

Making Connection of Source table in IICS

The screenshot shows the Informatica Data Integration Designer interface. The top navigation bar includes tabs for 'Informatica Intelligent Cloud', 'Data Integration', 'IICS JSON DATA READ', 'Untitled Diagram - diagram', and 'TietoEvy - Campus to Cloud'. The main workspace displays a mapping task named 'Nasreen_FA_IICS_SCD1' with a 'Valid' status. The design canvas shows a sequence of components: Source, Expression, Lookup, and Expression1. The 'Properties' panel on the right is open to the 'Source' tab, showing the 'Details' section. The 'Connection' is set to 'Nasreen (SQL Server)', 'Source Type' is 'Single Object', and the 'Object' is 'IICS_SCD2_healthcare_src'. The 'Query Options' section is also visible. The bottom status bar shows the system time as 9:01 PM on 10/10/2022.

Informatica Data Integration

Nasreen_FA_IICS_SCD1

Valid

Save Run

Design

Source

Expression

Lookup

Expression1

Properties Preview Source

General

Source

Fields

Partitions

Details

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

Source Type: Single Object

Object: IICS_SCD2_healthcare_src Select... Preview Data...

Query Options

https://apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/0AdMQDD4oV4dDIKEbf18g2/edit

72°F Cloudy

9:01 PM 10/10/2022

Creating output column in expression tool

The screenshot shows the Informatica Data Integration Designer interface, specifically the 'Expression' configuration for the mapping task 'Nasreen_FA_IICS_SCD1'. The 'Properties' panel on the right is open to the 'Expression' tab, showing the 'General' section. The 'Incoming Fields' section is empty. The 'Expressions' section contains a table with the following data:

| Field Name | Expression | Field Description |
|-----------------|--|-------------------|
| O_pid | PID | |
| O_gender | GENDER | |
| O_category_name | CATEGORY_NAME | |
| O_preauth_amt | PREAUTH_AMT | |
| O_claim_amt | CLAIM_AMOUNT | |
| O_checksum | MD5(PID GENDER CATEGORY_NAME PREAUTH_AA | |

The bottom status bar shows the system time as 9:01 PM on 10/10/2022.

Informatica Data Integration

Nasreen_FA_IICS_SCD1

Valid

Save Run

Properties Preview Expression

General

Incoming Fields

Expressions

| Field Name | Expression | Field Description |
|-----------------|--|-------------------|
| O_pid | PID | |
| O_gender | GENDER | |
| O_category_name | CATEGORY_NAME | |
| O_preauth_amt | PREAUTH_AMT | |
| O_claim_amt | CLAIM_AMOUNT | |
| O_checksum | MD5(PID GENDER CATEGORY_NAME PREAUTH_AA | |

72°F Cloudy

9:01 PM 10/10/2022

Giving target table connection in lookup

The screenshot shows the Informatica Data Integration Properties window for a Lookup object. The 'Lookup Object Details' section is expanded, showing the following configuration:

- Connection: Nasreen (SQL Server)
- Source Type: Single Object
- Lookup Object: FA_IICS_SCD1_healthcare_Irg
- Multiple Matches: Return any row

The 'Advanced' section is also visible but collapsed.

Assigning Lookup condition with source and target column

The screenshot shows the Informatica Data Integration Properties window for a Lookup object. The 'Lookup Condition' section is expanded, showing the following configuration:

- Lookup Condition: Simple
- Lookup Conditions table:

| Lookup Field | Operator | Incoming Field |
|--------------|----------|----------------|
| T_PID | = | O_pid |

Pass the data from from lookup to expression transformation create an output field flag and assign the below field expression to flag the records.

The screenshot shows the Informatica Data Integration Designer interface. The workflow diagram at the top consists of four components: Source, Expression, Lookup, and Expression_flag, connected in sequence. The 'Expression_flag' component is selected, and its properties are displayed in the lower pane. The 'General' tab is active, showing the 'Expression' section with a table of field expressions.

| Field Name | Expression | Field Description |
|------------|---|-------------------|
| Flag | IIF(ISNULL(T_key),'I', IIF(O_CHECKSUM!=T_checksum,'U')) | |

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 9:02 PM on 10/10/2022.

