

Edureka Informatica Project

**Create Datamart using Informatica
PowerCenter**

Certification Project

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Date – 30.12.2021

Mapping Name:- m_load_dim_channels

Source Table:- CHANNELS

Target Table:- DIM_CHANNELS

Action:- Update/Insert

Mapping Type:- SCD type 1 mapping

Transformations:-

Connected Lookup: – To check whether the record exist on target

Expression: – To compare new & existing records and identify changes.

Filter1:- Process ONLY new records

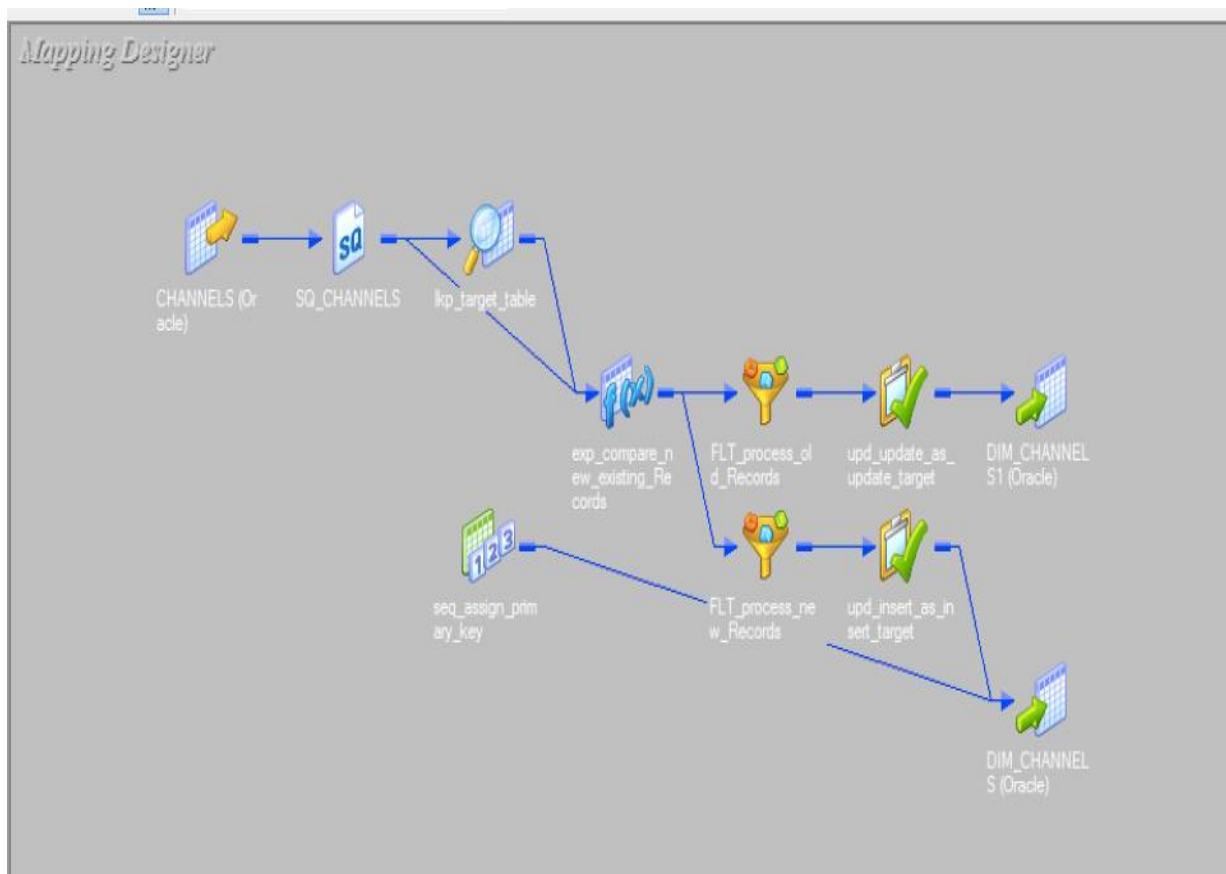
Filter2:- Process ONLY existing records

Update Strategy1:- Insert target table as Insert (For New records)

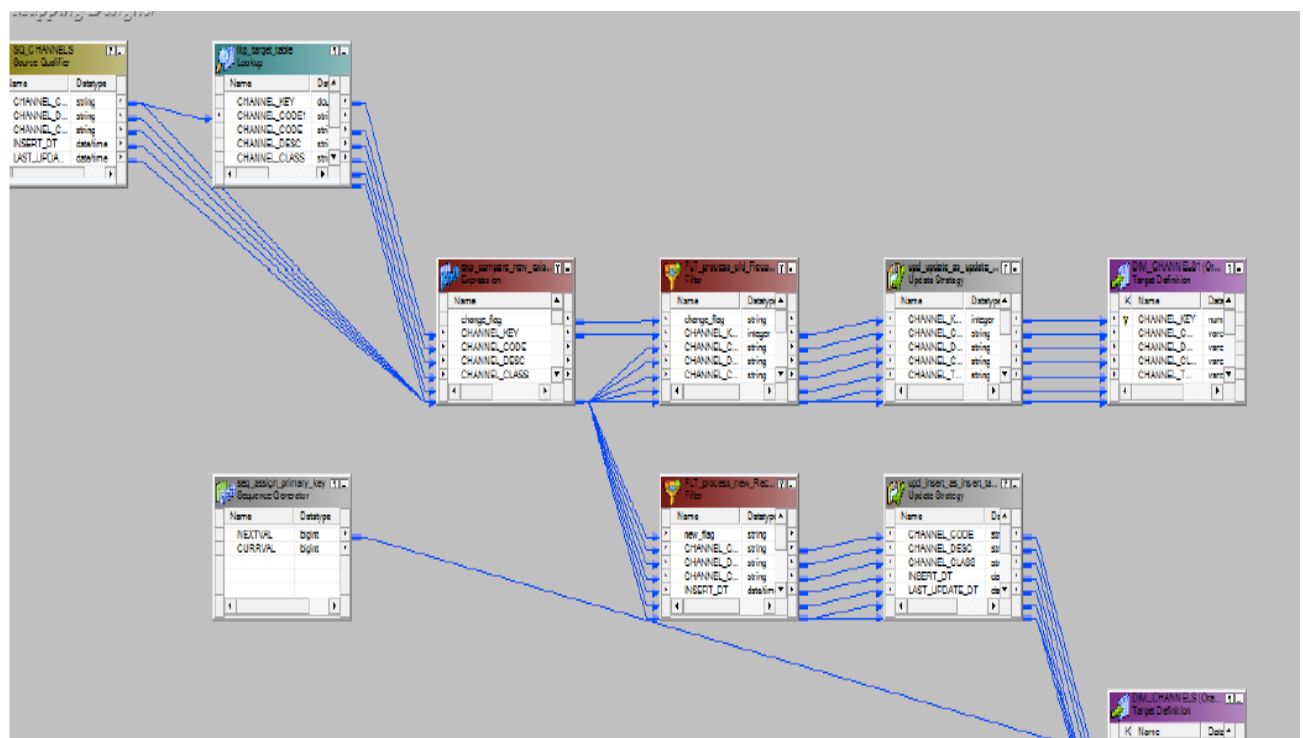
Update Strategy2:- Update target table as Update (For existing records)

