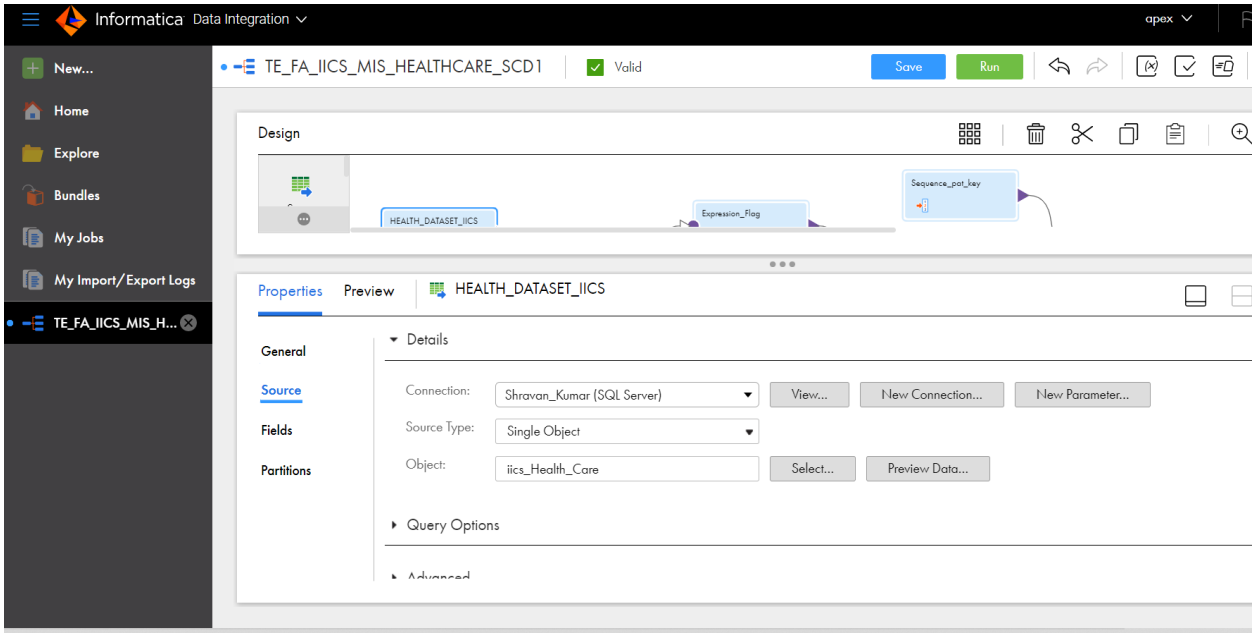
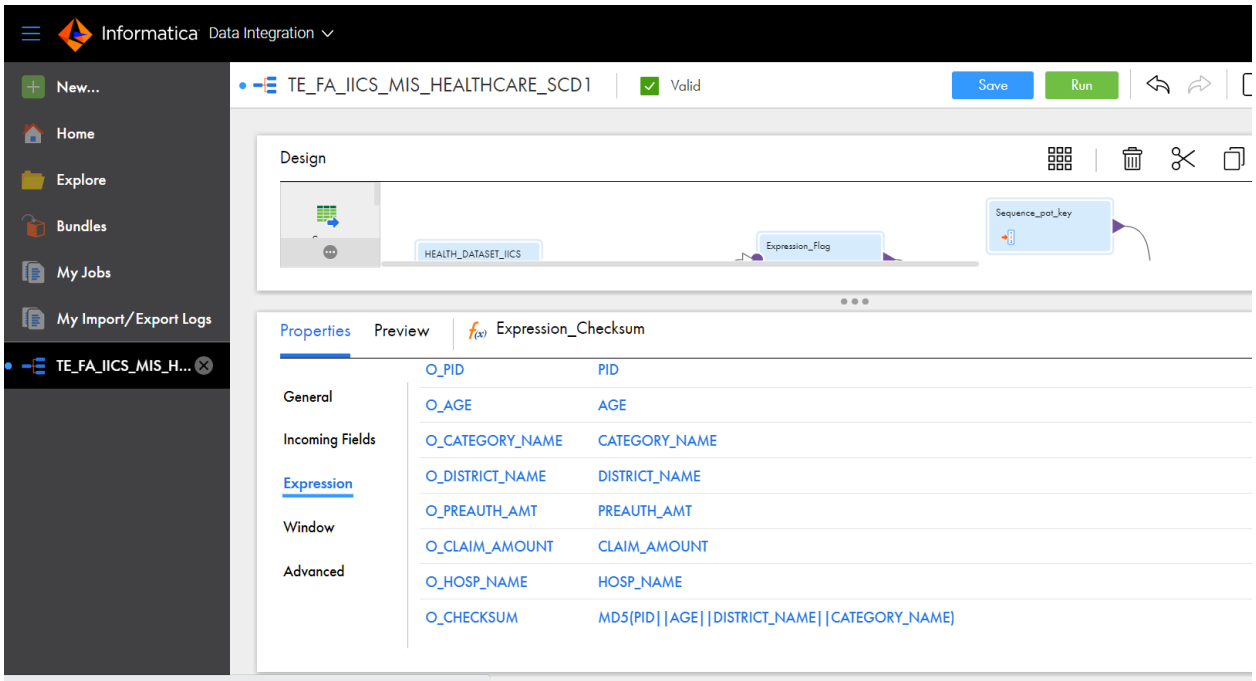
1. Slowly Changing Dimension Type 1

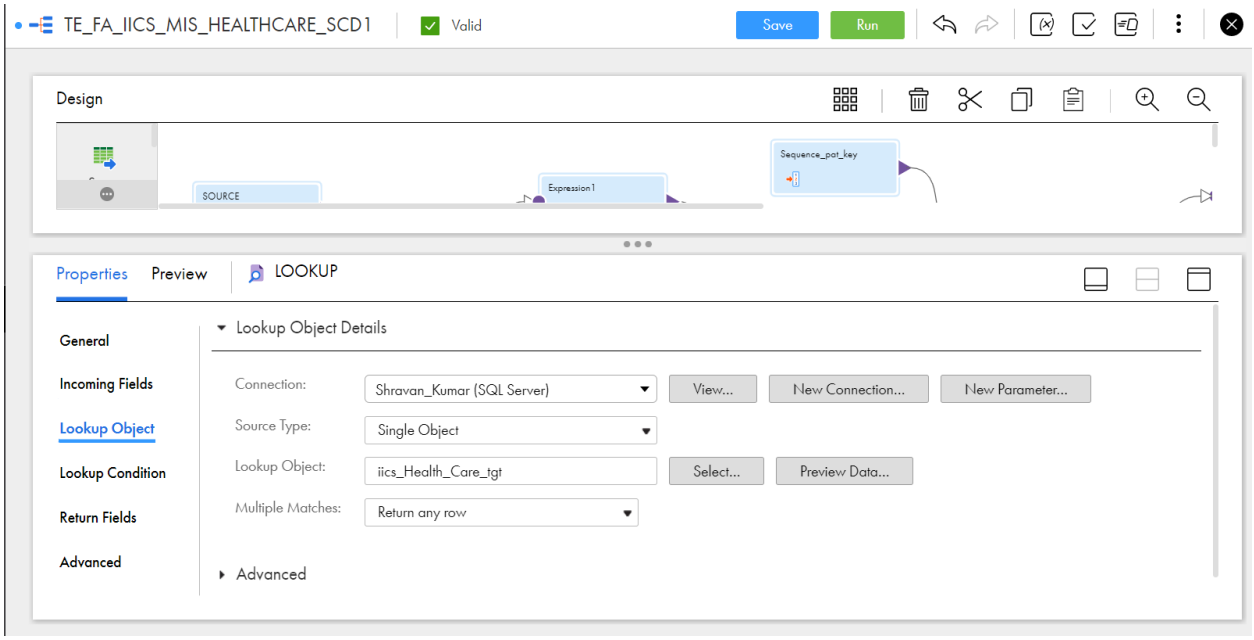
Connecting SQL Source table



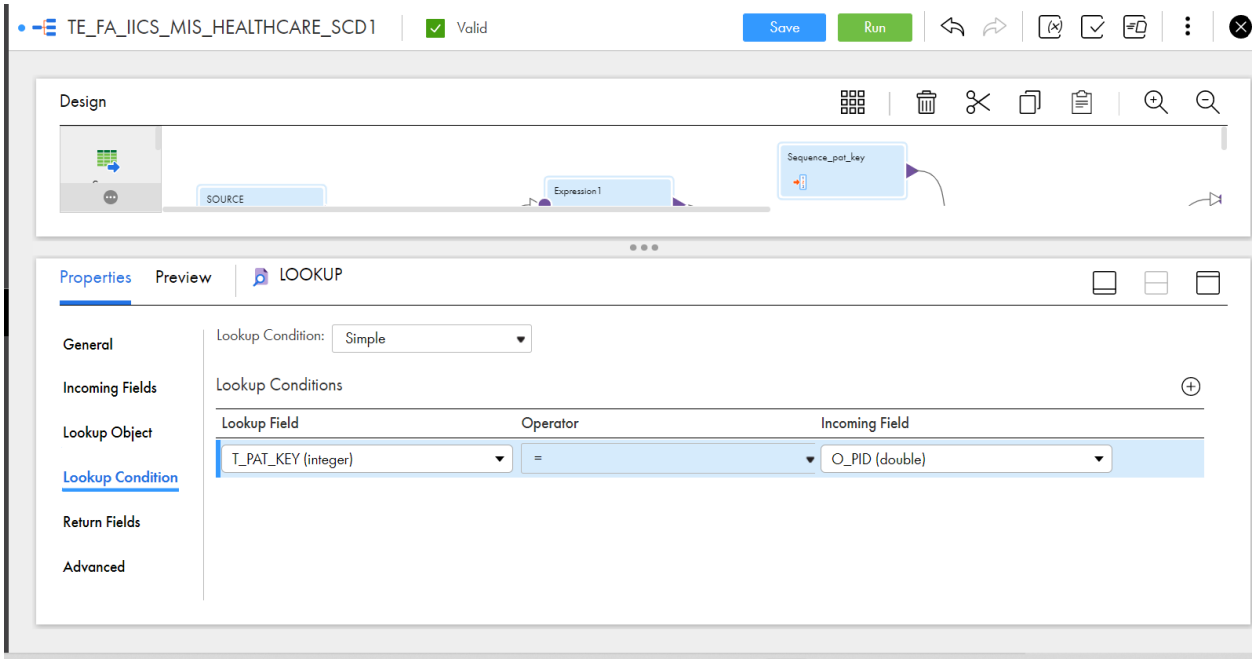
Expression for Calculating Hash Function