This screenshot shows a dialog box titled 'Field Expression: Flag(string, 10, 0)'. It is used for configuring the expression for the 'Flag' field. The 'Expression' dropdown is set to 'Not Parameterized'. A list of fields is shown on the left, including T_key, T_PID, T_GENDER, T_CATEGORY_NAME, T_PREAUTH_AMT, T_CLAIM_AMOUNT, and T_HOSP_NAME. The 'Expression' text area on the right contains the following code:

```
1 IIF (ISNULL(T_key), 'I', IIF (O_CHECKSUM!=T_checksum, 'U'))
```

A 'Validate' button is located next to the expression text area. At the bottom of the dialog, there is a 'Select a field to see detailed information about it.' section and 'OK' and 'Cancel' buttons. The background shows the same Informatica Designer interface as the previous screenshot.

Create two groups in Router to perform insert operation and insert update operation

The screenshot shows the Informatica Data Integration Router configuration interface. The left sidebar contains navigation options: New..., Home, Explore, Bundles, My Jobs, My Import/Export Logs, and a selected item 'Nasreen_FA_IICS_...'. The main panel displays the 'Router' configuration for 'Nasreen_FA_IICS_SCD1'. The 'Output Groups' tab is active, showing a table with two groups: 'insert' and 'insert_update'. The 'insert' group has a condition 'Flag="I"' and the 'insert_update' group has a condition 'Flag="IC"'. The 'Properties' tab is selected, and the 'Advanced' section is expanded.

| Group Name | Condition |
|---------------|-----------|
| insert | Flag="I" |
| insert_update | Flag="IC" |

The screenshot shows the same Informatica Data Integration Router configuration interface, but with a dialog box titled 'Edit Filter Condition for insert' open. The dialog box has a 'Filter Condition' dropdown set to 'Simple'. Below it, the 'Filter Conditions' section shows a table with one condition: 'Flag (string)' with an operator '=' and a value 'I'. The 'OK' button is highlighted.

| Field Name | Operator | Value |
|---------------|----------|-------|
| Flag (string) | = | I |

In Sequence transformation disable the incoming fields

The screenshot shows the Informatica Data Integration web interface. The left sidebar contains navigation options: New..., Home, Explore, Bundles, My Jobs, My Import/Export Logs, and a selected item 'Nasreen_FA_IICS_...'. The main panel displays the 'Properties' window for a 'Sequence' transformation. The 'General' tab is active, showing 'Tracing Level' set to 'Normal'. Under the 'Incoming Fields' section, the 'Optional' checkbox is checked, and the 'Disable incoming fields' checkbox is also checked. The 'Sequence' and 'Generated Fields' sections are empty. The bottom status bar shows the URL 'https://apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/0AdMQDD4oV4dDIKEbf18g2/edit', weather '72°F Cloudy', and system time '9:03 PM 10/10/2022'.

Take an Expression tool and make connection from sequence and router to expression tool and assign T_key column to nextval

The screenshot shows the Informatica Data Integration web interface with the 'Properties' window for an 'Exp_insert' transformation. The 'Expression' tab is active, displaying instructions: 'Create simple expressions. You can also use expression macros to create complex expressions.' and a checkbox 'Allow additional fields and expressions during task creation' which is unchecked. Below, an 'Expressions' table lists one entry: 'O_T_key' with the expression 'NEXTVAL'. The bottom status bar shows the URL 'https://apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/0AdMQDD4oV4dDIKEbf18g2/edit', weather '72°F Cloudy', and system time '9:04 PM 10/10/2022'.

| Field Name | Expression | Field Description |
|------------|------------|-------------------|
| O_T_key | NEXTVAL | |

Make Target connection by choosing target table

The screenshot shows the Informatica Data Integration web interface. The left sidebar contains navigation options: New..., Home, Explore, Bundles, My Jobs, and My Import/Export Logs. The main workspace displays the 'Target_insert' configuration window for the 'Nasreen_FA_IICS_SCD1' target. The 'Details' tab is active, showing the following settings:

- Connection: Nasreen (SQL Server)
- Target Type: Single Object
- Object: FA_IICS_SCD1_healthcare_trg
- Operation: Insert
- Truncate target: ☐
- Enable target bulk load: ☐

The 'Advanced' section is collapsed. The bottom status bar shows the URL: https://apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/0AdMQDD4oV4dDIKEbfl8g2/edit.

