



Informatica Power Center 9.0.1 **A Hands-On Guide for Dynamic Lookup Lab#22**

Description:

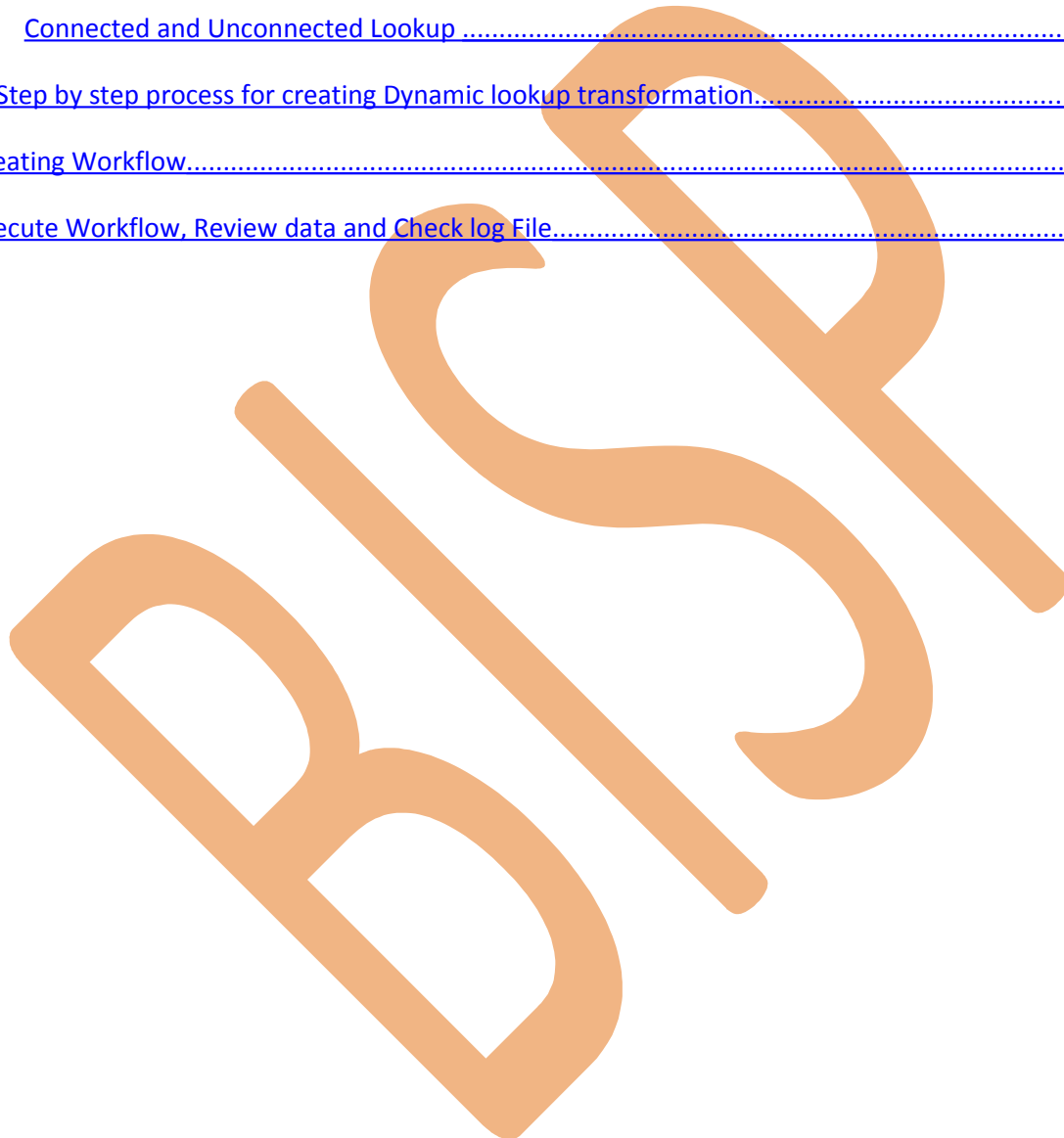
BISP is committed to provide BEST learning material to the beginners and advance learners. In the same series, we have prepared a complete end-to end Hands-on Guide for building financial data model in Informatica. The document focuses on how the real world requirement should be interpreted. The mapping document template with very simplified steps and screen shots makes the complete learning so easy. The document focuses on how to Dynamic Lookup. **Join our professional training program and learn from experts.**

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Upendra Upadhyay	12th Aug 2011
0.1	Review#1	Amit Sharma	18 th Aug 2011

Table of Contents

Table of Contents.....	2
TYPES	3
 Connected and Unconnected Lookup	3
 Step by step process for creating Dynamic lookup transformation.....	9
Creating Workflow.....	24
Execute Workflow, Review data and Check log File.....	32



Introduction: Lookup transformation is Passive and it can be both Connected and Unconnected as well. It is used to look up data in a relational table, view, or synonym. Lookup definition can be imported either from source or from target tables.

TYPES

We can configure the Lookup transformation to perform the following types of lookups:

- Relational or Flat File
- Cached or Un cached
- Connected or Unconnected

Relational Lookup: When we create a Lookup transformation using a relational table as a lookup source, we can connect to the lookup source using ODBC and import the table definition as the structure for the Lookup transformation.

- We can override the default SQL statement if we want to add a WHERE clause or query multiple tables.
- We can use a dynamic lookup cache with relational lookups.

Flat File Lookup: When we use a flat file for a lookup source, we can use any flat file definition in the repository, or we can import it. When we import a flat file lookup source, the Designer invokes the Flat File Wizard.

Cached or Un cached Lookup: We can check the option in Properties Tab to Cache to lookup or not. By default, lookup is cached.

Connected and Unconnected Lookup

Connected lookup: A connected lookup transformation receives source data, performs a lookup and returns data to the pipeline. We can use a dynamic or static cache and cache includes all lookup columns used in the mapping. And if there is no match for the lookup condition, the Informatica Power Center Server returns the default value for all output ports.

Unconnected Lookup: An Unconnected lookup receives values from: LKP expression from another transformation.. We can use a static cache and cache includes all lookup/output ports in the lookup condition and the lookup/return port. If there is no match for the lookup condition, then Informatica Power Center server returns NULL value.

Dynamic Lookups : Dynamic Lookups are used for implementing change the value during the session run. The ability to provide dynamic caching gives Informatica a definitive edge over other vendor products. In a Dynamic Lookup, every time a new record is found (based on the lookup condition) the Lookup Cache is appended with that record. It can also update existing records in the cache with the incoming values.

Difference B/W Dynamic and Static.

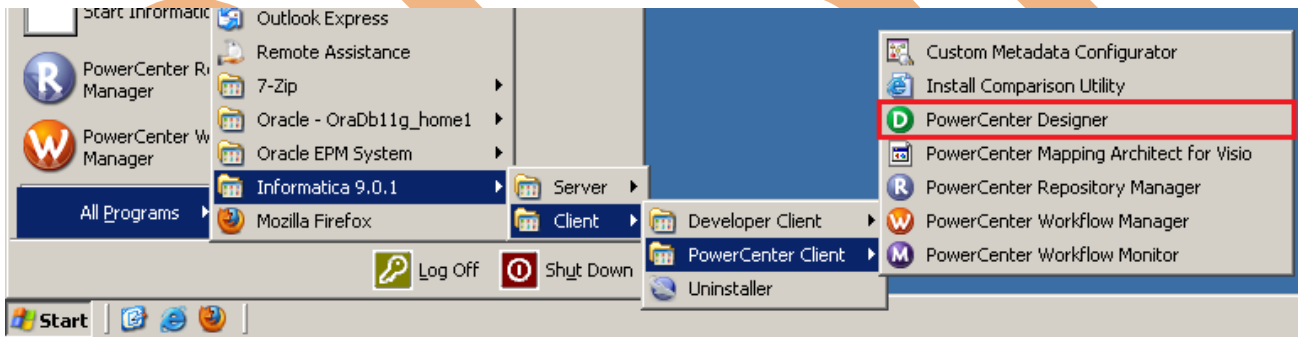
Dynamic Lookup	Static Lookup
Dynamic Lookups are used for implementing change the value during the session run	When static checked it assumes that the lookup source is not going to change the value during the session run.

Uses

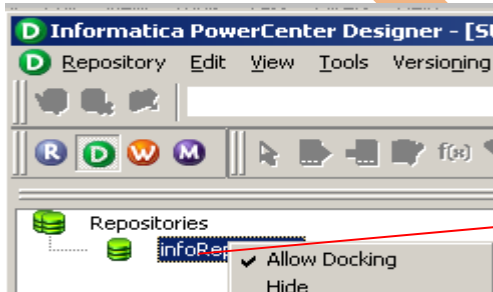
- Get related values.
- Verify if records exists or if data has changed.

Importing Source and Target Table: Import data from source and create target table (There are two types to create target table, Manually or import from database). There are following step to importing source and target database (Table).

Step-1 Click on Start > All Programs > Informatica 9.0.1 > Client > Power Center Client > Power Center Designer.

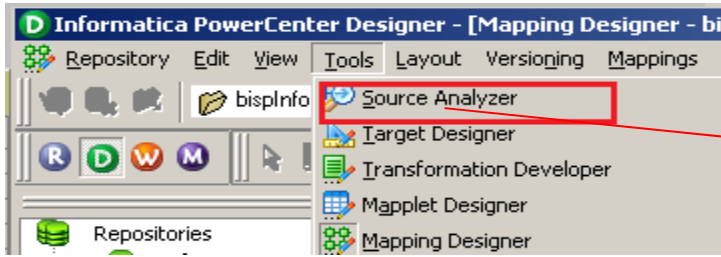


Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and click on Connect.



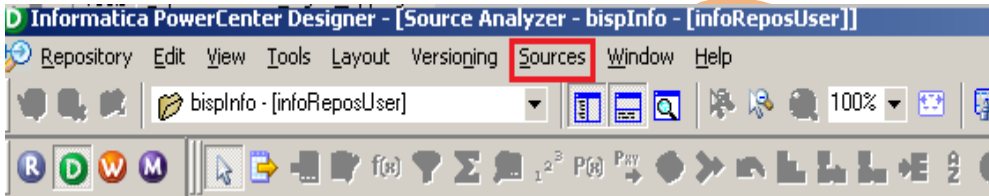
Right Click on InfoRepoUser.

Step-3 Go to Tools Menu and click on Source Analyzer to import source table.

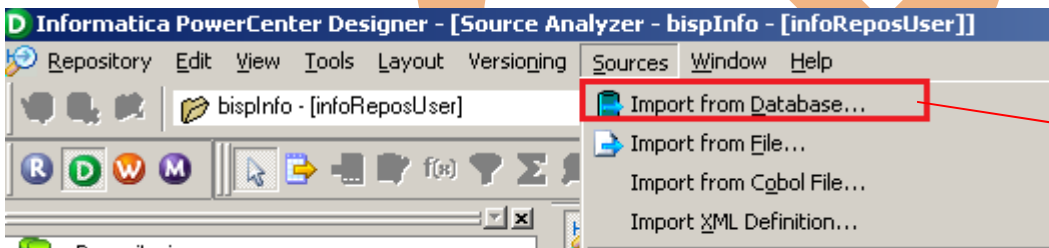


Select Source Analyzer

Step-4 And then go to Sources Menu in Informatica Power Center Designer.

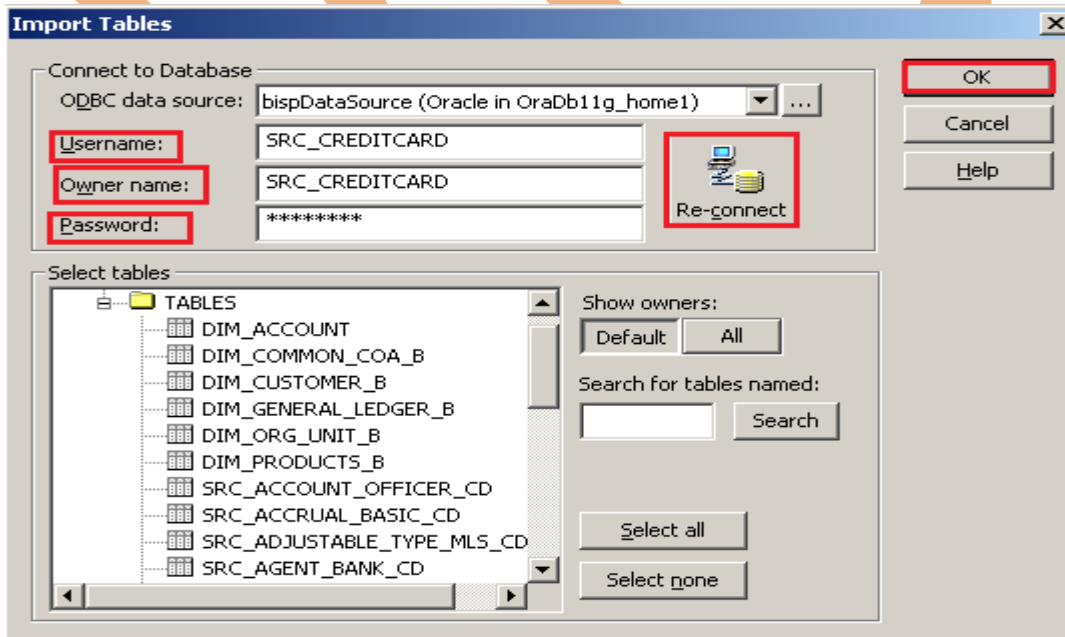


Step-5 And then select Source menu and click on Import from database. In Source menu, some another option available such as Import from File(Flatfile), Import from Cobol File and Import XML Definition.

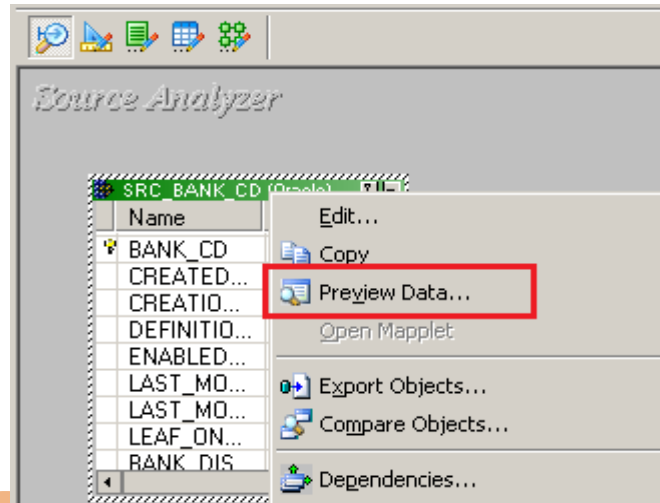
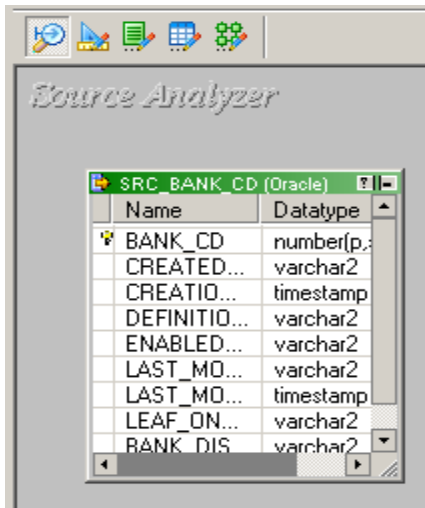


Click on Import from Database.