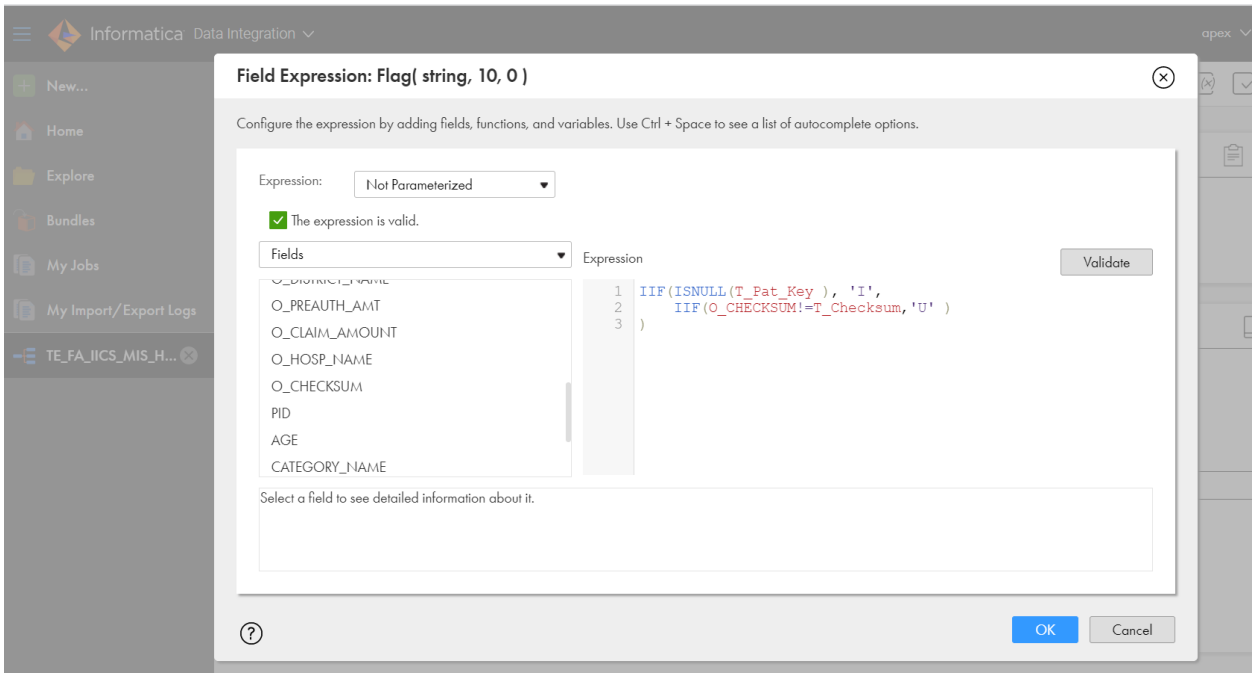
Connecting Lookup Destination Table



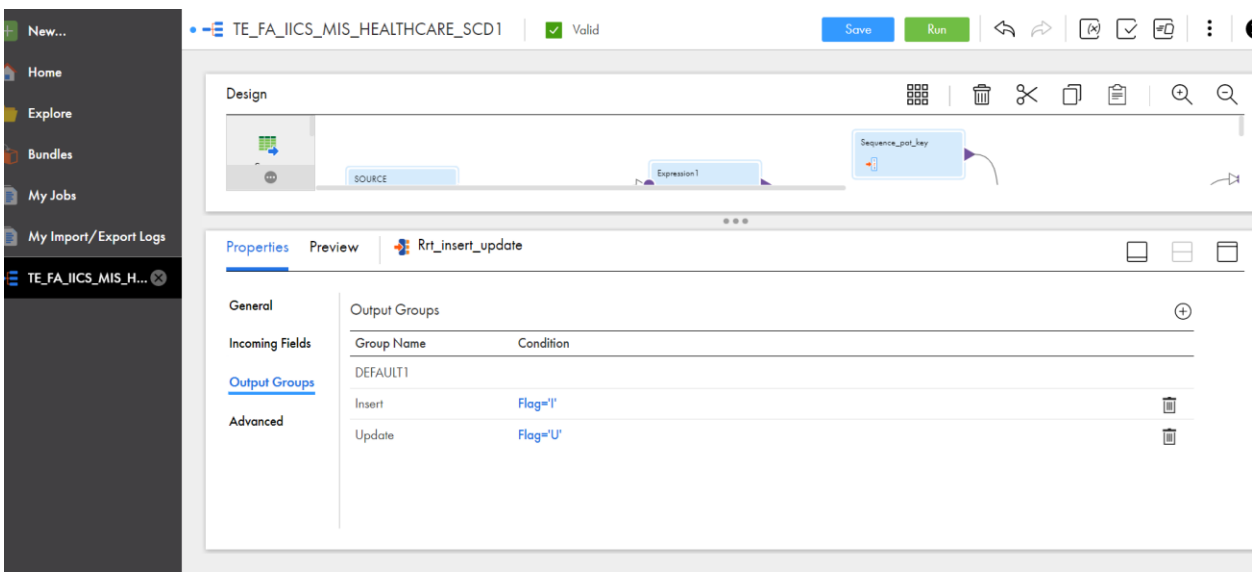
Lookup Condition



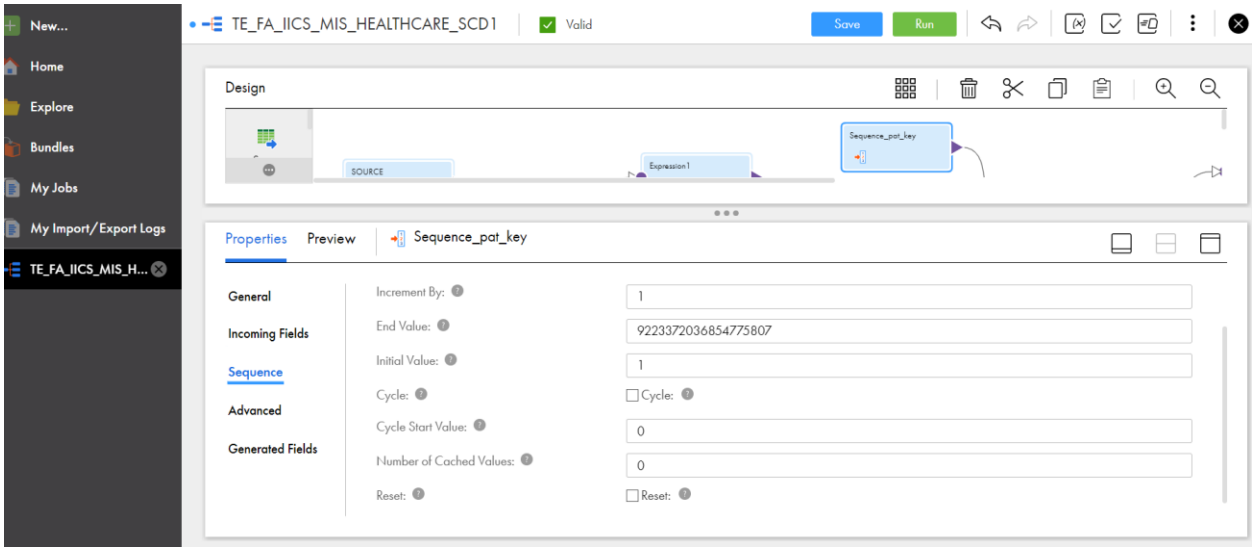
Expression for Directing output



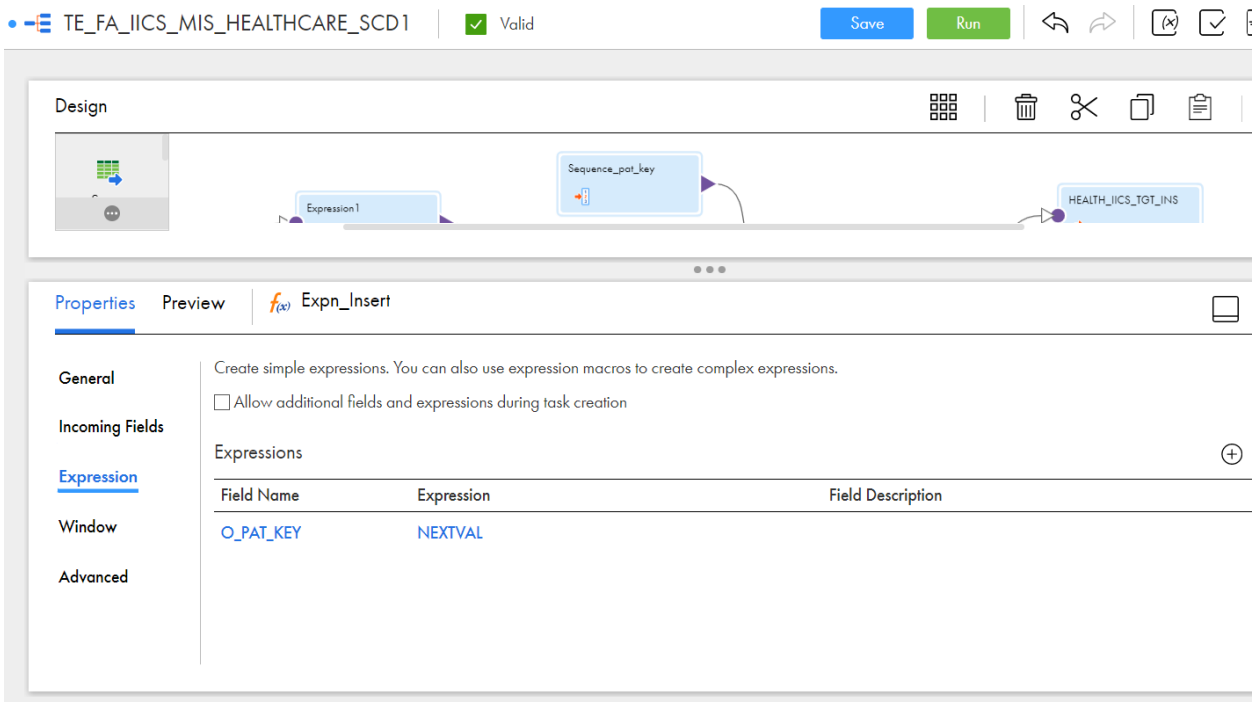
Condition for Routing



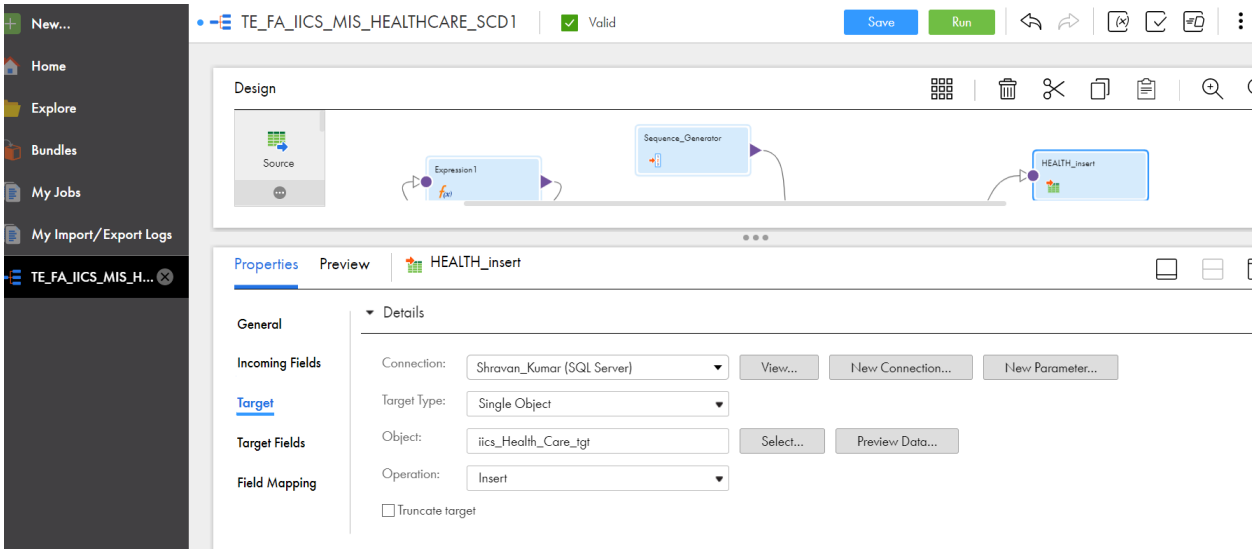
Sequence Generator



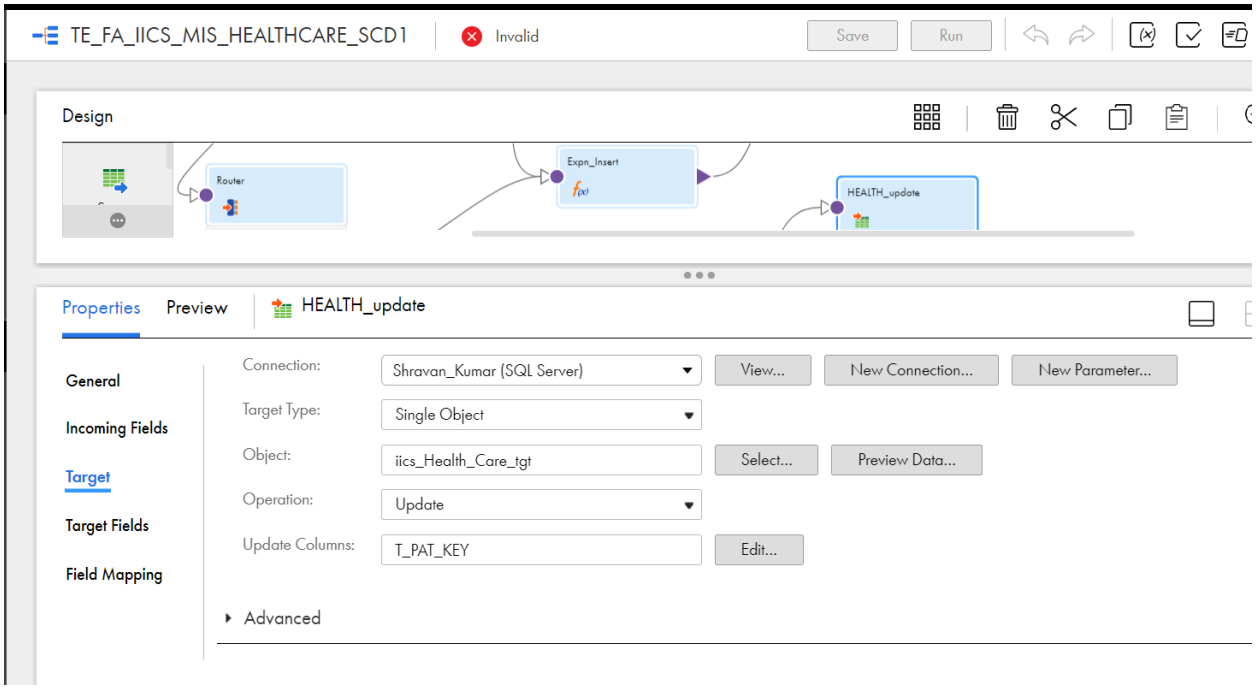
Expression for Giving next value



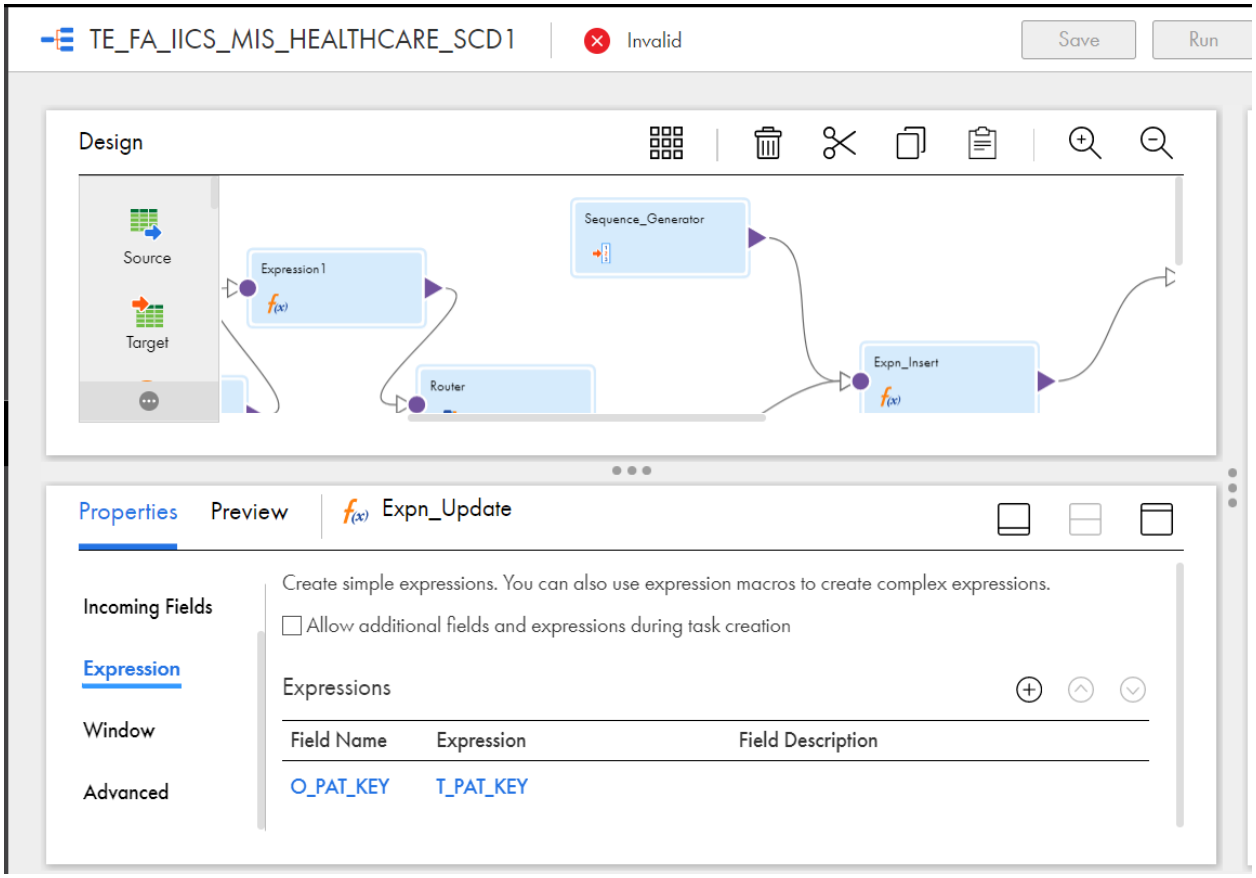
Connecting Destination table



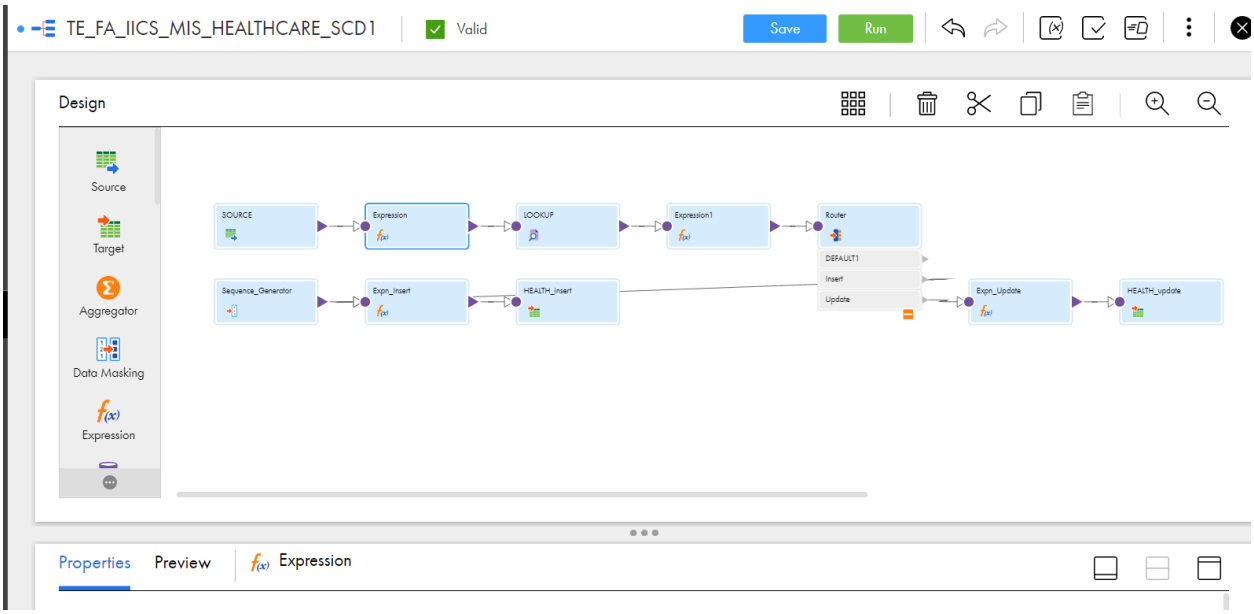
Settings Properties as update



Expression for same value



Package for iics_SCD1



460 Rows are passed

My Jobs | Data Integration

Jobs (2 of 23) Updates available Updated 2:50:17 AM PDT Find

Asset Name: TE_FA_IICS_MIS_HEA... Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:47 AM	Oct 7, 2022, 2:...	0	Failed
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:49 AM	Oct 7, 2022, 2:...	460	Success

Data is Inserted

<sravan> Shravan.sql | <dlithe> Dlithe.sql | *<sravan> Script-22

```sql
--Creating iics Health Care Destination Table


CREATE TABLE iics_Health_Care_tgt(
    T_PAT_KEY INT,
    T_PID float,
    T_AGE float,
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt ;
```

Results 1

SELECT * FROM iics_Health_Care_tgt | Enter a SQL expression to filter results (use Ctrl+Space)

	T_PAT_KEY	T_PID	T_AGE	T_CATEGORY_NAME	T_DISTRICT_NAME	T_PREAUTH_AMT	T_HOSP_NAME	T_HOSP_DI
1	1	1	56	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
2	2	2	37	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
3	3	3	50	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
4	4	4	45	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
5	5	5	54	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
6	6	6	35	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
7	7	7	52	NEPHROLOGY	Kurnool	12,500	Govt Gener	Kurnool
8	8	8	73	NEPHROLOGY	Vizianagar	12,500	Queens Nri	Vishakhapa

Value: 1

Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 306ms (21ms fetch), on 2022-10

Data is Updated in source

```sql
--Creating Destination table for iics Healt care source

CREATE TABLE iics_Health_Care (
    PID float,
    AGE float,
    CATEGORY_NAME nvarchar(255),
    DISTRICT_NAME nvarchar(255),
    PREAUTH_AMT float,
    HOSP_NAME nvarchar(255),
    HOSP_DISTRICT nvarchar(255)
);

DELETE FROM iics_Health_Care WHERE PID IS NULL;

SELECT * FROM iics_Health_Care ;

UPDATE iics_Health_Care SET DISTRICT_NAME='Udupi' WHERE PID=1;
```

