

1. Slowly Changing Dimension Type 1

Connecting SQL Source table

The screenshot shows the Informatica Data Integration interface. The left sidebar contains navigation options: New..., Home, Explore, Bundles, My Jobs, My Import/Export Logs, and a selected item TE_FA_IICS_MIS_H... The main workspace is titled 'TE_FA_IICS_MIS_HEALTHCARE_SCD1' and shows a 'Valid' status. The 'Design' tab is active, displaying a data flow diagram with three components: 'HEALTH_DATASET_IICS', 'Expression_Flag', and 'Sequence_pot_key'. The 'Properties' tab is open for the 'HEALTH_DATASET_IICS' component. The 'Source' sub-tab is selected, showing the following configuration:

- Connection: Shraavan_Kumar (SQL Server)
- Source Type: Single Object
- Object: iics_Health_Care

Buttons for 'View...', 'New Connection...', 'New Parameter...', 'Select...', and 'Preview Data...' are visible. The 'Query Options' and 'Advanced' sections are also present but collapsed.

Expression for Calculating Hash Function

The screenshot shows the Informatica Data Integration interface with the 'Expression_Checksum' component selected in the 'Properties' tab. The 'Expression' sub-tab is active, displaying a table of fields and their corresponding expressions:

Field	Expression
O_PID	PID
O_AGE	AGE
O_CATEGORY_NAME	CATEGORY_NAME
O_DISTRICT_NAME	DISTRICT_NAME
O_PREAUTH_AMT	PREAUTH_AMT
O_CLAIM_AMOUNT	CLAIM_AMOUNT
O_HOSP_NAME	HOSP_NAME
O_CHECKSUM	MD5(PID AGE DISTRICT_NAME CATEGORY_NAME)

Connecting Lookup Destination Table

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Valid

Save Run

Design

LOOKUP

General

Incoming Fields

Lookup Object

Lookup Condition

Return Fields

Advanced

Lookup Object Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Source Type: Single Object

Lookup Object: iics_Health_Care_tgt Select... Preview Data...

