	Finished	0.1s	200	
30	Sort rows 7	0	10	10	0	0	0	0	0	Finished	0.0s	417	
31	T_CUSTOMER_D	0	0	30	30	0	0	0	0	Finished	0.1s	380	
32	Sort rows 7 2	0	30	30	0	0	0	0	0	Finished	0.1s	454	
33	T_SALES_AGENT_D	0	0	11	11	0	0	0	0	Finished	0.1s	149	
34	Sort rows 7 2 2	0	11	11	0	0	0	0	0	Finished	0.0s	333	
35	T_SALES_CLASS_D	0	0	6	6	0	0	0	0	Finished	0.1s	73	
36	Sort rows 7 2 2 2	0	6	6	0	0	0	0	0	Finished	0.0s	200	
37	Sort rows 6	0	11	11	0	0	0	0	0	Finished	1.4s	8	
38	Merge Join_Location_FK	0	21	11	0	0	0	0	0	Finished	1.8s	12	
39	Select values 3	0	11	11	0	0	0	0	0	Finished	1.8s	6	
40	Sort rows 8	0	11	11	0	0	0	0	0	Finished	1.8s	6	
41	Merge Join_Customer_FK	0	41	11	0	0	0	0	0	Finished	2.2s	19	
42	Select values 4	0	11	11	0	0	0	0	0	Finished	2.2s	5	
43	Sort rows 9	0	11	11	0	0	0	0	0	Finished	2.2s	5	
44	Merge Join_Sales_Agent_ID	0	22	11	0	0	0	0	0	Finished	2.6s	8	
45	Select values 5	0	11	11	0	0	0	0	0	Finished	2.6s	4	
46	Sort rows 10	0	11	11	0	0	0	0	0	Finished	2.6s	4	

Execution Results													
Execution History Logging Step Metrics Performance Graph Metrics Preview data													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	in
45	Select values 5	0	11	11	0	0	0	0	0	Finished	2.6s	4	
46	Sort rows 10	0	11	11	0	0	0	0	0	Finished	2.6s	4	
47	Merge Join_Sales_Class_ID	0	17	11	0	0	0	0	0	Finished	3.0s	6	
48	Select values 6	0	11	11	0	0	0	0	0	Finished	3.0s	4	
49	Add sequence 2 2	0	3	3	0	0	0	0	0	Finished	3.1s	1	
50	Error Log For Invalid FK	0	3	3	0	3	0	0	0	Finished	3.1s	1	
51	Filter rows 2 2	0	11	11	0	0	0	0	0	Finished	3.0s	4	
52	Add sequence 3	0	8	8	0	0	0	0	0	Finished	3.1s	3	
53	T_JOB_F	0	8	8	8	8	0	0	0	Finished	3.1s	3	
54	Sort rows 11	0	8	8	0	0	0	0	0	Finished	3.1s	2	
55	T_LEAD_F	0	0	40	40	0	0	0	0	Finished	0.1s	342	
56	Sort rows 12	0	40	40	0	0	0	0	0	Finished	0.1s	354	
57	Merge Join_Lead_Validation	0	48	8	0	0	0	0	0	Finished	3.5s	14	
58	Select values 7	0	8	8	0	0	0	0	0	Finished	3.5s	2	
59	T_Time_D 3 2	0	0	74	74	0	0	0	0	Finished	0.1s	627	
60	Sort rows 4 2 2	0	74	74	0	0	0	0	0	Finished	0.1s	497	
61	Sort rows 13	0	8	8	0	0	0	0	0	Finished	3.5s	2	
62	Merge Join_Created_Date	0	82	8	0	0	0	0	0	Finished	3.9s	21	
63	Select values 8	0	8	8	0	0	0	0	0	Finished	3.9s	2	
64	Add sequence 2 2 2	0	2	2	0	0	0	0	0	Finished	4.0s	0	
65	Error Log For Lead Table Errors	0	2	2	0	2	0	0	0	Finished	4.0s	0	
66	Filter rows 3	0	8	8	0	0	0	0	0	Finished	3.9s	2	
67	T_LEAD_F 2	0	6	6	6	0	6	0	0	Finished	4.0s	2	