Results 1

SELECT * FROM iics_Health_Care

	PID	AGE	CATEGORY_NAME	DISTRICT_NAME	PREAUTH_AMT	HOSP_NAME
1	1	56	NEPHROLOGY	Udupi	12,500	Rims Govt. General Hospital, Srikakulam S
2	2	37	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam S
3	3	50	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam S
4	4	45	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam S
5	5	54	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam S
6	6	35	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam S
7	7	52	NEPHROLOGY	Kurnool	12,500	Govt General Hospital Kurnool K
8	8	73	NEPHROLOGY	Vizianagaram	12,500	Queens Nri Hospitals V

Value 1.0

Only one row is inserted

My Jobs | Data Integration

Jobs (3 of 24) Updates available Updated 2:54:53 AM PDT Find

Asset Name: TE_FA_IICS_MIS_HEA... Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:47 AM	Oct 7, 2022, 2:...	0	Failed
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:49 AM	Oct 7, 2022, 2:...	460	Success
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:54 AM	Oct 7, 2022, 2:...	1	Success

One row is updated in destination

```
UPDATE iics_Health_Care SET DISTRICT_NAME='Udupi' WHERE PID=1;

--Creating iics Health Care Destination Table

CREATE TABLE iics_Health_Care_tgt(
    T_PAT_KEY INT,
    T_PID float,
    T_AGE float,
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt ;
```

Results 1

SELECT * FROM iics_Health_Care_tgt

	T_PAT_KEY	T_PID	T_AGE	T_CATEGORY_NAME	T_DISTRICT_NAME	T_PREAUTH_AMT	T_HOSP_NAME	T_HOSP_DI
1	1	1	56	NEPHROLOGY	Udupi	12,500	Rims Govt.	Srikakulam
2	2	2	37	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
3	3	3	50	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
4	4	4	45	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
5	5	5	54	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
6	6	6	35	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam
7	7	7	52	NEPHROLOGY	Kurnool	12,500	Govt Gener	Kurnool
8	8	8	73	NEPHROLOGY	Vizianagar	12,500	Queens Nri	Vishakhapa

Value: 1

Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 336ms (3ms fetch), on 2022-10-

2. Slowly Changing Dimension Type 2

Destination Table for SCD2

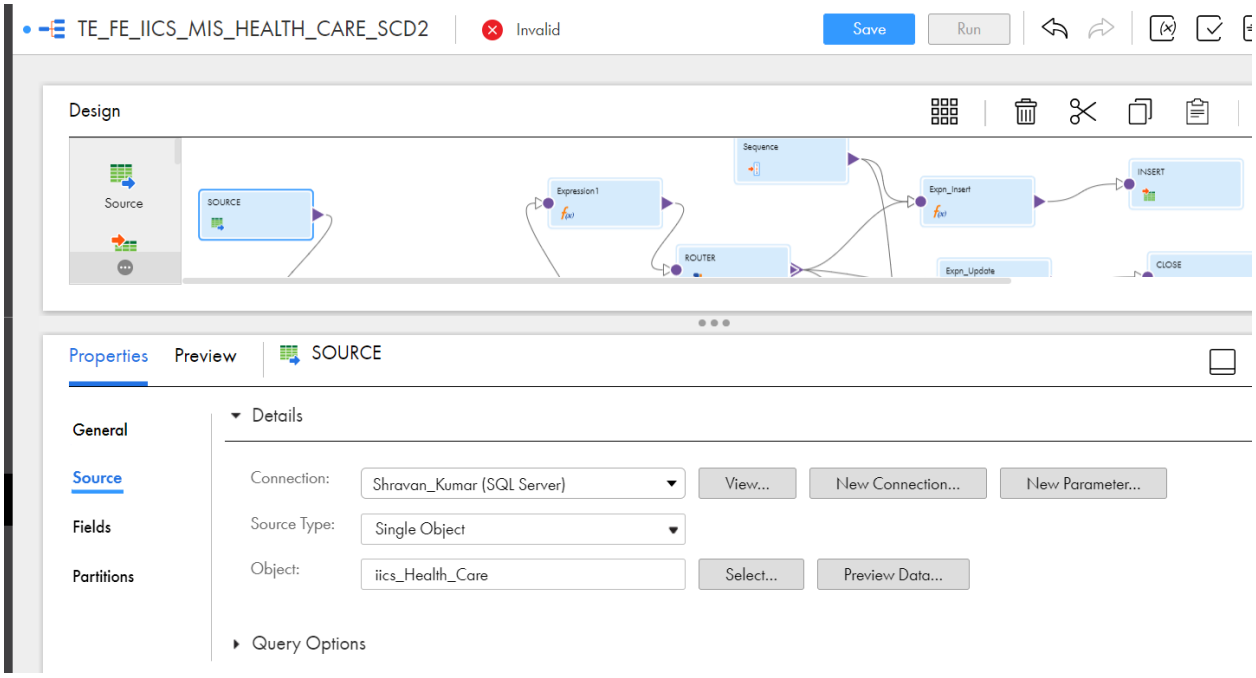
```
--Creating Destination for Health Care SCD2

CREATE TABLE iics_Health_Care_tgt_scd2(
    T_PAT_KEY INT,
    T_PID float,
    T_AGE float,
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    START_DATE DATE,
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);
```

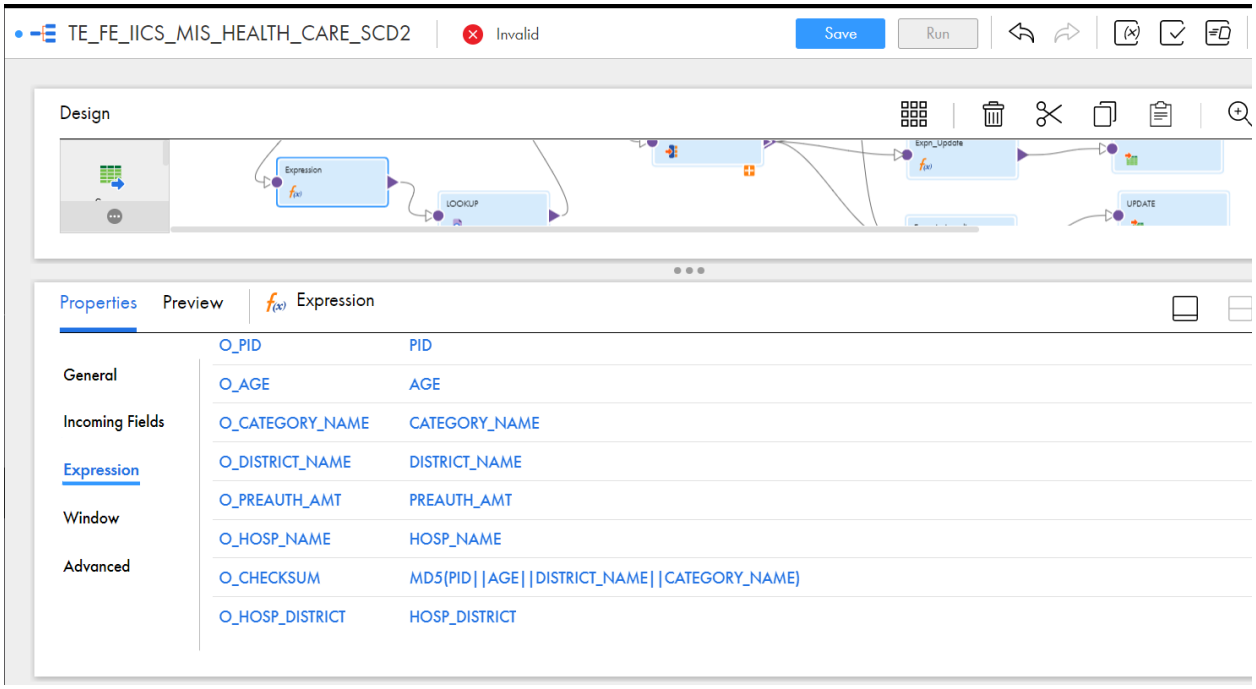
Statistics 1

ame	Value
pdated Rows	0
uery	CREATE TABLE iics_Health_Care_tgt_scd2(
	T_PAT_KEY INT,
	T_PID float,
	T_AGE float,
	T_CATEGORY_NAME nvarchar(255),
	T_DISTRICT_NAME nvarchar(255),

