

Data Source- COVID

IICS SCD2 Manual

IICS_SCD2_M_STEP1

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, SCD2_Customer, SCD2_custom, TE_FA_SCD2, and TE_FA_SCD1_COVID (selected). The main workspace is titled 'TE_FA_SCD1_COVID' and shows a 'Design' canvas with a 'COVID_SOURCE' task. The 'Properties' pane for 'COVID_SOURCE' is open, showing the 'Source' tab. The 'Details' section includes: Connection: SQL_SUSH (SQL Server), Source Type: Single Object, and Object: TE_FA_COVID. The bottom status bar shows the date and time as 4:37 PM on 10/7/2022.

IICS_SCD2_M_STEP2

The screenshot shows the Informatica Data Integration web interface with the 'TE_FA_SCD1_COVID' mapping. The 'Design' canvas displays a flow: 'attribute_Expression' (f(x)) -> 'Lookup_TBL' -> 'Expression_Flag' (f(x)) -> 'Sequence_pot_key'. The 'Properties' pane for 'attribute_Expression' is open, showing the 'Expression' tab. The 'Expressions' section contains a table with the following data:

Field Name	Expression	Field Description
O_CHECKSUM	MD5(DRG_ID DRG_Definition Provider_Id Provider_N	

The bottom status bar shows the date and time as 4:37 PM on 10/7/2022.

IICS_SCD2_M_STEP3

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a workflow with the following components: **Source** (green icon) → **attribute_Expression** (blue box with 'fx' icon) → **Lookup_TBL** (blue box with 'p' icon) → **Expression_Flag** (blue box with 'fx' icon) → **Sequence_pot_key** (blue box with 'p' icon). The **Lookup_TBL** component is selected, and its properties are shown in the right-hand pane.

Properties - Lookup_TBL

- General**: Connection: SQL_SUSH (SQL Server), View..., New Connection..., New Parameter...
- Incoming Fields**: Source Type: Single Object
- Lookup Object**: Lookup Object: TE_FA_COVID_scd1_iics, Select..., Preview Data...
- Lookup Condition**: Multiple Matches: Return any row
- Return Fields**

The status bar at the bottom indicates the current session is **TE_FA_SCD1_COVID** and it is **Valid**. The system clock shows 4:37 PM on 10/7/2022.

IICS_SCD2_M_STEP4

The screenshot shows the Informatica Data Integration Designer interface, similar to the previous one, but with a custom lookup condition defined for the **Lookup_TBL** component.

Properties - Lookup_TBL

- General**: Connection: SQL_SUSH (SQL Server), View..., New Connection..., New Parameter...
- Incoming Fields**: Source Type: Single Object
- Lookup Object**: Lookup Object: TE_FA_COVID_scd1_iics, Select..., Preview Data...
- Lookup Condition**: Lookup Condition: Simple
- Return Fields**

The **Lookup Condition** section is expanded, showing a table with the following details:

Lookup Field	Operator	Incoming Field
Provider_Id	=	EXPProvider_Id

The status bar at the bottom indicates the current session is **TE_FA_SCD1_COVID** and it is **Valid**. The system clock shows 4:37 PM on 10/7/2022.

IICS_SCD2_M_STEP5

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a mapping named 'TE_FA_SCD1_COVID'. The design flow is as follows: Source → attribute_Expression → Lookup_TBL → Expression_Flag → Sequence_pot_key. The 'Expression_Flag' task is selected, and its properties are shown in the Properties pane.

Properties - Expression_Flag

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
Flag	IIF(ISNULL(Surr_key), 'I', IIF(EXPO_CHECKSUM=CHECKSUM	

Window: Advanced

IICS_SCD2_M_STEP6

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a mapping named 'TE_FA_SCD1_COVID'. The design flow is as follows: Source → Rrt_insert_update_COVID → Merge → Expression_Flag → Sequence_pot_key. The 'Rrt_insert_update_COVID' task is selected, and its properties are shown in the Properties pane.

Properties - Rrt_insert_update_COVID

General: Output Groups

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

Advanced

IICS_SCD2_M_STEP7

The screenshot shows the Informatica Data Integration Designer interface. The workflow is named "TE_FA_SCD1_COVID" and is in a "Valid" state. The design canvas shows a sequence of tasks: "Source" (green icon) feeds into "Expression_Flag" (blue icon with 'f(x)'), which then feeds into "Sequence_pat_key" (blue icon with a key symbol). "Sequence_pat_key" feeds into "Rit_Insert_update_COVID" (blue icon with a key symbol), which then feeds into "Expn_Insert" (blue icon with 'f(x)'), and finally into "Target_INSERT" (blue icon with a key symbol).