Multiple Matches: Return any row

Advanced

Lookup Condition

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Valid

Save Run

Design

LOOKUP

General

Incoming Fields

Lookup Object

Lookup Condition

Return Fields

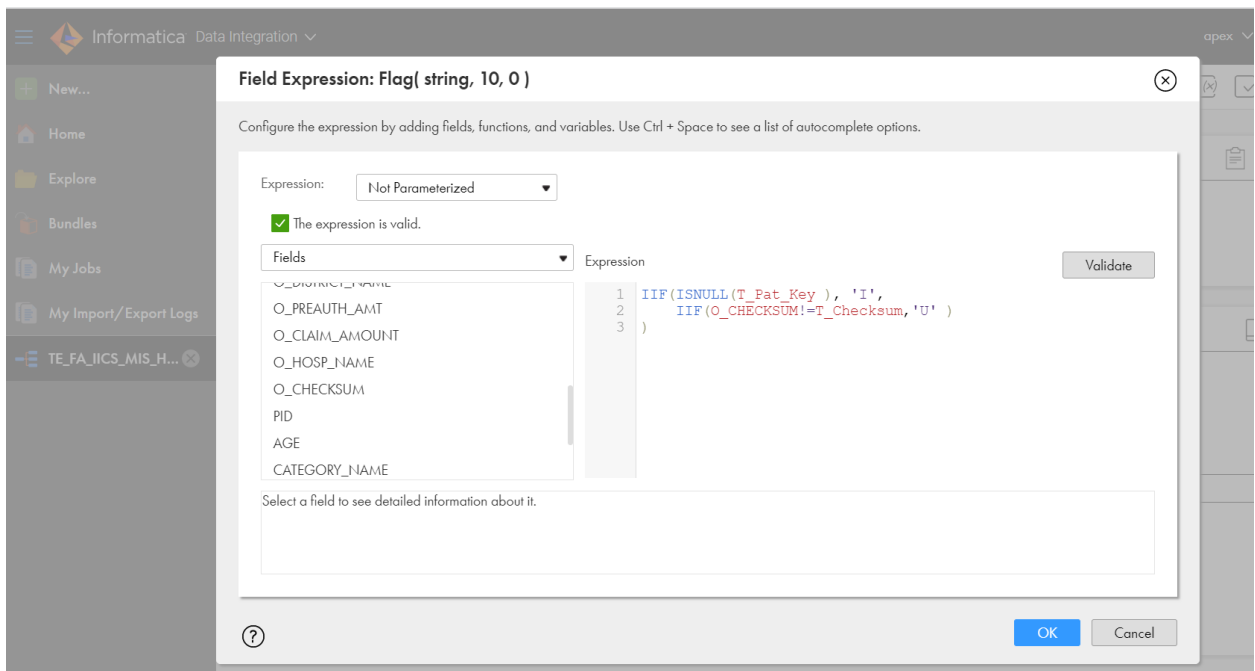
Advanced

Lookup Condition: Simple

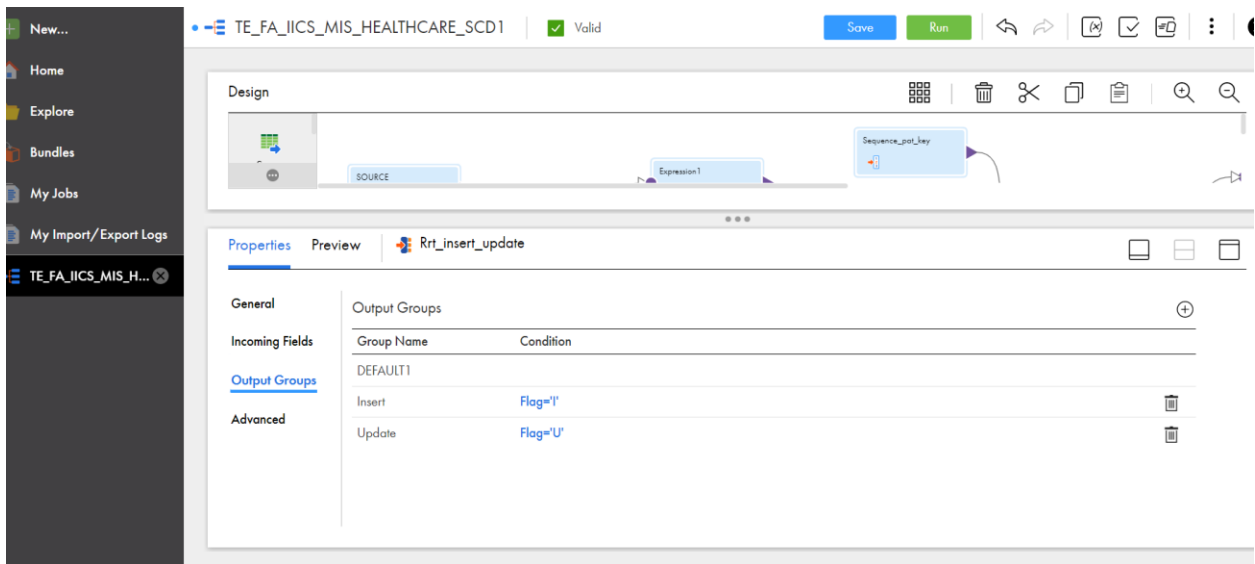
Lookup Conditions

Lookup Field	Operator	Incoming Field
T_PAT_KEY (integer)	=	O_PID (double)