Sequence Generator: – To Generate Primary Key

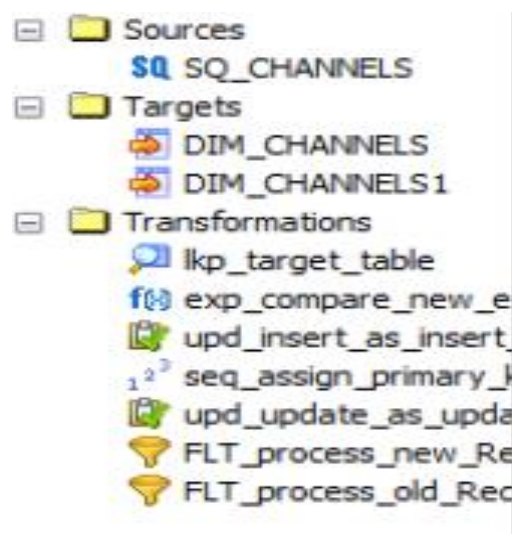
SCD Type 1 mapping – Iconic view



SCD Type 1 mapping – Close look



Workflow : Session and it's Properties



Workflow Designer



Workflow Monitor – Session Logs

Workflow Run	Start Time	Completion Time	Status
 wf_m_load_dim_channels			
 wf_m_load_dim_channels	12/29/2021 10:07:57 PM	12/29/2021 10:07:59 PM	Succeeded
 s_m_load_dim_chann...	12/29/2021 10:07:57 PM	12/29/2021 10:07:59 PM	Succeeded
 wf_m_load_dim_channels	12/29/2021 10:07:27 PM	12/29/2021 10:07:29 PM	Succeeded
 s_m_load_dim_chann...	12/29/2021 10:07:27 PM	12/29/2021 10:07:29 PM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last I
 DIM_CHANNELS	node01_V...	6	6	0	6	1776	1776	0
 DIM_CHANNELS1	node01_V...	0	0	0	0	0	0	0
 SQ SQ_CHANNELS	node01_V...	6	6	0	6	948	948	0

Mapping Name:- m_load_dim_countries

Source Table:- COUNTRIES

Target Table:- DIM_COUNTRIES

Action:- Update/Insert

Mapping Type:- SCD type 1 mapping

Transformations:-

Connected Lookup: – To check whether the record exist on target

Expression: – To compare new & existing records and identify changes.

Filter1:- Process ONLY new records

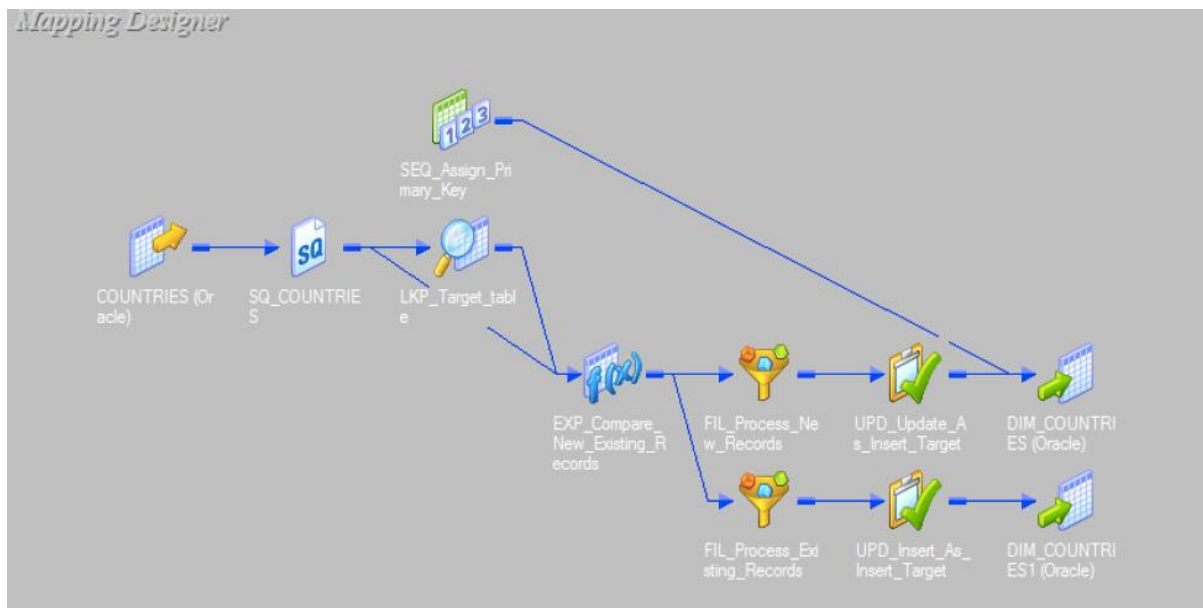
Filter2:- Process ONLY existing records

Update Strategy1:- Insert target table as Insert (For New records)