Do the field mapping in insert target

The screenshot shows the Informatica Data Integration web interface with the 'Field Mapping' configuration window for the 'Nasreen_FA_IICS_SCD1' target. The 'Field map options' are set to 'Manual'. The 'Incoming Fields' list contains 7 of 24 mapped fields, and the 'Target Fields' list contains 7 of 8 mapped fields. The mapping is as follows:

| Field Name | Mapped Field |
|-----------------|-----------------|
| O_T_key | O_T_key |
| Flag | O_pid |
| T_key | O_gender |
| T_PID | O_category_name |
| T_GENDER | O_preauth_amt |
| T_CATEGORY_NAME | O_claim_amt |
| T_PREAUTH_AMT | O_checkum |
| T_CLAIM_AMOUNT | |
| T_HOSP_NAME | |

The bottom status bar shows the URL: https://apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/0AdMQDD4oV4dDIKEbfl8g2/edit.

Make connection from router and sequence to Target-update tool and make target table connection.

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 'Nasreen_FA_IICS_...'. The main workspace displays the 'Target_update' tool configuration. The 'Properties' tab is active, showing the 'Details' section. The 'Connection' is set to 'Nasreen (SQL Server)'. The 'Target Type' is 'Single Object'. The 'Object' is 'FA_IICS_SCD1_healthcare_trg'. The 'Operation' is 'Update'. The 'Update Columns' are 'T_key'. The 'Advanced' section is collapsed. The bottom status bar shows the system clock as 9:05 PM on 10/10/2022.

Do the field mapping in Target-update table

The screenshot shows the Informatica Data Integration interface with the 'Target_update' tool configuration. The 'Field Mapping' tab is active, showing the 'Field map options' set to 'Manual'. The 'Incoming Fields' section lists 8 of 21 mapped fields: Flag, T_key, T_PID, T_GENDER, T_CATEGORY_NAME, T_PREAUTH_AMT, T_CLAIM_AMOUNT, T_HOSP_NAME, and T_checksum. The 'Target Fields' section lists 8 of 8 mapped fields: T_key, O_pid, O_gender, O_category_name, O_preauth_amt, O_claim_amt, T_HOSP_NAME, and O_checksum. The bottom status bar shows the system clock as 9:05 PM on 10/10/2022.

| Field Name | Mapped Field |
|-----------------|-----------------|
| T_key | T_key |
| T_PID | O_pid |
| T_GENDER | O_gender |
| T_CATEGORY_NAME | O_category_name |
| T_PREAUTH_AMT | O_preauth_amt |
| T_CLAIM_AMOUNT | O_claim_amt |
| T_HOSP_NAME | T_HOSP_NAME |
| T_checksum | O_checksum |

After Saving mapping run the mapping to get output

The screenshot shows the Informatica Data Integration Designer interface. A green notification bar at the top states "Mapping was saved successfully." The design canvas displays a workflow with the following components: Source, Expression (with an 'f' icon), Lookup, Expression_Bag (with an 'f' icon), Sequence, Router, Target_Insert (with an 'f' icon), and Target_Update (with an 'f' icon). The left sidebar contains a menu with options like New..., Home, Explore, Bundles, My Jobs, and My Import/Export Logs. The bottom status bar shows the system temperature as 73°F Cloudy and the time as 9:40 PM on 10/10/2022.