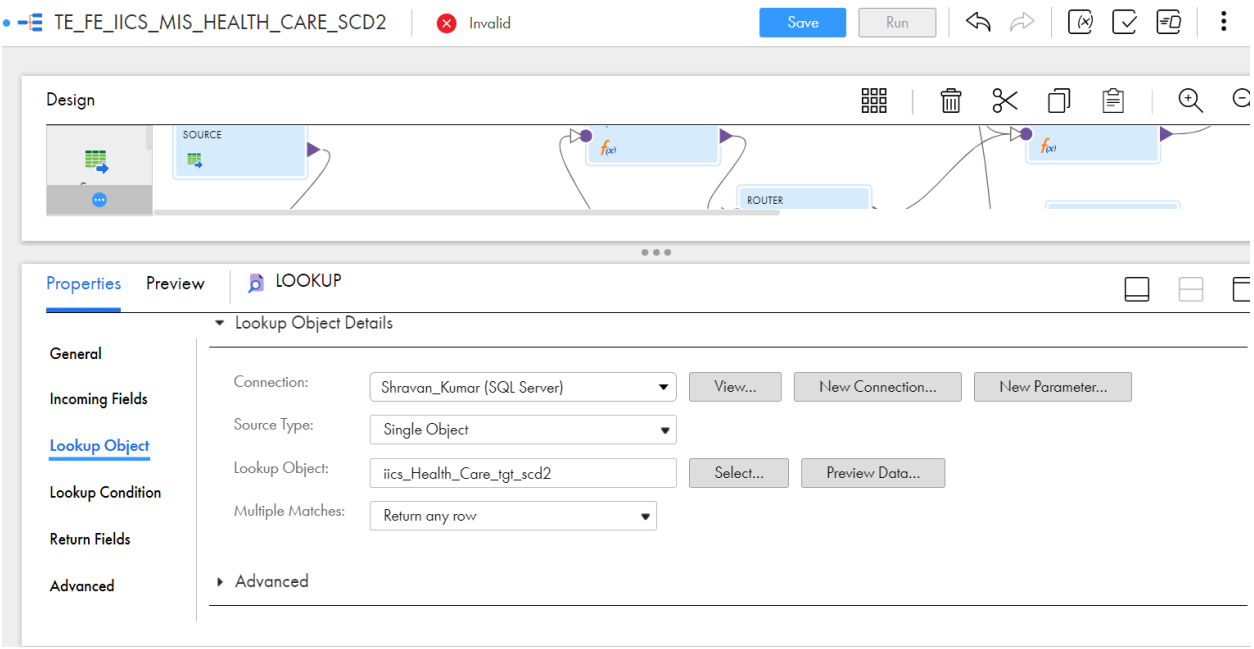
Connecting source



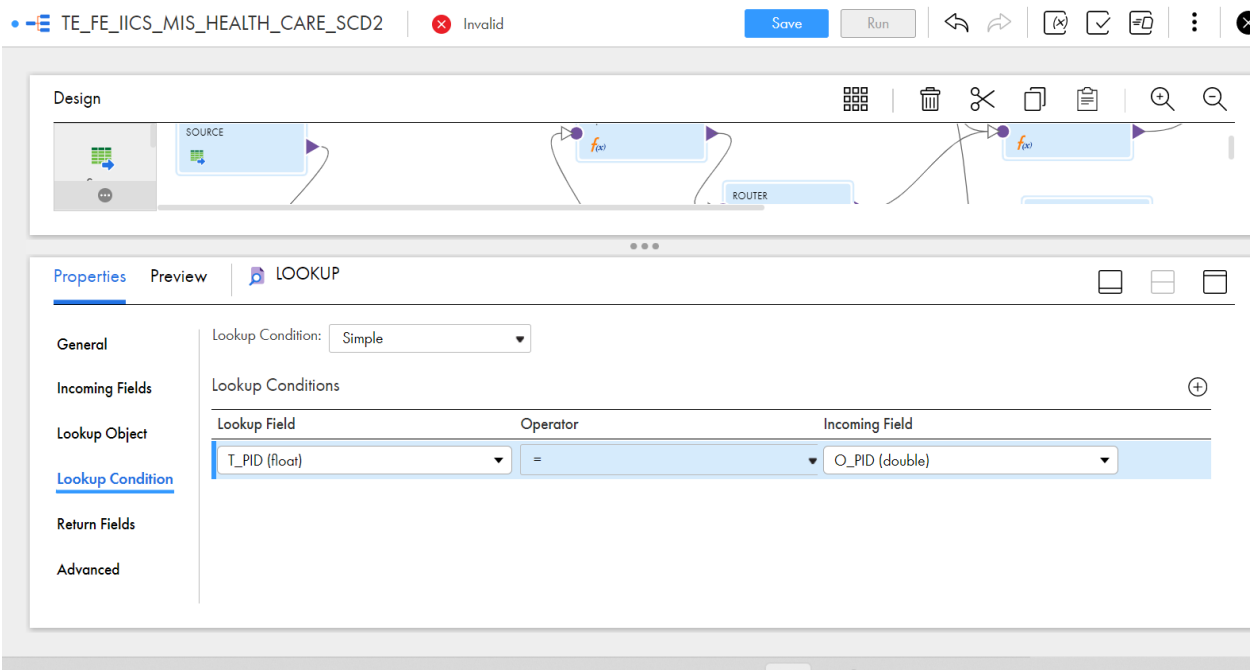
Expression for Checksum



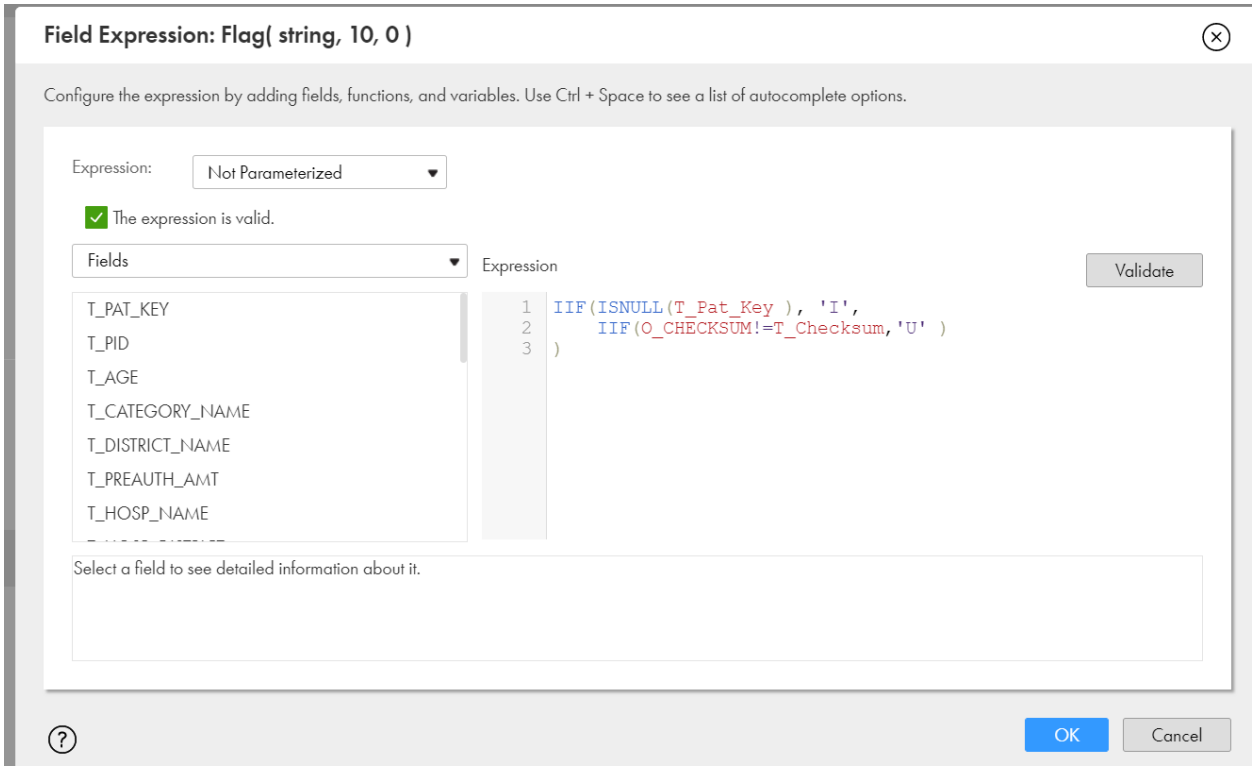
Connecting to Lookup Table



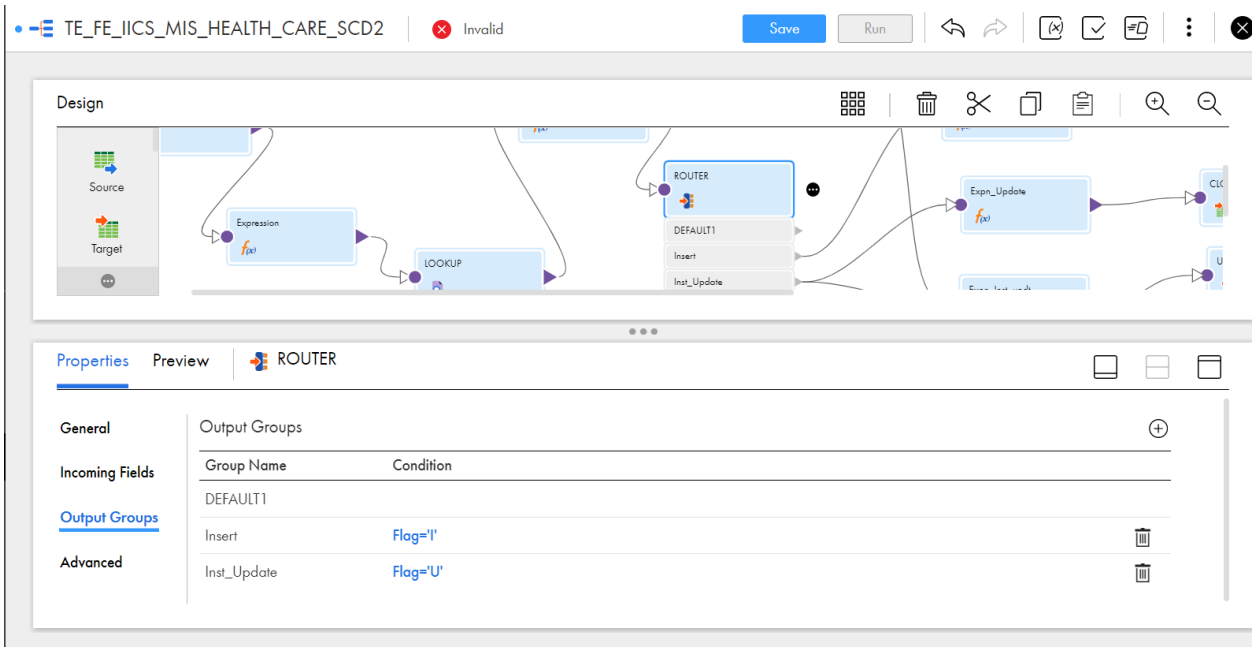
lookup Condition for scd2



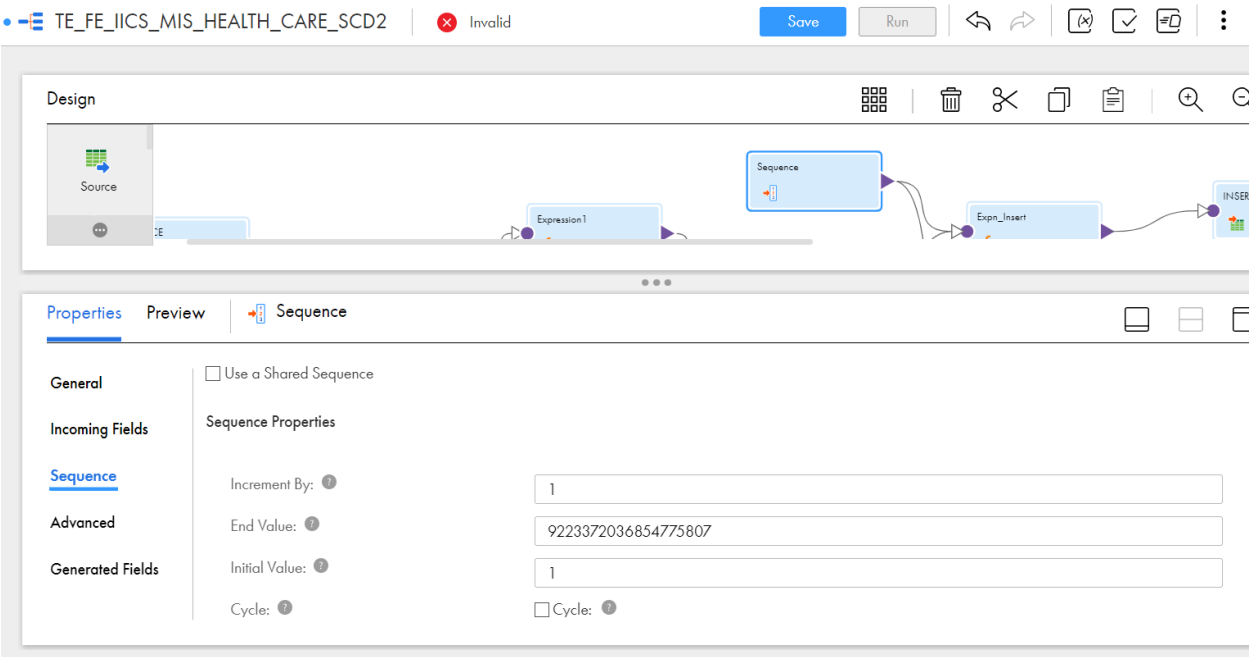
Routing Expression



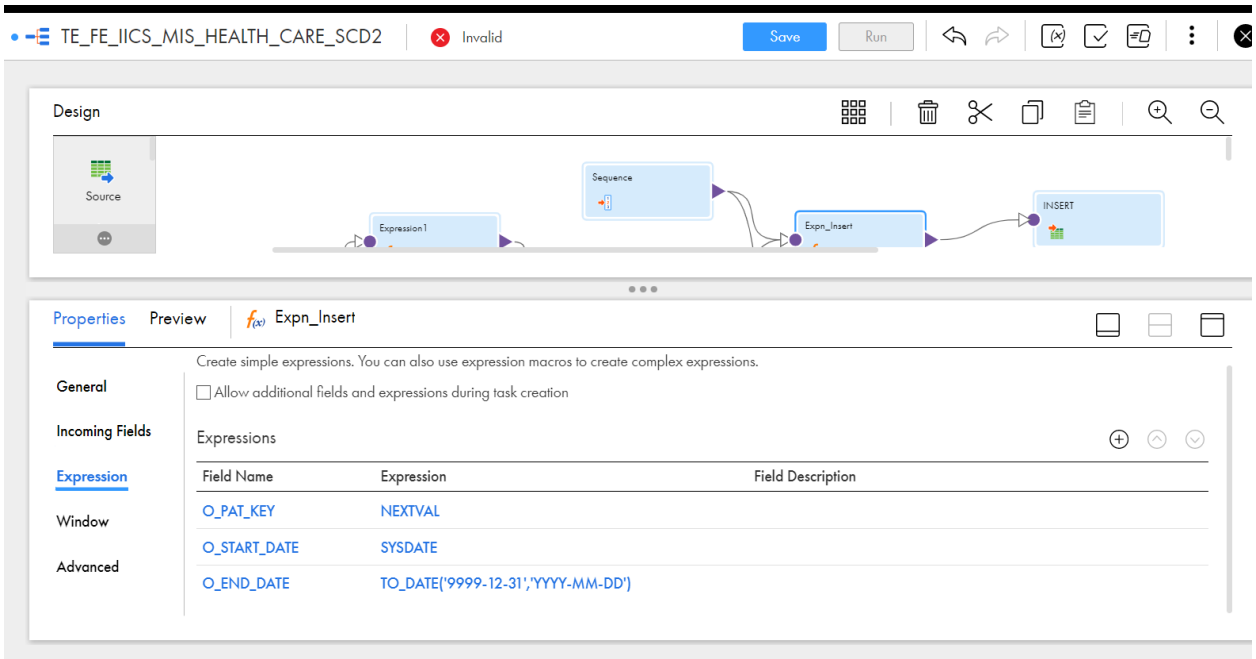
Routing Transformation



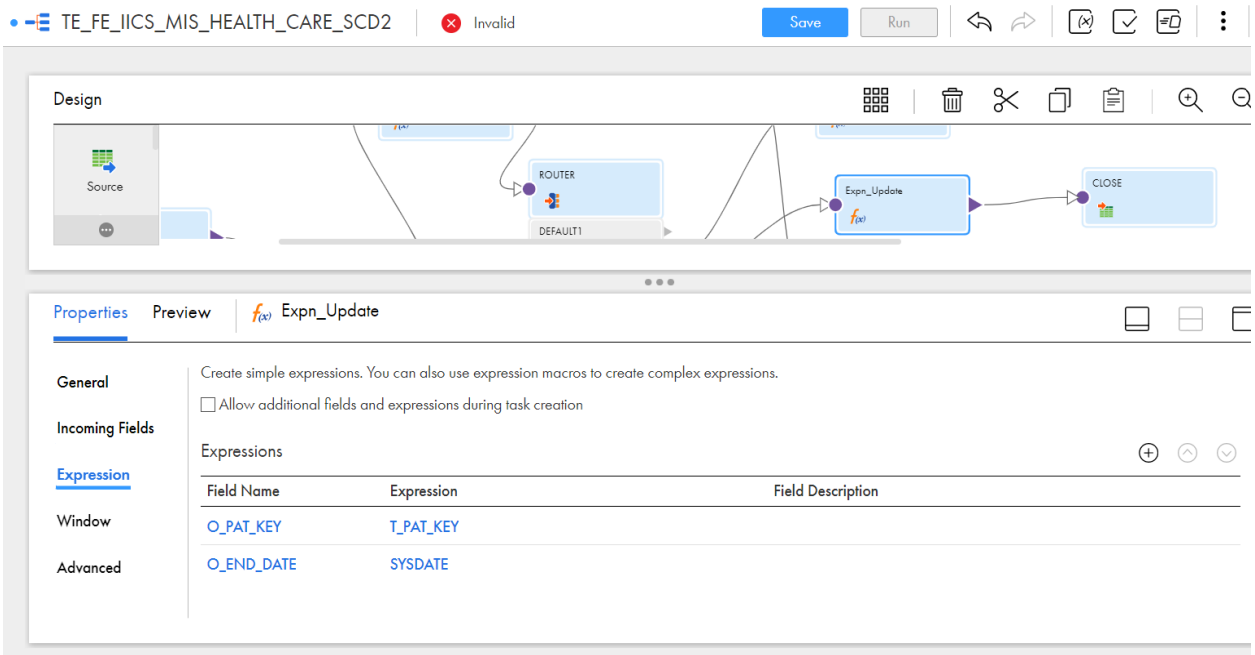
Sequence Generator



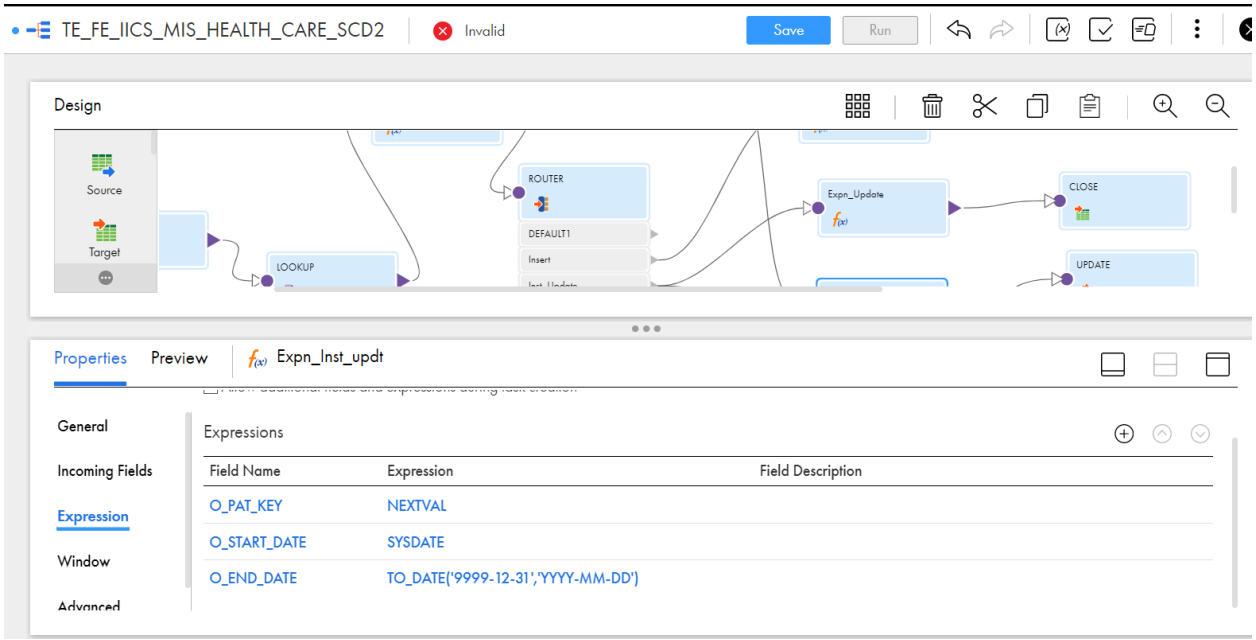
Expression for Insert



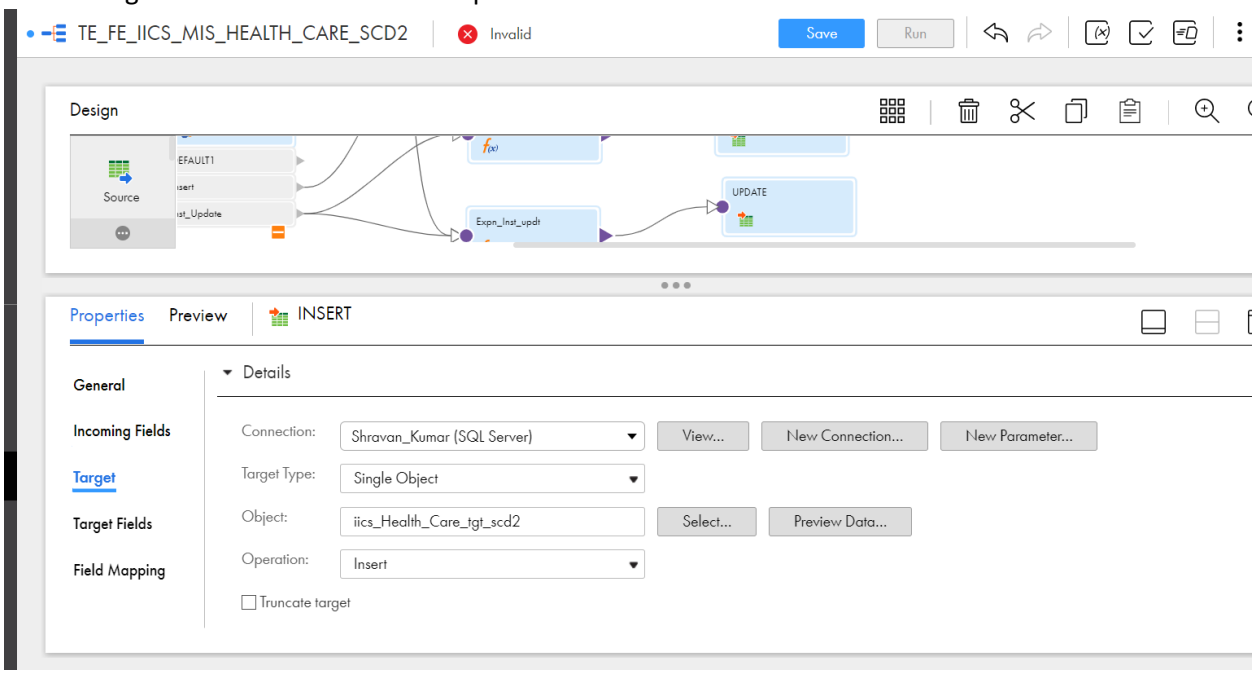
Expression for Close



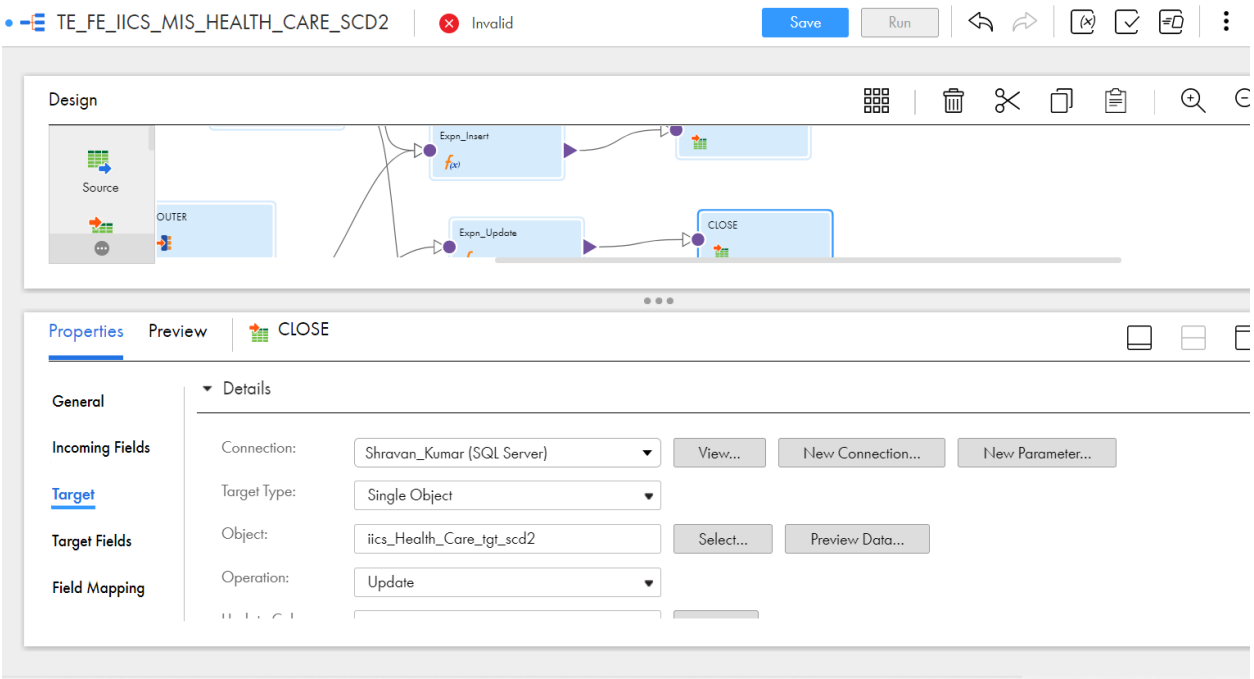
Expression for Update and Insert



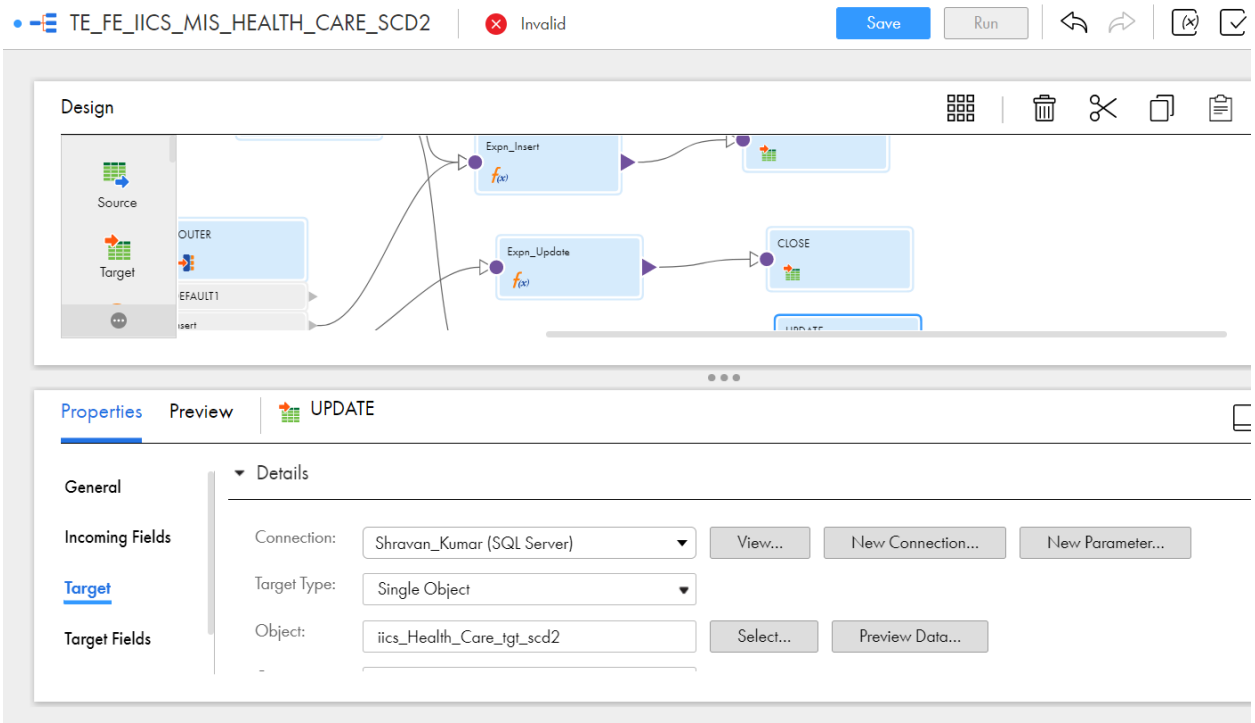
Connecting Destination with Insert as operation



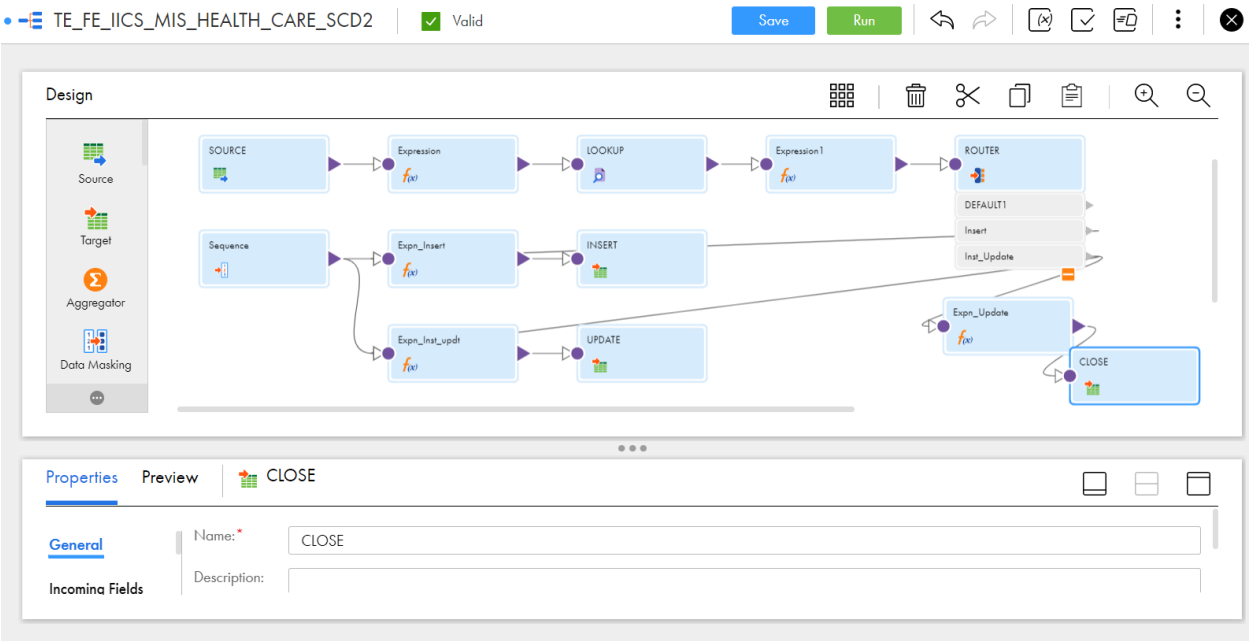
Connecting Destination with Update as Operation



Connecting Destination with Update



SCD2 Package



All 460 Rows are added

My Jobs | Data Integration

Jobs (1 items found) Updated 3:27:21 AM PDT TE_FE

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FE_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 3:26 AM	Oct 7, 2022, 3:...	460	Success

Records are updated with date

```
CREATE TABLE iics_Health_Care_tgt_scd2(
    T_PAT_KEY INT,
    T_PID float,
    T_AGE float,
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    START_DATE DATE,
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt_scd2 ;
```

Results 1

SELECT * FROM iics_Health_Care_tgt_scd2 | Enter a SQL expression to filter results (use Ctrl+Space)

	T_DISTRICT_NAME	T_PREAUTH_AMT	T_HOSP_NAME	T_HOSP_DISTRICT	START_DATE	END_DATE	T_CHECKSUM
1	Udupi	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	D173BE438B
2	rikakulam	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	63C17E2A1F
3	rikakulam	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	ED0A9B57D0
4	rikakulam	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	DC659C50EC
5	rikakulam	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	913C652ADB
6	rikakulam	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	6859E0E4BE
7	urnool	12,500	Govt Gener	Kurnool	2022-10-07	9999-12-31	A67088911D
8	izianagar	12,500	Queens Nri	Vishakhapa	2022-10-07	9999-12-31	09C7CC145E

Value 1

Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 291ms (15ms fetch), on 2022-1(

IST | en | Writable | Smart Insert | 522 : 42 : 15378 | Sel: 0 | 0