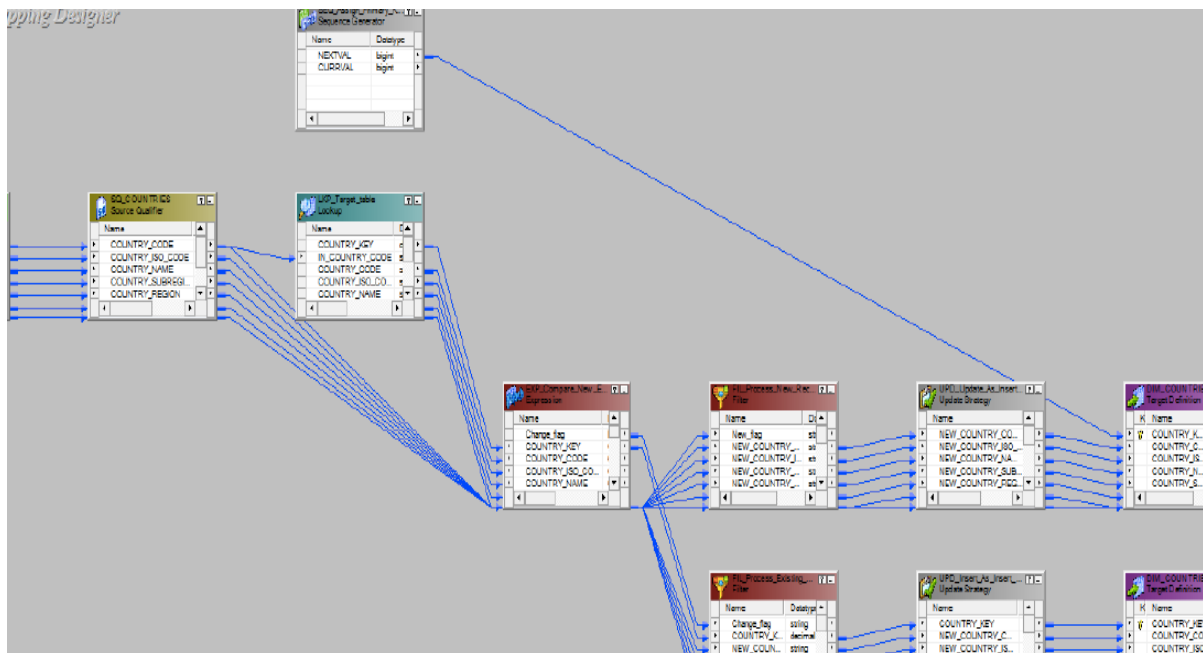
Update Strategy2:- Update target table as Update (For existing records)

Sequence Generator: – To Generate Primary Key

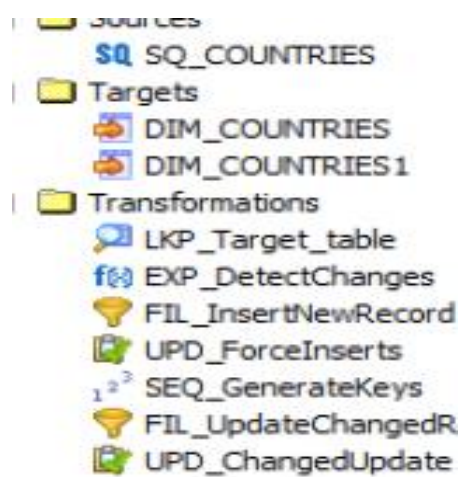
SCD Type 1 mapping – Iconic view



SCD Type 1 mapping – Close Look



Workflow Session and it's properties



Workflow Designer



Workflow Monitor – Session Logs

Workflow Run	Start Time	Completion Time	Status
wf_m_load_dim_channels			
wf_m_load_dim_channels	12/29/2021 10:30:25 PM	12/29/2021 10:30:27 PM	Succeeded
s_m_load_dim_countr...	12/29/2021 10:30:25 PM	12/29/2021 10:07:26 PM	Succeeded
wf_m_load_dim_channels	12/29/2021 10:07:27 PM	12/29/2021 10:08:20 PM	Succeeded
s_m_load_dim_countr...	12/29/2021 10:07:27 PM	12/29/2021 10:08:19 PM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last I
 DIM_COUNTRIES	node01_V...	0	0	0	0	0		0
 DIM_COUNTRIE...	node01_V...	0	0	0	0	0		0
 SQ_COUNTRIES	node01_V...	23	23	0	23	6670	6670	0

Mapping Name:- m_load_dim_promotions

Source Table:- PROMOTIONS

Target Table:- DIM_PROMOTIONS

Action:- Update/Insert

Mapping Type:- SCD type 1 mapping

Transformations:-

Connected Lookup: – To check whether the record exist on target

Expression: – To compare new & existing records and identify changes.

