Business Intelligence Solution Provide

Informatica Power Center 9.0.1

Building Financial Data Mode - Lab#14 Hands-on Guide on Joiner Transformation

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 Joiner Transformation. Join our professional training program and learn from experts.

History:							
Version Descr	ription Change	A	uthor	Publi	ish Date		
0.1	Initial Draft		Uper	<mark>1dr</mark> a Upadhyay		12th Aug 2011	
0.1	Review#1			Sharma		15th Aug 2011	

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Introduction

Joiner Transformation in Informatica.

The joiner transformation is an active and connected transformation used to join two heterogeneous sources. The joiner transformation joins sources based on a condition that matches one or more pairs of columns between the two sources. The two input pipelines include a master and a detail pipeline or branch. To join more than two sources, you need to join the output of the joiner transformation with another source. To join n number of sources in a mapping, you need n-1 joiner transformations.

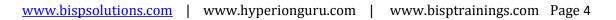
Description

- A Source Qualifier Transformation.
 - Flat File as a source database
 - Used Oracle 11g as a target database.

Mapping Sheet

Definition Name	Joiner Transformation				
Source Name	SRC_CREDITCARD				
Target Name	TRG_CREDITCARD				
Source Details				Target Details	
Entity Name	Field/Expression Name	Data Type	Join Expression	Destination E	Destination Field Name
SRC_ACCRUAL_BASIC_CD	ACCRUAL_BASIC_CD	NUMBER(5,0)			
SRC_ACCRUAL_BASIC_CD	ACCRUAL_BASIC_DISPLAY_CD	VARCHAR2(60 BYTE)			
SRC_IRCS	INTEREST_RATE_CD	NUMBER(5,0)		TRG_IRCS	INTEREST_RATE_CD
SRC_IRCS	IRC_NAME	VARCHAR2(60 BYTE)		TRG_IRCS	IRC_NAME
SRC_IRCS	IRC_FORMAT_CD	NUMBER(5,0)	SRC_IRCS.IRC_FORMAT_CD=SRC_IRCS_FORMAT_CD.IRCS_FORMAT_CD	TRG_IRCS	IRC_FORMAT_CD
SRC_IRCS	ISO_CURRENCY_CD	VARCHAR2(20 BYTE)	SRC_IRCS.ISO_CURRENCY_CD=SRC_Currencies.ISO_CURRENCY_CD	TRG_IRCS	ISO_CURRENCY_CD
SRC_IRCS	ACCRUAL_BASIS_CD	NUMBER(5,0)	SRC_IRCS.ACCRUAL_BASIC_CD=SRC_ACCRUAL_BASIC_CD.ACCRUAL_BASIC_CD	TRG_IRCS	ACCRUAL_BASIS_CD
SRC_IRCS	COMPOUND_BASIS_CD	NUMBER(5,0)	SRC_IRCS.COMPOUND_BASIS_CD=SRC_COMPOUND_BASIS_CD.COMPOUND_BASIS_CD	TRG_IRCS	COMPOUND_BASIS_CD
SRC_IRCS	IRC_DESC	VARCHAR2(300 BYTE)		TRG_IRCS	IRC_DESC
SRC_IRCS	IRC_STRUCTURE_TYPE	NUMBER(1,0)		TRG_IRCS	IRC_STRUCTURE_TYPE
SRC_IRCS	GENERATE_FREQUENCY_FLG	NUMBER(1,0)		TRG_IRCS	GENERATE_FREQUENCY_FLG
SRC_IRCS	INTERPOLATION_TYPE_FLG	NUMBER(1,0)		TRG_IRCS	INTERPOLATION_TYPE_FLG
SRC_IRCS	CREATED_BY	VARCHAR2(20 BYTE)		TRG_IRCS	CREATED_BY
SRC_IRCS	CREATED_DATE	TIMESTAMP(6)		TRG_IRCS	CREATED_DATE
SRC_IRCS	LAST_MODIFIED_BY	VARCHAR2(20 BYTE)		TRG_IRCS	LAST_MODIFIED_BY
SRC_IRCS	LAST_MODIFIED_DATE	TIMESTAMP(6)		TRG_IRCS	LAST_MODIFIED_DATE
SRC_IRCS	HYBRID_CURVE_TYPE_CD	NUMBER(5,0)		TRG_IRCS	HYBRID_CURVE_TYPE_CD
SRC_IRCS	MOVING_AVG_TERM	NUMBER(5,0)		TRG_IRCS	MOVING_AVG_TERM
SRC_IRCS	MOVING_AVG_TERM_MULT	CHAR(1 BYTE)		TRG_IRCS	MOVING_AVG_TERM_MULT