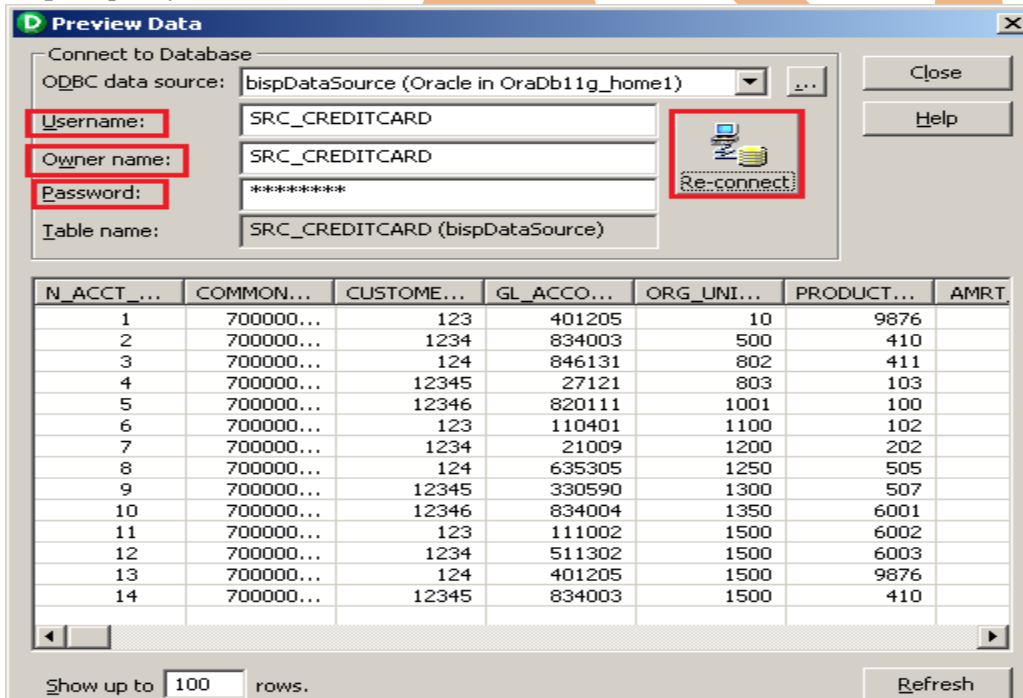
Step-6 Specify Username, Owner name, password and click on connect. Then select source table and click OK.



Step-7 View data in source analyzer, Right click on SRC_CREDITCARD and select Preview Data.



Step-8 Specify Username and Password and connect it. Then Close it.

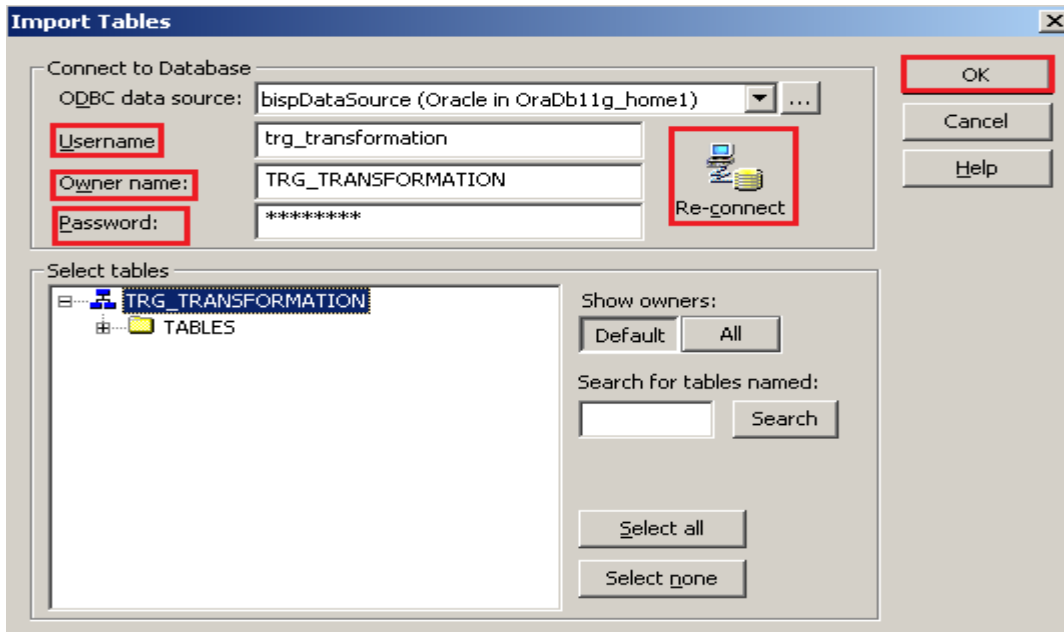


Step-9 Now click on Target Designer.

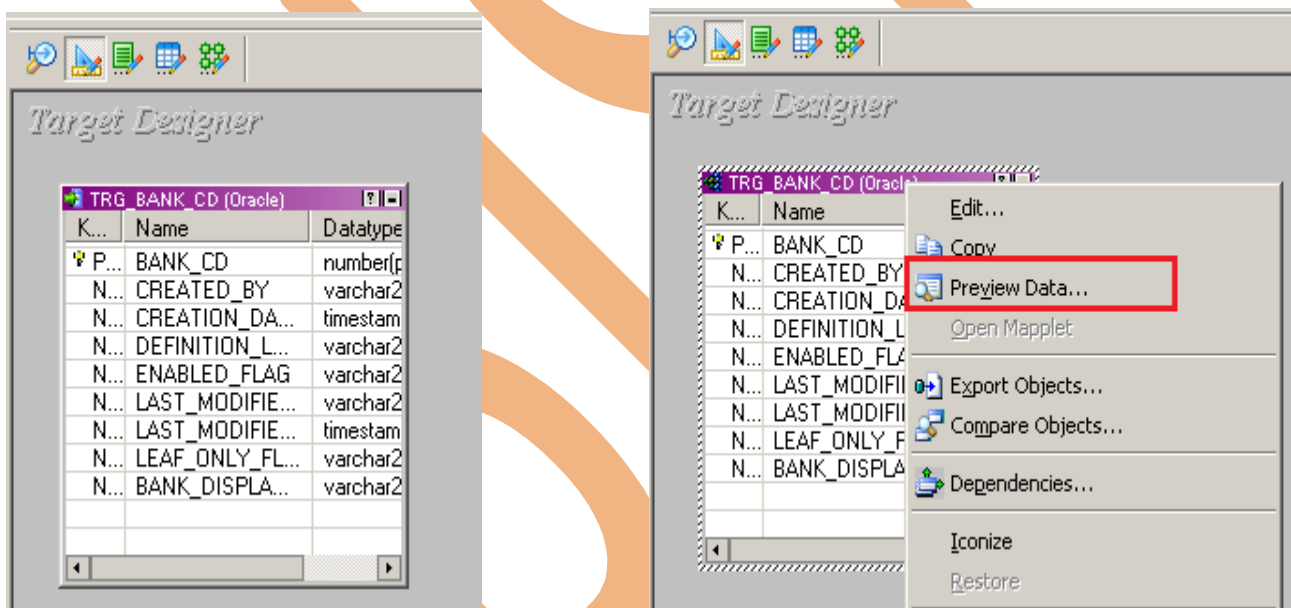
Step-10 And then select Target menu and click on Import from database to import target table.



Step-11 Specify Username, Owner name, password and then click on connect and then select table and then OK.



Step-12 To view data select table and Right click on that table after that specify Username and Password and connect it. Then Close it.



Step-13 Specify Username, Owner name and password.

Creating Source and Target Mapping: Mappings represent the data flow b/w sources to targets. When the Informatica Power Center Server executes a session, it uses the instructions configured in the mapping to read, transform, and write data.

Every mapping must contain the following components:

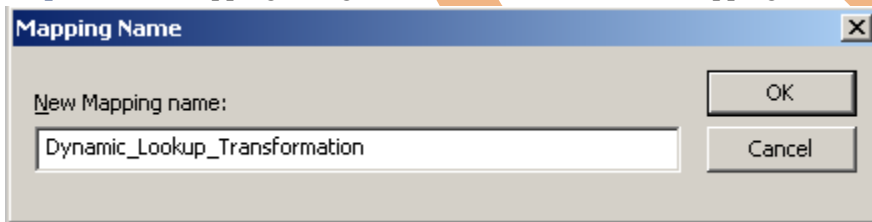
Source definition: It describes the characteristics of a source.

Transformation: A transformation is a repository object which reads the data, modifies the data and passes the data. Transformations in a mapping represent the operations that the integration service performs on the data.

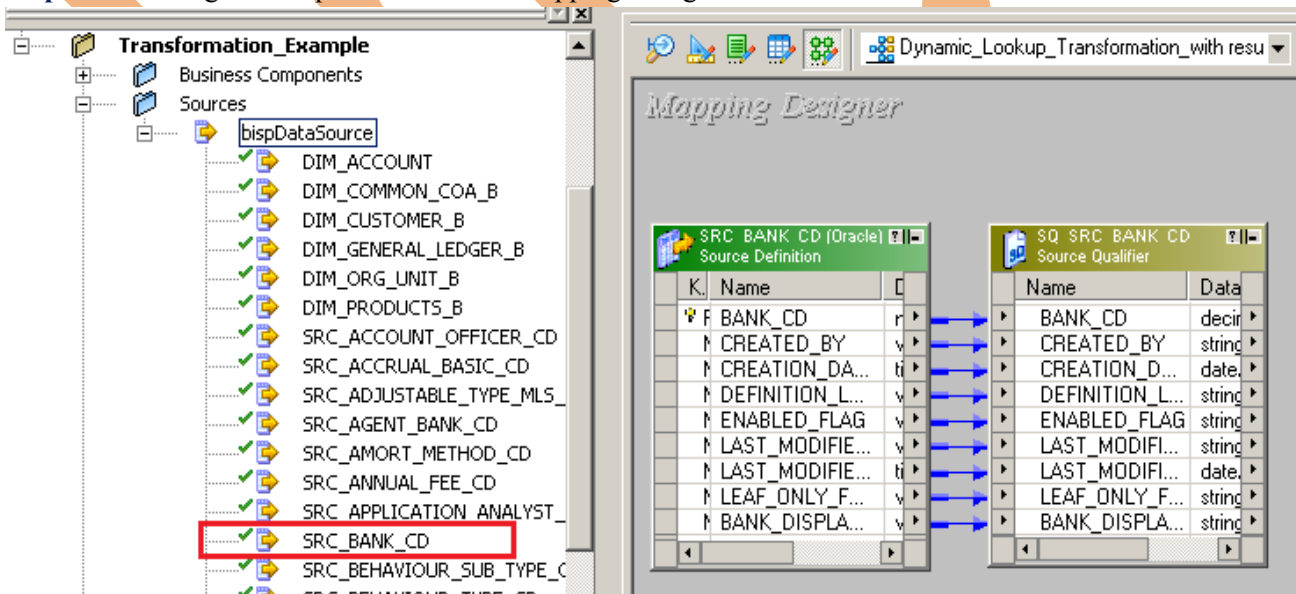
Target definition: It describes the target table.

Step by step process for creating Dynamic lookup transformation.

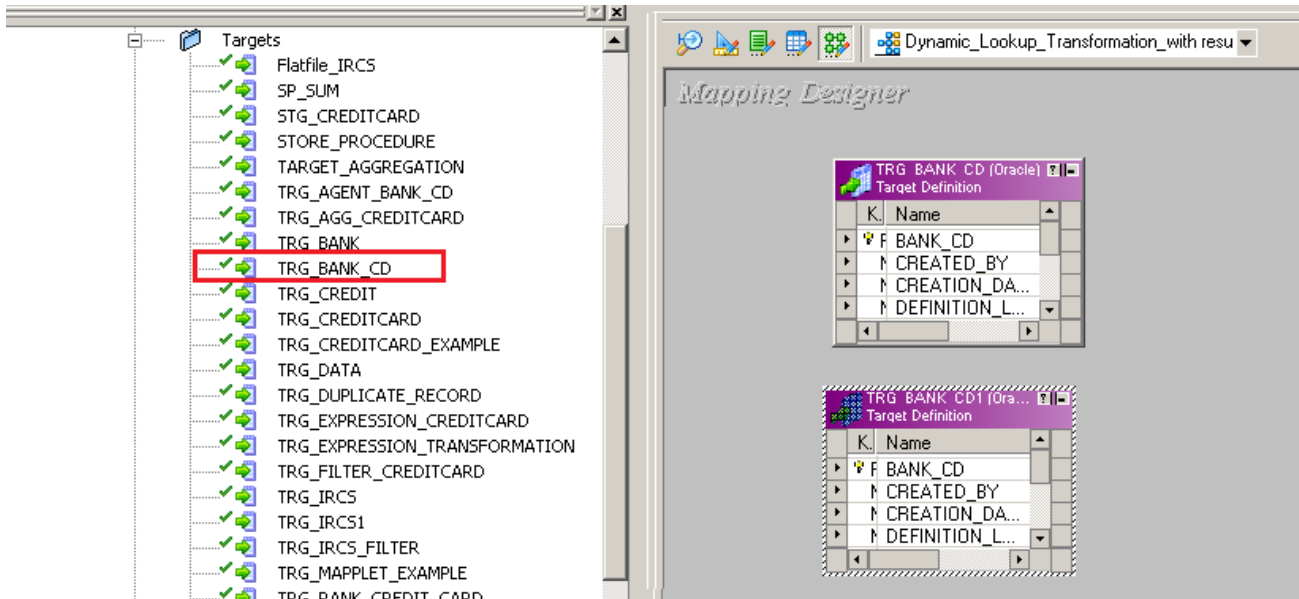
Step-1 Go to Mapping Designer  and Create New Mapping and then name of mapping and click OK.



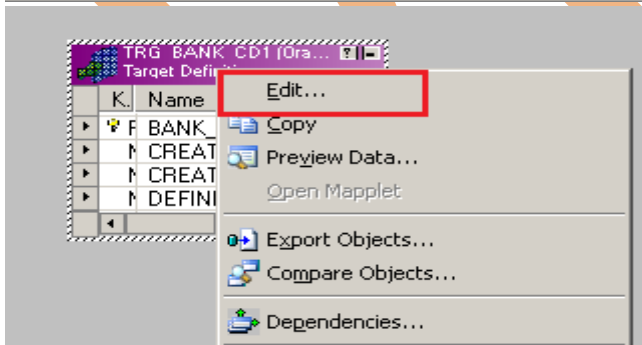
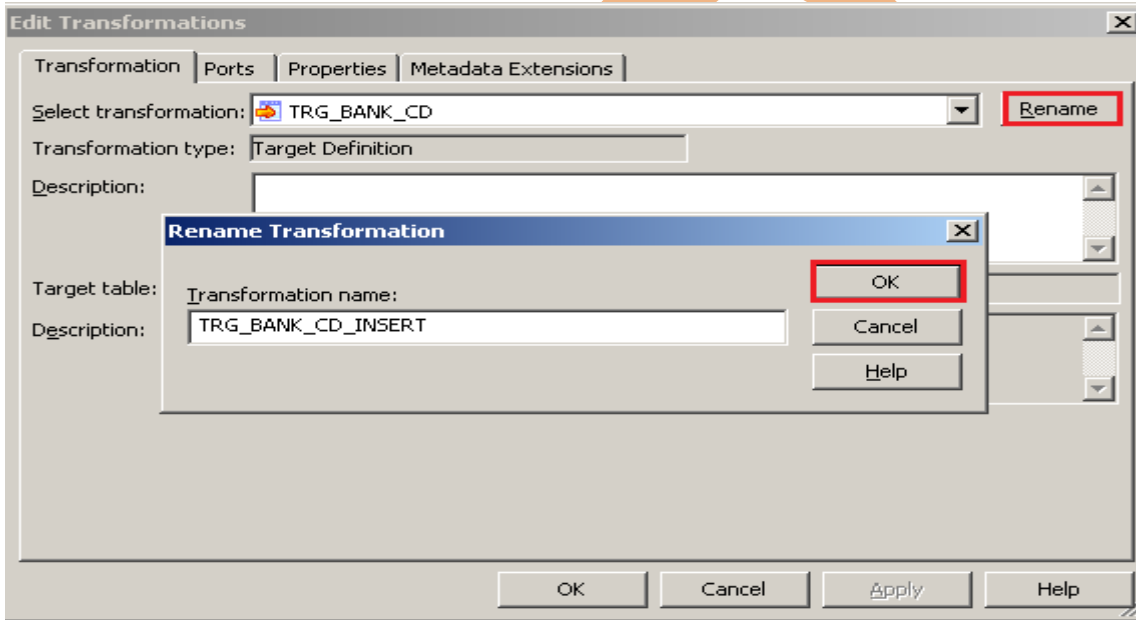
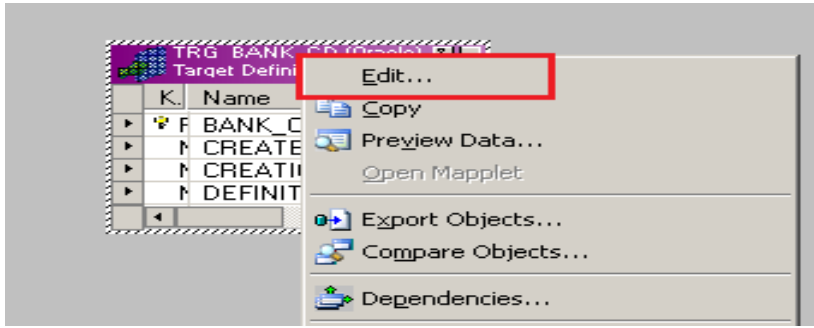
Step-2 Then drag and drop source table in Mapping Designer Window.