The screenshot displays the Informatica Data Integration Activity Log for the job "Nasreen_FA_IICS_SCD1-14". The job properties and results are as follows:

| Job Properties | | Results | |
|----------------------|--------------------------------|---------------|--------------------------------------|
| Task Name: | Nasreen_FA_IICS_SCD1 | Status: | Success |
| Instance ID: | 14 | Success Rows: | 1001 |
| Task Type: | Mapping | Errors: | 0 |
| Started By: | nasreen_i through UI | Session Log: | Download Session Log |
| Start Time: | Oct 10, 2022 8:44:27 AM | | |
| End Time: | Oct 10, 2022 8:47:06 AM | | |
| Duration: | 2 minutes, 39 seconds | | |
| Runtime Environment: | Informatica Cloud Hosted Agent | | |

| Individual Source/Target Results | | | | |
|---|--------------|--------|---------------|---------|
| Name | Success Rows | Errors | Error Message | Actions |
| Source | 1001 | 0 | | |
| Target_Update (FA_IICS_SCD1_healthcare_trg) | 0 | 0 | | |
| Target_Insert (FA_IICS_SCD1_healthcare_trg_1) | 1001 | 0 | | |

The bottom status bar shows the system temperature as 73°F Cloudy and the time as 9:42 PM on 10/10/2022.

Target table After running the mapping in iics

Database Navigator: Enter a part of object name here

- Nasreen_FA_LoanApproval
- Nasreen_FA_LoanApproval_trg
- Patient_details1
- SF_CINEMANASREEN_FA_CINI
- SF_FULL_DBATM_DETAILS
- SF_FULL_DBATM_DETAILS_DS
- SF_FULL_DBDEPT
- SF_FULL_DBDEPT_NF
- SF_FULL_DBDEPT_NF_DST
- SF_FULL_DBDIM_EMPLOYEES
- SF_FULL_DBEMPLOYEE
- SF_FULL_DBEMPLOYEE_NF
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPLSQL
- SF_FULL_DBEMPLSQL_DST
- SF_FULL_DBEMP DST

```
CREATE TABLE FA_IICS_SCD1_healthcare_trg (  
  [T_key] int,  
  [T_PID] int,  
  [T_GENDER] nvarchar(255),  
  [T_CATEGORY_NAME] nvarchar(255),  
  [T_PREAUTH_AMT] float,  
  [T_CLAIM_AMOUNT] float,  
  [T_HOSP_NAME] nvarchar(255),  
  [T_checksum] nvarchar(255)  
)  
  
select * from FA_IICS_SCD1_healthcare_trg  
  
--truncate table FA_IICS_SCD1_healthcare_trg
```

Results 1 x

select * from FA_IICS_SCD1_healthcare_trg

| T_key | T_PID | T_GENDER | T_CATEGORY_NAME | T_PREAUTH_AMT | T_CLAIM_AMOUNT | T_HOSP_NAME | T_checksum |
|-------|-------|----------|-----------------|---------------|----------------|-------------|------------|
| 1 | 1 | female | XYZ | 12,500 | 38,000 | [NULL] | 5788780EBD |
| 2 | 2 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 9CC2BE5684 |
| 3 | 3 | Male | NEPHROLOGY | 12,500 | 11,500 | [NULL] | B4EA9F4934 |
| 4 | 4 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | A0D6F488BC |
| 5 | 5 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 5620CCBCBA |
| 6 | 6 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 303B43CD79 |
| 7 | 7 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 94B7E7686E |
| 8 | 8 | Male | NEPHROLOGY | 12,500 | 5,000 | [NULL] | 92BBA7188D |
| 9 | 9 | Male | CARDIAC AN | 40,000 | 40,000 | [NULL] | AA4B152126 |

200+ Rows: 1 200 row(s) fetched - 316ms, on 2022-10-10 at 21:12

Now update any column of the source table and run the mapping

Database Navigator: Enter a part of object name here

- Nasreen_FA_LoanApproval
- Nasreen_FA_LoanApproval_trg
- Patient_details1
- SF_CINEMANASREEN_FA_CINI
- SF_FULL_DBATM_DETAILS
- SF_FULL_DBATM_DETAILS_DS
- SF_FULL_DBDEPT
- SF_FULL_DBDEPT_NF
- SF_FULL_DBDEPT_NF_DST
- SF_FULL_DBDIM_EMPLOYEES
- SF_FULL_DBEMPLOYEE
- SF_FULL_DBEMPLOYEE_NF
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPLSQL
- SF_FULL_DBEMPLSQL_DST
- SF_FULL_DBEMP DST

```
CREATE TABLE IICS_SCD2_healthcare_src(  
  [PID] float,  
  [GENDER] nvarchar(255),  
  [CATEGORY_NAME] nvarchar(255),  
  [PREAUTH_AMT] float,  
  [CLAIM_AMOUNT] float,  
  [HOSP_NAME] nvarchar(255)  
)  
  
select * from IICS_SCD2_healthcare_src  
  
update IICS_SCD2_healthcare_src  
set Category_name='ABC',gender='male' where PID = 1;
```