Data is updated in Source Table

```sql
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    START_DATE DATE,
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt_scd2 ;

--Updating in Source table
UPDATE iics_Health_Care SET DISTRICT_NAME='Bangalore' WHERE PID=1;
```

Results 1

SELECT * FROM iics_Health_Care

	PID	AGE	CATEGORY_NAME	DISTRICT_NAME	PREAUTH_AMT	HOSP_NAME	
1	1	56	NEPHROLOGY	Bangalore	12,500	Rims Govt. General Hospital, Srikakulam	S
2	2	37	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam	S
3	3	50	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam	S
4	4	45	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam	S
5	5	54	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam	S
6	6	35	NEPHROLOGY	Srikakulam	12,500	Rims Govt. General Hospital, Srikakulam	S
7	7	52	NEPHROLOGY	Kurnool	12,500	Govt General Hospital Kurnool	K
8	8	73	NEPHROLOGY	Vizianagaram	12,500	Queens Nri Hospitals	V

Value: 1.0

Only 2 rows are passed

My Jobs | Data Integration

Jobs (4 items found) Updated 3:32:08 AM PDT TE_FA

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 3:32 AM	Oct 7, 2022, 3:...	2	Success
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:47 AM	Oct 7, 2022, 2:...	0	Failed
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:49 AM	Oct 7, 2022, 2:...	460	Success
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:54 AM	Oct 7, 2022, 2:...	1	Success

One row is inserted

```
    T_CATEGORY_NAME nvarchar(255),
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    START_DATE DATE,
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt_scd2 ;

--Updating in Source table
UPDATE iics_Health_Care SET DISTRICT_NAME='Bangalore' WHERE PID=1;
```

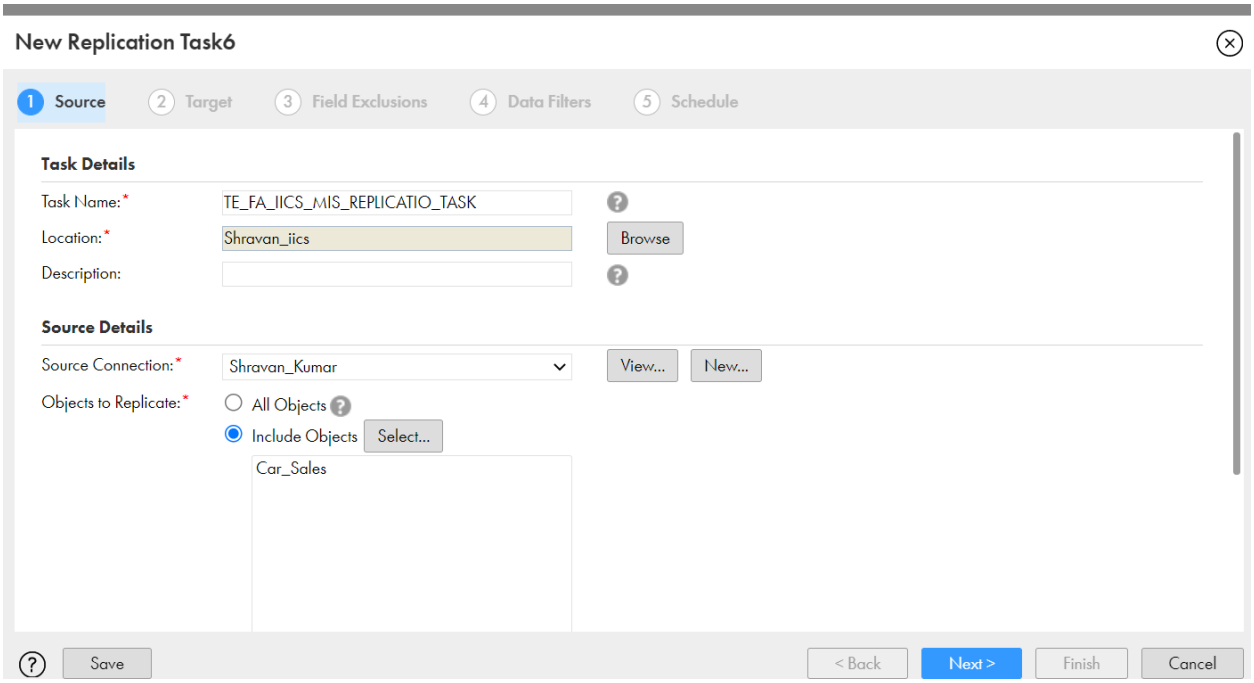
esults 1

ELECT * FROM iics_Health_Care_tgt_scd2 | Enter a SQL expression to filter results (use Ctrl+Space)

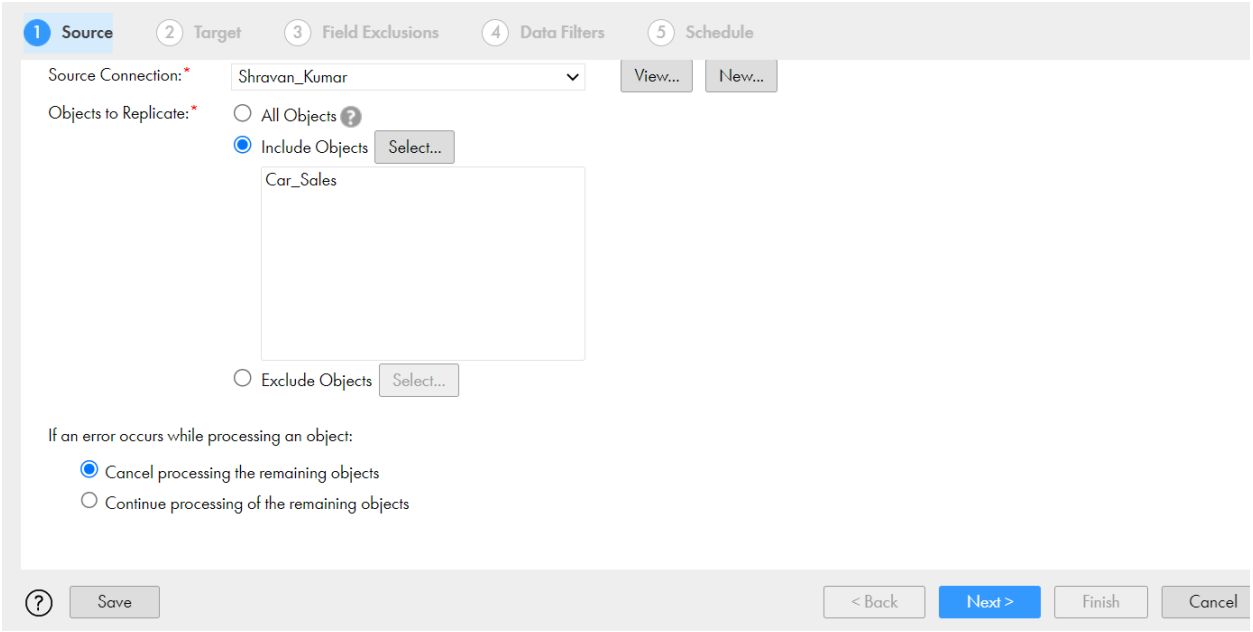
	T_PAT_KEY	T_PID	T_AGE	T_CATEGORY_NAME	T_DISTRICT_NAME	T_PREAUTH_AMT	T_HOSP_NAME	T_HOSP_DI
455	455	455	45	NEPHROLOGY	East Godav	12,500	SURYA GLOB	East Godav
456	456	456	58	GENERAL SU	Kurnool	25,000	Govt Gener	Kurnool
457	457	457	0	PEDIATRIC	Kurnool	18,830	Govt Gener	Kurnool
458	458	458	12	PLASTIC SU	Kurnool	65,000	Govt Gener	Kurnool
459	459	459	52	POLY TRAUM	Kurnool	26,000	Govt Gener	Kurnool
460	460	460	66	PULMONOLOG	Vizianagar	25,000	King Georg	Vishakhapa
461	1	1	56	NEPHROLOGY	Bangalore	12,500	Rims Govt.	Srikakulam