The "Properties" pane for the "Sequence_pat_key" task is displayed. It shows the "Output Fields" table:

Field Name	Type	Precision	Scale	Origin
NEXTVAL	bigint	19	0	Sequence_pat_key
CURRVAL	bigint	19	0	Sequence_pat_key

IICS_SCD2_M_STEP8

The screenshot shows the Informatica Data Integration Designer interface. The workflow is named "TE_FA_SCD1_COVID" and is in a "Valid" state. The design canvas shows a sequence of tasks: "Source" (green icon) feeds into "Sequence_pat_key" (blue icon with a key symbol), which then feeds into "Expn_Insert" (blue icon with 'f(x)'), and finally into "Target_INSERT" (blue icon with a key symbol). "Rit_Insert_update_COVID" (blue icon with a key symbol) also feeds into "Expn_Insert".

The "Properties" pane for the "Expn_Insert" task is displayed. It shows the "Expressions" table:

Field Name	Expression	Field Description
O_SURR_KEY	NEXTVAL	

IICS_SCD2_M_STEP9

The screenshot shows the Informatica Data Integration Studio interface. The left sidebar contains a navigation pane with options like New..., Home, Explore, Bundles, My Jobs, and My Import/Export Logs. The main workspace is titled "TE_FA_SCD1_COVID" and shows a design canvas with a "Source" icon, an "Expn_Update" task, and a "Target_INSERT_UPDATE" task. The "Expn_Update" task is selected, and its properties are displayed in the right pane. The "General" tab is active, showing the "Incoming Fields" section with a table of expressions.

Field Name	Expression	Field Description
O_SURRE_KEY	Surr_key	

The bottom status bar shows the system time as 4:38 PM on 10/7/2022.

IICS_SCD2_M_STEP10

The screenshot shows the Informatica Data Integration Studio interface. The left sidebar contains a navigation pane with options like New..., Home, Explore, Bundles, My Jobs, and My Import/Export Logs. The main workspace is titled "TE_FA_SCD1_COVID" and shows a design canvas with a "Source" icon, an "Expn_Insert" task, and a "Target_INSERT" task. The "Target_INSERT" task is selected, and its properties are displayed in the right pane. The "General" tab is active, showing the "Incoming Fields" section with a table of expressions.

Field Name	Expression	Field Description
O_SURRE_KEY	Surr_key	

The bottom status bar shows the system time as 4:38 PM on 10/7/2022.

IICS_SCD2_M_STEP11

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a mapping from a Source node to an Expn_Insert node, which then maps to a Target_INSERT node. The Properties panel for Target_INSERT is open, showing the following field mappings:

Field Name	Mapped Field
O_SURR_KEY	DRG_ID
Flag	DRG_Definition
DRG_ID	Provider_Id
DRG_Definition	Provider_Name
Provider_Id	Provider_Street_Address

IICS_SCD2_M_STEP12

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a mapping from a Source node to an Expn_Update node, which then maps to a Target_INSERT_UPDATE node. The Properties panel for Target_INSERT_UPDATE is open, showing the following configuration:

Property	Value
Connection	SQL_SUSH (SQL Server)
Target type	Single Object
Object	TE_FA_COVID_scd1_iics
Operation	Update
Update Columns	Surr_key

IICS_SCD2_M_STEP13

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a mapping from a Source to a Target_INSERT_UPDATE transformation. The Properties pane for Target_INSERT_UPDATE shows the following field mappings:

Field	Target Field
O_SURR_KEY	EXPDRG_ID
Flag	EXPDRG_Definition
DRG_ID	EXPProvider_Id
DRG_Definition	EXPProvider_Name
Provider_Id	EXPProvider_Street_Address
Provider_Name	EXPProvider_City

IICS_SCD2_M_RESULT

The screenshot shows the Informatica Data Integration Monitor interface. The Jobs list displays the following data:

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
TE_FA_SCD1_COVID-1	Sushmitha_iics		Oct 7, 2022, 4:01 A...	Oct 7, 2022, 4...	1639	Success
TE_FA_SCD2-3	Sushmitha_iics		Oct 7, 2022, 3:24 A...	Oct 7, 2022, 3...	4	Success
TE_FA_SCD2-2	Sushmitha_iics		Oct 7, 2022, 3:07 A...	Oct 7, 2022, 3...	946	Success
TE_FA_SCD2-1	Sushmitha_iics		Oct 7, 2022, 3:05 A...	Oct 7, 2022, 3...	0	Failed
TE_FA_Replication_Tas...	Sushmitha_iics	1 task	Oct 7, 2022, 12:23 ...	Oct 7, 2022, 1...	8514	Success
TE_FA_ReplicationTask-3	Sushmitha_iics	27 tasks	Oct 6, 2022, 11:09 ...	Oct 7, 2022, 1...	23548	Success
TE_FA_ReplicationTask-2	Sushmitha_iics	27 tasks	Oct 6, 2022, 11:06 ...	Oct 6, 2022, 1...	0	Failed
Replication Task6-1	Sushmitha_iics	27 tasks	Oct 6, 2022, 11:02 ...	Oct 6, 2022, 1...	0	Failed
TE_FA_SCD1-2	Sushmitha_iics		Oct 6, 2022, 10:28 ...	Oct 6, 2022, 1...	946	Success
TE_FA_SCD1-1	Sushmitha_iics		Oct 6, 2022, 10:07 ...	Oct 6, 2022, 1...	946	Success
TE_FA_Extract_transfor...	Sushmitha_iics		Oct 6, 2022, 9:35 PM	Oct 6, 2022, 9...	946	Success
mapping_Task-1	Sushmitha_iics		Oct 1, 2022, 4:39 A...	Oct 1, 2022, 4...	0	Failed

IICS_SCD2_M_RESULT

The screenshot shows the DBeaver 22.2.0 interface. The SQL Editor contains the following script:

```
Hospital_Referral_Region nvarchar(255) ,
Total_Discharges float ,
Average_Covered_Charges float ,
Average_Medicare_Payments float,
Surr_key bigint,
CHECKSUM VARCHAR(1000)
);

select * from TE_FA_COVID_scd1_iics ;
```

The Results tab displays a table with 14 rows and 7 columns:

DRG_ID	DRG_Definition	Provider_Id	Provider_Name	Provider_Street_Address	Provider_City	
101	SEIZURES W/O MCC	30.024	ST JOSEPH'S HOSPITAL AND MEDICAL CENTER	350 WEST THOMAS ROAD	PHOENIX	A
101	SEIZURES W/O MCC	30.036	CHANDLER REGIONAL MEDICAL CENTER	475 SOUTH DOBSON ROAD	CHANDLER	A
101	SEIZURES W/O MCC	30.038	SCOTTSDALE HEALTHCARE-OSBORN MEDICAL CENT	7400 EAST OSBORN ROAD	SCOTTSDALE	A
101	SEIZURES W/O MCC	30.061	BANNER BOSWELL MEDICAL CENTER	10401 WEST THUNDERBIRD BOULEVARD	SUN CITY	A
101	SEIZURES W/O MCC	30.064	UNIVERSITY OF ARIZONA MEDICAL CTR-UNIVERSIT	1501 NORTH CAMPBELL AVENUE	TUCSON	A
101	SEIZURES W/O MCC	30.065	BANNER DESERT MEDICAL CENTER	1400 SOUTH DOBSON ROAD	MESA	A
101	SEIZURES W/O MCC	30.085	NORTHWEST MEDICAL CENTER	6200 NORTH LA CHOLLA BOULEVARD	TUCSON	A
101	SEIZURES W/O MCC	30.088	BANNER BAYWOOD MEDICAL CENTER	6644 EAST BAYWOOD AVENUE	MESA	A
101	SEIZURES W/O MCC	30.089	BANNER THUNDERBIRD MEDICAL CENTER	5555 WEST THUNDERBIRD ROAD	GLENDALE	A
101	SEIZURES W/O MCC	30.093	BANNER DEL E WEBB MEDICAL CENTER	14502 WEST MEKER BOULEVARD	SUN CITY WEST	A
101	SEIZURES W/O MCC	30.094	ARROWHEAD HOSPITAL	18701 NORTH 67TH AVENUE	GLENDALE	A
101	SEIZURES W/O MCC	30.101	WESTERN ARIZONA REGIONAL MEDICAL CTR	2735 SILVER CREEK ROAD	BULLHEAD CITY	A
101	SEIZURES W/O MCC	30.103	MAYO CLINIC HOSPITAL	5777 EAST MAYO BOULEVARD	PHOENIX	A
101	SEIZURES W/O MCC	30.110	WEST VALLEY HOSPITAL	13677 WEST MCDOWELL ROAD	GOODYEAR	A

The status bar indicates: Rows: 1, 200 row(s) fetched - 164ms (13ms fetch), on 2022-10-07 at 4:39 PM.