SRC_IRCS	VOLATILITY_CURVE_FLG	NUMBER(1,0)	TRG_IRCS	VOLATILITY_CURVE_FLG
SRC_IRCS	DISPLAY_FOR_ALL_CCY_FLG	NUMBER(1,0)	TRG_IRCS	DISPLAY_FOR_ALL_CCY_FLG
SRC_IRCS	RISK_FREE_RATE_FLG	NUMBER(1,0)	TRG_IRCS	RISK_FREE_RATE_FLG
SRC_IRCS	LAST_EXECUTION_DATE	TIMESTAMP(6)	TRG_IRCS	LAST_EXECUTION_DATE
SRC_IRCS	MOVING_AVG_ALL_FLG	NUMBER(1,0)	TRG_IRCS	MOVING_AVG_ALL_FLG
SRC_IRCS_FORMAT_CD	IRC_FORMAT_CD	NUMBER(14,0)		
SRC_IRCS_FORMAT_CD	IRC_FORMAT_NAME	VARCHAR2(20 BYTE)		
SRC_COMPOUND_BASIS_CD	COMPOUND_BASIS_CD	NUMBER(14,0)		
SRC_COMPOUND_BASIS_CD	COMPOUND_BASIS_NAME	VARCHAR2(20 BYTE)		
SRC_Currencies	ISO_CURRENCY_CD	VARCHAR2(20 BYTE)		
SRC_Currencies	ISO_CURRENCY_NAME	VARCHAR2(20 BYTE)		



Source Table

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K.	Name	Datat
😵 F	COMPOUND_B	numbi
N.	COMPOUND_B	string
•		F

ф.	SRC_IRCS (Flat F	ile) 💴
K	Name	Datatype
8	INTEREST	number
	IRC_NAME	string
Ŷ	IRC_FOR	number
Ŷ	ISO_CUR	string
Ŷ	ACCRUAL	number
Ŷ	COMPOU	number
	IRC_DESC	string
	IRC_STRU	number
	GENERAT	string
	INTERPOL	string
	CREATED	string
	CREATED	string
	LAST_MO	string
	LAST_MO	string
	HYBRID_C	string
	MOVING	string
	MOVING	string
	VOLATILIT	number
	DISPLAY	number
	RISK_FRE	number
	LAST_EXE	string
	MOVING	number
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Ta<mark>rget Table</mark>

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Target Designer

2	TRG_IRCS (Oracle)	? 🕳
К.	Name	Datatype 🔺
Ŷ	INTEREST_RA	number(p,s
	IRC_NAME	varchar2
8	IRC_FORMAT	number(p,s
9 9 9	ISO_CURRENC	varchar2
8	ACCRUAL_BAS	number(p,s
8	COMPOUND_B	number(p,s
	IRC_DESC	varchar2 🔤
	IRC_STRUCTU	number(p,s
	GENERATE_FR	number(p,s
	INTERPOLATIO	number(p,s
	CREATED_BY	varchar2
	CREATED_DATE	timestamp
_	LAST MODIFIE	yarchar2
•		

Creating Repository and Folder

Creating Repository & Connecting it.

Step-1 First create repository, Click on Start -> All Programs -> Informatica 9.0.1 -> Client -> Power Center Client -> Power Center Repository Manager.