Expression for Directing output



Condition for Routing



Sequence Generator

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Valid

Save Run

Design

Sequence_pat_key

Properties Preview Sequence_pat_key

General

Incoming Fields

Sequence

Advanced

Generated Fields

Increment By: 1

End Value: 9223372036854775807

Initial Value: 1

Cycle: ☐ Cycle: ☐

Cycle Start Value: 0

Number of Cached Values: 0

Reset: ☐ Reset: ☐

Expression for Giving next value

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Valid

Save Run

Design

Expression1 Sequence_pat_key HEALTH_IICS_TGT_INS

Properties Preview Expn_Insert

General

Incoming Fields

Expression

Window

Advanced

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Expressions

Field Name	Expression	Field Description
O_PAT_KEY	NEXTVAL	

Connecting Destination table

The screenshot shows the Informatica Designer interface for a workflow named "TE_FA_IICS_MIS_HEALTHCARE_SCD1". The status bar indicates the workflow is "Valid". The "Design" pane shows a sequence of components: "Source", "Expression1", "Sequence_Generator", and "HEALTH_insert". The "Properties" pane is open for the "HEALTH_insert" component, showing the "Target" tab. The configuration details are as follows:

Property	Value
Connection	Shravan_Kumar (SQL Server)
Target Type	Single Object
Object	iics_Health_Care_tgt
Operation	Insert
Truncate target	<input type="checkbox"/>

Settings Properties as update

The screenshot shows the Informatica Designer interface for the same workflow "TE_FA_IICS_MIS_HEALTHCARE_SCD1", but the status bar now indicates it is "Invalid". The "Design" pane shows a sequence of components: "Router", "Expn_Insert", and "HEALTH_update". The "Properties" pane is open for the "HEALTH_update" component, showing the "Target" tab. The configuration details are as follows:

Property	Value
Connection	Shravan_Kumar (SQL Server)
Target Type	Single Object
Object	iics_Health_Care_tgt
Operation	Update
Update Columns	T_PAT_KEY

Below the "Target" tab, there is an "Advanced" section which is currently collapsed.

Expression for same value

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Invalid

Save Run

Design

Source Target

Expression 1

Sequence_Generator

Router

Expn_Insert

Properties Preview **Expn_Update**

Incoming Fields

Expression

Window

Advanced

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Expressions

Field Name	Expression	Field Description
O_PAT_KEY	T_PAT_KEY	

Package for iics_SCD1

TE_FA_IICS_MIS_HEALTHCARE_SCD1 | Valid

Save Run

Design

Source Target

Aggregator

Data Masking

Expression

SOURCE

Expression

LOOKUP

Expression1

Router

Sequence_Generator

Expn_Insert

HEALTH_Insert

Router

DEFAULT1

Insert

Update

Expn_Update

HEALTH_Update

Properties Preview **Expression**

460 Rows are passed

My Jobs

Data Integration

Jobs (2 of 23)

Updates available

Updated 2:50:17 AM PDT

Refresh

Sort

Filter

Find

Asset Name: TE_FA_IICS_MIS_HEA...

Add Field

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

Data is Inserted

--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 ;

```

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

Data is Updated in source

```
--Creating Destination table for iics Health 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 x

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

	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

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 x

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_DISTRICT
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
9	9	9	56	NEPHROLOGY	Srikakulam	12,500	Rims Govt.	Srikakulam

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 x

name	Value
Updated Rows	0
Query	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));

Connecting source

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Source

Expression1

ROUTER

Sequence

Exprn_Insert

INSERT

Exprn_Update

CLOSE

Properties Preview SOURCE

General

Source

Fields

Partitions

Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Source Type: Single Object

Object: iics_Health_Care Select... Preview Data...

Query Options

Expression for Checksum

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Expression

LOOKUP

Exprn_Update

UPDATE

Properties Preview Expression

General	O_PID	PID
	O_AGE	AGE
Incoming Fields	O_CATEGORY_NAME	CATEGORY_NAME
	O_DISTRICT_NAME	DISTRICT_NAME
	O_PREAUTH_AMT	PREAUTH_AMT
Window	O_HOSP_NAME	HOSP_NAME
Advanced	O_CHECKSUM	MD5(PID AGE DISTRICT_NAME CATEGORY_NAME)
	O_HOSP_DISTRICT	HOSP_DISTRICT

Connecting to Lookup Table

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

LOOKUP

Lookup Object Details

General

Incoming Fields

Lookup Object

Lookup Condition

Return Fields

Advanced

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Source Type: Single Object

Lookup Object: iics_Health_Care_tgt_scd2 Select... Preview Data...