Filter1:- Process ONLY new records

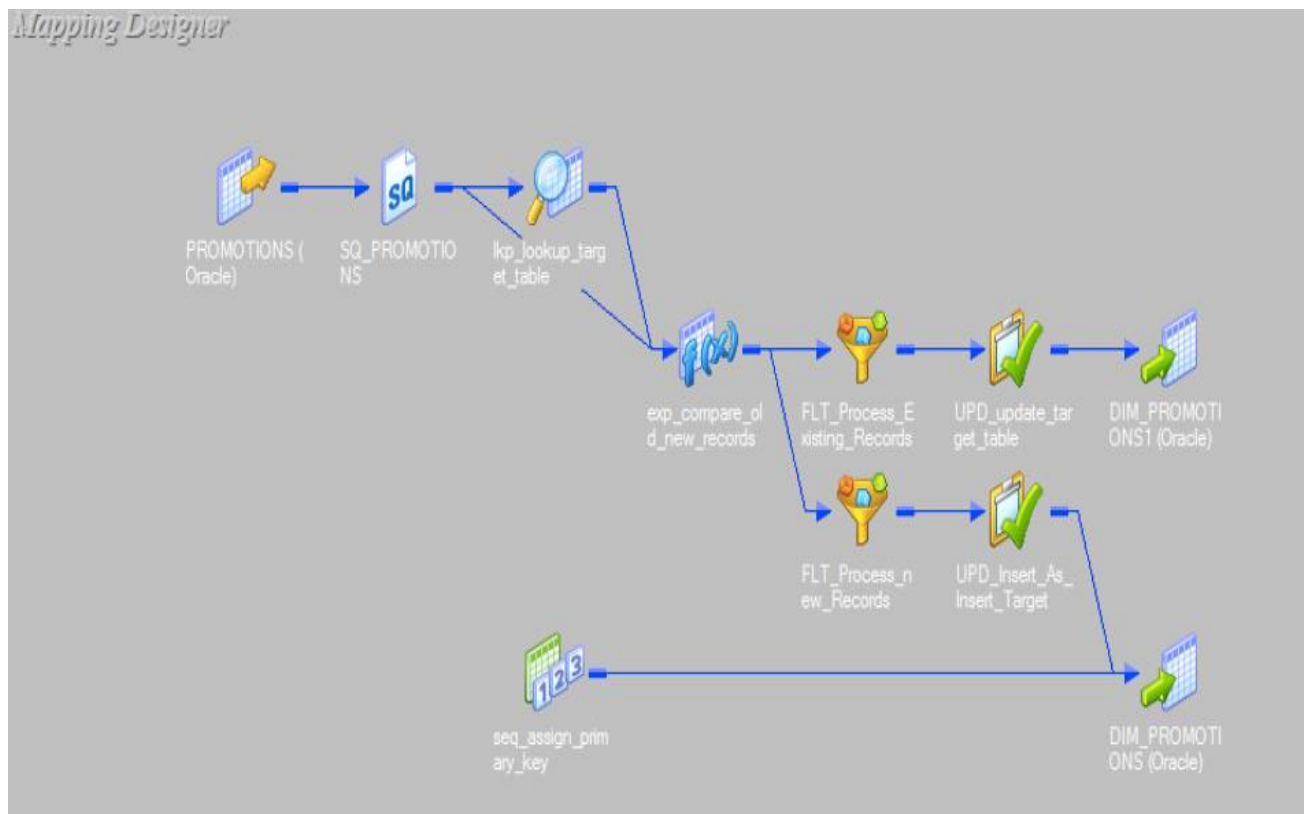
Filter2:- Process ONLY existing records

Update Strategy1:- Insert target table as Insert (For New records)

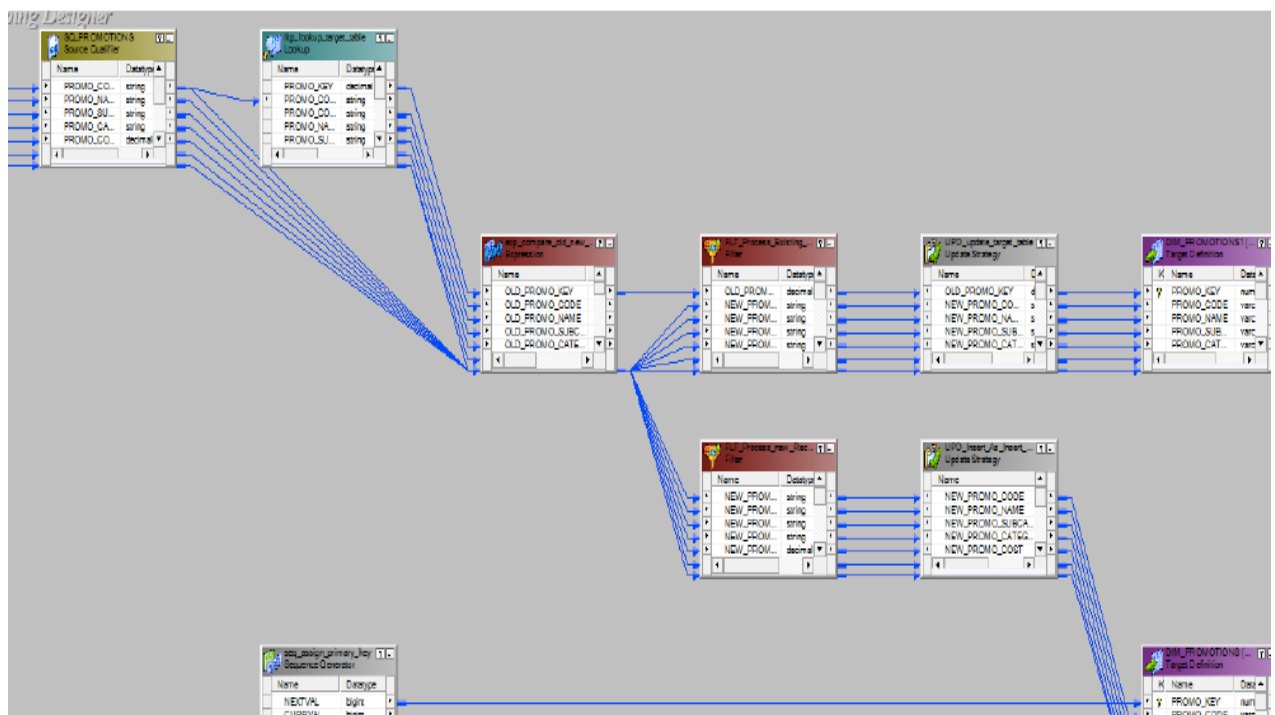
Update Strategy2:- Update target table as Update (For existing records)