Start Informatic 🛐 Outlook Express	
PowerCenter R	🔄 Custom Metadata Configurator
Manager 7-Zip	🕘 Install Comparison Utility
PowerCenter W 🛅 Oracle - OraDb11g_home1 🔸	D PowerCenter Designer
Manager Oracle EPM System	PowerCenter Mapping Architect for Visio
☐ Informatica 9.0.1 ► 📻 Server ►	Report of the second
All Programs 👌 🕑 Mozilla Firefox 🛛 📅 Client 🔸 🛅 Developer Client	
💋 Log Off 🛛 Oshut Down 👼 PowerCenter Cli	ent 🕨 🔟 PowerCenter Workflow Monitor
Uninstaller	
🥂 Start 🛛 🚱 🧶 🚽	
Star 2 Than dishan Danasitan Managada dishan Add Danasita	
Step-2 Then click on Repository Menu and click on Add Repositor	ry.
R Informatica PowerCenter Repo	
Repository Edit View Folder Ver	
<u>Connect</u>	
Disconnect	
Cancel Auto-reconnect	
Add Repository	
<u>C</u> onfigure Domains	
Export Objects	
Import Objects	
Export Metadata	
Import Metadata	
E <u>×</u> it	

Step-3 Give information like Repository Name and Username. Then click on ok button and repository created successfully.

Add Repository	×
Repository:	ОК
Username:	Cancel

Step-4 Now connect repository. Right click on newly created repository and click on connect.

	R Informatica PowerCenter Repository Manag
	Repository Edit View Folder Versioning Securit
	♥�, ♥ ഈ ¥ @ @ №
	Repositories
	✓ Allow Docking
	Hide
	Connect
	Disconnect
	Configure Domains
	Apply Label
Step-5 Give Username	& password and click on Connect.
Connect to Repos	sitory
Connect to Repo	
<u>R</u> epository:	infoReposUser <u>Cancel</u>
Username:	infouser Help
Password:	
	More >>
Security Domain	n: Native
L	

Creating Folder.

Step-1 Go to Informatica Power Center Repository Manager and click on Folder Menu and click on Create.

R Informatica PowerCenter Repository Mai				
<u>R</u> epository <u>E</u> dit <u>V</u> iew	<u>F</u> older	Versioning	Sei	
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	Edi	t	į,	
	Del	ete	Ē	
🗄 🔤 🧑 infoRepost 🔗 Compare				

Step-2 Specify Name of Folder, Description, Owner, OS Profile, Options, Status and got to permissions tab.

Create Folder	
Folder Properties Permissions	
NEWFOLDER0	
Descriptions:	
Owner	
OS Profile OS Profile: None>	
Options	
Allow Shortcut	
Status	
Status: Active	
OK Cancel Help	

	eate Folder	×
	Folder Properties Permissions	1
	C List User C List Group	• List All
	User Name Security Domain Security Domain Native Security Domain Native	
		<u>A</u> dd
		Remove
		R <u>e</u> move All
	Permissions Read Write	Execute
	Owner: infouser	Change Owner
	ОК	Cancel Help
ep-4 This is new	v created Folder	
	y created i older	

 Name
 Comments
 Is Shared
 Owner
 OS Profile

 DispInfo
 no
 infouser

 Transformation
 no
 infouser

Importing Source and Target Table

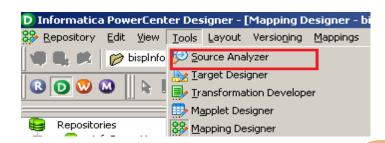
Step-1 Click on Start -> All Programs -> Informatica 9.0.1 -> Client -> Power Center Client -> Power Center Designer.