Multiple Matches: Return any row

Advanced

lookup Condition for scd2

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

LOOKUP

Lookup Condition: Simple

Lookup Conditions

Lookup Field	Operator	Incoming Field
T_PID (float)	=	O_PID (double)

Routing Expression

Field Expression: Flag(string, 10, 0) ✕

Configure the expression by adding fields, functions, and variables. Use Ctrl + Space to see a list of autocomplete options.

Expression: Not Parameterized ▼

☒ The expression is valid.

Fields

T_PAT_KEY
T_PID
T_AGE
T_CATEGORY_NAME
T_DISTRICT_NAME
T_PREAUTH_AMT
T_HOSP_NAME

Expression

1 IIF(ISNULL(T_Pat_Key), 'I',
2 IIF(O_CHECKSUM != T_Checksum, 'U')
3)

Validate

Select a field to see detailed information about it.

? OK Cancel

Routing Transformation

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 Invalid Save Run ↶ ↷ ✕ ✓ ≡ ⋮ ✕

Design

```
graph LR; Source --> Expression; Expression --> LOOKUP; LOOKUP --> ROUTER; ROUTER --> Exprn_Update; Exprn_Update --> CLC; ROUTER --> CLC;
```

Properties Preview ROUTER

General

Output Groups +

Group Name	Condition
DEFAULT1	
Insert	Flag='I'
Inst_Update	Flag='U'

Incoming Fields

Output Groups

Advanced

Sequence Generator

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Source

Expression1

Sequence

Expn_Insert

INSERT

Properties Preview Sequence

General

☐ Use a Shared Sequence

Incoming Fields

Sequence Properties

Sequence

Increment By: 1

End Value: 9223372036854775807

Initial Value: 1

Cycle: ☐ Cycle

Expression for Insert

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Source

Expression1

Sequence

Expn_Insert

INSERT

Properties Preview Expn_Insert

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Expressions

Field Name	Expression	Field Description
O_PAT_KEY	NEXTVAL	
O_START_DATE	SYSDATE	
O_END_DATE	TO_DATE('9999-12-31','YYYY-MM-DD')	

Expression for Close

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid | Save | Run

Design

Properties | Preview | Expn_Update

General

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Incoming Fields

Expressions

Field Name	Expression	Field Description
O_PAT_KEY	T_PAT_KEY	
O_END_DATE	SYSDATE	

Window

Advanced

Expression for Update and Insert

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid | Save | Run

Design

Properties | Preview | Expn_Inst_updt

General

Expressions

Field Name	Expression	Field Description
O_PAT_KEY	NEXTVAL	
O_START_DATE	SYSDATE	
O_END_DATE	TO_DATE('9999-12-31','YYYY-MM-DD')	

Window

Advanced

Connecting Destination with Insert as operation

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Properties Preview INSERT

General

Incoming Fields

Target

Target Fields

Field Mapping

Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Target Type: Single Object

Object: iics_Health_Care_tgt_scd2 Select... Preview Data...

Operation: Insert

☐ Truncate target

Connecting Destination with Update as Operation

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Properties Preview CLOSE

General

Incoming Fields

Target

Target Fields

Field Mapping

Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Target Type: Single Object

Object: iics_Health_Care_tgt_scd2 Select... Preview Data...

Operation: Update

Connecting Destination with Update

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Invalid

Save Run

Design

Source

Target

OUTER

DEFAULT1

Insert

Expn_Insert

Expn_Update

CLOSE

UPDATE

Properties Preview UPDATE

General

Incoming Fields

Target

Target Fields

Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Target Type: Single Object

Object: iics_Health_Care_tgt_scd2 Select... Preview Data...