Sequence Generator: – To Generate Primary Key

SCD Type 1 mapping – Iconic view

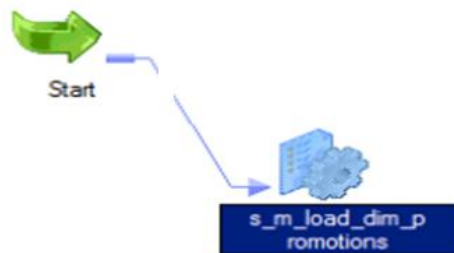


SCD Type 1 mapping – Close view



Workflow Session and it's properties

Workflow Designer



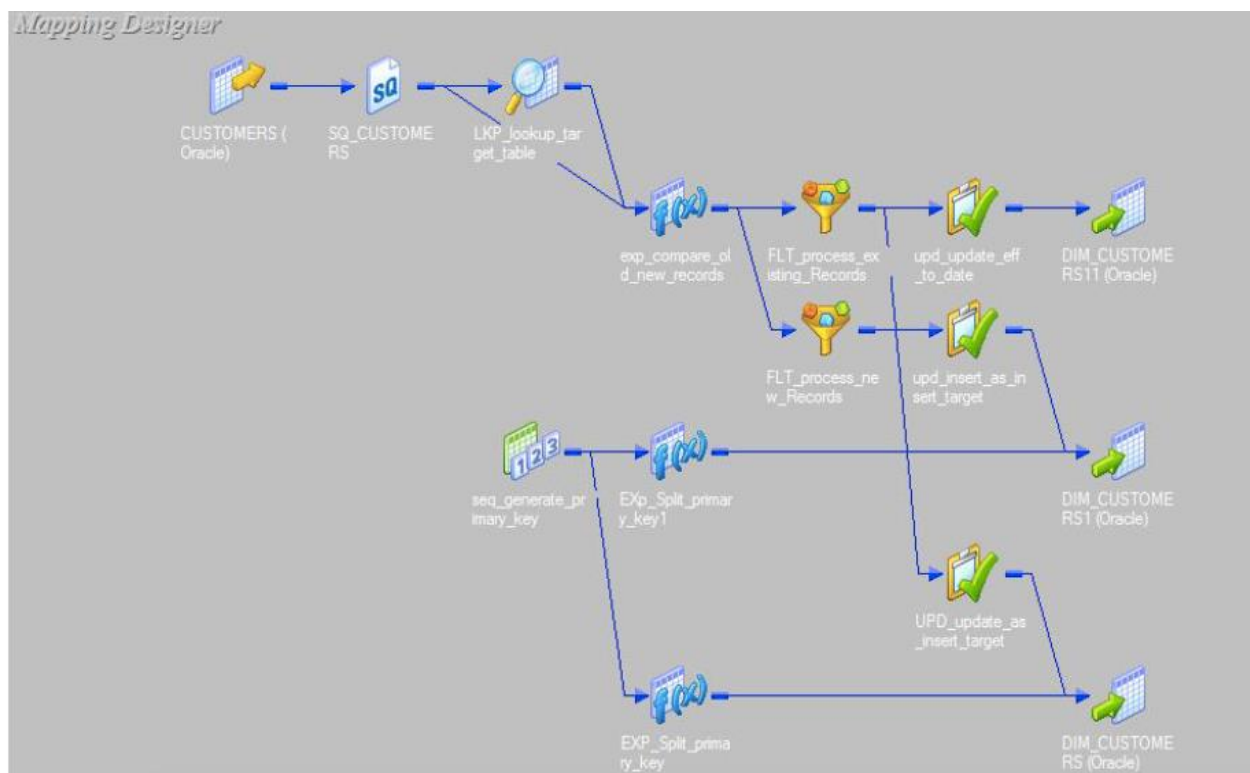
- Sources
 - SQL SQ_PROMOTIONS
- Targets
 - DIM_PROMOTIONS1
 - DIM_PROMOTIONS
- Transformations
 - lkp_lookup_target_table
 - exp_compare_old_new_r
 - UPD_Insert_As_Insert_Ta
 - seq_assign_primary_key
 - upd_update_target_table
 - FLT_Process_new_Record
 - FLT Process Existing Re

Workflow Monitor – Session Logs

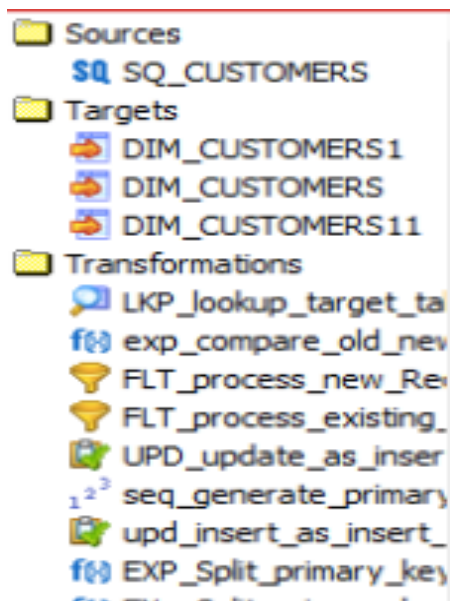
Workflow Run	Start Time	Completion Time	Status
wf_m_load_dim_channels			
wf_m_load_dim_channels	12/29/2021 11:20:17 PM	12/29/2021 11:20:19 PM	Succeeded
s_m_load_dim_promo...	12/29/2021 11:20:17 PM	12/29/2021 11:20:19 PM	Succeeded
wf_m_load_dim_channels	12/29/2021 11:18:19 PM	12/29/2021 11:18:21 PM	Succeeded
s_m_load dim promo...	12/29/2021 11:18:19 PM	12/29/2021 11:18:21 PM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last I
DIM_PROMOTIO...	node01_V...	503	503	0	503	222326	222326	0
DIM_PROMOTIO...	node01_V...	0	0	0	0	0		0
SQ SQ_PROMOTIO...	node01_V...	503	503	0	503	166996	166996	0

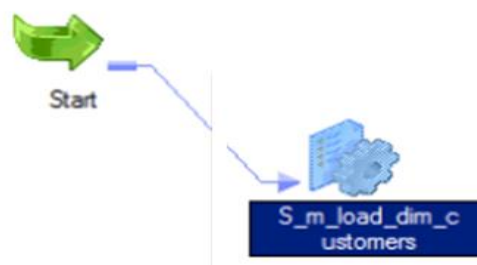
SCD Type 2 mapping – Iconic view



Workflow Session and it's properties



Workflow Designer



Workflow Monitor – Session Logs

Workflow Run	Start Time	Completion Time	Status
wf_m_load_dim_channels			
wf_m_load_dim_channels	12/29/2021 11:42:28 PM	12/29/2021 11:42:30 PM	Succeeded
S_m_load_dim_custo...	12/29/2021 11:42:28 PM	12/29/2021 11:42:30 PM	Succeeded
wf_m_load_dim_channels	12/29/2021 11:41:16 PM	12/29/2021 11:41:18 PM	Succeeded
S_m_load_dim_custo...	12/29/2021 11:41:16 PM	12/29/2021 11:41:18 PM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last I
 DIM_CUSTOME...	node01_V...	1	1	0	1	836	836	0
 DIM_CUSTOME...	node01_V...	0	0	0	0	0		0
 DIM_CUSTOME...	node01_V...	1	1	0	1	40	40	0
 SQ_CUSTOMERS	node01_V...	966	966	0	966	705180	705180	0

Mapping Name:- m_load_dim_products

Source Table:- PRODUCTS

Target Table:- DIM_PRODUCTS

Action:- Update/Insert

Mapping Type:- SCD type 2 mapping

Transformations:-

Connected Lookup: – To check whether the record exist on target

Expression: – To compare new & existing records and identify changes.