Start Informatic 😏	Outlook Express			
🖉 Damar Caratan D 🔑	Remote Assistance			🖳 Custom Metadata Configurator
PowerCenter R 🛗	7-Zip	•		🕘 Install Comparison Utility
😡 PowerCenter W	Oracle - OraDb11g_home1	•		PowerCenter Designer
Manager 🛅	Oracle EPM System	•	ļ	PowerCenter Mapping Architect for Visio
· · · · · · · · · · · · · · · · · · ·	Informatica 9.0.1	🛅 Server 🕨		Repository Manager
All <u>P</u> rograms 🕨 🕹	Mozilla Firefox	ີ Client 🔸	🛅 Developer Client 🌍 🕨	💟 PowerCenter Workflow Manager
	💋 Log Off	O Shut Down	💼 PowerCenter Client 🔸	🔕 PowerCenter Workflow Monitor
			💽 Uninstaller	1
🦺 Start 🛛 🞯 🥭 👹				1

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

D Informatica PowerCenter Designer - [St
<u>Repository</u> Edit View Tools Versioning
Repositories
Repositories
Hide
Connect
Disconnect
Configure Domains

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



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

D Informatica PowerCenter Designer - [Source	e Analyzer - bispInto - LintoReposl
😒 Repository Edit View Tools Layout Versior	ning Sources Window Help
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Repositories	1
infoReposUser	Source Analyzer

Step-5 And then click on Source menu and select Import from file.

Repository Edit View Tools Layout Versioning Sources Window Help Import from Import from Database Import from Database Import from Import from File Import from Disc	D Informatica PowerCenter Designer - [Source Ar	alyzer - Credir_Card - [infoReposUser]]
	🞾 Repository Edit View Tools Layout Versioning	Sources Window Help
	🗨 🔍 📖 🎓 Credir_Card - [infoReposUser]	
🔝 💟 🥨 🐨 🔤 🚽 🥬 🍸 🚄 📕 Import from Cobol File		Import from <u>Fi</u> le
	▯◙◙◙∞∞▯៲◪	Import from C <u>o</u> bol File

Step-6 Select Flat file which you want to import, Select location in Look in and select file and click OK.

Upen Flat File				<u> </u>
Look <u>i</u> n:	C SrcFiles		- 🖿 🖆 🎟-	
My Recent Documents Desktop My Documents My Computer	 defaultValue.xml DIM_ACCOUNT.csv DIM_COMMON_COA_B.csv DIM_GENERAL_LEDGER_B.csv DIM_ORG_UNIT_B.csv DIM_ORGDUCTS_B.csv SRC_ACCID_HEALTH_INS_CO_CD.csv SRC_ACCOUNT_OFFICER_CD.csv SRC_ACCRUAL_BASIC_CD.csv SRC_BANK_CD.csv SRC_BEHAVIOUR_SUB_TYPE_CD.csv SRC_BEHAVIOUR_TYPE_CD.csv SRC_BRANCH_CD.csv 		SRC_CAL_ROLLING_CC SRC_COMPOUND_BASI SRC_CREDIT_STATUS_ SRC_CREDITCARD.csv SRC_CURRENCIES.csv SRC_DEVOLVEMENT_ST SRC_INSTRUMENT_DA SRC_INSTRUMENT_TYP SRC_INSTRUMENT_TYP SRC_INTEREST_TIMING SRC_INTEREST_TIMING SRC_IRC_FORMAT_CD SRC_IRCS.csv SRC_RATE_CHG_ROUN	IS_CD.csv _CD.csv TATU5_CD.csv TA_SOURCE_CD PE_DISPLAY_CD.r G_TYPE_CD.csv csv
				► I
My Network Places	File <u>n</u> ame:	SRC_IRCS.csv	•	ОК
	Files of <u>type</u> :	All Files (*.*)	-	Cancel
	<u>C</u> ode Page:	MS Windows Latin 1 (ANSI)	, superset of Latin1 💌	

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Step-7 Choose the file type - Delimited, click on Import field names from first line. And the click Next.