3. Replication Task

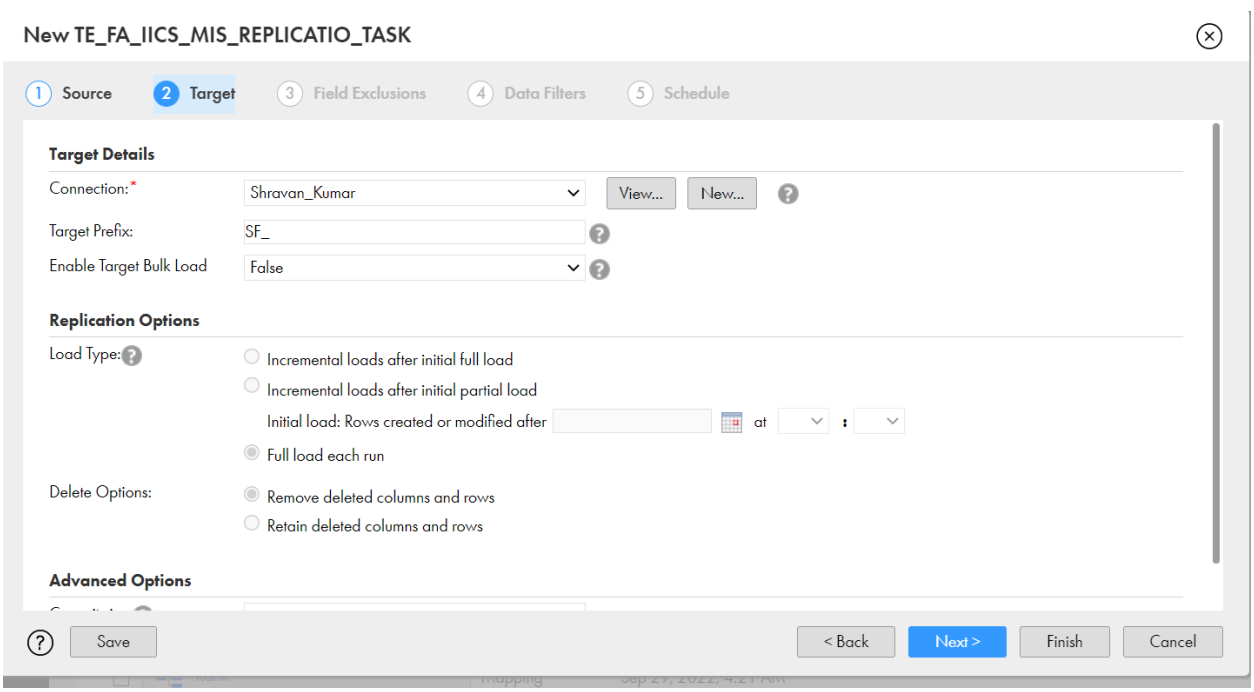
Creation of Replication Task



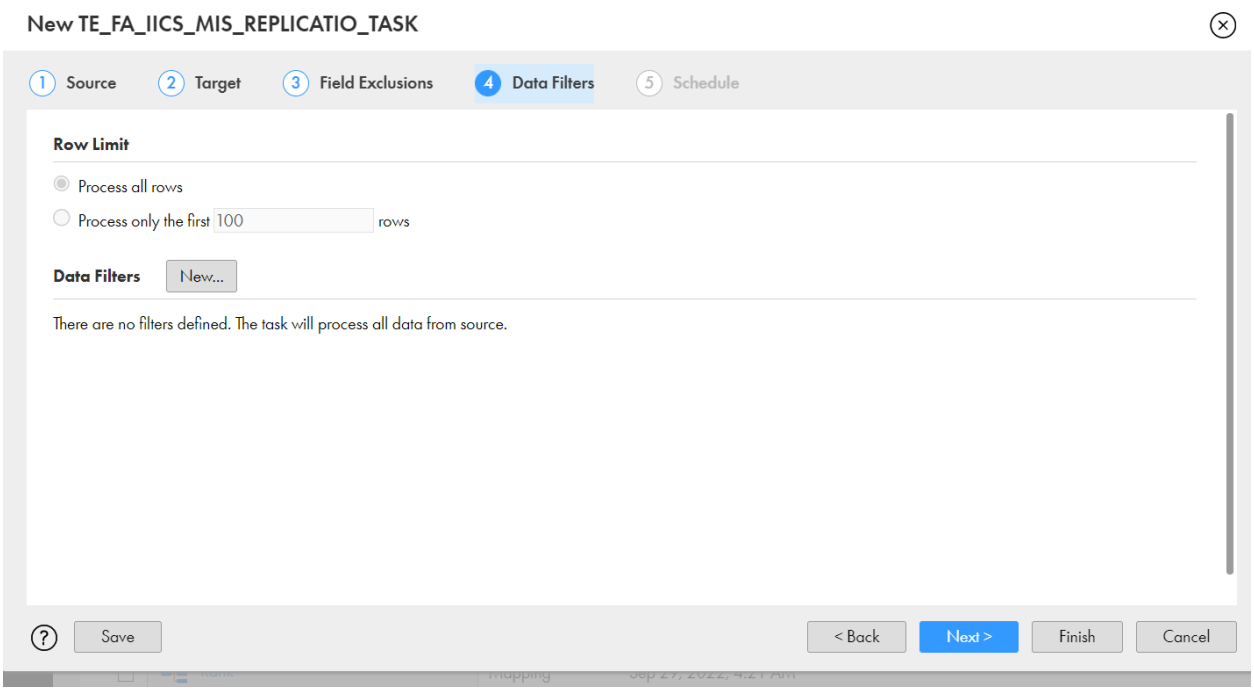
Selecting Source



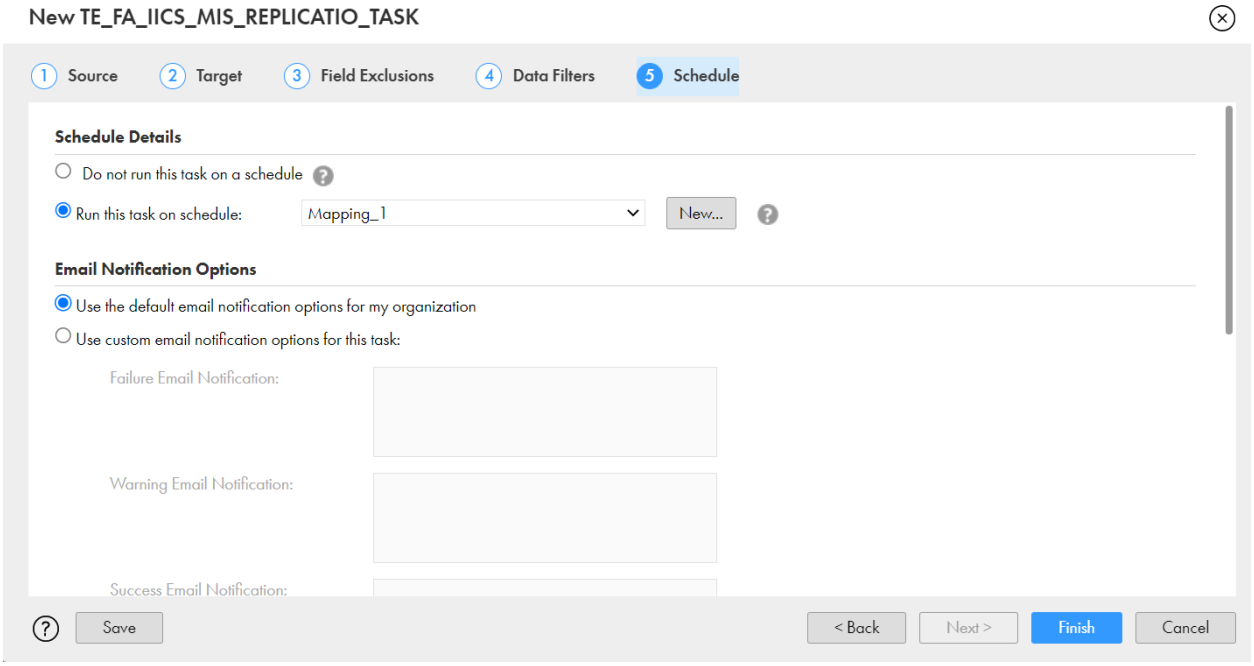
Connection of Target Table



Filtering Number of Records



Setting the Schedule



Replication Task

TE_FA_IICS_MIS_REPLICATIO_TASK

Edit | Run

Task Details

Task Name:*	TE_FA_IICS_MIS_REPLICATIO_TASK
Location:*	Shravan_iics
Description:	
Created On:	Oct 7, 2022 3:39:52 AM
Updated On:	Oct 7, 2022 3:39:52 AM
Created By:	shravan_kumar
Updated By:	shravan_kumar
Last Run:	

Source Details

Source Connection:*	Shravan_Kumar
Included Objects:	Car_Sales
Stop on Error:	Cancel processing the remaining objects

Target Details

Target Connection:*	Shravan_Kumar
Target Prefix:	SF_
Load Type:	Full load each run

Successful Execution

My Jobs | Data Integration

Jobs (1 items found) Updates available

Updated 3:43:03 AM PDT

TE_FA

Asset Name: TE_FA_IICS_MIS_REPL... Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_REPLI...	Shravan_iics	1 task	Oct 7, 2022, 3:40 AM	Oct 7, 2022, 3:...	1000	Success

Data in Destination

```
    T_DISTRICT_NAME nvarchar(255),
    T_PREAUTH_AMT float,
    T_HOSP_NAME nvarchar(255),
    T_HOSP_DISTRICT nvarchar(255),
    START_DATE DATE,
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt_scd2 ;

--Updating in Source table
UPDATE iics_Health_Care SET DISTRICT_NAME='Bangalore' WHERE PID=1;

--Replicatin Task

SELECT * FROM SF_CAR_SALES ;
```

Results 1

SELECT * FROM SF_CAR_SALES

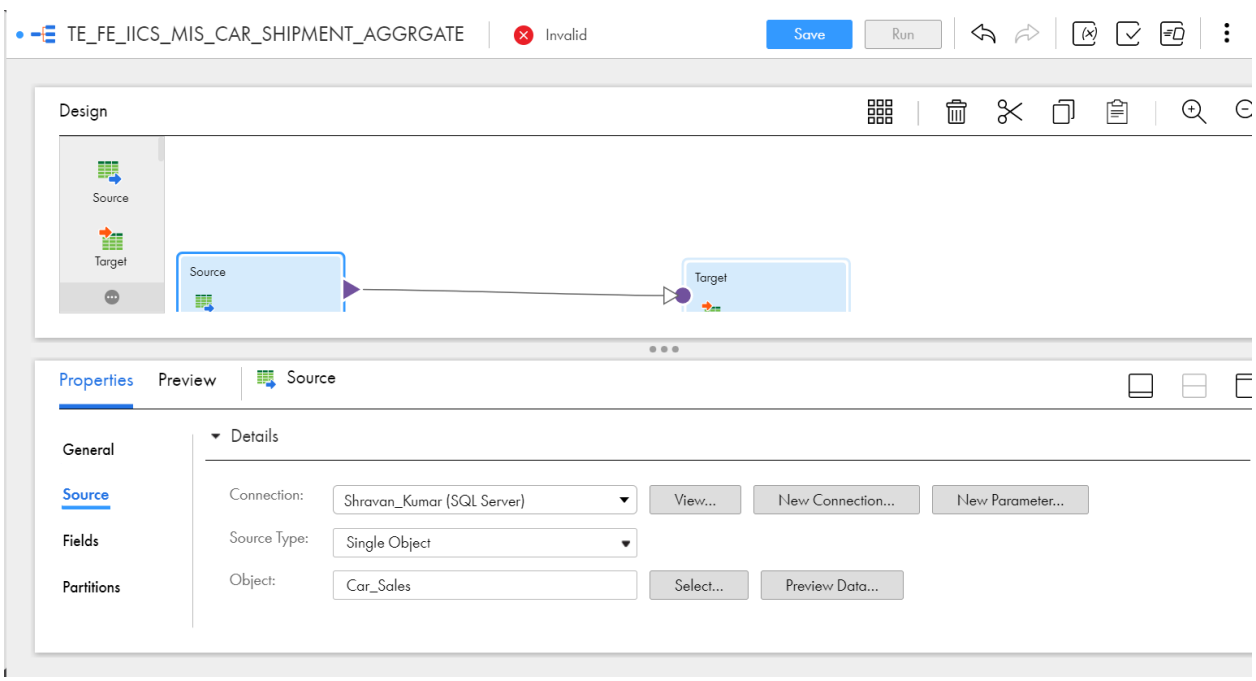
	SUPPLIERID	SUPPLIERADDRESS	SUPPLIERNAME	SUPPLIERCONTACTDETAILS	PRODUCTID	CARMAKER	CARMODEL
1	1	542 Dayton Center	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500
2	2	0674 Springview Circle	Tagopia	337-64-4060	9,444	Toyota	Tundra
3	3	70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500
4	4	649 Corben Lane	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet
5	5	94 Namekagon Point	Kare	849-23-6788	8,905	Mercury	Mariner
6	6	46347 Dunning Drive	Rhynyx	378-57-0118	8,877	Toyota	Land Cruiser
7	7	85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza
8	8	30230 Westerfield Pass	Wordify	371-69-6870	8,854	BMW	X6

Value: 1.0

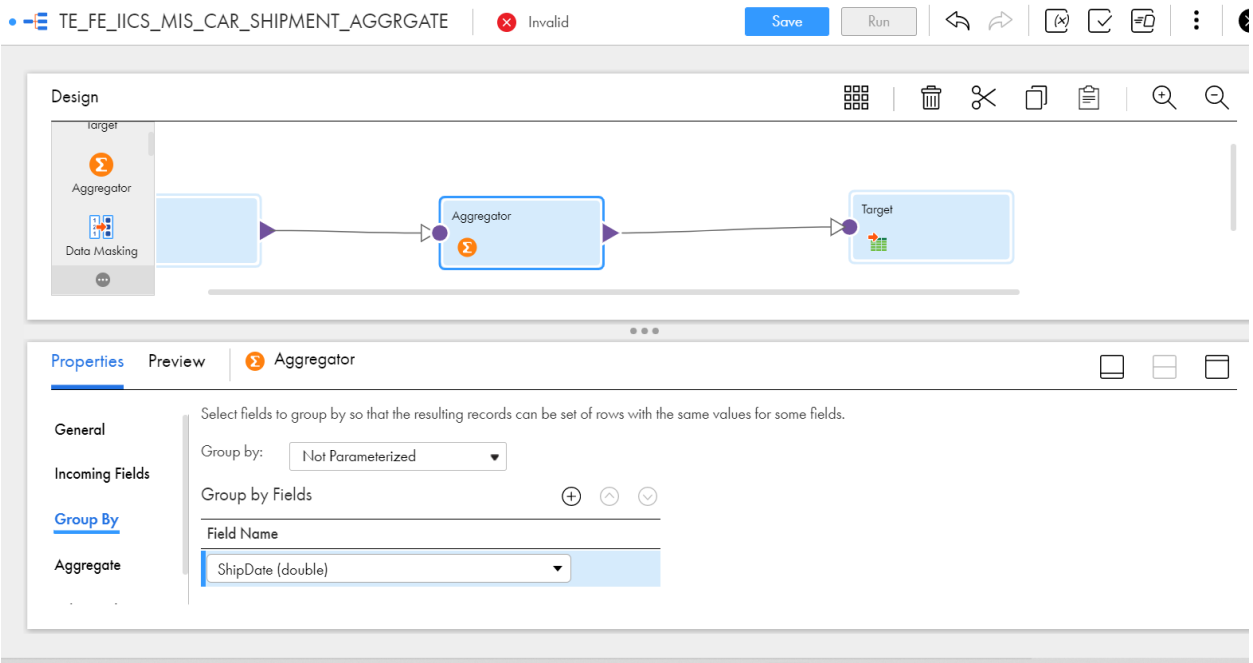
Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 436ms (182ms fetch), on 2022-