Filter1:- Process ONLY new records

Filter2:- Process ONLY existing records

Update Strategy1:- Insert target table as Insert (For New records)

Update Strategy2:- Update target table as Insert (For existing records)

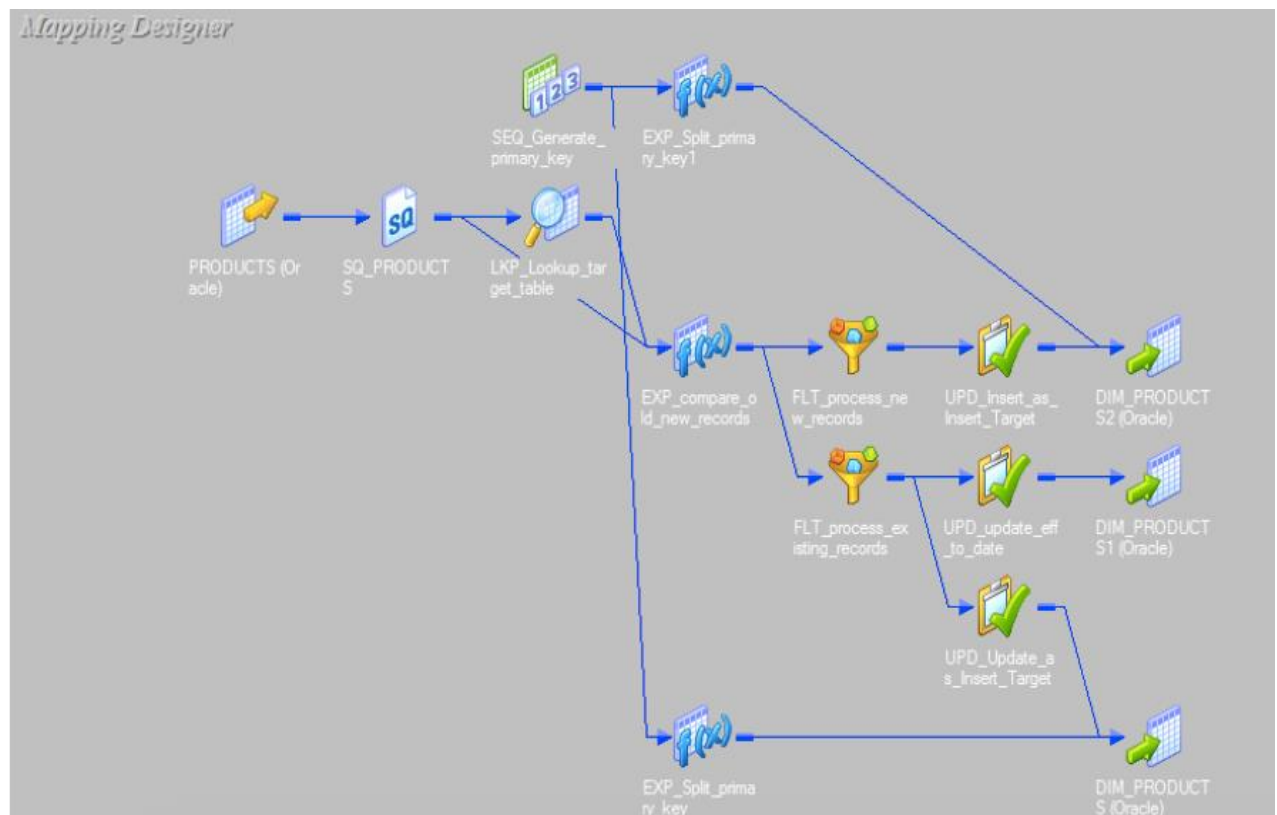
Update Strategy3:- Update the Effective end date to Target (For Existing Records)

Sequence Generator: – To Generate Primary Key

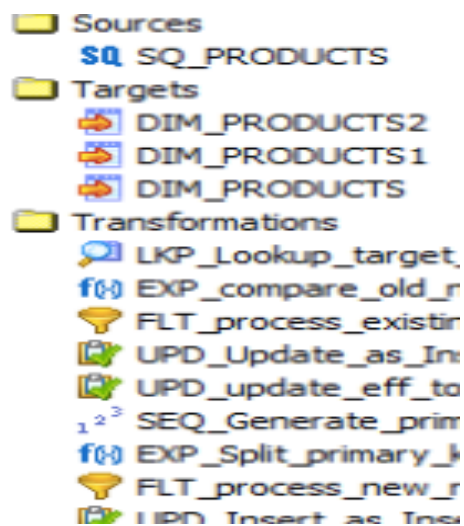
Expression1:- To uniquely assign primary key (For New Records)

Expression2:- To uniquely assign primary key (For Existing Records)