Statistics 1 x

| Name | Value |
|--------------|---|
| Updated Rows | 1 |
| Query | update IICS_SCD2_healthcare_src set Category_name='ABC',gender='male' where PID = 1; |
| Finish time | Mon Oct 10 21:13:35 IST 2022 |

1 Rows: 1 1 row(s) updated - 82ms, on 2022-10-10 at 21:13:35

Updated row appears in the table.

DBeaver 22.2.0 - <nasreen> IICS_dst

File Edit Navigate Search SQL Editor Database Window Help

Auto nasreen dbo@nasreen

Database Navigator Projects

Enter a part of object name here

- Nasreen_FA.LoanApproval
- Nasreen_FA.LoanApproval_trg
- Patient_details1
- SF_CINEMANASREEN_FA.CINI
- SF_FULL_DBATM_DETAILS
- SF_FULL_DBATM_DETAILS_DS
- SF_FULL_DBDEPT
- SF_FULL_DBDEPT_NF
- SF_FULL_DBDEPT_NF_DST
- SF_FULL_BDIM_EMPLOYEES
- SF_FULL_DBEMPLOYEE
- SF_FULL_DBEMPLOYEE_NF
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPL_SALARY_DS
- SF_FULL_DBEMPLSQL
- SF_FULL_DBEMPLSQL_DST
- SF_FULL_DBEMP DST

Project - General

Name DataSource

- Bookmarks
- Diagrams
- Scripts

```
update IICS_SCD2_healthcare_src
set Category_name='ABC',gender='male' where PID = 1;

-----IICS SCD1 trg table-----
CREATE TABLE FA_IICS_SCD1_healthcare_trg (
[T_key] int,
[T_PID] int,
[T_GENDER] nvarchar(255),
[T_CATEGORY_NAME] nvarchar(255),
[T_PREAUTH_AMT] float,
[T_CLAIM_AMOUNT] float,
[T_HOSP_NAME] nvarchar(255),
[T_checksum] nvarchar(255)
)

select * from FA_IICS_SCD1_healthcare_trg
```

Results 1 x

select * from FA_IICS_SCD1_healthcare_trg

| Grid | T_key | T_PID | T_GENDER | T_CATEGORY_NAME | T_PREAUTH_AMT | T_CLAIM_AMOUNT | T_HOSP_NAME | T_checksum |
|------|-------|-------|----------|-----------------|---------------|----------------|-------------|------------|
| 1 | 1 | 1 | male | ABC | 12,500 | 38,000 | [NULL] | CF4084C02A |
| 2 | 2 | 2 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 9CC28E5684 |
| 3 | 3 | 3 | Male | NEPHROLOGY | 12,500 | 11,500 | [NULL] | B4EA9F4934 |
| 4 | 4 | 4 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | A0D6F48B8C |
| 5 | 5 | 5 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 5620CCBCBA |
| 6 | 6 | 6 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 303843CD79 |
| 7 | 7 | 7 | Male | NEPHROLOGY | 12,500 | 11,000 | [NULL] | 9487E7686E |
| 8 | 8 | 8 | Male | NEPHROLOGY | 12,500 | 5,000 | [NULL] | 92BBA7188D |
| 9 | 9 | 9 | Male | CARDIAC AN | 40,000 | 40,000 | [NULL] | AA4B152126 |

Save Cancel Script 200 200+ Rows: 1 200 row(s) fetched - 254ms, on 2022-10-10 at 21:18

IST en Writable Smart Insert 131 : 1 : 2633 Sel: 0 | 0

73°F Cloudy 9:19 PM 10/10/2022