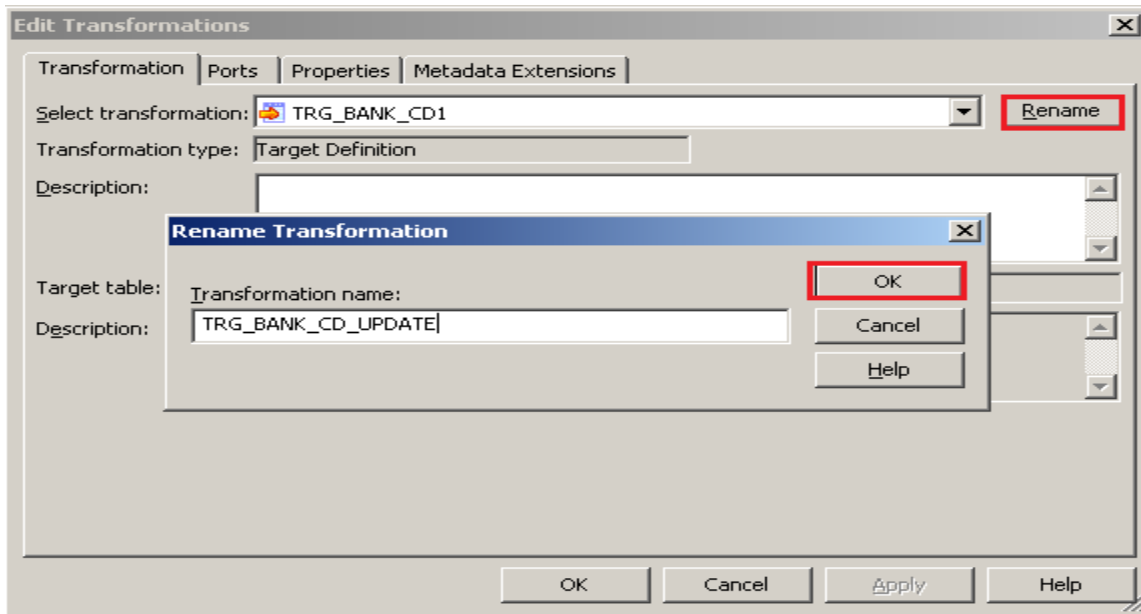


Step-3 Then drag and drop target table into mapping designer windows (Two times).

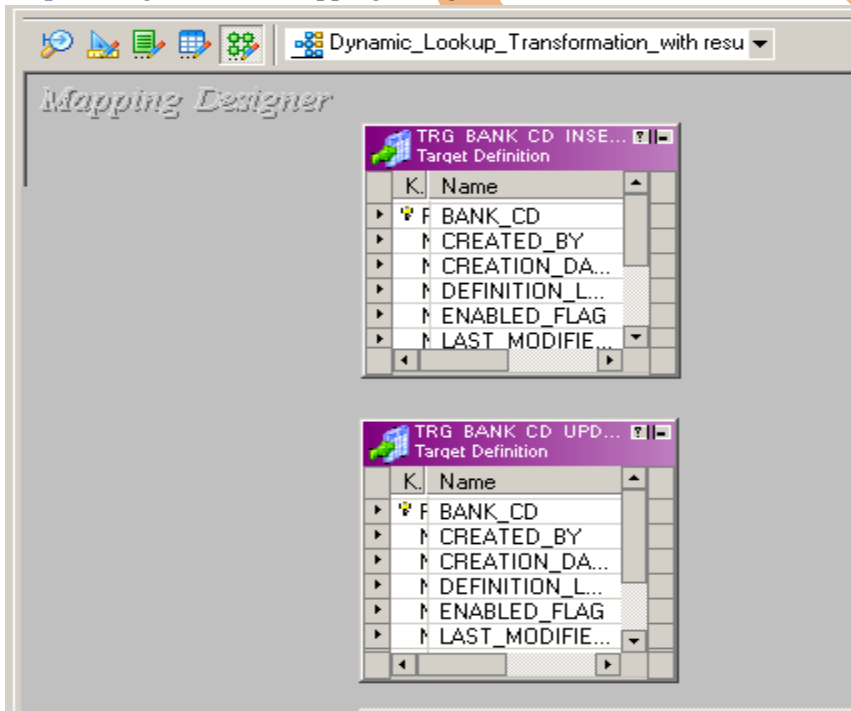


Step-4 And Edit target table name, right click on target table and select Edit, Then rename both target table.





Step-5 Target table in Mapping Designer Windows.



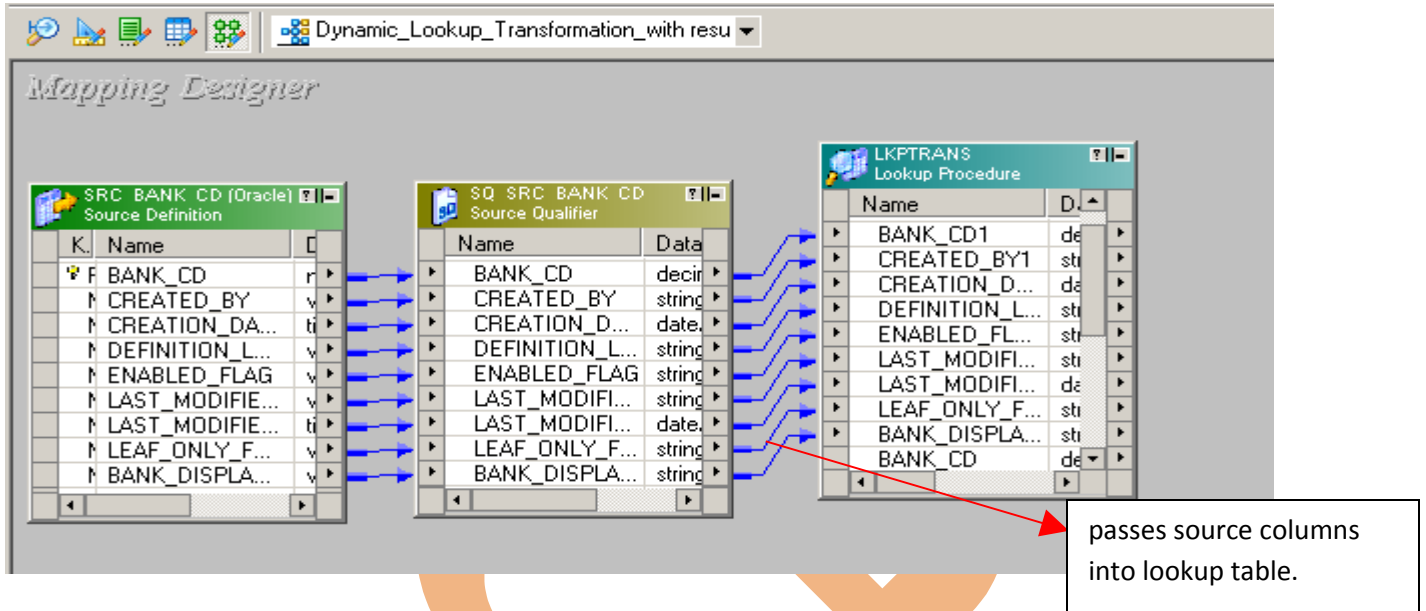
Step-6 Then Create lookup transformation, select Lookup in dropdown and give name of lookup transformation and the click Create, after that select lookup table for Lookup Transformation and click OK, then click Done.

The image shows two dialog boxes from a data integration tool. The first, 'Create Transformation', has a dropdown menu with 'Lookup' selected, highlighted by a red box. A callout box points to this dropdown with the text 'Select lookup table from Flatfile or RDBMS.'. The second dialog, 'Select Lookup Table for Lookup Transformation', has the 'Source Qualifier' tab selected, also highlighted by a red box. A callout box points to it with the text 'Select Lookup from Source Analyzer'. In this dialog, a list of tables is shown, with 'TRG_BANK_CD' selected and highlighted by a red box. A callout box points to this selection with the text 'Select lookup from Source Analyzer'. The 'OK' button in the second dialog is also highlighted by a red box, with a callout box pointing to it that says 'Select Lookup table from Target Designer Window.'.

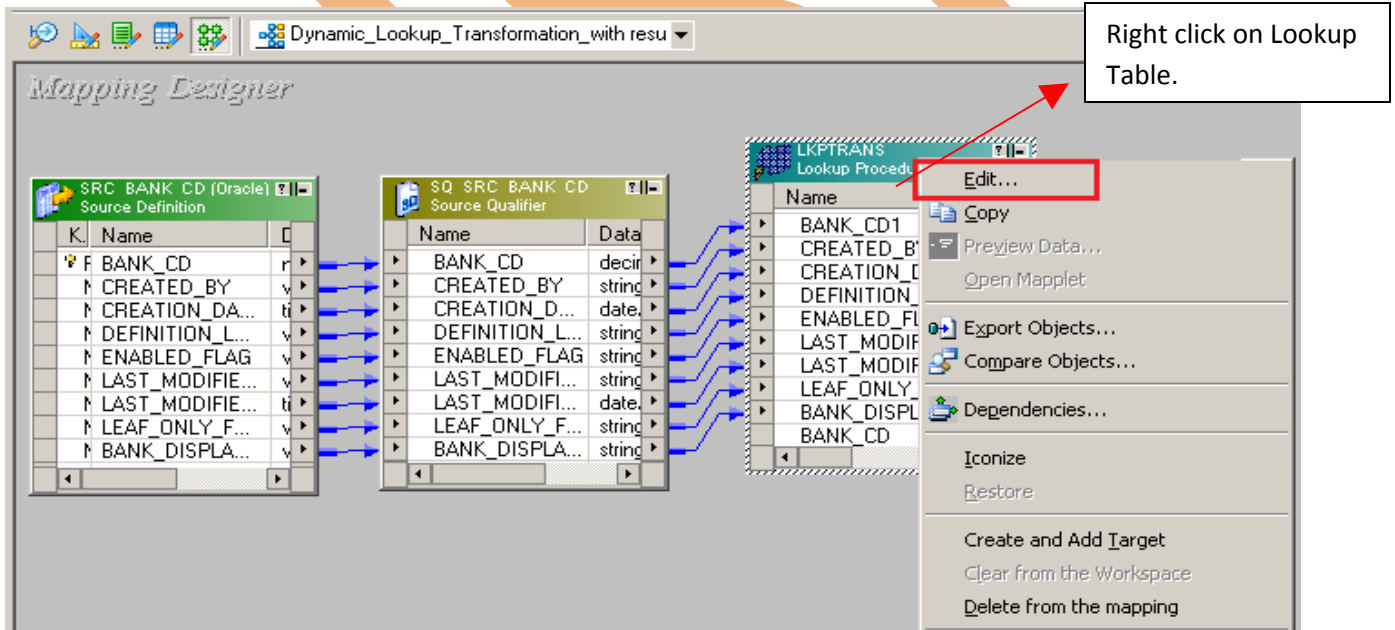
Step-7 Lookup Table in Mapping Designer window.

The image shows the Mapping Designer window. On the left, there is a 'Source Definition' table with columns 'K', 'Name', and 'D'. On the right, there is a 'Source Qualifier' table with columns 'Name' and 'Data'. Blue arrows indicate the mapping between columns in the source and target tables. In the bottom right corner, a 'Lookup Procedure' window is open, showing a table with columns 'Name' and 'D'. A callout box points to this window with the text 'Lookup table.'.

Step-8 Then pass source qualifier column into lookup table.



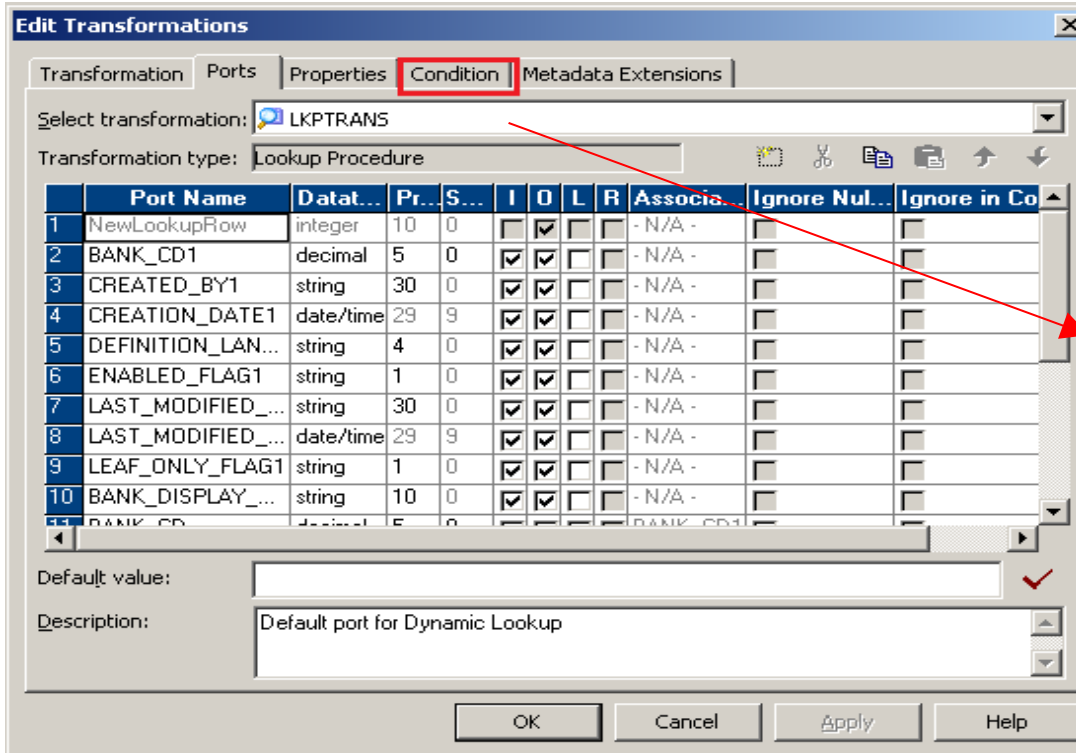
Step-9 Now, Right click on Lookup table and select Edit.