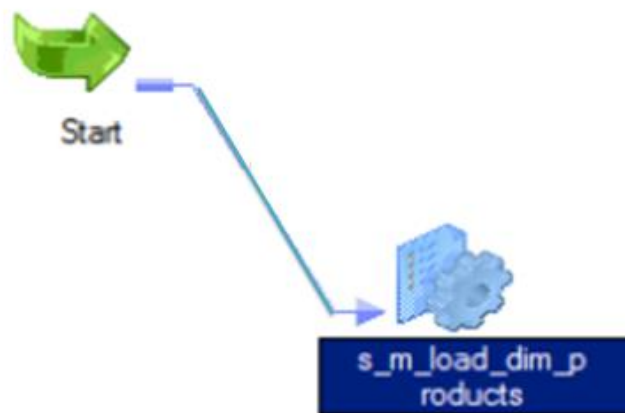
SCD Type 2 mapping – Iconic view



Workflow Session and it's properties



Workflow Designer



Workflow Monitor – Session Logs

Workflow Run	Start Time	Completion Time	Status
wf_m_load_dim_channels			
wf_m_load_dim_channels	12/30/2021 12:13:21 AM	12/30/2021 12:13:24 AM	Succeeded
s_m_load_dim_produ...	12/30/2021 12:13:21 AM	12/30/2021 12:13:24 AM	Succeeded
wf_m_load_dim_channels	12/30/2021 12:12:24 AM	12/30/2021 12:12:27 AM	Succeeded
s_m_load_dim_produ...	12/30/2021 12:12:24 AM	12/30/2021 12:12:27 AM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last
DIM_PRODUCTS	node01_V...	1	1	0	1	16698	16698	0
DIM_PRODUCTS1	node01_V...	1	1	0	1	40	40	0
DIM_PRODUCTS2	node01_V...	0	0	0	0	0		0
SQ_PRODUCTS	node01_V...	72	72	0	72	1194336	1194336	0

Mapping Name:- m_load_fact_sales

Source Table:- SALES

Target Table:- FACT_SALES

Action:- Update/Insert

Mapping Type:- SCD type 1 mapping

Transformations:-

Connected Lookup: – To check whether the record exist on target

Expression: – To compare new & existing records and identify changes.

Filter1:- Process ONLY new records

Filter2:- Process ONLY existing records

Update Strategy1:- Insert target table as Insert (For New records)

Update Strategy2:- Update target table as Update (For existing records)

Sequence Generator: – To Generate Primary Key

Un-connected Lookup1:- Populate Product Key from DIM_PRODUCTS table

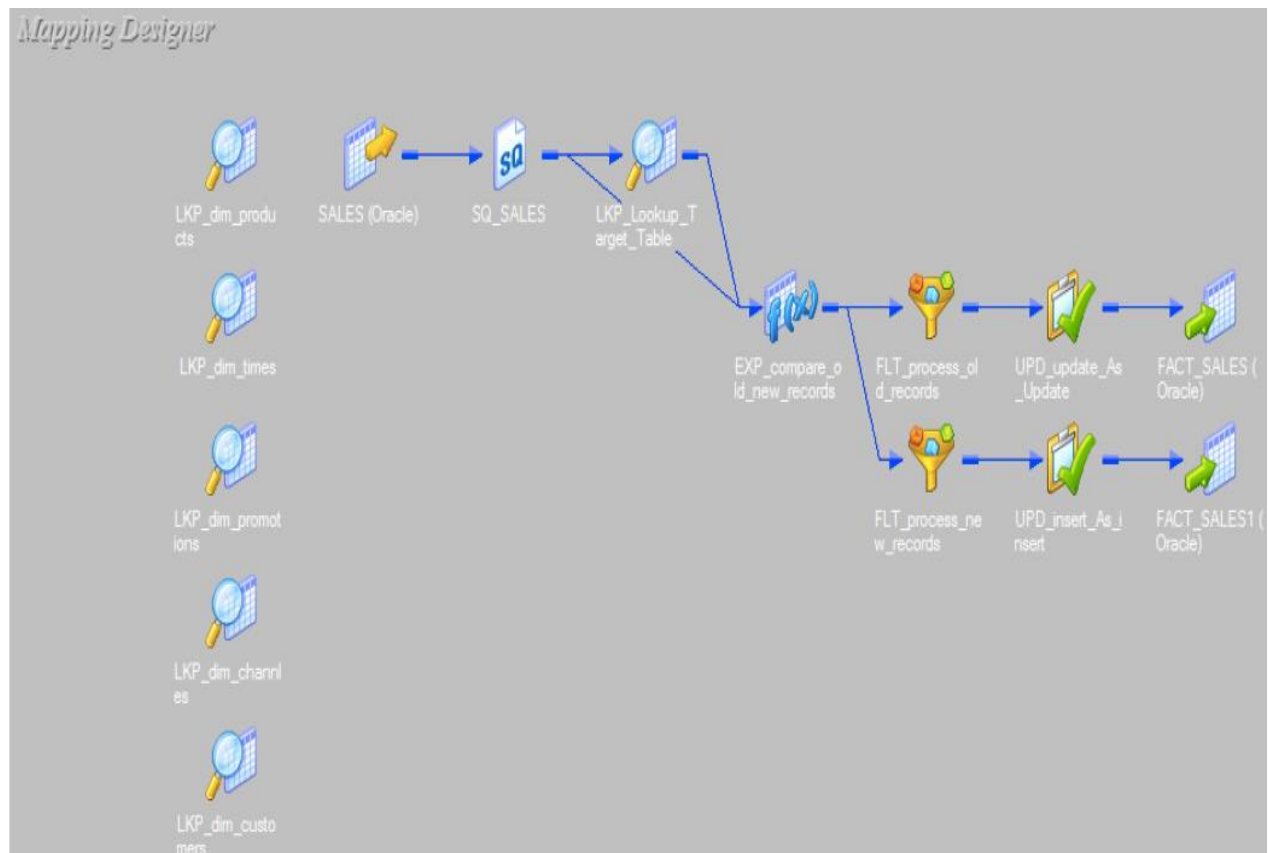
Un-connected Lookup2:- Populate Time Key from DIM_TIMES table

Un-connected Lookup3:- Populate Promotion Key from DIM_PROMOTIONS table

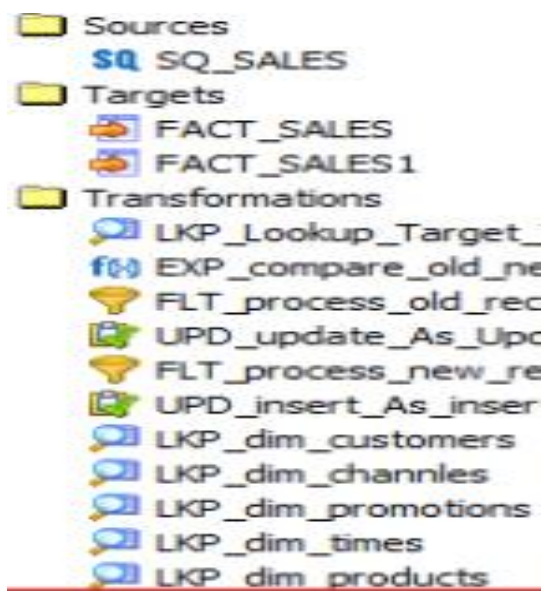
Un-connected Lookup4:- Populate Channel Key from DIM_CHANNELS table