4. Aggregate Transformation

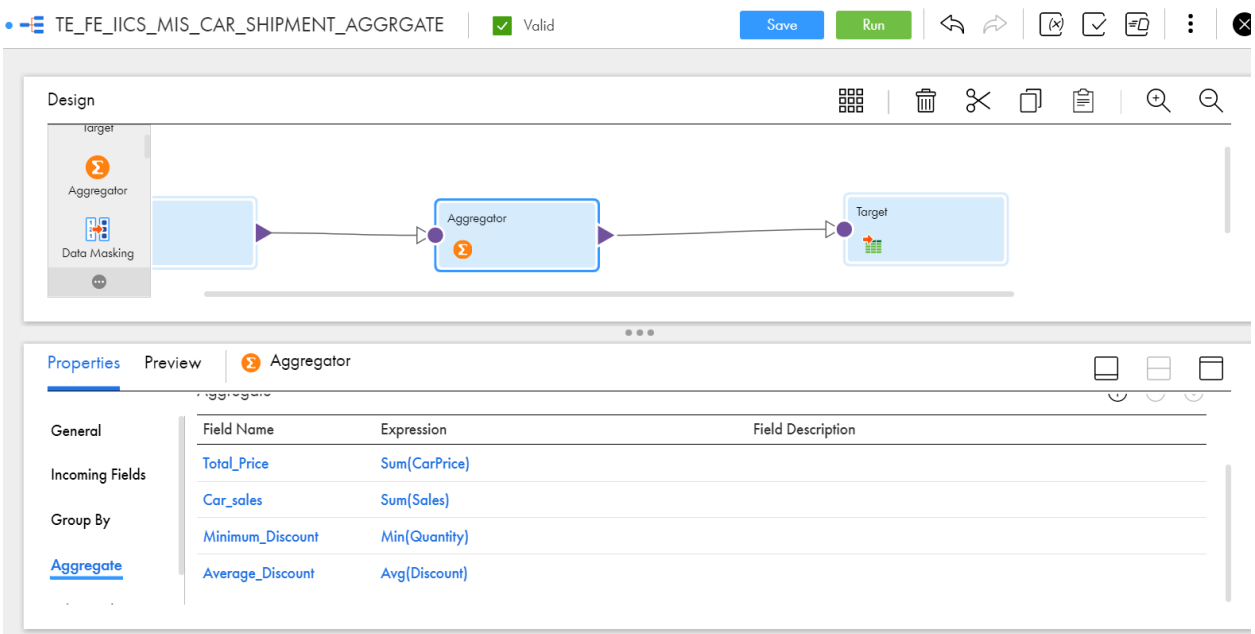
Connecting Source Table



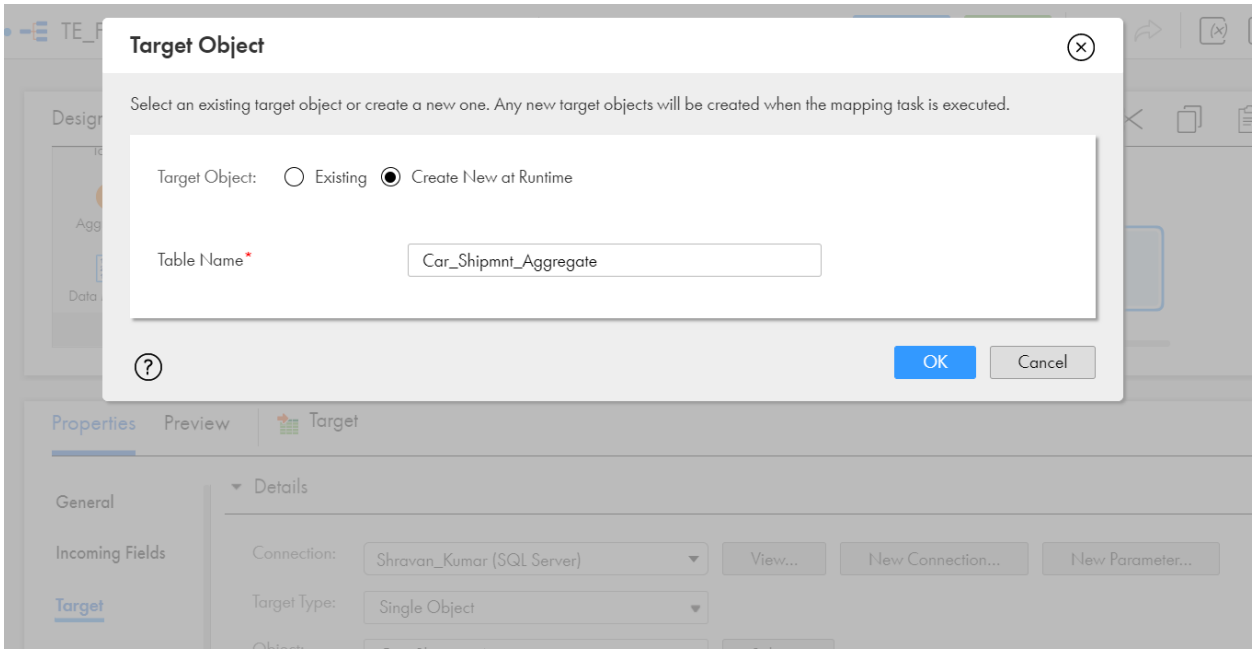
Grouping By Shipmode



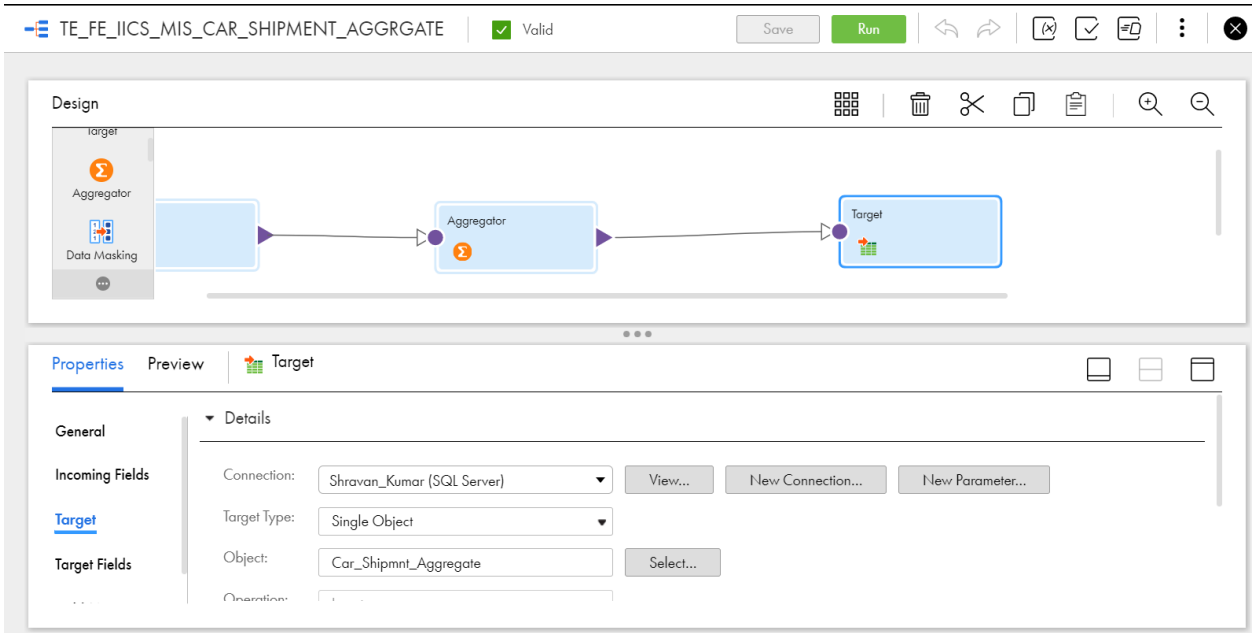
Aggregate Functions



Creating Target by Runtime



Mapping Aggregate Task



4 Rows are Processed

My Jobs | Data Integration

Jobs (4 of 31) Updates available Updated 4:39:35 AM PDT Find

Asset Name: TE_FE_IICS_MIS_CAR... Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 3:58 AM	Oct 7, 2022, 3:...	168	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:02 AM	Oct 7, 2022, 4:...	4	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:03 AM	Oct 7, 2022, 4:...	4	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:39 AM	Oct 7, 2022, 4:...	4	Success

Aggregate Result

<sravan> Shravan.sql | <dlithe> Dlithe.sql | *<sravan> Script-22

```sql
    END_DATE DATE,
    T_CHECKSUM VARCHAR(100)
);

SELECT * FROM iics_Health_Care_tgt_scd2 ;

--Updating in Source table
UPDATE iics_Health_Care SET DISTRICT_NAME='Bangalore' WHERE PID=1;

--Replicatin Task

SELECT * FROM SF_CAR_SALES ;

SELECT * FROM Car_Shipmnt_Aggregate;
```

Results 1

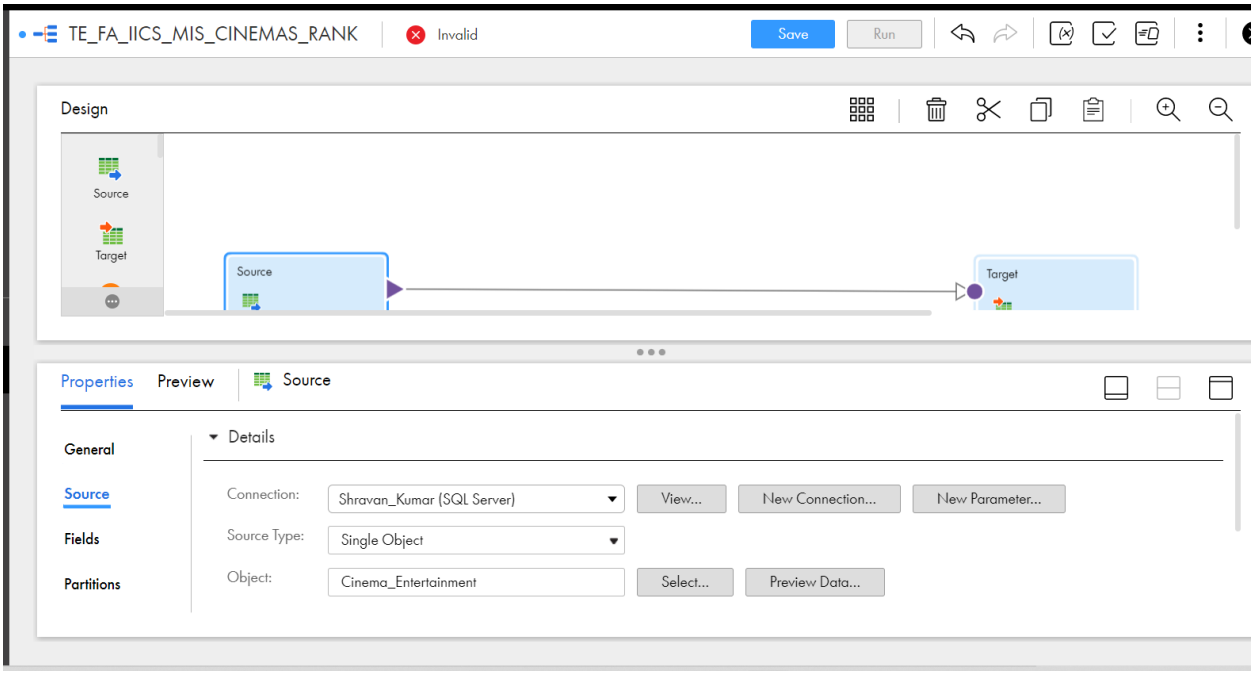
SELECT * FROM Car_Shipmnt_Aggregate | Enter a SQL expression to filter results (use Ctrl+Space)

	CreditCard	CustomerFeedback	Total_Price	Car_sales	Minimum_Discount	Average_Discount
1	556,620,000,000,000	Very Bad	161124365.	213695164.	1.00000000	0.57500000
2	576,080,000,000,000	Okay	158687263.	208186842.	1.00000000	0.56230452
3	30,375,200,000,000	Okay	164794198.	215430674.	1.00000000	0.58122047
4	4,041,380,000,000	Very Bad	164486366.	215786031.	1.00000000	0.59027667