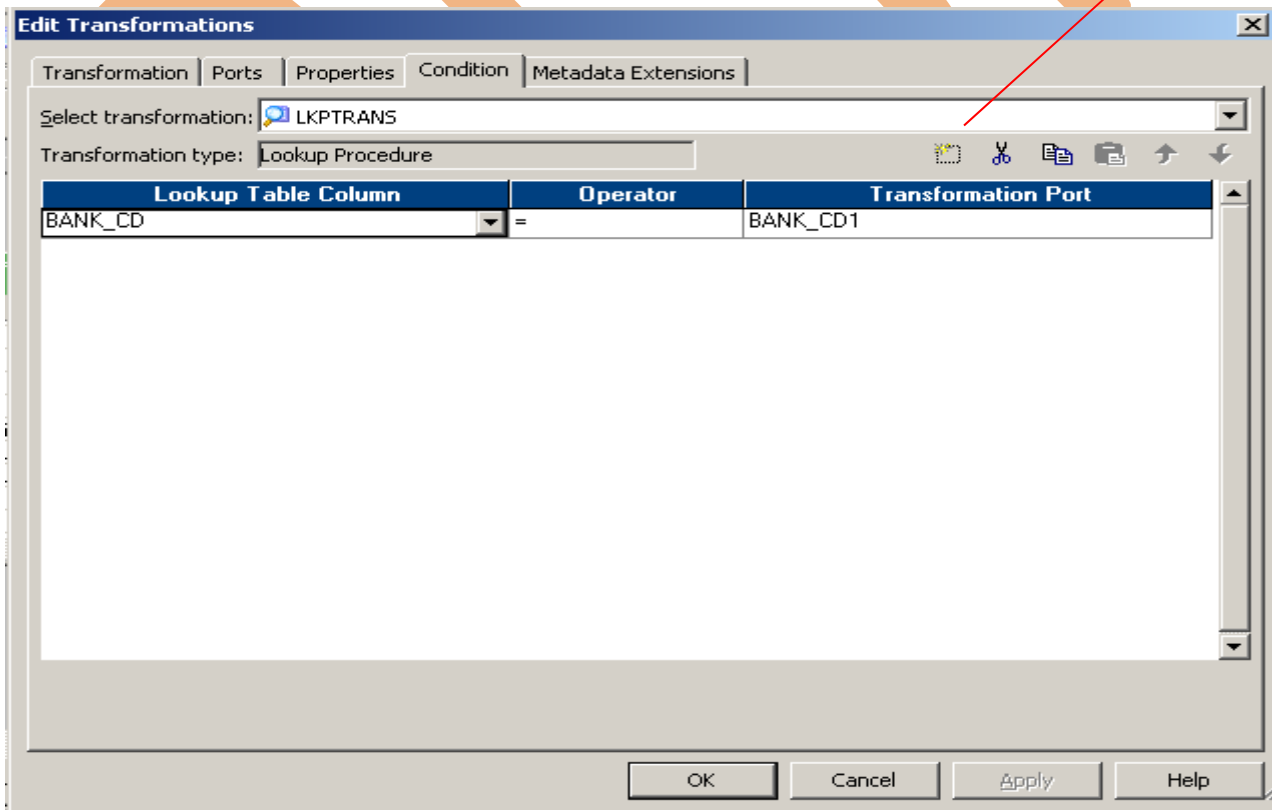
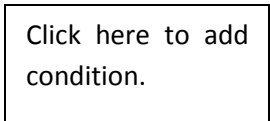
Step-10 Edit lookup table.

Ports

- Mixed.
- "L" denotes lookup port.
- "R" denotes port used as a return value (Unconnected Lookup only).



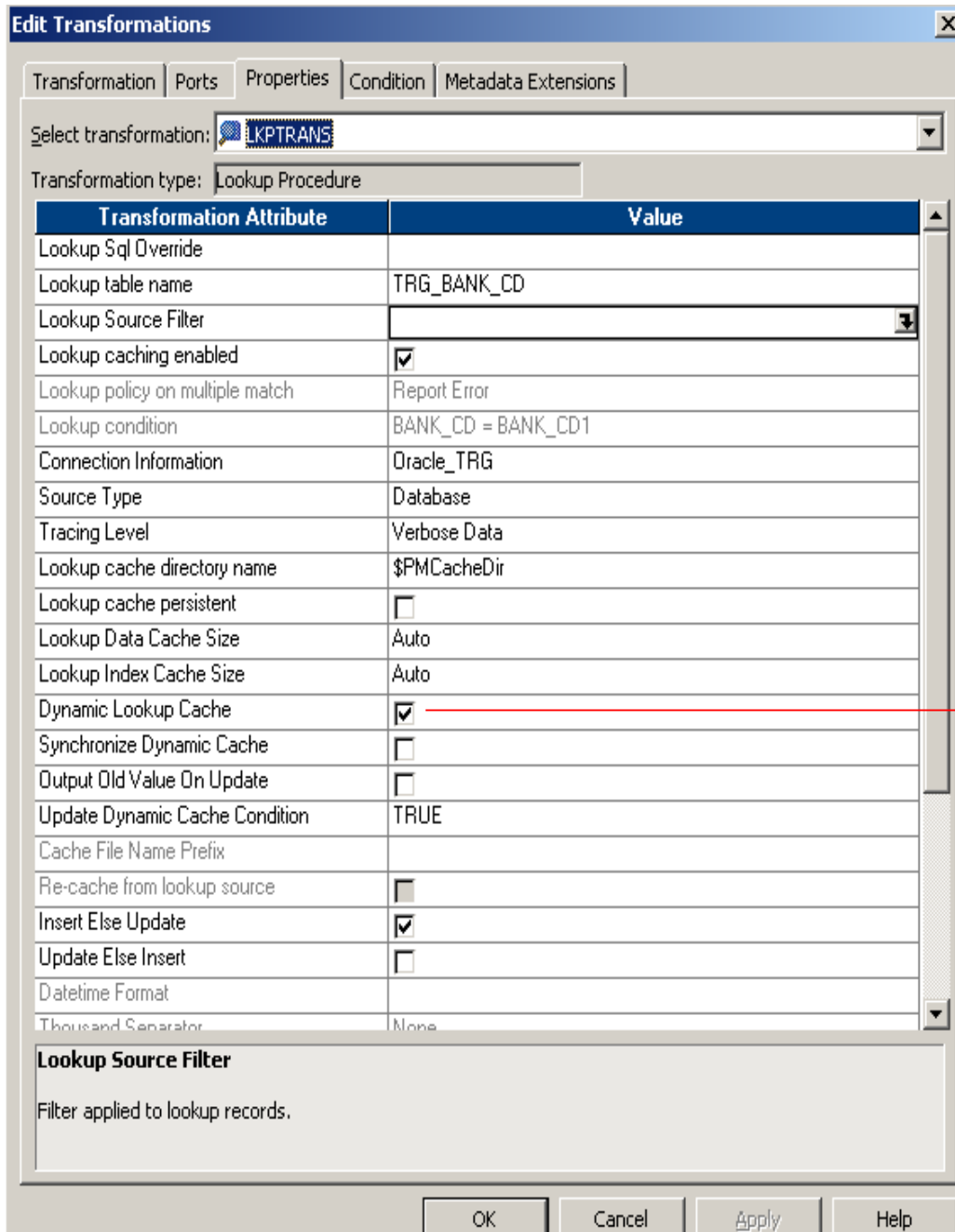
Step-11 Then go to condition tab and apply lookup condition and then click OK..



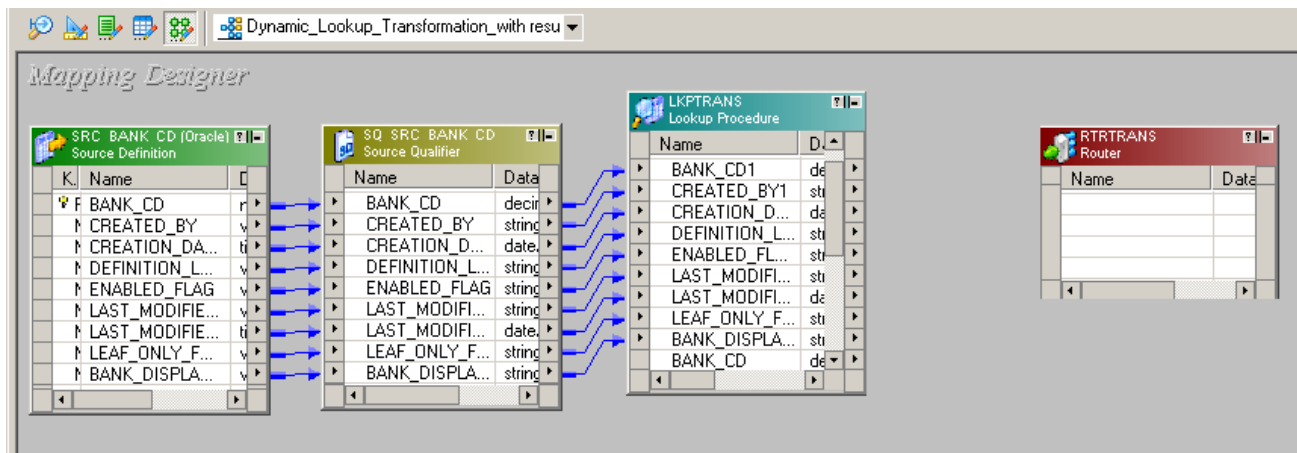
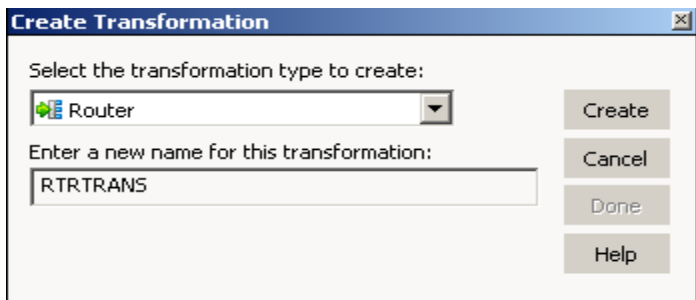
Step-12 Then go to Properties tab and specify property.

These are lookup transformation attributes.

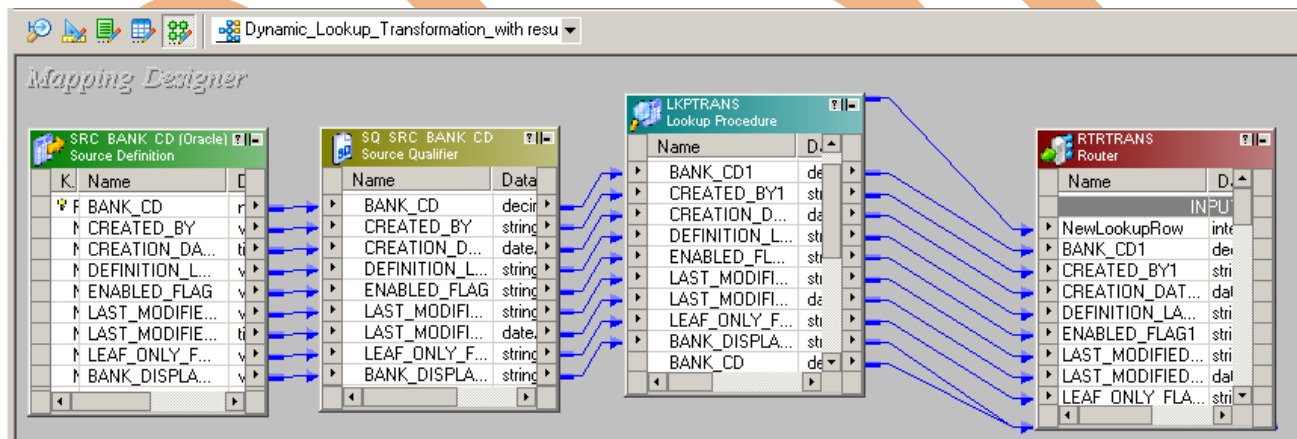
- **Lookup SQL Override:** Write, SQL override query or default SQL query.
- **Lookup table name:** Lookup table name.
- **Lookup Source Filter:** We can apply filter conditions on the lookup table
- **Lookup caching enabled:** If cache option is checked, it caches the lookup table during the session run.
- **Lookup policy on multiple match:** Option is not available when using dynamic lookup cache. But when lookup integration service finds multiple match we can configure the lookup to return the First Value, Last Value, Any Value or to Report Error.
- **Lookup condition:** The condition to lookup values from the lookup table based on source input data. For example, BANK_CD = BANK_CD1.
- **Connection Information:** Query the lookup table from the source or target connection. In case of flat file lookup we can give the file path and name, whether direct or indirect.
- **Source Type:** Specify source types
- **Tracing Level:** It provides the amount of detail in the session log for the transformation. Options available are Normal, Terse, Verbose Initialization, Verbose Data.
- **Lookup cache directory name:** Determines the directory name where the lookup cache files will reside.
- **Lookup cache persistent:** Indicates whether we are going for persistent cache or non-persistent cache.
- **Dynamic Lookup Cache:** When checked We are going for Dynamic lookup cache else static lookup cache is used.
- **Output Old Value On Update:** Defines whether the old value for output ports will be used to update an existing row in dynamic cache.
- **Cache File Name Prefix:** Lookup will used this named persistent cache file based on the base lookup table.
- **Re-cache from lookup source:** When checked, integration service rebuilds lookup cache from lookup source when the lookup instance is called in the session.
- **Insert Else Update:** Insert the record if not found in cache, else update it. Option is available when using dynamic lookup cache.
- **Update Else Insert:** Update the record if found in cache, else insert it. Option is available when using dynamic lookup cache.
- **Date time Format:** Option is not available when using dynamic lookup cache. Used when source type is file to determine the date and time format of lookup columns.
- **Thousand Separator:** Option is not available when using dynamic lookup cache . By default it is None, used when source type is file to determine the thousand separator.
- **Decimal Separator:** By default it is "." else we can use "," and used when source type is file to determine the thousand separator.
- **Case Sensitive String Comparison:** To be checked when we want to go for Case sensitive String values in lookup comparison. Used when source type is file.
- **Null ordering:** Determines whether NULL is the highest or lowest value. Used when source type is file.
- **Sorted Input:** Checked for the input sorted.
- **Lookup source is static:** When checked it assumes that the lookup source is not going to change during the session run.
- **Pre-build lookup cache:** Default option is Auto. If we want the integration service to start building the cache whenever the session just begins we can chose the option Always allowed.



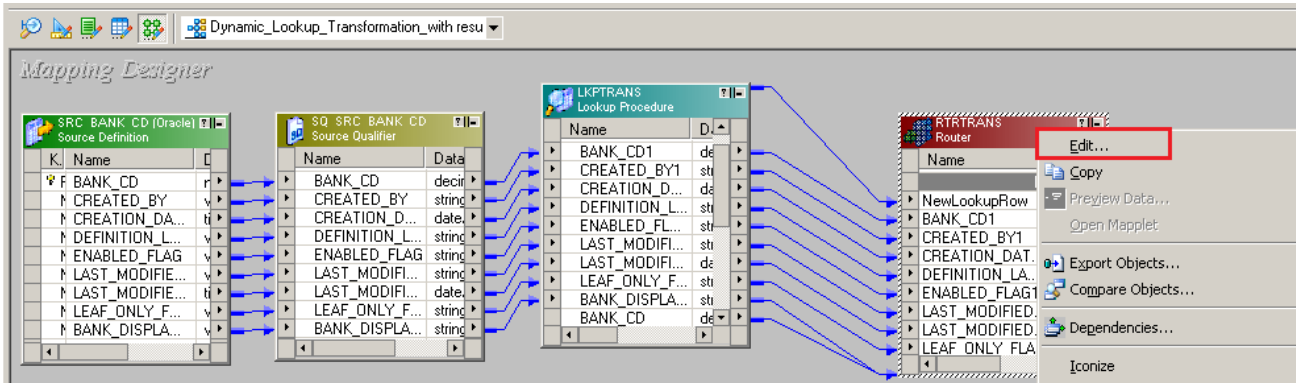
Step-13 Then, Create Router Transformation, Select router transformation and name of router transformation and click on Create.



Step-14 Now, Pass the column into router table.