File Import Wizard - Step 1 of 3			×	
The Cleb Cile Terrent Wine of will evide the	arrah ina antina array Cart G	:		
The Flat File Import Wizard will guide you thro - Flat File Type	ough importing your flat f	ile sources.	_	
Choose the file type that best describes yo	ur data:			
• Delimited - Characters such as cor	mmas or tabs separate ea	ich field		
C Fixed Width - Fields aligned in column	is with spaces between e	ach field.		
			1	
nter a name for this source: SRC_IRCS				
tart Import at <u>R</u> ow:	Import field nan	nes from first line		
eview of the file C:\Informatica\9.0.1\serve	r\infa_shared\SrcFiles\SR	C_IRCS.csv		
"INTEREST_RATE_CD", "IRC_NA	ME", "IRC_FORMAT	_CD","ISO_,	▲	
"100", "6 Month Treasury", " "110", "1 YR Treasury Index	ι","Ο","HKD","3","Ι «","Ο","HKD","3"	.50","6 Mon ,"150","1		
∥"115","Market Val no Inter	polation","0","	ADP", "3", "		
"500","Prime Monthly (Code "120","Daily YC (Code 120)	<u>, ", "0", "USD", "3"</u>	<u>, "150", "Da</u>	<u>-</u>	
		•		
< Back	Next > Cancel	Help		
× 5944				
	t Button.			
-8 Specify Delimiters and click Nex	t Button.		×	
ile Import Wizard - Step 2 of 3			×	
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Step-9 Specify Name of Column and Click Finish.

Flat File Import Wizard - Step 3 of 3		×
Next, select the name and datatype for each column. Column Information Name: INTEREST_RATE_CD Datatype: O Text Length/Prec. 3 O Numeric Scale 0 O Datetime Width 3	Source definition: Name Type Le Scale I INTEREST Num 3 0 IRC_NAME Text 38 - IRC_FOR Num 1 0 ISO_CURR Text 3 - ACCRUAL Num 1 0 COMPOUN Num 3 0 IRC_DESC Text 38 -	
IN IRC NAME 1 1006 Month Treasury 2 1101 VR Treasury Index 3 115 Market Val no Interpola 4 500 Prime Monthly (Code 500 5 120 Daily VC (Code 120) 6 510 Prime Daily (Code 510) 4	IIS. CO IRC DESC OUSD31506 Month Treas OHKD31501 YR Treasury tion0ADP3150Market Val no) OUSD3150Prime Monthly OUSD3150Paily YC (Cod OHKD3150Prime Daily (]	▲ ▼
Step-10 Apply (Step-4 to Step -9) to it Step-11 This is Source table.	Finish Cancel Help	
Eource Analyzer	SRC_IRCS (Flat File) SRC_IRCS (Flat File) Name Datatype INTEREST number IRC_NAME string	Image: SRC IRC_FORMAT_CD Image Ke Name Image: P IRC_FORMAT N IRC_FORMAT
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SRC_COMPOUND_BAS TI- K. Name Dataty F. COMPOUND_B numby N COMPOUND_B string	CREATED string CREATED string LAST_MO string LAST_MO string HYBRID_C string MOVING string VOLATILIT number DISPLAY number RISK_FRE number LAST_EXE string MOVING number	SRC CURRENCIES (Fla T Ke Name D P ISO_CURRENC st N ISO_CURRENC st
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Step-12 Right click on table to view Data, select Preview Data.

SRC_ACCE	RUAL_BASIC_CD.						
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ACCRUAL	BAS string			INTERES	⊑ору		type
•				IRC_NAMI	🔙 Preview Data	1	ber
				ISO_CURF	Open Mapple	F.	1
🔄 SRC_COMP	POUND_BASIS			ACCRUAL -	Obert wabble	¢.	
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4				GENERAT	🍰 Dependencie:	s	
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Open Flat File Elat File Name: Code <u>P</u> age:	C:\Inform					ose	
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Step-14 Now click on Target Designer.

Step-15 And then select Target menu and click on Import from database to import target table.



Step-16 Specify Username, Owner name, password and then click on connect and then select table and then OK.

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Step-17 Target table in Target Designer.

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Step-18 To view data select table and Right click on that table after that specify Username and Password and then connect it. Then Close it.

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CREATE MAPPING AND DEFINING JOINER TRANSFORMATION

Step-1 Go to Mapping Designer click OK.