SCD2 Package

TE_FE_IICS_MIS_HEALTH_CARE_SCD2 | Valid

Save Run

Design

Source

Target

Aggregator

Data Masking

SOURCE

Expression

LOOKUP

Expression1

ROUTER

DEFAULT1

Insert

Inst_Update

Expn_Update

CLOSE

Properties Preview CLOSE


General

Name: CLOSE




Description:



Incoming Fields

All 460 Rows are added

 My Jobs | Data Integration

Jobs (1 items found)

Updated 3:27:21 AM PDT   

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 ;

```

T_DISTRICT_NAME	T_PREAUTH_AMT	T_HOSP_NAME	T_HOSP_DISTRICT	START_DATE	END_DATE	T_CHECKSUM
Idupi	12,500	Rims Govt.	Srikakulam	2022-10-07	9999-12-31	D173BE438B

Data is updated in Source Table

<sravan> Shravan.sql

<diitne> Diitne.sql

<sravan> Script-22

```

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 x

SELECT * FROM iics_Health_Care

Enter a SQL expression to filter results (use Ctrl+Space)

	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
9	9	55	CARDIAC AND CARDIOTHORACIC SURGERY	Kurnool	12,500	Queens Nri Hospitals	K

Page: 1 200 results fetched - 328ms (36ms fetch) on 2022-11-07 03:32:08 AM PDT

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, 3:32 AM	2	Success
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:47 AM	Oct 7, 2022, 2:47 AM	0	Failed
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:49 AM	Oct 7, 2022, 2:49 AM	460	Success
TE_FA_IICS_MIS_HEAL...	Shravan_iics		Oct 7, 2022, 2:54 AM	Oct 7, 2022, 2:54 AM	1	Success

One row is inserted

```
--Creating Table
CREATE TABLE iics_Health_Care_tgt_scd2 (
    T_PAT_KEY INT,
    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 x

ELECT * FROM iics_Health_Care_tgt_scd2

123 T_PAT_KEY	123 T_PID	123 T_AGE	abc T_CATEGORY_NAME	abc T_DISTRICT_NAME	123 T_PREAUTH_AMT	abc T_HOSP_NAME	abc 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

New Replication Task6

1 Source 2 Target 3 Field Exclusions 4 Data Filters 5 Schedule

Task Details

Task Name: TE_FA_IICS_MIS_REPLICATIO_TASK

Location: Shravan_iics

Description:

Source Details

Source Connection: Shravan_Kumar

Objects to Replicate: ☐ All Objects ☒ Include Objects

Car_Sales

Save < Back Next > Finish Cancel

Selecting Source

1 Source

2 Target

3 Field Exclusions

4 Data Filters

5 Schedule

Source Connection:*

Shravan_Kumar

View...

New...

Objects to Replicate:*

☐ All Objects ?

☒ Include Objects

Select...

Car_Sales

☐ Exclude Objects

Select...

If an error occurs while processing an object:

☒ Cancel processing the remaining objects

☐ Continue processing of the remaining objects

?

Save

< Back

Next >

Finish

Cancel

Connection of Target Table

New TE_FA_IICS_MIS_REPLICATIO_TASK

×

1 Source

2 Target

3 Field Exclusions

4 Data Filters

5 Schedule

Target Details

Connection:*

Shravan_Kumar

View...

New...

?

Target Prefix:

SF_

?

Enable Target Bulk Load

False

?

Replication Options

Load Type:?

☐ Incremental loads after initial full load

☐ Incremental loads after initial partial load

Initial load: Rows created or modified after

at

:

☒ Full load each run

Delete Options:

☒ Remove deleted columns and rows

☐ Retain deleted columns and rows

Advanced Options

?

Save

< Back

Next >

Finish

Cancel

Mapping Step 27 of 2024-04-11 AM

Filtering Number of Records

New TE_FA_IICS_MIS_REPLICATIO_TASK

1 Source

2 Target

3 Field Exclusions

4 Data Filters

5 Schedule

Row Limit

☒ Process all rows

☐ Process only the first rows

Data Filters

New...

There are no filters defined. The task will process all data from source.

?

Save

< Back

Next >

Finish

Cancel

Setting the Schedule

New TE_FA_IICS_MIS_REPLICATIO_TASK

1 Source

2 Target

3 Field Exclusions

4 Data Filters

5 Schedule

Schedule Details

☐ Do not run this task on a schedule ?

☒ Run this task on schedule: New... ?

Email Notification Options

☒ Use the default email notification options for my organization

☐ Use custom email notification options for this task:

Failure Email Notification:

Warning Email Notification:

Success Email Notification:

?

Save


< Back

Next >

Finish

Cancel

Replication Task

 TE_FA_IICS_MIS_REPLICATIO_TASK Edit Run Close

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 Refresh Sort Filter

Asset Name: TE_FA_IICS_MIS_REPL... Close Add Field

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

Data in Destination