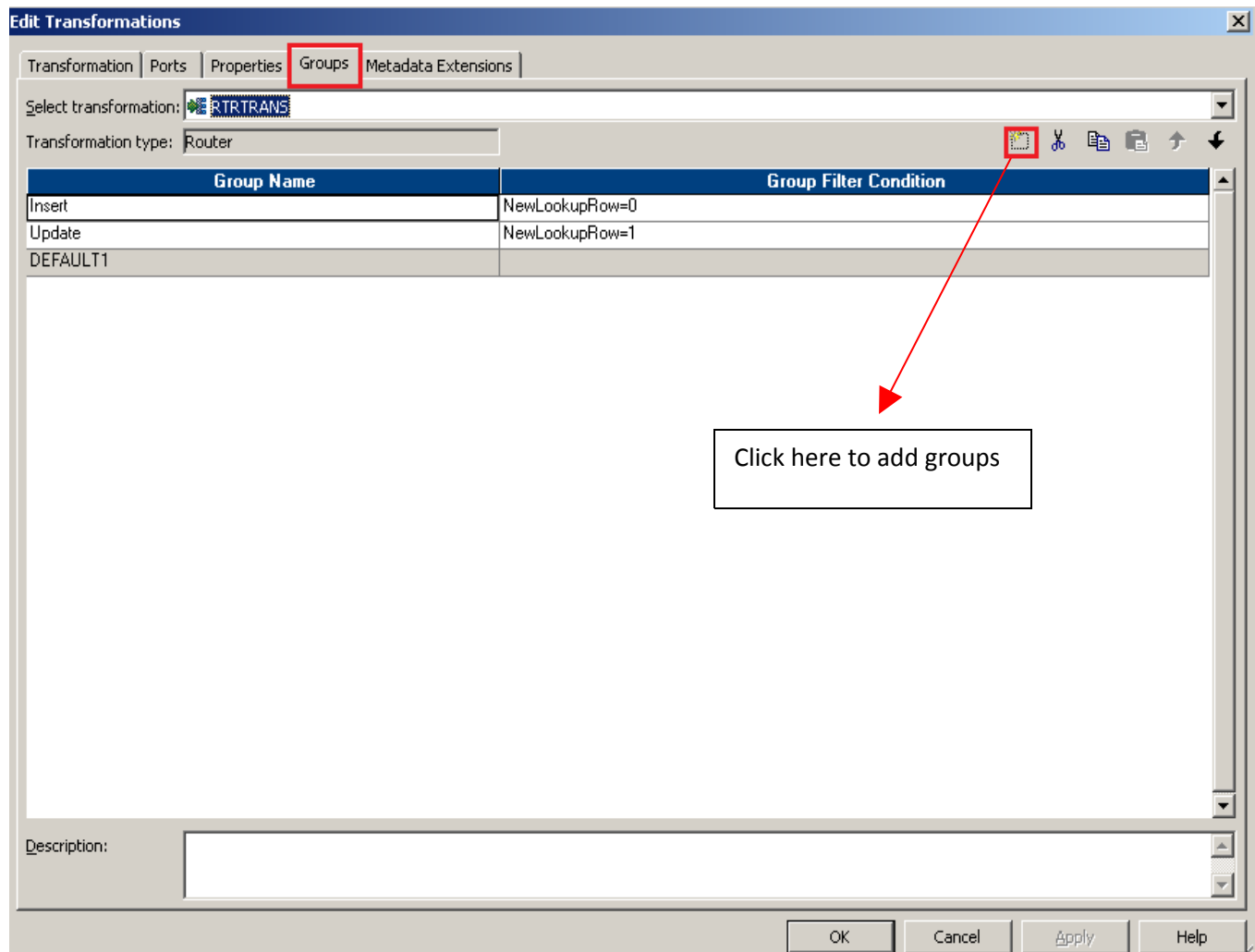


Step-15 Now, Right click on Router table and select Edit.

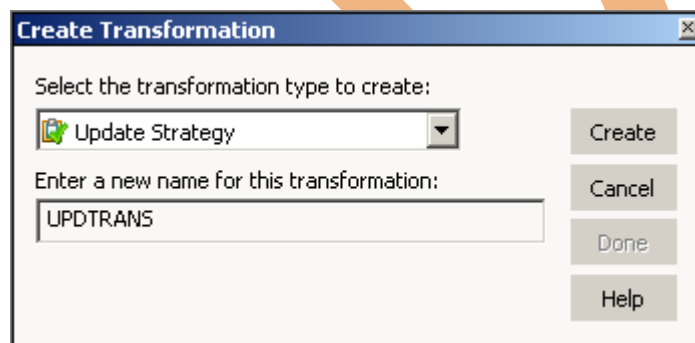


BISPS

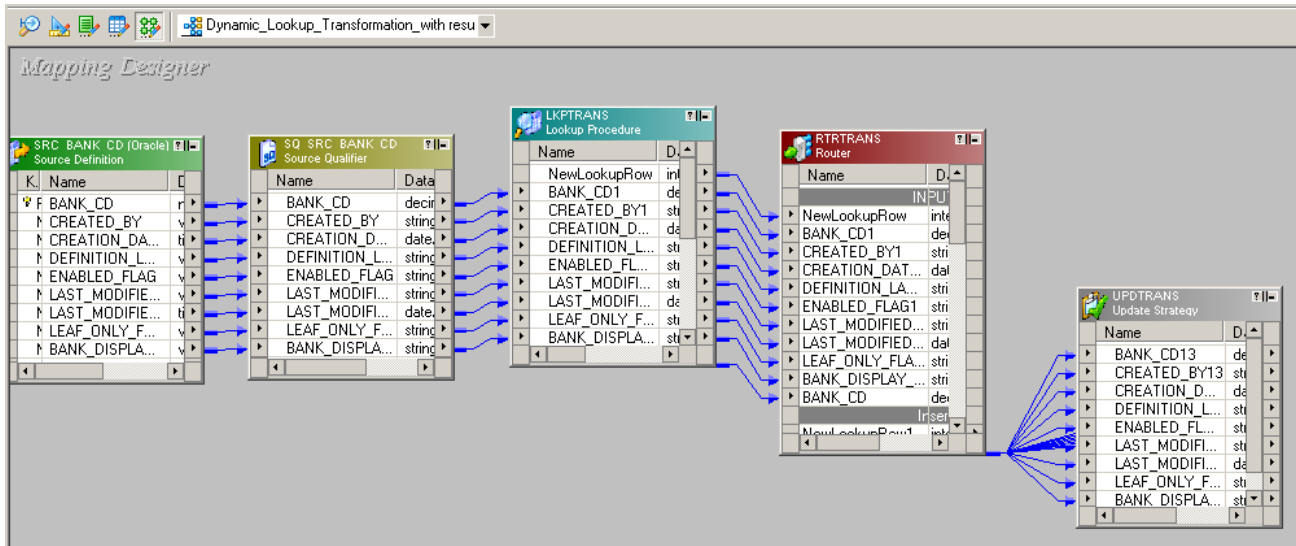
Step-16 Go to Groups tab and create two group one for Insert and another for Update. and write SQL query for both group.



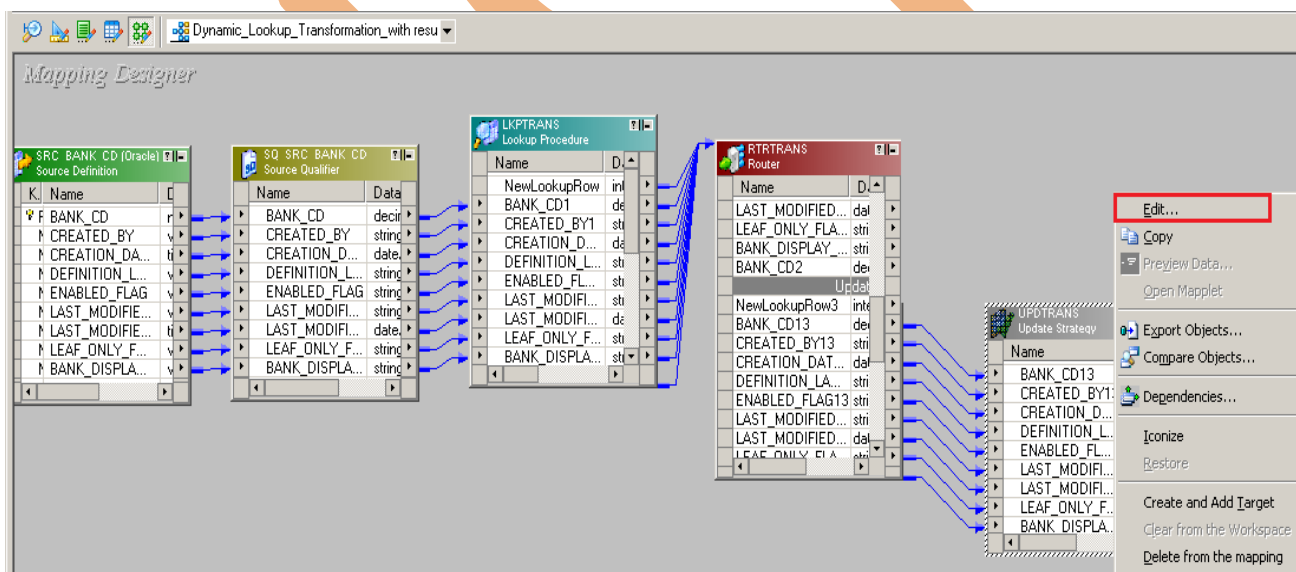
Step-17 Then create Update Strategy transformation and give name of transformation and click apply.



Step-18 Then passes all Update group column into Update Strategy Transformation.

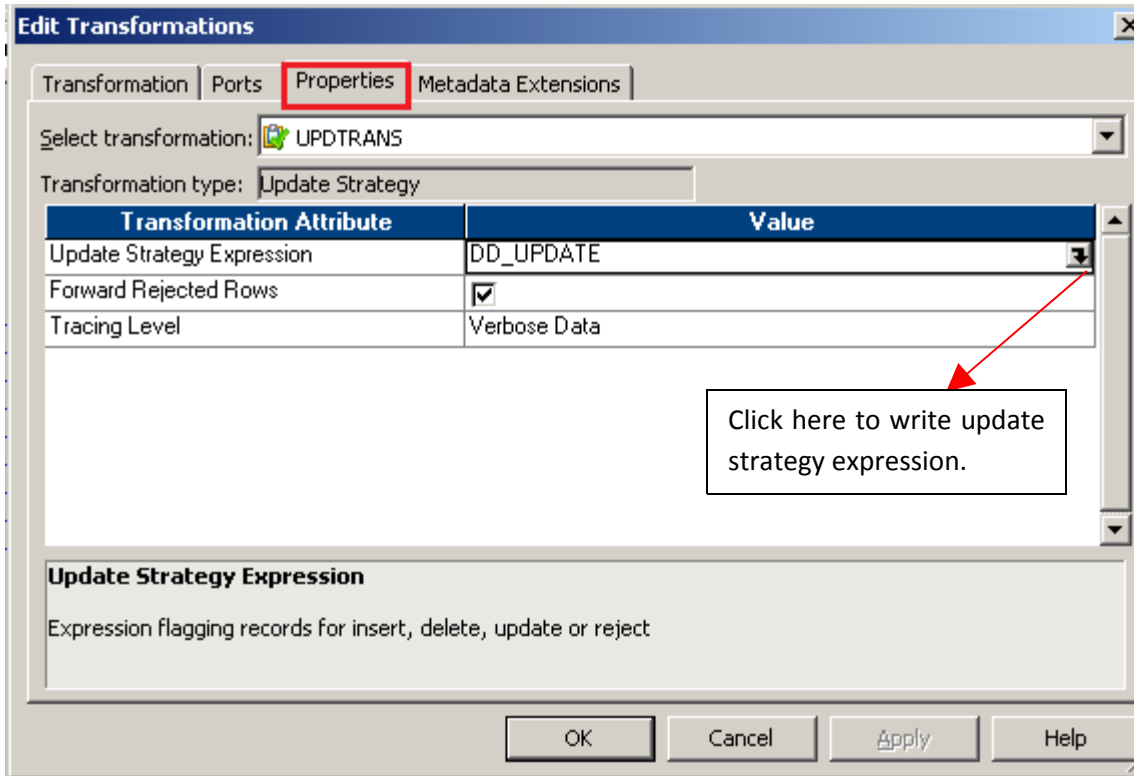


Step-19 Then right click on Update Strategy table and select Edit.

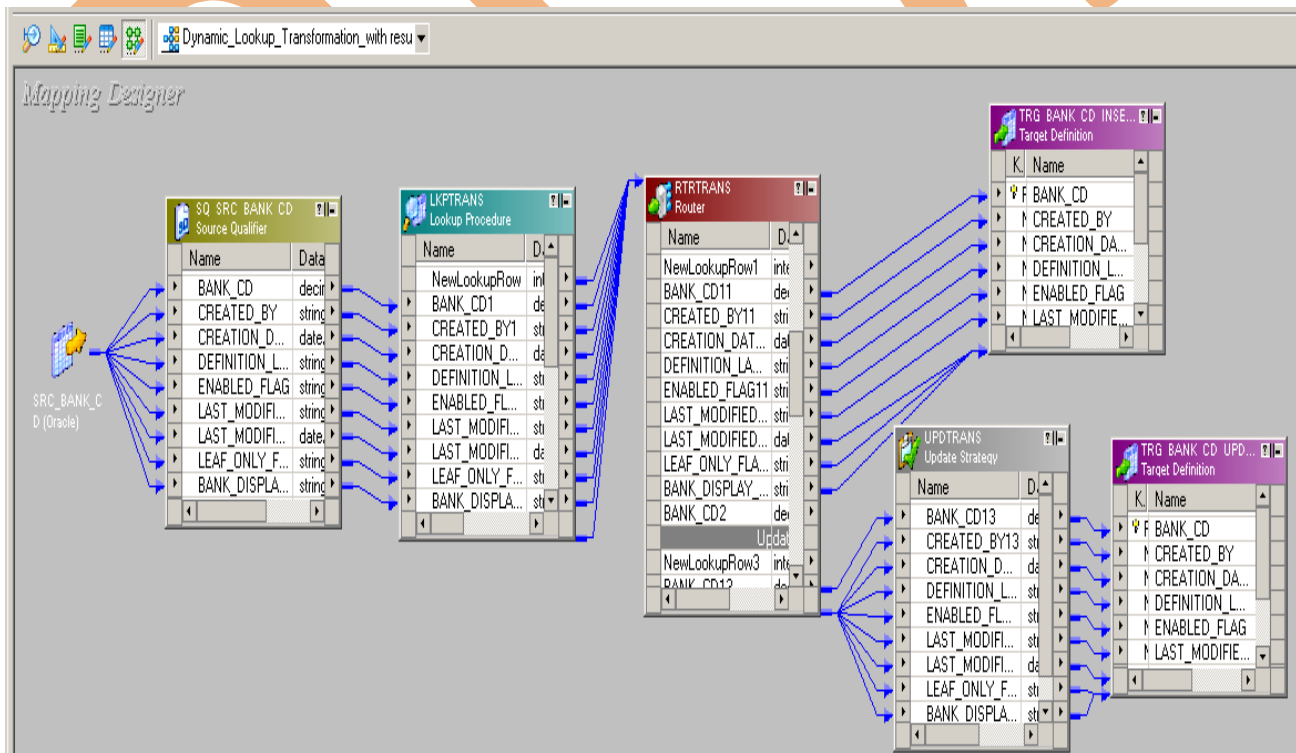


Update strategy: Transformation is an active and connected transformation. Update strategy transformation is used to insert, update, and delete records in the target table. It can also reject the records without reaching the target table. When you design a target table, you need to decide what data should be stored in the target.

Step-20 Then go to Properties tab and write Update Strategy Expression.



Step-21 Then Create Mapping. (Insert group in router transformation table to map with TRG_BANK_CD_INSERT and Update Strategy table to map with TRG_BANK_CD_UPDATE)



Step-22 . Save this mapping.

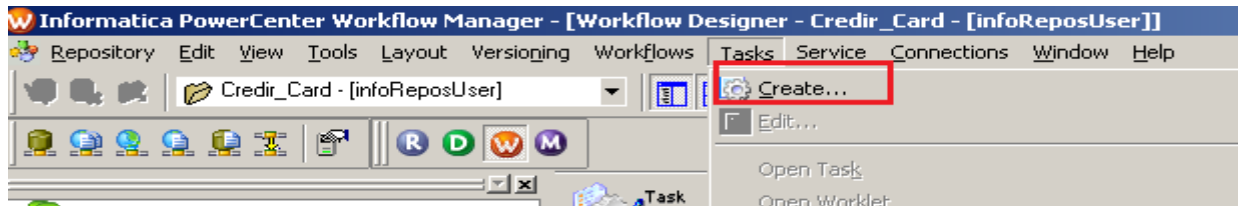
```
-----  
12/24/2012 12:38:10 ** Saving... Repository infoReposUser, Folder Transformation_Example  
-----  
Validating transformations of mapping Dynamic_Lookup_Transformation_with resuable_task...  
...transformation validation completed with no errors.  
Validating data flow of mapping Dynamic_Lookup_Transformation_with resuable_task...  
...data flow validation completed with no errors.  
Parsing mapping Dynamic_Lookup_Transformation_with resuable_task...  
...parsing completed with no errors.  
  
***** Mapping Dynamic_Lookup_Transformation_with resuable_task is VALID *****  
mapping Dynamic_Lookup_Transformation_with resuable_task updated.  
-----
```



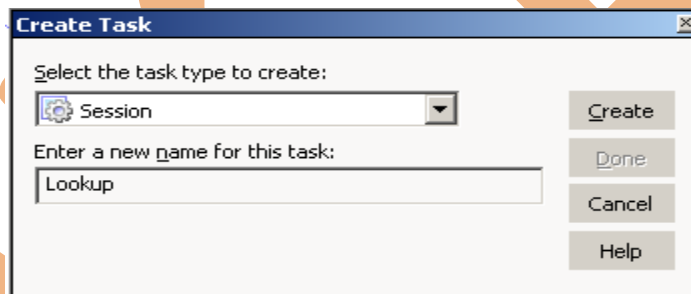
Creating Workflow

Workflow Manager: Workflow load the data between source to target b/w sequential manner. And also Define run-time properties for a mapping, known as sessions.