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and Create New Mapping and then name of mapping and

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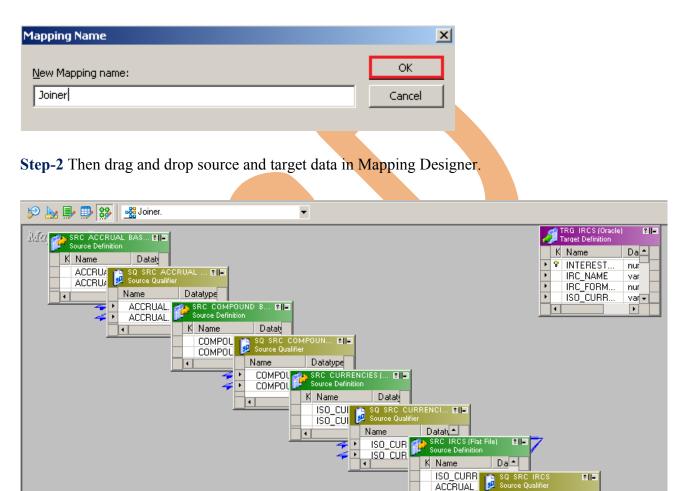
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Name

INTEREST

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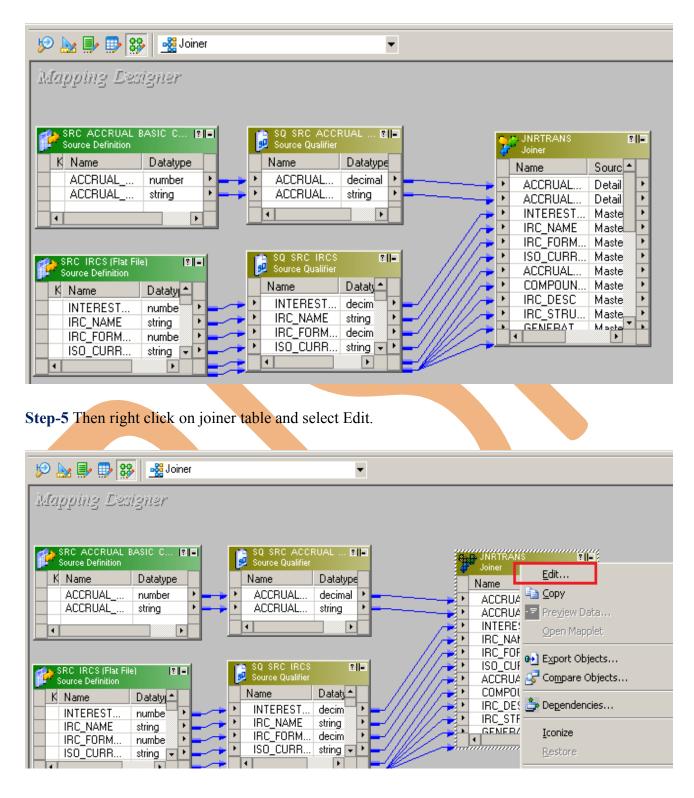
IRC FORM



Step-3 Then create transformation, select Joiner Transformation and drop into Mapping Designer window

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Step-4 Then drag and drop SRC_ACCRUAL_BASIS_CD Source Qualifier and SRC_IRCS Source Qualifier table column into Joiner Table.



Step-6 Select join conditions in Condition tab, then click on apply button and OK.

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Step-7 Then create Joiner Transformation and Then drag and drop SRC_COMPOUND_BASIS_CD Source Qualifier and Joiner table column into newly created joiner transformation table.