```

T_CHECKSUM VARCHAR(100),
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 x

Enter a SQL expression to filter results (use Ctrl+Space)

	SUPPLIERID	SUPPLIERADDRESS	SUPPLIERNAME	SUPPLIERCONTACTDETAILS	PRODUCTID	CARMAKER	CARMODEL
1	1	542 Dayton Center	Bubbltube	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

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

4. Aggregate Transformation

Connecting Source Table

TE_FE_IICS_MIS_CAR_SHIPMENT_AGGRGATE Invalid Save Run

Design

Source Target

Properties Preview Source

General

Source

Fields

Partitions

Details

Connection: Shravan_Kumar (SQL Server) View... New Connection... New Parameter...

Source Type: Single Object

Object: Car_Sales Select... Preview Data...

Grouping By Shipmode

TE_FE_IICS_MIS_CAR_SHIPMENT_AGGRGATE | Invalid

Save Run

Design

target

Aggregator

Data Masking

Aggregator

Target

Properties Preview Aggregator

General

Select fields to group by so that the resulting records can be set of rows with the same values for some fields.

Group by: Not Parameterized

Group by Fields

Field Name

ShipDate (double)

Aggregate

Aggregate Functions

TE_FE_IICS_MIS_CAR_SHIPMENT_AGGRGATE | Valid

Save Run

Design

target

Aggregator

Data Masking

Aggregator

Target

Properties Preview Aggregator

General

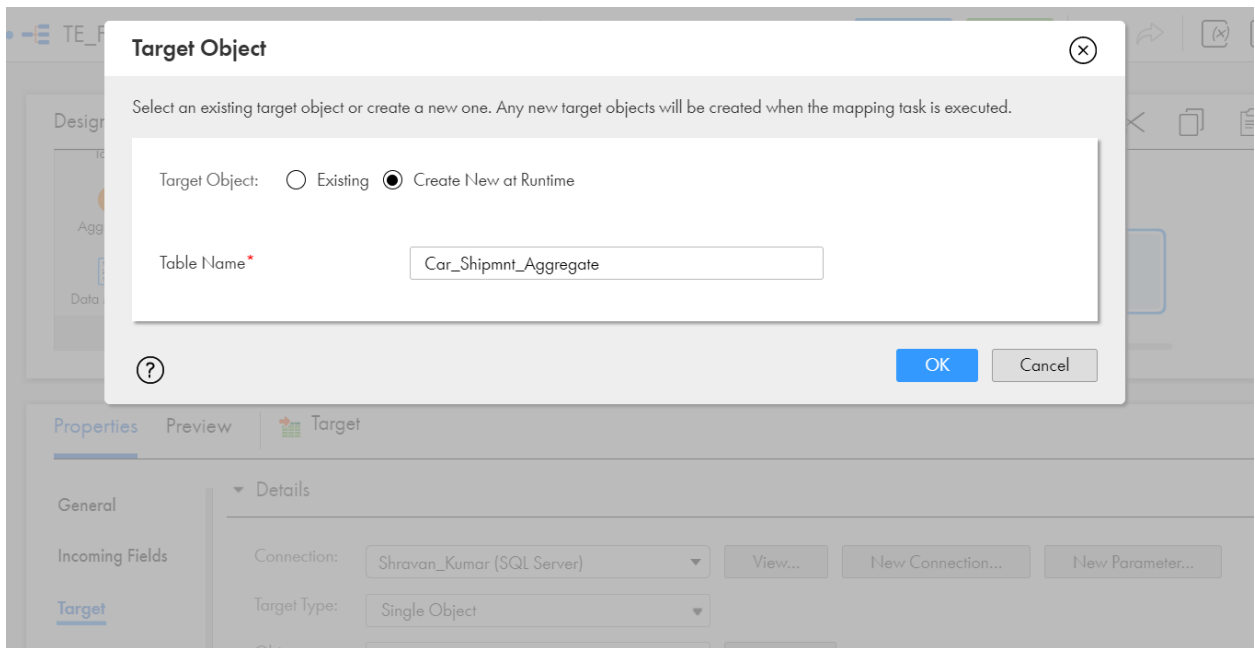
Field Name	Expression	Field Description
Total_Price	Sum(CarPrice)	
Car_sales	Sum(Sales)	
Minimum_Discount	Min(Quantity)	
Average_Discount	Avg(Discount)	