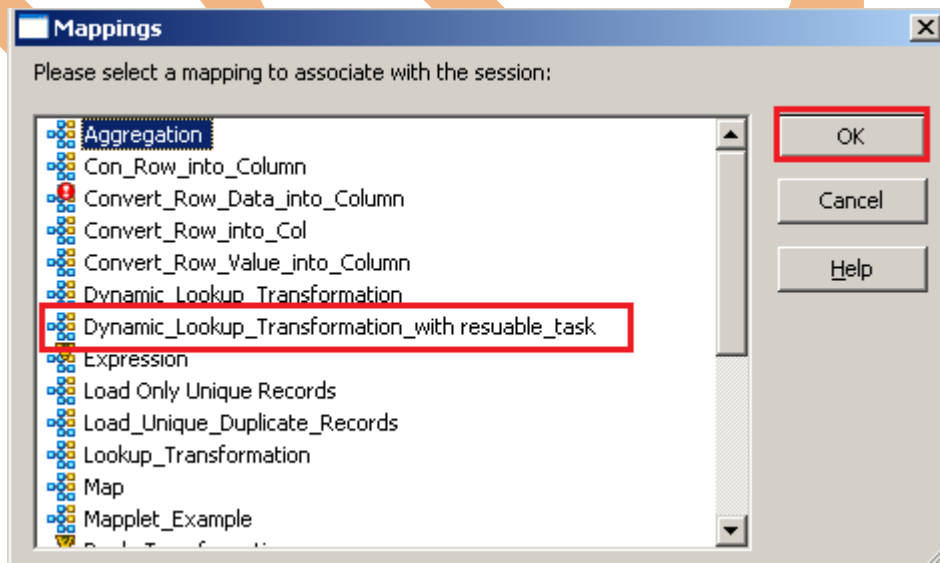
Step-1 Go to task developer and then click on Task Menu to create reusable task (Reusable tasks means the task that is created in task developer and create once time and used multiple times.)



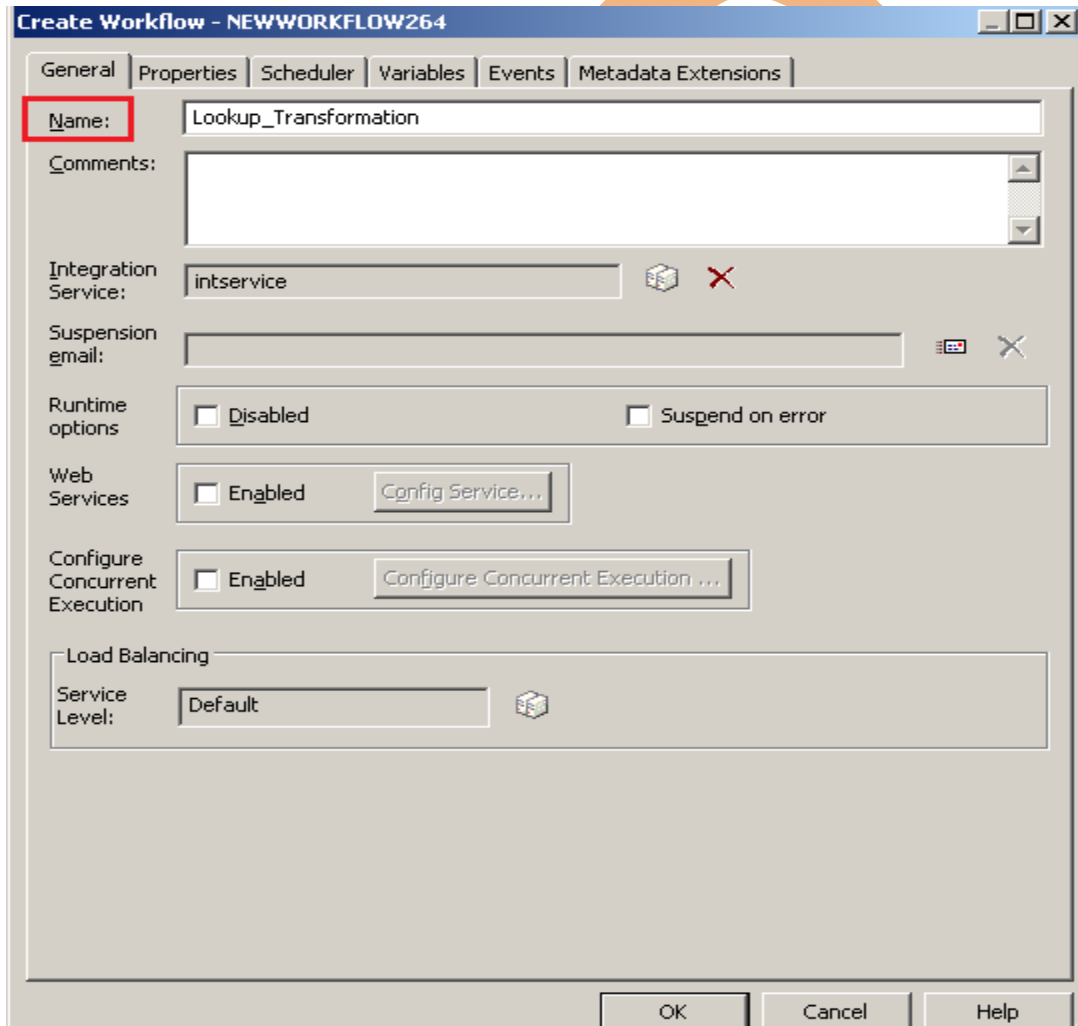
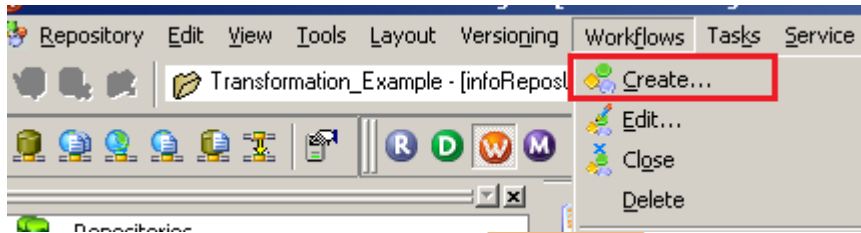
Step-2 Select session and insert name of task.



Step-3 Select Mapping to associate with the session.

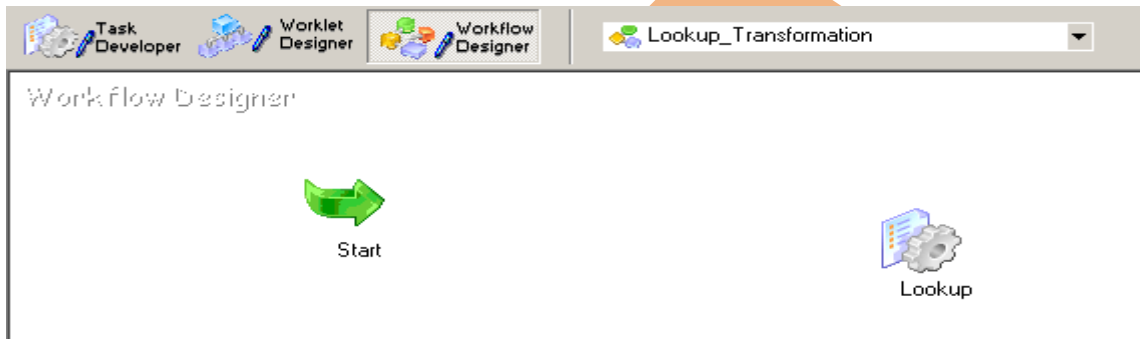


Step-4 Now go to workflow designer and click on workflow menu to create workflow. Specify name of workflow and click OK.





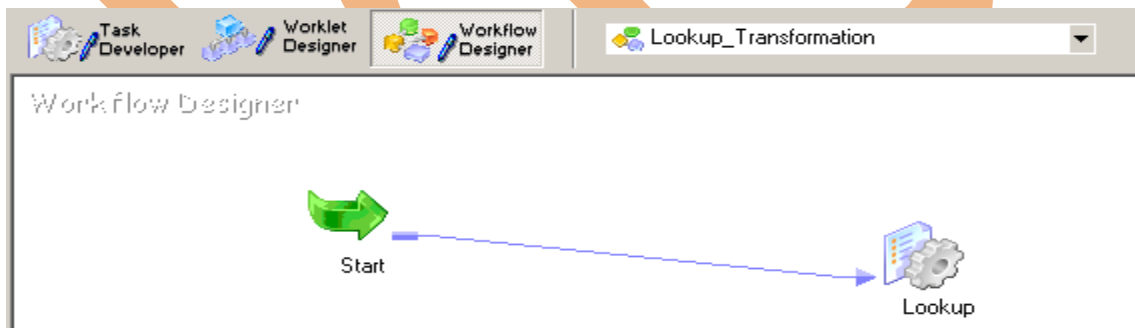
Step-5 Now drag and drop lookup task into workflow designer windows.



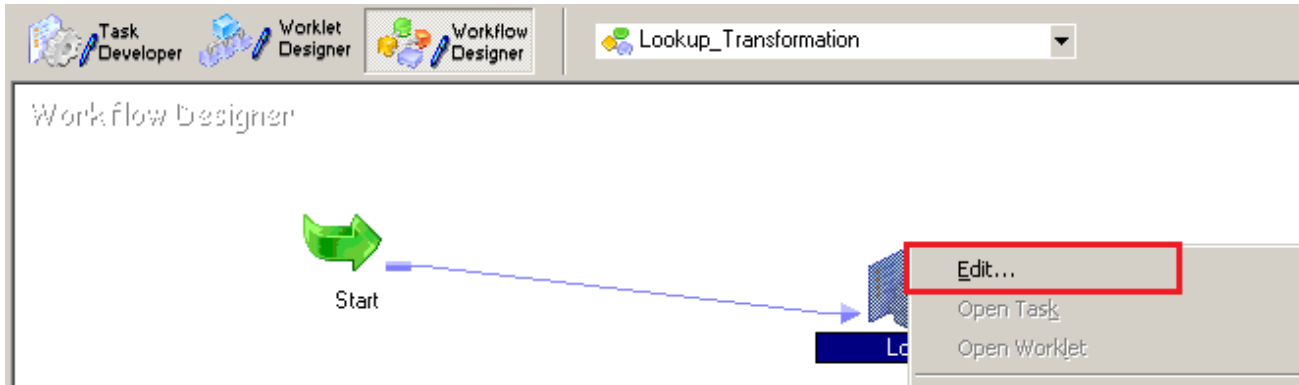
Step-6 Now create flow B/W Workflow to Task. Select Line Task and link to Start to Filter.



Step-7 Work Flow Designer Windows.

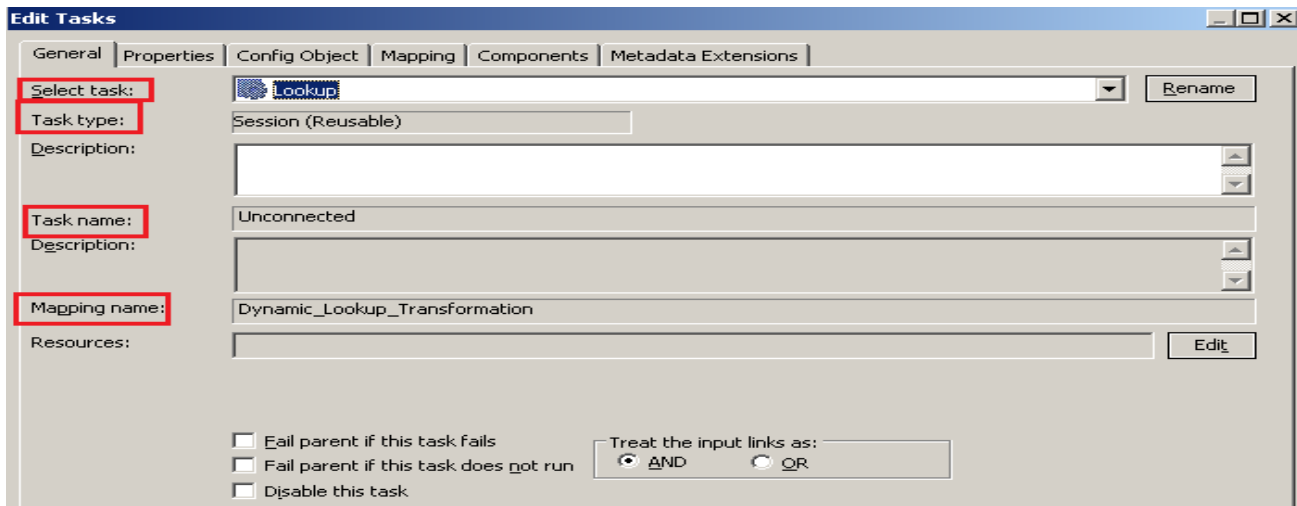


Step-8 Now Configure Connection to Target, Then Right Click on Expression and Edit, Then Click Mapping tab and configure connection for your Target table schema in oracle 11g RDBMS. And then click OK.

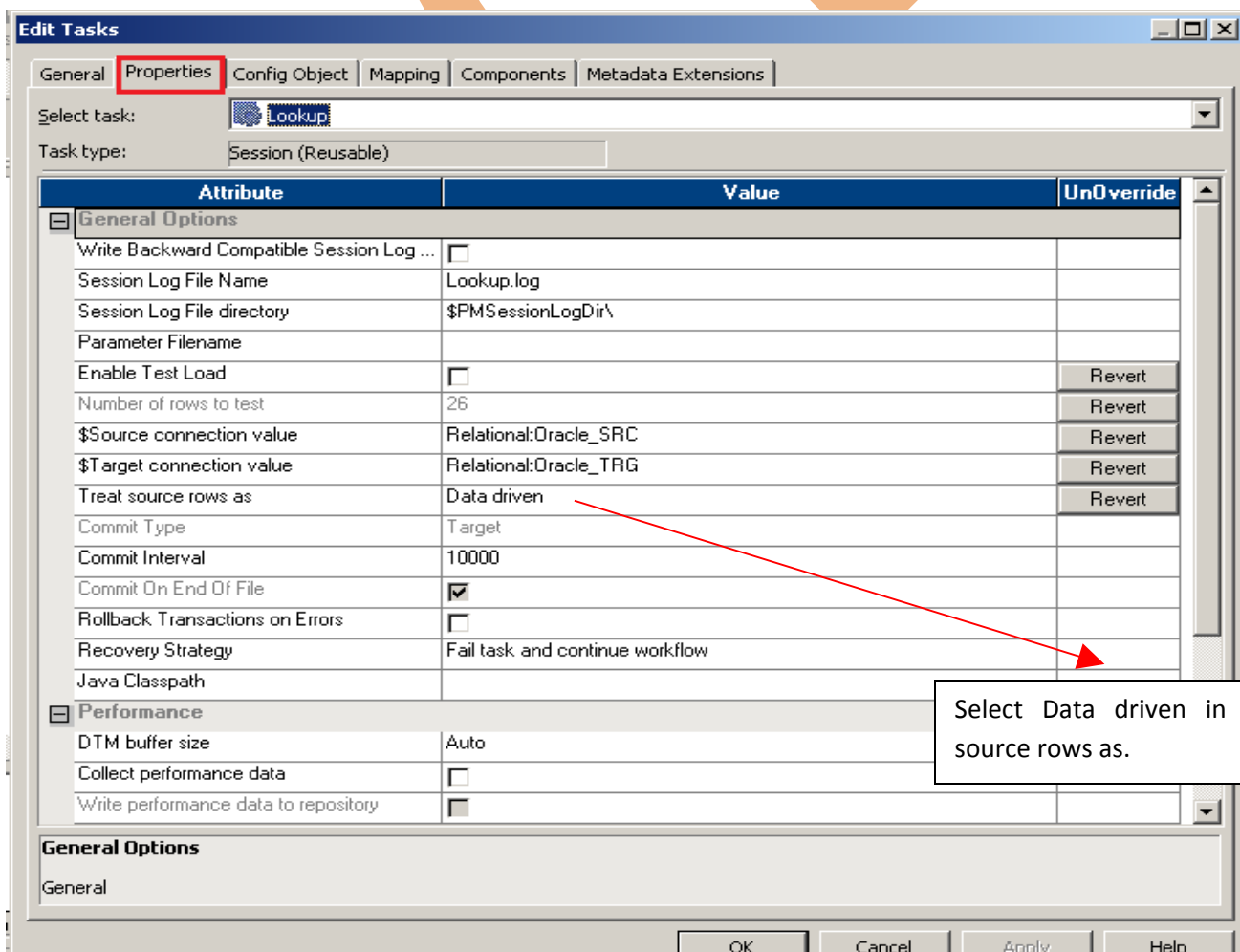


BSP

Step-9 In general tab.