IICS_SCD2_M_STEP14

The screenshot shows the DBeaver 22.2.0 interface. The SQL Editor contains the following script:

```
Average_Covered_Charges float ,
Average_Medicare_Payments float,
Surr_key bigint,
CHECKSUM VARCHAR(1000)
);

select * from TE_FA_COVID_scd1_iics ;
update TE_FA_COVID SET Provider_Name ='KMC',Provider_Street_Address ='MANGALORE' WHERE Provider_Id = 30038;
```

The Statistics tab displays the following information:

Name	Value
Updated Rows	1
Query	update TE_FA_COVID SET Provider_Name ='KMC',Provider_Street_Address ='MANGALORE' WHERE Provider_Id = 30038
Finish time	Fri Oct 07 16:41:10 IST 2022

The status bar indicates: Rows: 1, 1 row(s) updated - 67ms, on 2022-10-07 at 16:41:10.

IICS_SCD2_M_RESULT

The screenshot shows the Informatica Data Integration Designer interface. The design canvas displays a 'Source' connector and a 'Target' connector. The 'Target' connector is configured with the following properties:

General	Incoming Fields	Target Fields
O_SURR_KEY	DRG_ID	DRG_ID
Flag	DRG_Definition	DRG_Definition
	Provider_Id	Provider_Id
	Provider_Name	Provider_Name

The 'Field Mapping' tab shows the mapping of source fields to target fields:

Source Field	Target Field
O_SURR_KEY	EXPDRG_ID
Flag	EXPDRG_Definition
DRG_ID	EXPProvider_Id
DRG_Definition	EXPProvider_Name
Provider_Id	EXPProvider_Street_Address
Provider_Name	EXPProvider_City

IICS_SCD2_M_RESULT

The screenshot shows the DBeaver 22.2.0 interface. The SQL script editor displays the following script:

```
select * from TE_FA_COVID_scd1_iics ;
update TE_FA_COVID SET Provider_Name = 'KMC',Provider_Street_Address = 'MANGALORE' WHERE Provider_Id = 30038;
```

The 'Results 1' tab shows the following data:

DRG_Definition	Provider_Id	Provider_Name	Provider_Street_Address	Provider_City	Provider_State
SEIZURES W/O MCC	30,024	ST JOSEPH'S HOSPITAL AND MEDICAL CENTER	350 WEST THOMAS ROAD	PHOENIX	AZ
DYSEQUILIBRIUM	30,036	CHANDLER REGIONAL MEDICAL CENTER	475 SOUTH DOBSON ROAD	CHANDLER	AZ
SEIZURES W/O MCC	30,038	KMC	MANGALORE	SCOTTSDALE	AZ
DYSEQUILIBRIUM	30,061	BANNER BOSWELL MEDICAL CENTER	10401 WEST THUNDERBIRD BOULEVARD	SUN CITY	AZ
SEIZURES W/O MCC	30,064	UNIVERSITY OF ARIZONA MEDICAL CTR-UNIVERSIT	1501 NORTH CAMPBELL AVENUE	TUCSON	AZ
DYSEQUILIBRIUM	30,065	BANNER DESERT MEDICAL CENTER	1400 SOUTH DOBSON ROAD	MESA	AZ
SEIZURES W/O MCC	30,085	NORTHWEST MEDICAL CENTER	6200 NORTH LA CHOLLA BOULEVARD	TUCSON	AZ
DYSEQUILIBRIUM	30,088	BANNER BAYWOOD MEDICAL CENTER	6644 EAST BAYWOOD AVENUE	MESA	AZ
SEIZURES W/O MCC	30,089	BANNER THUNDERBIRD MEDICAL CENTER	5555 WEST THUNDERBIRD ROAD	GLENDALE	AZ
DYSEQUILIBRIUM	30,093	BANNER DEL E WEBB MEDICAL CENTER	14502 WEST MEERER BOULEVARD	SUN CITY WEST	AZ
SEIZURES W/O MCC	30,094	ARROWHEAD HOSPITAL	18701 NORTH 67TH AVENUE	GLENDALE	AZ
SEIZURES W/O MCC	30,101	WESTERN ARIZONA REGIONAL MEDICAL CTR	2735 SILVER CREEK ROAD	BULLHEAD CITY	AZ
SEIZURES W/O MCC	30,103	MAYO CLINIC HOSPITAL	5777 EAST MAYO BOULEVARD	PHOENIX	AZ
DYSEQUILIBRIUM	30,110	WEST VALLEY HOSPITAL	13677 WEST MCDOWELL ROAD	GOODYEAR	AZ
SEIZURES W/O MCC	30,112	BANNER THUNDERBIRD MEDICAL CENTER	10401 WEST THUNDERBIRD BOULEVARD	SUN CITY	AZ