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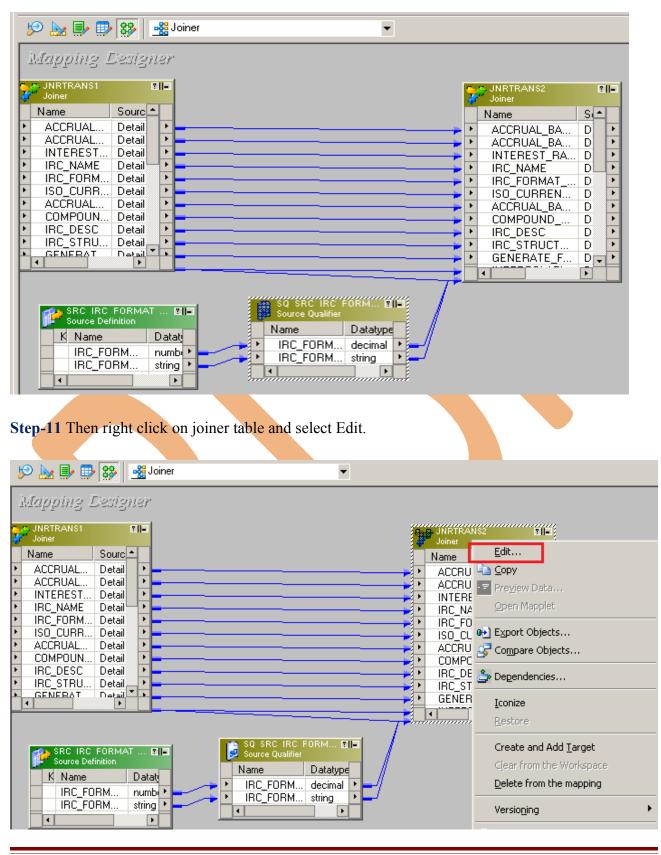
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Step-8 Then right click on joiner table and select Edit.

Step-9 Select join conditions in Condition tab, then click on apply button and OK.

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Step-10 Then create Joiner Transformation and then drag and drop SRC_IRC_FORMAT_CD Source Qualifier and Joiner table column into newly created joiner transformation table.



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Step-12	Select join	conditions in	n Conditi	ion tab,	then click	on apply	button and	OK.
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Step-13 Then create Joiner Transformation and Then drag and drop SRC_CURRENCIES Source Qualifier and Joiner table column into newly created joiner transformation table.

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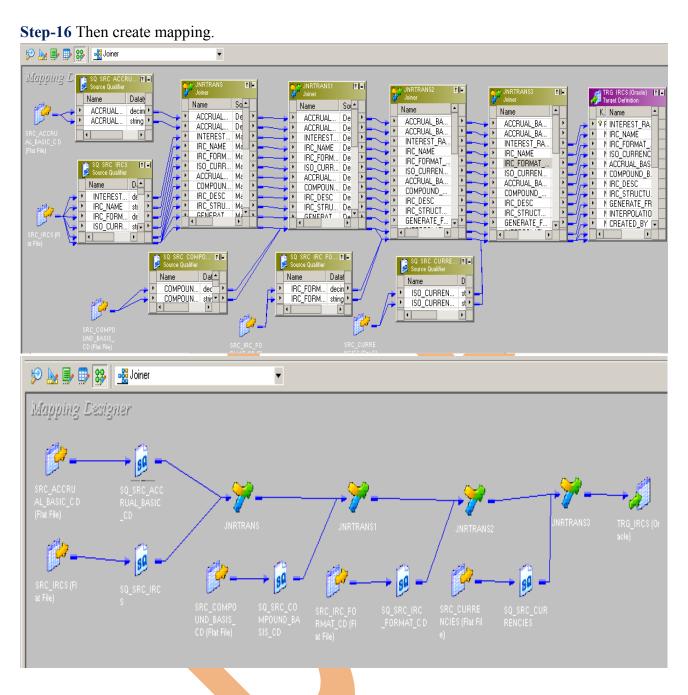
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Step-14 Then right click on joiner table and select Edit.

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Step-15 Select join conditions in Condition tab, then click on apply button and OK.