Incoming Fields

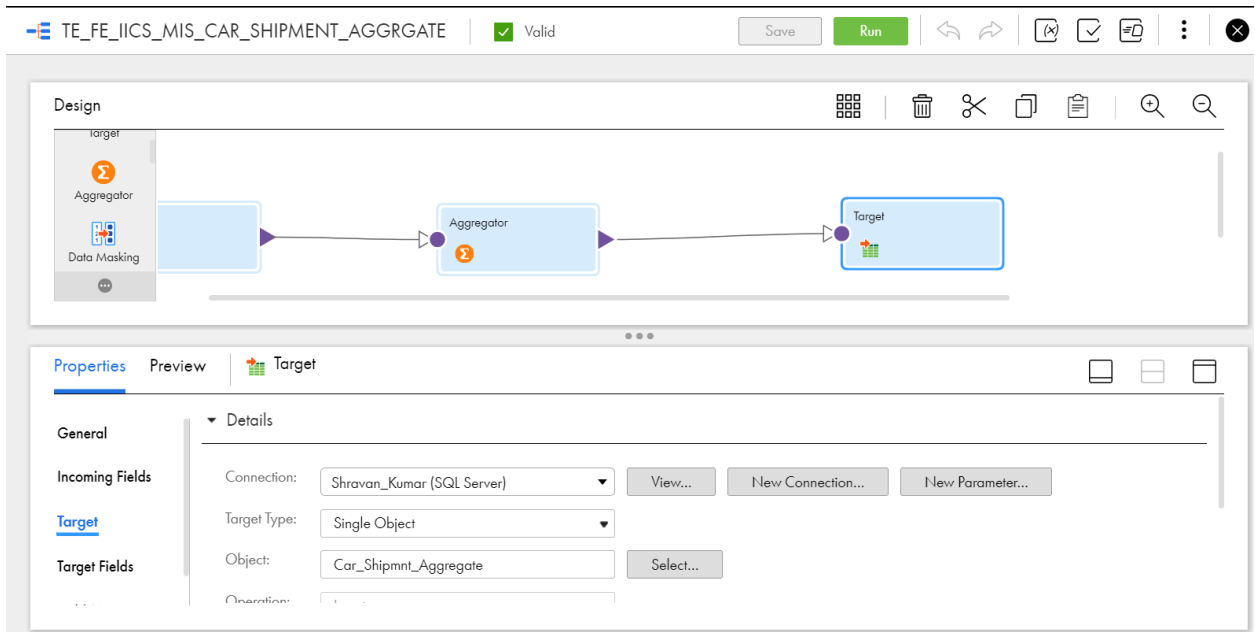
Group By

Aggregate

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
<div></div> TE_FE_IICS_MIS_CAR...	Shravan_iics		Oct 7, 2022, 3:58 AM	Oct 7, 2022, 3:...	168	<div></div> Success
<div></div> TE_FE_IICS_MIS_CAR...	Shravan_iics		Oct 7, 2022, 4:02 AM	Oct 7, 2022, 4:...	4	<div></div> Success
<div></div> TE_FE_IICS_MIS_CAR...	Shravan_iics		Oct 7, 2022, 4:03 AM	Oct 7, 2022, 4:...	4	<div></div> Success
<div></div> TE_FE_IICS_MIS_CAR...	Shravan_iics		Oct 7, 2022, 4:39 AM	Oct 7, 2022, 4:...	4	<div></div> Success