Un-connected Lookup5:- Populate Customer Key from DIM_CUSTOMERS table

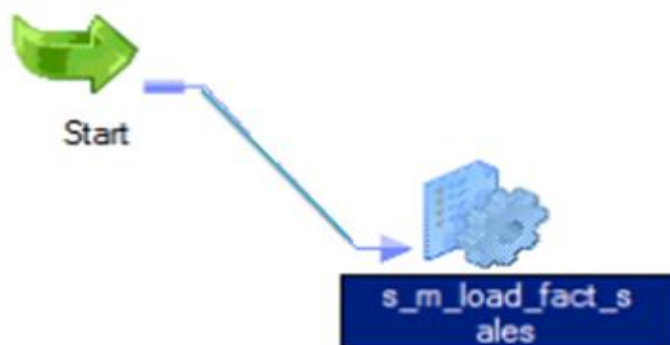
SCD Type 1 mapping – Iconic view



Workflow Session and it's properties



Workflow Designer

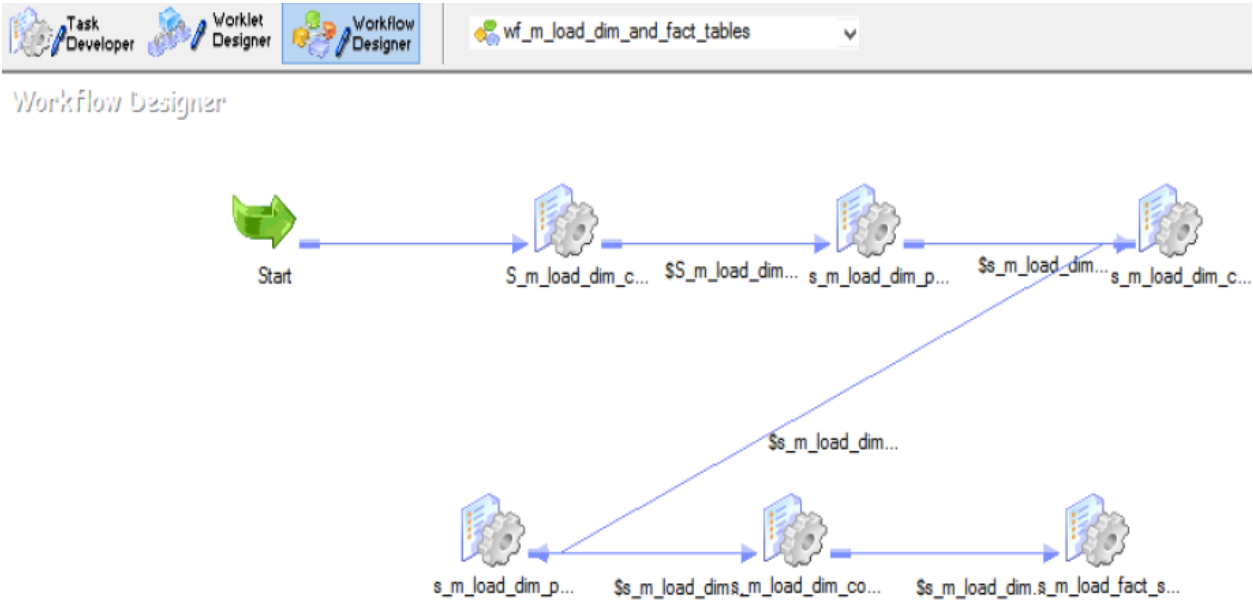


Workflow Monitor – Session Logs

Workflow Run	Start Time	Completion Time	Status
 wf_m_load_dim_channels			
 wf_m_load_dim_channels	12/30/2021 12:41:17 AM	12/30/2021 12:41:19 AM	Succeeded
 s_m_load_fact_sales	12/30/2021 12:41:17 AM	12/30/2021 12:41:19 AM	Succeeded
 wf_m_load_dim_channels	12/30/2021 12:39:14 AM	12/30/2021 12:39:16 AM	Succeeded
 s_m_load_fact_sales	12/30/2021 12:39:14 AM	12/30/2021 12:39:16 AM	Succeeded

s_m_load_fact_sales [12/30/2021 12:39:14 AM]								
Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last E
 FACT_SALES	node01_V...	1	1	0	1	232	232	0
 FACT_SALES1	node01_V...	0	0	0	0	0		0
 SQ_SALES	node01_V...	2242	2242	0	2242	614308	614308	0

Workflow with all sessions configured sequentially with proper dependency



All sessions completed successfully and loaded respective dimensions

Workflow Run	Start Time	Completion Time	Status
wf_m_load_dim_and_fact_tabl...			
wf_m_load_dim_and_fact...	12/30/2021 01:17:13 AM	12/30/2021 01:17:27 AM	Succeeded
S_m_load_dim_custo...	12/30/2021 01:17:13 AM	12/30/2021 01:17:14 AM	Succeeded
s_m_load_dim_produ...	12/30/2021 01:17:15 AM	12/30/2021 01:17:16 AM	Succeeded
s_m_load_dim_chann...	12/30/2021 01:17:17 AM	12/30/2021 01:17:19 AM	Succeeded
s_m_load_dim_promo...	12/30/2021 01:17:20 AM	12/30/2021 01:17:21 AM	Succeeded
s_m_load_dim_countr...	12/30/2021 01:17:22 AM	12/30/2021 01:17:23 AM	Succeeded
s_m_load_fact_sales	12/30/2021 01:17:24 AM	12/30/2021 01:17:27 AM	Succeeded

Task Details								
Source/Target Statistics								
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last E
 FACT_SALES	node01_V...	0	0	0	0	0		0
 FACT_SALES1	node01_V...	0	0	0	0	0		0
 SQ_SALES	node01_V...	2242	2242	0	2242	614308	614308	0