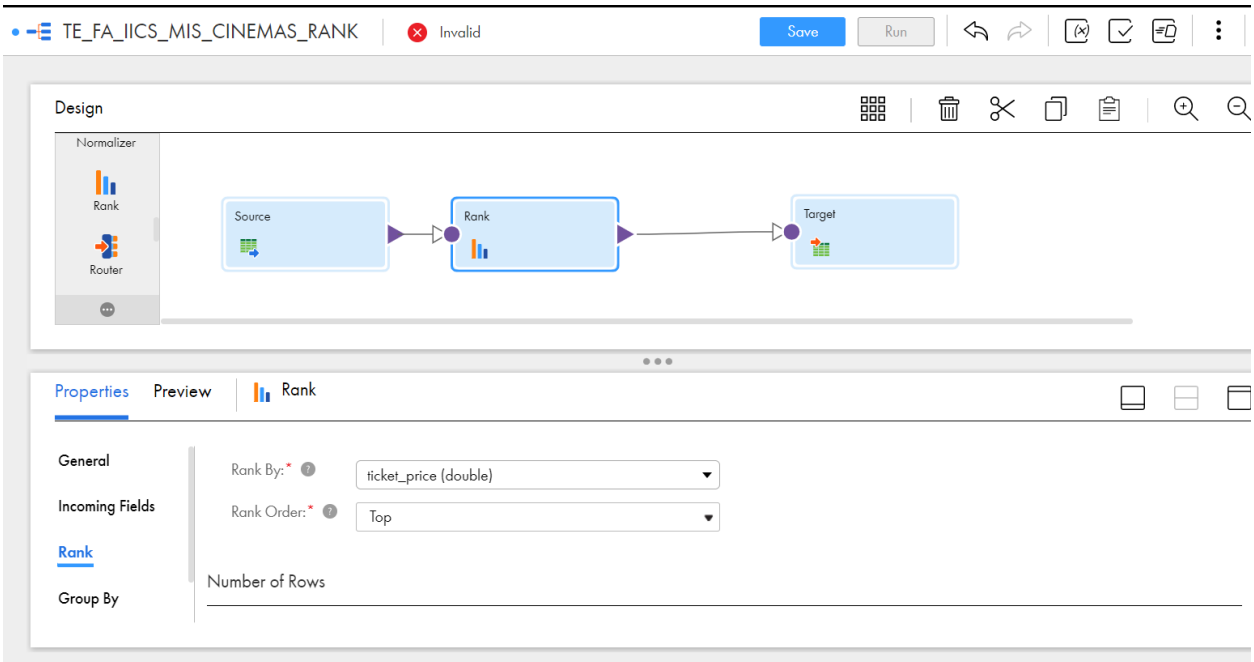
Value: 999.0

5. Rank Transformation

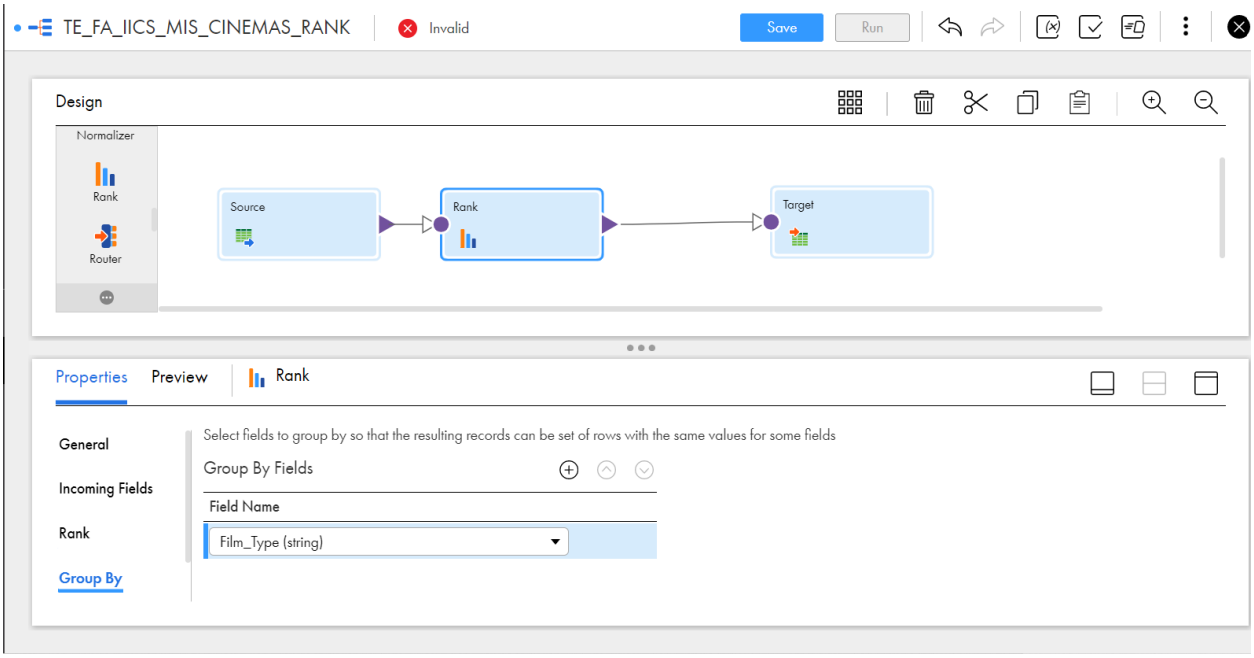
Connecting to Source table



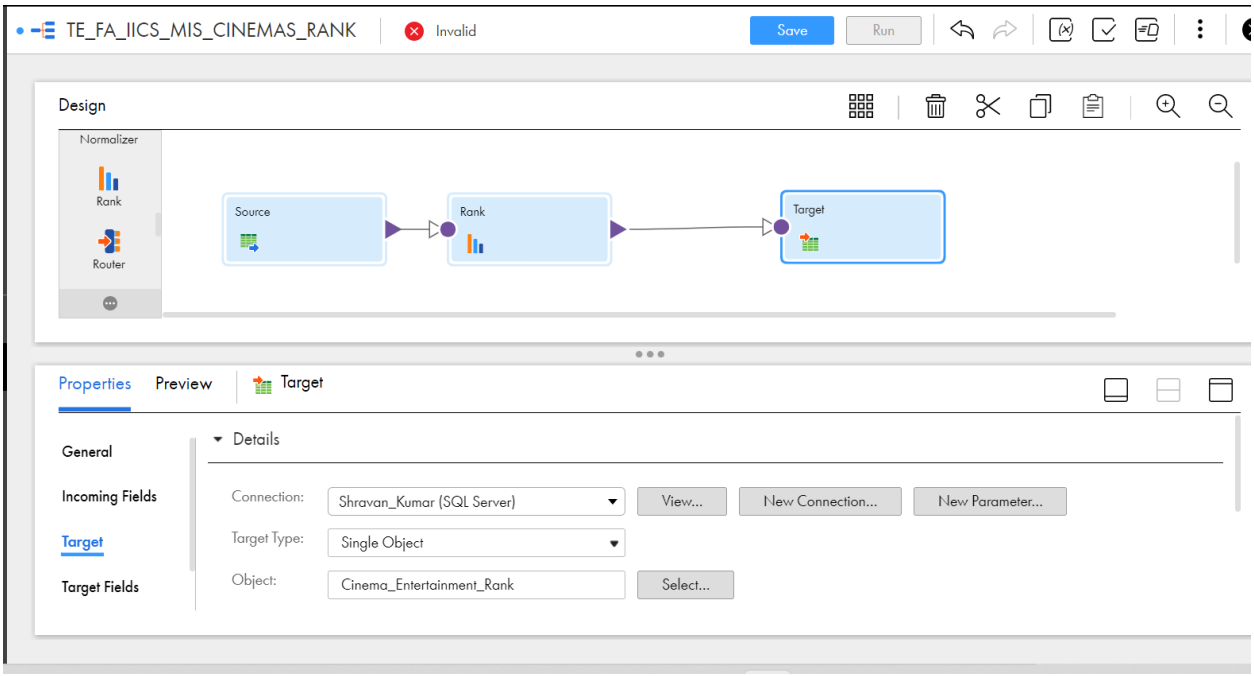
Setting field for Rank



Setting Group by Field



Connecting to Destination table



Successful Execution of Rank Mapping

My Jobs | Data Integration

Jobs (1 of 32) Updated 9:39:25 PM PDT Find

Asset Name: TE_FA_IICS_MIS_CIN... Add Field

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_CINE...	Shravan_iics		Oct 7, 2022, 9:38 PM	Oct 7, 2022, 9:...	601	Success

Result of Rank Mapping

<sravan> Shravan.sql | <dlithe> Dlithe.sql | *<sravan> Script-22

```
SELECT * FROM iics_Health_Care_tgt_scd2 ;

--Updating in Source table
UPDATE iics_Health_Care SET DISTRICT_NAME='Bangalore' WHERE PID=1;
```

Results 1 | Results 0 | Results 0

SELECT * FROM Cinema_Entertainment_Rank | Enter a SQL expression to filter results (use Ctrl+Space)

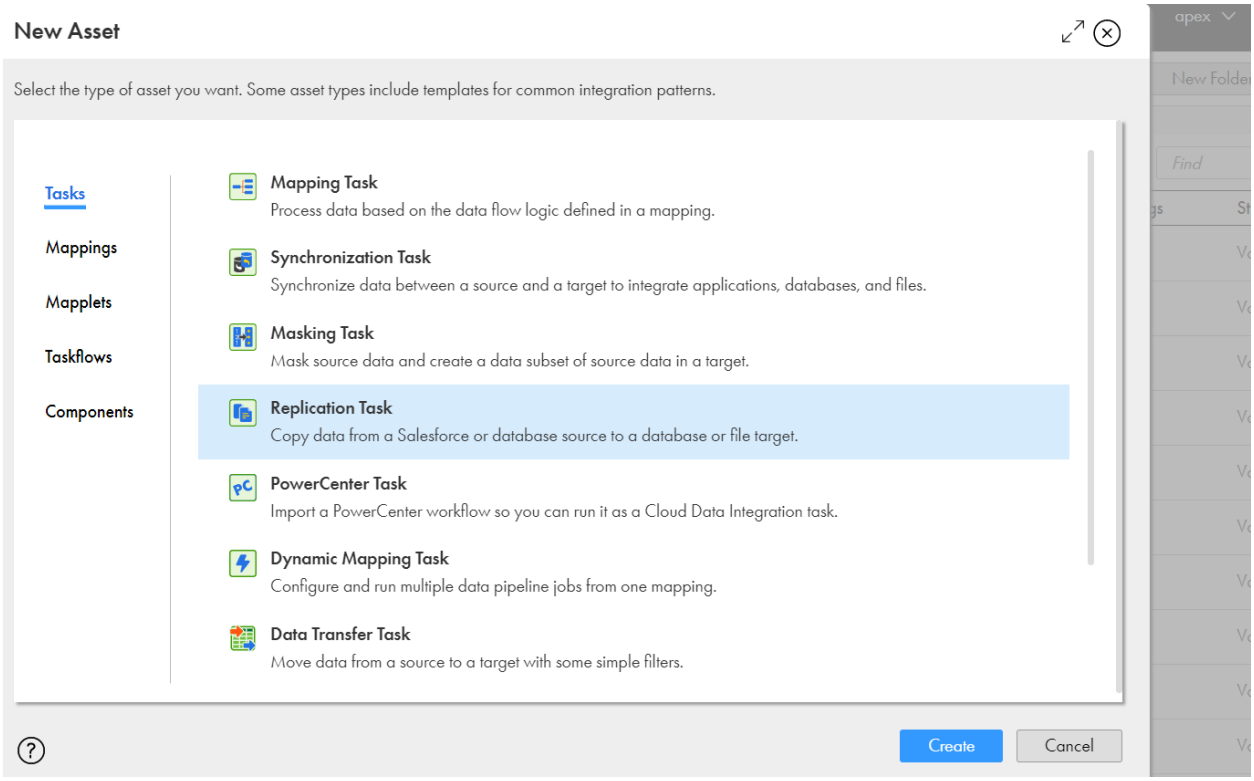
	RANKINDEX	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc
61	60	Action	1,482	194	21,550,000	431	0	2	38
62	62	Action	1,482	155	24,880,000	631	0	5	64
63	63	Action	1,482	501	22,580,000	604	3	4	75
64	1	Comedy	1,480	155	400,000	5	0	3	0
65	1	Comedy	1,480	455	3,920,000	49	1	3	4
66	1	Comedy	1,480	455	1,440,000	18	1	3	1
67	1	Comedy	1,480	455	1,600,000	20	0	3	
68	1	Comedy	1,480	455	1,760,000	22	0	3	
69	1	Comedy	1,480	455	320,000	4	3	3	0
70	1	Comedy	1,480	455	3,600,000	45	0	3	4
71	8	Comedy	1,480	164	1,855,000	31	0	2	35
72	9	Comedy	1,480	155	1,720,000	30	0	6	2
73	10	Comedy	1,480	155	2,520,000	44	0	6	3
74	11	Comedy	1,480	155	2,480,000	44	0	6	3
75	12	Comedy	1,480	164	805,000	15	0	2	17
76	13	Comedy	1,480	155	2,280,000	44	0	4	5
77	14	Comedy	1,480	477	200,000	4	0	1	2
78	14	Comedy	1,480	477	300,000	6	0	1	3

Value: 1

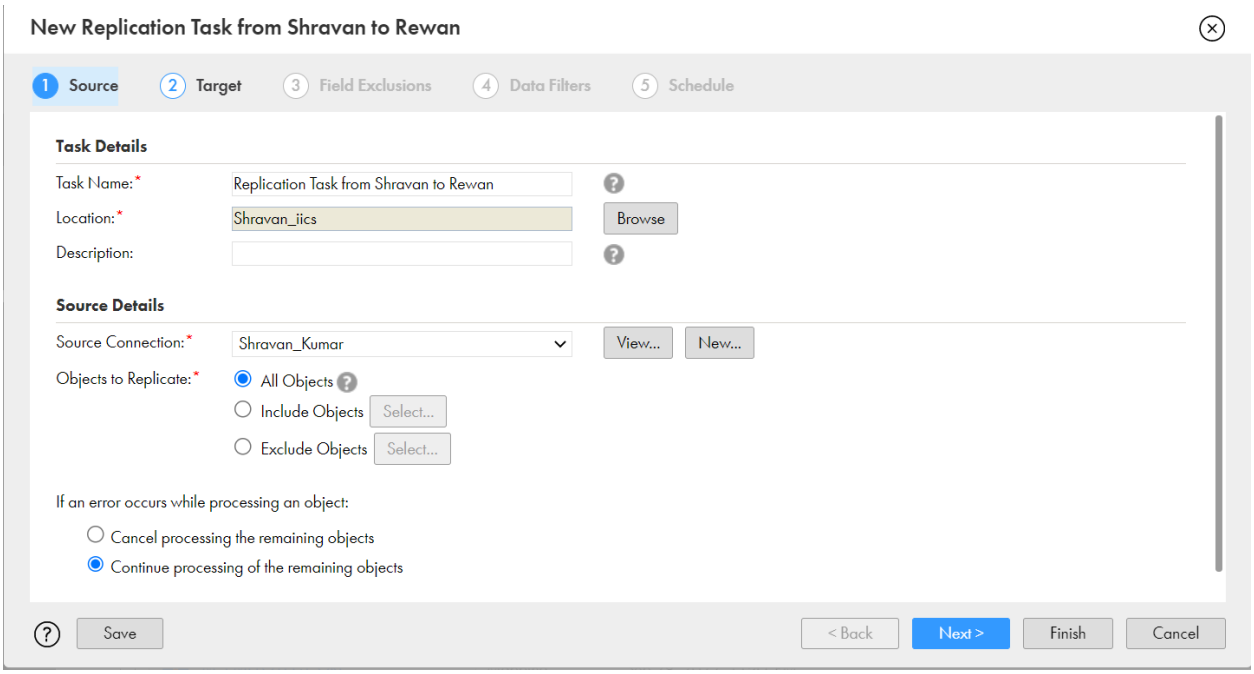
Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 74ms (9ms fetch), on 2022-10-0

6. Data Replication Task (Whole Database Objects)

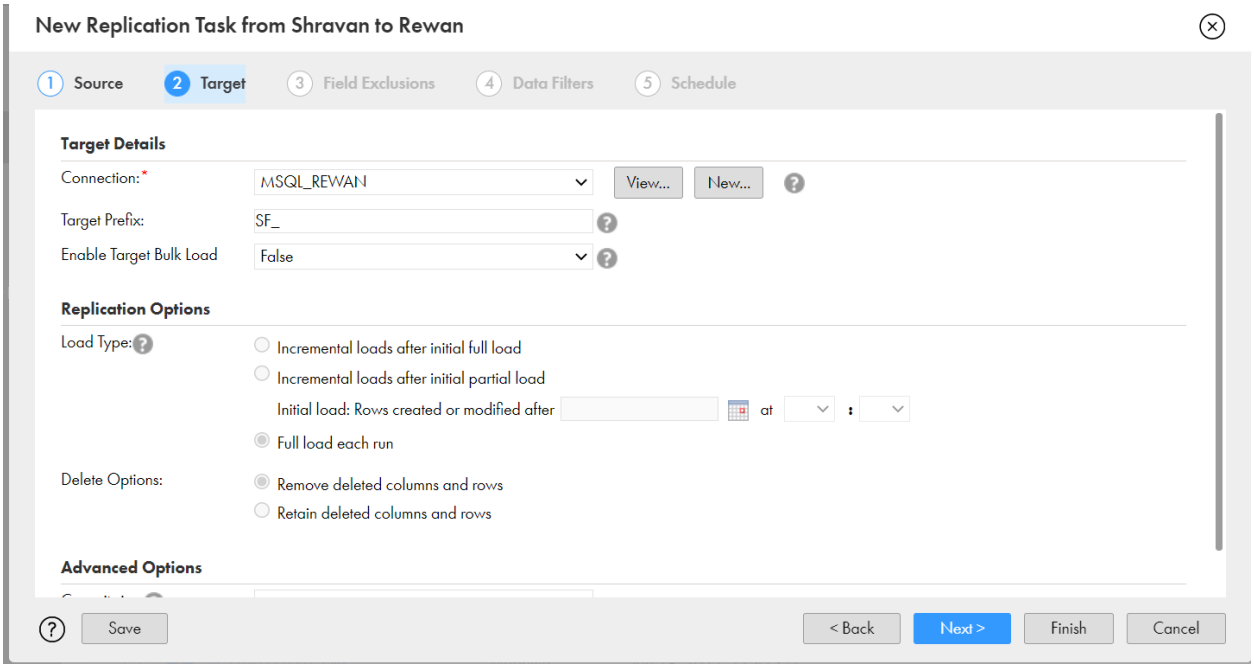
Selecting Data Replication Task



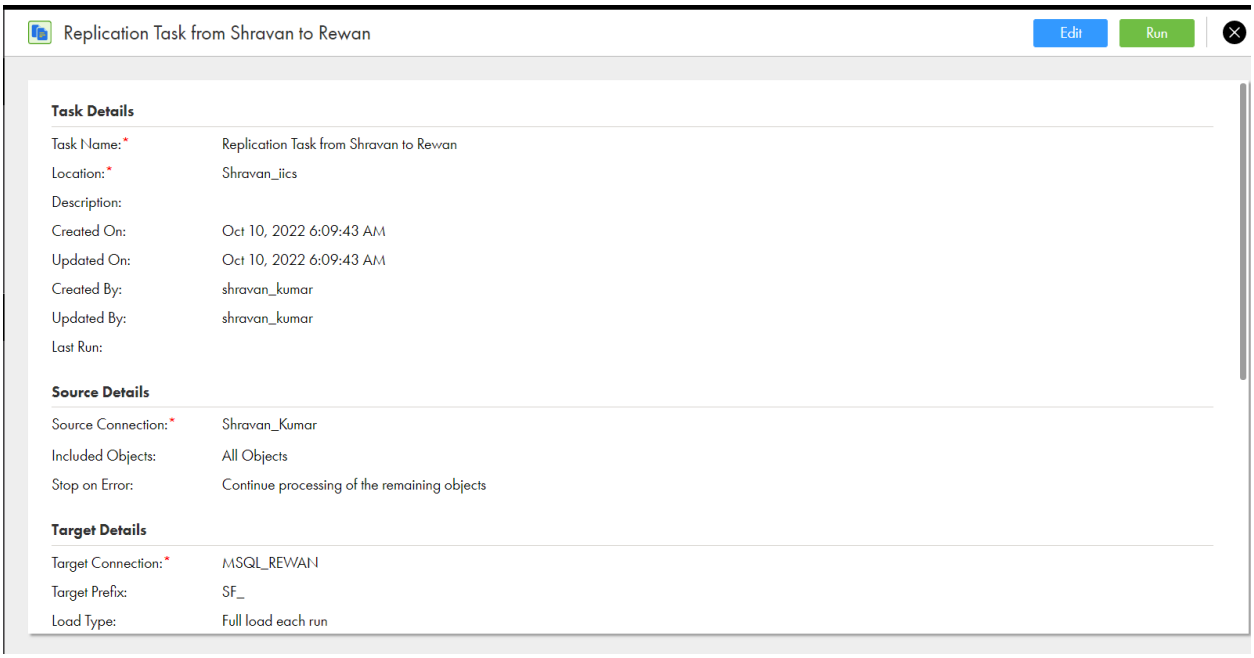
Selecting Source Database



Selecting Destination



Data Replication Task



All Tables are Transferred from one Database to Another Database

My Jobs | Data Integration

Jobs (33) Up to date

Updated 8:46:23 AM PDT

Find

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:54 AM	Oct 7, 2022, 2:...	1	Success
TE_FA_IICS_MIS_REPLI...	Shravan_iics	1 task	Oct 7, 2022, 3:40 AM	Oct 7, 2022, 3:...	1000	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 3:58 AM	Oct 7, 2022, 3:...	168	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:02 AM	Oct 7, 2022, 4:...	4	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:03 AM	Oct 7, 2022, 4:...	4	Success
TE_FE_IICS_MIS_CAR_...	Shravan_iics		Oct 7, 2022, 4:39 AM	Oct 7, 2022, 4:...	4	Success
TE_FE_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 3:26 AM	Oct 7, 2022, 3:...	460	Success
Union Transformation-1	Shravan_iics		Oct 2, 2022, 11:23 ...	Oct 2, 2022, 1...	6	Success

26 - 33 of 33

2 of 2

Items per Page: 25