Step-10 In Properties tab. Specify General Options and Performance.



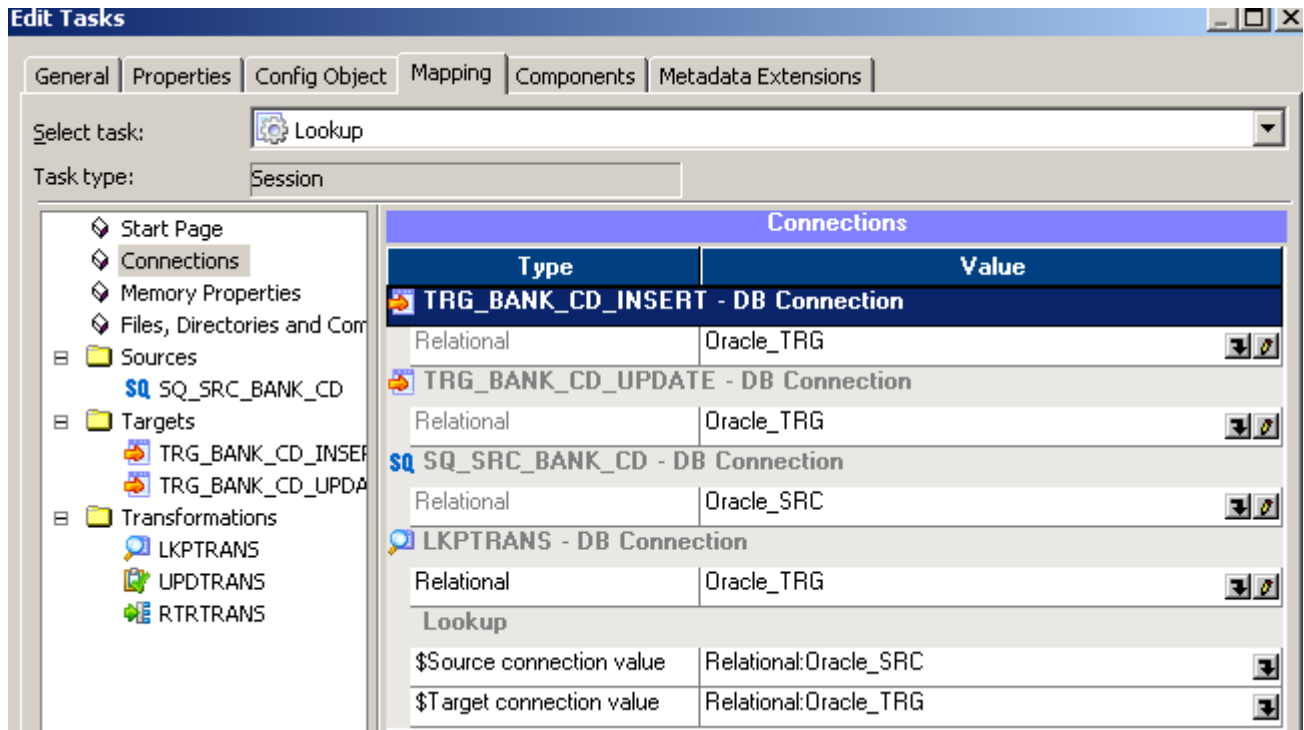
Step-11 In Config Object. Specify Advance configuration, Log Options, Error handling, Partitioning Option.

The screenshot shows the 'Edit Tasks' dialog box with the 'Config Object' tab selected. The 'Select task' dropdown is set to 'Lookup', 'Task type' is 'Session (Reusable)', and 'Config Name' is 'default_session_config'. The 'Partitioning Options' section is expanded, showing a table with the following data:

Attribute	Value
Dynamic Partitioning	Disabled
Number of Partitions	1

At the bottom of the dialog, there are buttons for 'OK', 'Cancel', 'Apply', and 'Help'. A large orange watermark is visible in the background of the page.

Step-11 In Mapping. Specify Connection and property.



Step-12 Set These property for target table.

- **Insert:** Check this option to insert a row in the target table.
- **Delete:** Check this option to delete a row in the target table.
- **Truncate Table:** check this option to truncate the target table before loading the data.
- **Update as Update:** Update the row in the target table.
- **Update as Insert:** Insert the row which is flagged as update.
- **Update else Insert:** If the row exists in the target table, then update the row. Otherwise, insert the row.

Attribute	Value
TRG_BANK_CD_INSERT - Relational Writer	
Target load type	Normal
Insert	<input checked="" type="checkbox"/>
Update as Update	<input type="checkbox"/>
Update as Insert	<input type="checkbox"/>
Update else Insert	<input checked="" type="checkbox"/>
Delete	<input checked="" type="checkbox"/>
Truncate target table option	<input type="checkbox"/>
Reject file directory	\$PMBadFileDir\
Reject filename	trg_bank_cd_insert1.bad

TRG_BANK_CD_UPDATE - Relational Writer	
Target load type	Normal
Insert	<input checked="" type="checkbox"/>
Update as Update	<input type="checkbox"/>
Update as Insert	<input type="checkbox"/>
Update else Insert	<input checked="" type="checkbox"/>
Delete	<input checked="" type="checkbox"/>
Truncate target table option	<input type="checkbox"/>
Reject file directory	\$PMBadFileDir\
Reject filename	trg_bank_cd_update1.bad

Step-13 Now save (ctrl+s) this workflow and check it.

```

.....
11/22/2012 09:55:52 *** Saving... Repository infoReposUser, Folder Transformation_Example
.....
Validating the flow semantics of Workflow Lookup_Transformation...
...flow semantics validation completed with no errors.

Validating tasks of Workflow Lookup_Transformation...
...Workflow Lookup_Transformation tasks validation completed with no errors.

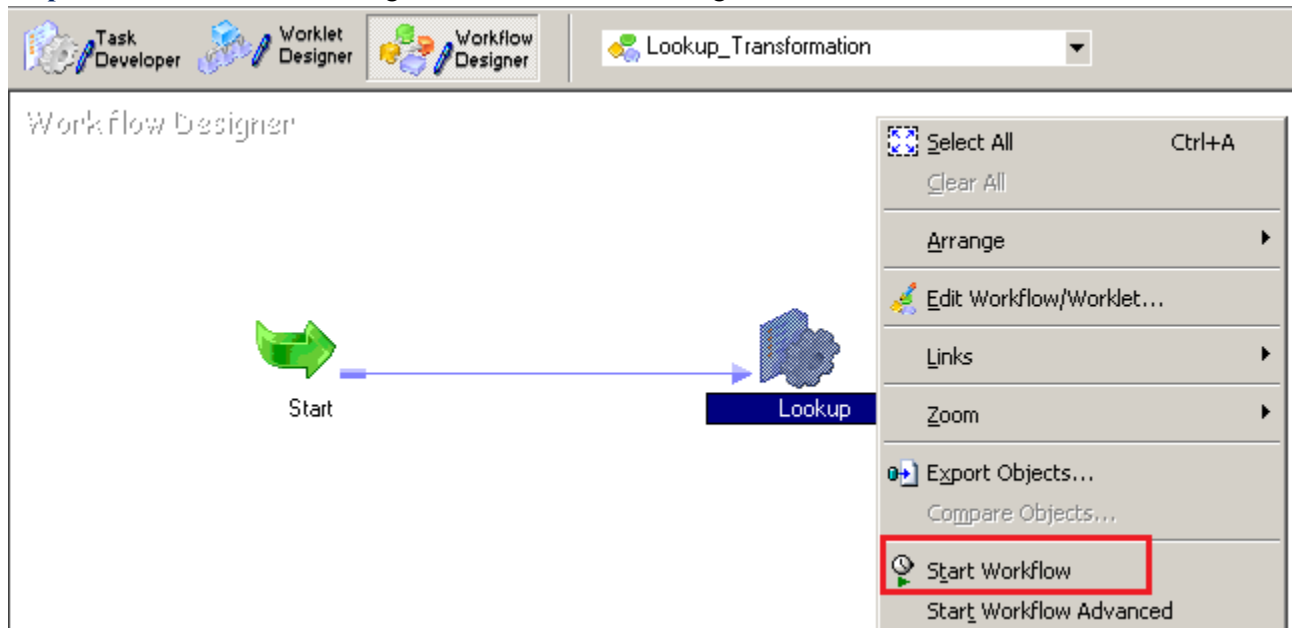
***** Workflow Lookup_Transformation is VALID *****
|
Workflow Lookup_Transformation updated.
.....

```

Execute Workflow, Review data and Check log File

Workflow monitor: Workflow monitor is helpful in monitoring and tracking the workflow created in Informatica power center.

Step-1 Now Start Workflow, Right click on Workflow Designer Window and Click on Start Workflow.



Step-2 Check session in Informatica PowerCenter Workflow Monitor.

The screenshot displays the Informatica PowerCenter Workflow Monitor. The main window shows a 'Workflow Run' table with columns for 'Start Time', 'Completion Time', and 'Status'. The 'Lookup_Transformation' workflow is shown as 'Succeeded'. Below this, the 'Lookup [12/24/2012 2:43:44 PM]' task details are expanded, showing 'Source/Target Statistics'.

Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	La-
SQL SQ_SRC_BANK_CD	node01_mit...	9	9	0	9	1836	1836	0
TRG_BANK_CD_INSERT	node01_mit...	0	0	0	0	0		0
TRG_BANK_CD_UPDATE	node01_mit...	9	9	0	9	1836	1836	0

First time update all data in target table.

Session successfully Succeeded

Step-3 Target Table.

BANK_CD	CREATED_BY	CREATION_DATE	DEFINITION_LANGUAGE	ENABLED_FLAG	LAST_MODIFIED_BY	LAST_MODIFIED_DATE	LEAF_ONLY_FLAG	BANK_DISPLAY_CD
1	2 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	NAB
2	1 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	1
3	0 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	0
4	5 STUSER	21-MAR-11 07....	US	Y	PAT	21-MAR-11 07.32.30...	Y	(null)
5	3 UTUSERY	11-JUN-20 10.0...	(null)	N	RTUSER	11-JUN-20 10.00.00....	Y	NAB
6	4 UTUSER	11-JUN-20 10.0...	US	Y	V	11-JUN-20 10.00.00....	(null)	(null)
7	600 RTUSER	11-JUN-20 10.0...	US	N	user	(null)	(null)	(null)
8	100 UTUSERF	(null)	(null)	(null)	(null)	(null)	(null)	(null)
9	800 TUSERH	11-JUN-20 10.0...	IN	N	MUSER	(null)	(null)	(null)

Step-4 Now change the source value.

BANK_CD	CREATED_BY	CREATION_DATE	DEFINITION_LANGUAGE	ENABLED_FLAG	LAST_MODIFIED_BY	LAST_MODIFIED_DATE	LEAF_ONLY_FLAG	BANK_DISPLAY_CD
1	2 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	NAB
2	1 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	1
3	0 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	0
4	5 STUSER	21-MAR-11 07....	US	Y	PAT	21-MAR-11 07.32.30...	Y	(null)
5	3 UTUSERY	11-JUN-20 10.0...	(null)	N	RTUSER	11-JUN-20 10.00.00....	Y	NAB
6	4 UTUSER	11-JUN-20 10.0...	US	Y	V	11-JUN-20 10.00.00....	(null)	(null)
7	6000 RTUSER	11-JUN-20 10.0...	US	N	user	(null)	(null)	(null)
8	456 UTUSERF	(null)	(null)	(null)	(null)	(null)	(null)	(null)
9	88 TUSERH	11-JUN-20 10.0...	IN	N	MUSER	(null)	(null)	(null)

Step-5 Then Start Workflow, Right click on Workflow Designer Window and Click on Start Workflow.

The screenshot shows the 'Workflow Designer' window with a workflow consisting of two tasks: 'Start' and 'Lookup'. A right-click context menu is displayed over the 'Lookup' task, listing various actions. The 'Start Workflow' option is highlighted with a red rectangular box.

Step-5 Check session in Informatica PowerCenter Workflow Monitor.

Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	La
SQL SQ_SRC_BANK_CD	node01_mit...	9	9	0	9	1836	1836	0
TRG_BANK_CD_INSERT	node01_mit...	6	6	0	6	1224	1224	0
TRG_BANK_CD_UPDATE	node01_mit...	3	3	0	3	612	612	0

Session successfully Succeeded

Step-6 Now view data in Target RDBMS (Oracle 11g)'

BANK_CD	CREATED_BY	CREATION_DATE	DEFINITION_LANGUAGE	ENABLED_FLAG	LAST_MODIFIED_BY	LAST_MODIFIED_DATE	LEAF_ONLY_FLAG	BANK_DISPLAY_CD
1	2 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	NAB
2	1 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	1
3	0 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	0
4	5 STUSER	21-MAR-11 07....	US	Y	PAT	21-MAR-11 07.32.30...	Y	(null)
5	3 UTUSERY	11-JUN-20 10.0...	(null)	N	RTUSER	11-JUN-20 10.00.00....	Y	NAB
6	4 UTUSER	11-JUN-20 10.0...	US	Y	V	11-JUN-20 10.00.00....	(null)	(null)
7	600 RTUSER	11-JUN-20 10.0...	US	N	user	(null)	(null)	(null)
8	100 UTUSERF	(null)	(null)	(null)	(null)	(null)	(null)	(null)
9	800 TUSERH	11-JUN-20 10.0...	IN	N	MUSER	(null)	(null)	(null)
10	2 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	NAB
11	1 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	1
12	0 RTUSER	11-JUN-20 10.0...	US	Y	RTUSER	11-JUN-20 10.00.00....	Y	0
13	5 STUSER	21-MAR-11 07....	US	Y	PAT	21-MAR-11 07.32.30...	Y	(null)
14	3 UTUSERY	11-JUN-20 10.0...	(null)	N	RTUSER	11-JUN-20 10.00.00....	Y	NAB
15	4 UTUSER	11-JUN-20 10.0...	US	Y	V	11-JUN-20 10.00.00....	(null)	(null)
16	6000 RTUSER	11-JUN-20 10.0...	US	N	user	(null)	(null)	(null)
17	456 UTUSERF	(null)	(null)	(null)	(null)	(null)	(null)	(null)
18	88 TUSERH	11-JUN-20 10.0...	IN	N	MUSER	(null)	(null)	(null)

Step-7 Now right click on session and select Get Session Log.

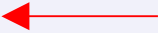
Workflow Run	Start Time	Completion Time	Status
Lookup_Transformation	12/24/2012 4:27:55 PM	12/24/2012 4:27:59 PM	Succeeded
Lookup_Transformation	12/24/2012 4:27:55 PM	12/24/2012 4:27:55 PM	Succeeded
Start	12/24/2012 4:27:55 PM	12/24/2012 4:27:57 PM	Succeeded
Lookup	12/24/2012 4:26:36 PM	12/24/2012 4:26:40 PM	Succeeded
Lookup	12/24/2012 4:26:36 PM	12/24/2012 4:26:39 PM	Succeeded
Lookup	12/24/2012 4:25:49 PM	12/24/2012 4:25:51 PM	Succeeded
Start	12/24/2012 4:25:49 PM	12/24/2012 4:25:49 PM	Succeeded
Lookup	12/24/2012 4:25:49 PM	12/24/2012 4:25:51 PM	Succeeded
Lookup	12/24/2012 4:23:20 PM	12/24/2012 4:23:25 PM	Succeeded
Lookup	12/24/2012 4:23:21 PM	12/24/2012 4:23:21 PM	Succeeded
Lookup	12/24/2012 4:23:21 PM	12/24/2012 4:23:23 PM	Failed
Lookup	12/24/2012 3:08:30 PM	12/24/2012 3:08:34 PM	Succeeded

Step-8 Session Log.

INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TM_6307	DTM error log disabled.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TE_7022	TShmW/iter: Initialized
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21249	Initializing Transform: LKPTRANS
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21371	Number of Input Transforms = [1]:
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21259	Input Transform[0]: [SQ_SRC_BANK_CD]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	CMN_1053	LKPTRANS: Row Definition Info: [0]:Names(BANK_CD->BANK_CD1) Native-type:0 (N/A) C-type:1005 (Double) Precision:5 Scale:0 [1]:Names(CREATED_BY->CREATED_BY1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:30 Scale:0 [2]:Names(CREATION_DATE->CREATION_DATE1) Native-type:0 (N/A) C-type:1007 (Date/Time) Precision:29 Scale:9 [3]:Names(DEFINITION_LANGUAGE->DEFINITION_LANGUAGE1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:4 Scale:0 [4]:Names(ENABLED_FLAG->ENABLED_FLAG1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:1 Scale:0 [5]:Names(LAST_MODIFIED_BY->LAST_MODIFIED_BY1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:30 Scale:0 [6]:Names(LAST_MODIFIED_DATE->LAST_MODIFIED_DATE1) Native-type:0 (N/A) C-type:1007 (Date/Time) Precision:29 Scale:9 [7]:Names(LEAF_ONLY_FLAG->LEAF_ONLY_FLAG1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:1 Scale:0 [8]:Names(BANK_DISPLAY_CD->BANK_DISPLAY_CD1) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:10 Scale:0)
DEBUG	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21100	Default values: Unconnected Input Ports
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	CMN_1053	LKPTRANS----- Unconnected INPUT ROW DEFINITION: Row Definition Info: [0]:Names(CREATED_BY->CREATED_BY)

DEBUG	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21100	Default values: Unconnected Input Ports
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	CMN_1053	LKPTRANS --- Unconnected INPUT ROW DEFINITION: Row Definition Info: [0]:Names(CREATED_BY->CREATED_BY) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:30 Scale:0 [1]:Names(CREATION_DATE->CREATION_DATE) Native-type:0 (N/A) C-type:1007 (Date/Time) Precision:29 Scale:9 [2]:Names(DEFINITION_LANGUAGE->DEFINITION_LANGUAGE) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:4 Scale:0 [3]:Names(ENABLED_FLAG->ENABLED_FLAG) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:1 Scale:0 [4]:Names(LAST_MODIFIED_BY->LAST_MODIFIED_BY) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:30 Scale:0 [5]:Names(LAST_MODIFIED_DATE->LAST_MODIFIED_DATE) Native-type:0 (N/A) C-type:1007 (Date/Time) Precision:29 Scale:9 [6]:Names(LEAF_ONLY_FLAG->LEAF_ONLY_FLAG) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:1 Scale:0 [7]:Names(BANK_DISPLAY_CD->BANK_DISPLAY_CD) Native-type:0 (N/A) C-type:1014 (UniChar) Precision:10 Scale:0)
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[CREATED_BY], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[CREATION_DATE], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[DEFINITION_LANGUAGE], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[ENABLED_FLAG], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[LAST_MODIFIED_BY], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[LAST_MODIFIED_DATE], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[LEAF_ONLY_FLAG], defaultvalue=[]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[BANK_DISPLAY_CD], defaultvalue=[]

Lookup Input Row Definition.



Lookup Condition.

Severity	Timestamp	Node	Thread	Message Co...	Message
DEBUG	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21364	Note: Default value [] of output column [BANK_CD] will be used if transformation errors are encountered
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21315	Lookup Transform : LKPTRANS
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21303	Lookup condition : BANK_CD = BANK_CD1
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21698	The Lookup transformation [LKPTRANS] has Lookup update dynamic cache condition: TRUE.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21042	Caching enabled : 1
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21446	Refresh cache : 0
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21334	Match policy: 3
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21313	Lookup table : TRG_BANK_CD
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21311	Lookup override : NULL
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21075	Connecting to database [orcl], user [TRG_TRANSFORMATION]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	CMN_1716	Lookup [LKPTRANS] uses database connection [Relational:Oracle:TRG] in code page [MS Windows Latin 1 (ANSI), superset of Latin1]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21249	Initializing Transform: RTRTRANS
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21371	Number of Input Transforms = [1]:
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21259	Input Transform[0]: [LKPTRANS]
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	CMN_1053	RTRTRANS: Row Definition Info: [0]:Names(NewLookupRow->NewLookupRow) Native-type:0 (N/A) C-type:1002 (Int) Precision:10 Scale:0 [1]:Names(BANK_CD1->BANK_CD1) Native-type:0 (N/A) C-type:1005 (Double) Precision:5 Scale:0 [2]:Names(CREATED_BY->CREATED_BY)

Lookup table name.

data base user name.

INFO	12/24/2012 4:27:56 PM	node01_mitest	DIRECTOR	TT_11183	Enabled using [1 (auto)] additional concurrent pipelines to build lookup caches. (Session likely will build or refresh [1] lookup caches; [0] on-demand only).
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TM_6660	Total Buffer Pool size is 1829472 bytes and Block size is 65536 bytes.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11162	INFO: Transformation [LKPTRANS]: Input Group Id=0: transforming up to 224 row(s) at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21056	column=[NewLookupRow], defaultvalue=[]
DEBUG	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	DBG_21364	Note: Default value [] of output column [NewLookupRow] will be used if transformation errors are encountered
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11163	INFO: Transformation [LKPTRANS]: Output Group Id=0: transforming up to 224 row(s) [224] at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11162	INFO: Transformation [RTRTRANS]: Input Group Id=0: transforming up to 224 row(s) at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11163	INFO: Transformation [RTRTRANS]: Output Group Id=1: transforming up to 224 row(s) [224] at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11163	INFO: Transformation [RTRTRANS]: Output Group Id=3: transforming up to 224 row(s) [224] at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MAPPING	TT_11162	INFO: Transformation [UPDTRANS]: Input Group Id=0: transforming up to 224 row(s) at a time.
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	DBG_21097	Lookup Transformation [LKPTRANS]: Default sql to create lookup cache: SELECT BANK_CD FROM TRG_BANK_CD ORDER BY BANK_CD
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	CMN_1053	LKPTRANS({DSQ}):Exchange: Row Definition Info: ([0]:Names(BANK_CD->BANK_CD) Native-type:3006 (number(p,s)) C-type:1005 (Double) Precision:5 Scale:0)
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	CMN_1053	LKPTRANS({DSQ}):Leaf Exchange OUTPUT : Row Definition Info: ([0]:Names(BANK_CD->BANK_CD) Native-type:0 (N/A) C-type:1005 (Double) Precision:5 Scale:0)

Lookup query.

INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:READE	CMN_1053	LKPTRANS({DSQ}):Exchange: Control=[EOF] LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=1 Targ Rowid=1 BANK_CD (BANK_CD:Double): "0.000000000000000") LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=2 Targ Rowid=2 BANK_CD (BANK_CD:Double): "1.000000000000000") LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=3 Targ Rowid=3 BANK_CD (BANK_CD:Double): "2.000000000000000") LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=4 Targ Rowid=4 BANK_CD (BANK_CD:Double): "3.000000000000000") LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=5 Targ Rowid=5 BANK_CD (BANK_CD:Double): "4.000000000000000") LKPTRANS({DSQ}):Exchange: Rowdata: (RowType=0(insert) Src Rowid=6 Targ Rowid=6 BANK_CD (BANK_CD:Double): "5.000000000000000")
------	-----------------------	---------------	---------------	----------	---

Lookup Exchange Control..

INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	DBG_21682	Lookup table row count : 9
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	DBG_21297	Lookup cache row count : 9
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	DBG_21294	DBG_21294 Lookup cache creation completed : (Mon Dec 24 16:27:56 2012)
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	CMN_1671	Created new cache files PMLKUP263_36_0_759w32.[dat/idx] in directory C:\Informatca\9.0.1\server\infa_shared\%Cache for Lookup [LKPTRANS]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	DBG_21641	LKPTRANS: Index cache size = [53678800], Data cache size = [107356160]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1:TRAN:	DBG_21216	Finished transformations for Source Qualifier [LKPTRANS{{DSQ}}]. Total errors [0]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11027	=====
					DETAILED TRANSFORMATION ROW STATISTICS for DSQ [LKPTRANS{{DSQ}}], Partition[1]
					=====
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11031	Transformation [LKPTRANS{{DSQ}}]:
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11035	Input - 9 [__READER__]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11115	[LKPTRANS{{DSQ}}]: Output Group Index = [0]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11037	[LKPTRANS{{BLD}}]: Output - 9, Dropped - 0
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11031	Transformation [LKPTRANS{{BLD}}]{version 0]:
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11114	[LKPTRANS{{BLD}}]: Input Group Index = [0], Input Row Count [9]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11034	[LKPTRANS{{DSQ}}]: Input - 9
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11115	[LKPTRANS{{BLD}}]: Output Group Index = [0]
INFO	12/24/2012 4:27:56 PM	node01_mitest	LKPDP_1	TT_11040	=====
INFO	12/24/2012 4:27:56 PM	node01_mitest	DIRECTOR	TT_11185	No more lookup cache to build by additional concurrent pipeline in the current concurrent source set.
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8221	Target database connection [Oracle_TRG] code page: [MS Windows Latin 1 (ANSI), superset of Latin1]
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8397	Appending output data to file C:\Informatca\9.0.1\server\infa_shared\BadFiles\trg_bank_cd_insert1.bad (initial

Details.

DETAILED TRANSFORMATION ROW STATISTICS
for DSQ [LKPTRANS{{DSQ}}], Partition[1]

INFO	12/24/2012 4:27:56 PM	node01_mitest	DIRECTOR	TT_11185	No more lookup cache to build by additional concurrent pipeline in the current concurrent source set.
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8221	Target database connection [Oracle_TRG] code page: [MS Windows Latin 1 (ANSI), superset of Latin1]
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8397	Appending output data to file [C:\Informatca\9.0.1\server\infa_shared\BadFiles\trg_bank_cd_insert1.bad] (initial size [1564]).
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8124	Target Table TRG_BANK_CD :SQL INSERT statement: INSERT INTO TRG_BANK_CD(BANK_CD,CREATED_BY,CREATION_DATE,DEFINITION_LANGUAG VALUES (?, ?, ?, ?, ?, ?, ?)
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8124	Target Table TRG_BANK_CD :SQL UPDATE statement: UPDATE TRG_BANK_CD SET CREATED_BY = ?, CREATION_DATE = ?, DEFINITION_LANGUAGE = ?, ENABLED_FLAG = ?, LAST_MODIFIED_BY = ?, LAST_MODIFIED_DATE = ?, LEAF_ONLY_FLAG = ?, BANK_DISPLAY_CD = ? WHERE BANK_CD = ?
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8124	Target Table TRG_BANK_CD :SQL DELETE statement: DELETE FROM TRG_BANK_CD WHERE BANK_CD = ?
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8147	Writer: Target is database [orcl], user [TRG_TRANSFORMATION], bulk mode [OFF]
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8397	Appending output data to file [C:\Informatca\9.0.1\server\infa_shared\BadFiles\trg_bank_cd_update1.bad] (initial size [3563]).
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8124	Target Table TRG_BANK_CD :SQL INSERT statement: INSERT INTO TRG_BANK_CD(BANK_CD,CREATED_BY,CREATION_DATE,DEFINITION_LANGUAG VALUES (?, ?, ?, ?, ?, ?, ?)
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8124	Target Table TRG_BANK_CD :SQL UPDATE statement: UPDATE TRG_BANK_CD SET CREATED_BY = ?, CREATION_DATE = ?, DEFINITION_LANGUAGE = ?, ENABLED_FLAG = ?, LAST_MODIFIED_BY = ?, LAST_MODIFIED_DATE = ?, LEAF_ONLY_FLAG = ?, BANK_DISPLAY_CD = ?

Target table query

Target table query

INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8035	Load complete time: Mon Dec 24 16:27:56 2012
					LOAD SUMMARY =====
					WRT_8036 Target: TRG_BANK_CD (Instance Name: [TRG_BANK_CD_INSERT]) WRT_8038 Inserted rows - Requested: 6 Applied: 6 Rejected: 0 Affected: 6
					WRT_8036 Target: TRG_BANK_CD (Instance Name: [TRG_BANK_CD_UPDATE]) WRT_8039 Inserted rows - Requested: 3 Applied: 3 Rejected: 0 Affected: 3 Mutated from update: 3
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8043	*****END LOAD SESSION*****
INFO	12/24/2012 4:27:56 PM	node01_mitest	WRITER_1_*_1	WRT_8006	Writer run completed.
INFO	12/24/2012 4:27:56 PM	node01_mitest	MANAGER	PETL_24031	***** RUN INFO FOR TGT LOAD ORDER GROUP (1), CONCURRENT SET (1) ***** Thread [READER_1_1_1] created for [the read stage] of partition point [SQ_SRC_BANK_CD] has completed. The total run time was insufficient for any meaningful statistics. Thread [TRANSF_1_1_1] created for [the transformation stage] of partition point [SQ_SRC_BANK_CD] has completed. The total run time was insufficient for any meaningful statistics. Thread [WRITER_1_*_1] created for [the write stage] of partition point [TRG_BANK_CD_INSERT, TRG_BANK_CD_UPDATE] has completed. The total run time was insufficient for any meaningful statistics.
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11031	Transformation [LKPTRANS[version CheckedOut]]:
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11114	[LKPTRANS]: Input Group Index = [0], Input Row Count [9]
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11031	Transformation [UPDTRANS[version CheckedOut]]:
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11114	[UPDTRANS]: Input Group Index = [0], Input Row Count [3]
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11034	[RTRTRANS]: Input - 3
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TT_11069	[TRG_BANK_CD_UPDATE]: Output - 3, Dropped - 0, Rejected - 0
INFO	12/24/2012 4:27:57 PM	node01_mitest	MANAGER	PETL_24005	PETL_24005 Starting post-session tasks. : (Mon Dec 24 16:27:57 2012)
INFO	12/24/2012 4:27:57 PM	node01_mitest	MANAGER	PETL_24029	PETL_24029 Post-session task completed successfully. : (Mon Dec 24 16:27:57 2012)
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TE_7216	Deleting cache files [PMLKUP263_36_0_759w32] for transformation [LKPTRANS].
INFO	12/24/2012 4:27:57 PM	node01_mitest	MAPPING	TM_6018	The session completed with [0] row transformation errors.
INFO	12/24/2012 4:27:57 PM	node01_mitest	MANAGER	PETL_24002	Parallel Pipeline Engine finished.
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	PETL_24012	Session run completed successfully.
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	TM_6022	
					SESSION LOAD SUMMARY =====
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	TM_6252	Source Load Summary.
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	CMN_1740	Table: [SQ_SRC_BANK_CD] (Instance Name: [SQ_SRC_BANK_CD]) Output Rows [9], Affected Rows [9], Applied Rows [9], Rejected Rows [0]
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	TM_6253	Target Load Summary.
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	CMN_1740	Table: [TRG_BANK_CD] (Instance Name: [TRG_BANK_CD_INSERT]) Output Rows [6], Affected Rows [6], Applied Rows [6], Rejected Rows [0]
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	CMN_1740	Table: [TRG_BANK_CD] (Instance Name: [TRG_BANK_CD_UPDATE]) Output Rows [3], Affected Rows [3], Applied Rows [3], Rejected Rows [0]
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	TM_6023	
INFO	12/24/2012 4:27:57 PM	node01_mitest	DIRECTOR	TM_6020	Session [Lookup] completed at [Mon Dec 24 16:27:57 2012].

Target Load Summary



Session Load Summary.