Aggregate Result

The screenshot shows the SQL Developer interface. The top pane contains a script with the following SQL code:

```

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 ;

SELECT * FROM Car_Shipmnt_Aggregate;

```

The bottom pane shows the results of the last query, "SELECT * FROM Car_Shipmnt_Aggregate". The results are displayed in a grid with the following columns: CreditCard, CustomerFeedback, Total_Price, Car_sales, Minimum_Discount, and Average_Discount. The grid shows 4 rows of data.

	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

The status bar at the bottom indicates "Rows: 1" and "4 row(s) fetched - 23.12s (1ms fetch) on 2023-10-07".

5. Rank Transformation

Connecting to Source table

The screenshot shows the Alteryx Designer interface with the file name "TE_FA_IICS_MIS_CINEMAS_RANK". The top toolbar includes buttons for "Save", "Run", and other standard actions. The "Design" pane on the left shows a "Source" node and a "Target" node. The main workspace displays a flow from the "Source" node to the "Target" node. The "Properties" pane on the right is open to the "Source" tab, showing the following details:

- General**
 - Connection: Shravan_Kumar (SQL Server) [View... New Connection... New Parameter...]
 - Source Type: Single Object
 - Object: Cinema_Entertainment [Select... Preview Data...]

Setting field for Rank

The screenshot shows the Alteryx Designer interface with the file name "TE_FA_IICS_MIS_CINEMAS_RANK". The top toolbar includes buttons for "Save", "Run", and other standard actions. The "Design" pane on the left shows a "Rank" node. The main workspace displays a flow from the "Source" node to the "Rank" node to the "Target" node. The "Properties" pane on the right is open to the "Rank" tab, showing the following details:

- General**
 - Rank By: * ticket_price (double)
 - Rank Order: * Top
 - Number of Rows

Setting Group by Field

The screenshot shows the SQL Server Data Tools (SSDT) interface. The top bar displays the project name "TE_FA_IICS_MIS_CINEMAS_RANK" and a status indicator "Invalid". The "Design" window shows a data flow from "Source" to "Rank" to "Target". The "Rank" task is selected, and the "Properties" window is open, showing the "Group By" tab. The "General" section has a description: "Select fields to group by so that the resulting records can be set of rows with the same values for some fields". The "Group By Fields" section has a "+" button and a "-" button. The "Field Name" section has a dropdown menu with "Film_Type (string)" selected.

Connecting to Destination table

The screenshot shows the SQL Server Data Tools (SSDT) interface. The top bar displays the project name "TE_FA_IICS_MIS_CINEMAS_RANK" and a status indicator "Invalid". The "Design" window shows a data flow from "Source" to "Rank" to "Target". The "Target" task is selected, and the "Properties" window is open, showing the "Details" tab. The "General" section has a description: "Select fields to group by so that the resulting records can be set of rows with the same values for some fields". The "Connection" section has a dropdown menu with "Shravan_Kumar (SQL Server)" selected. The "Target Type" section has a dropdown menu with "Single Object" selected. The "Object" section has a text box with "Cinema_Entertainment_Rank" and a "Select..." button.

Successful Execution of Rank Mapping

My Jobs		Data Integration				
Jobs (1 of 32)		Updated 9:39:25 PM PDT				
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

<shravan> Shravan.sql

<dlithe> Dlithe.sql

<shravan> 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)

Grid

Text

Record

	123 RANKINDEX	106 Film_Type	123 film_code	123 cinema_code	123 total_sales	123 tickets_sold	123 tickets_out	123 show_time	123 occu_perc	Value
61	60	Action	1,482	194	21,550,000	431	0	2	38	1
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	

Save

Cancel

Script

200

200+

Rows: 1

200 row(s) fetched - 74ms (9ms fetch), on 2022-10-C