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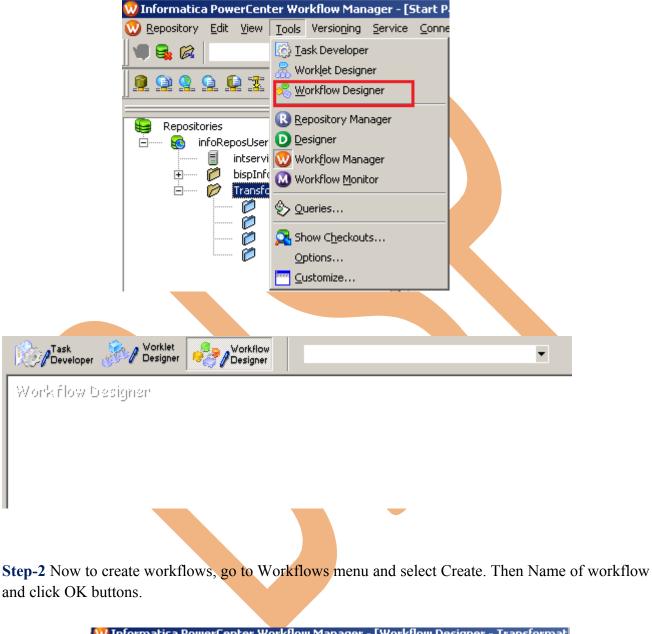
Step-17 And then save it (ctrl+s) and check mapping is VALID.

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CREATE WORKFLOW

Step-1 Now go to Informatica Power Center Workflow Manager, and go to Tools menu and select Workflow Designer.

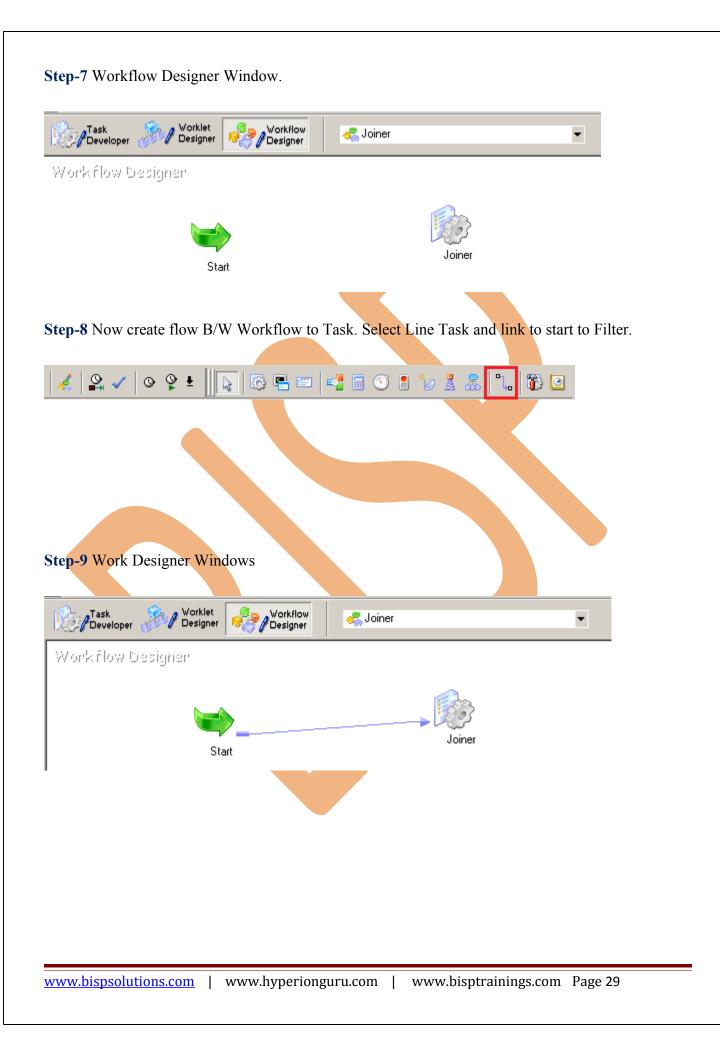


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Step-10 Now Configure Connection to Source and Target, Then Right Click on Filter and Edit, Then Click Mapping tab and configure connection for your source and target table schema in oracle 11g RDBMS. And then click OK.

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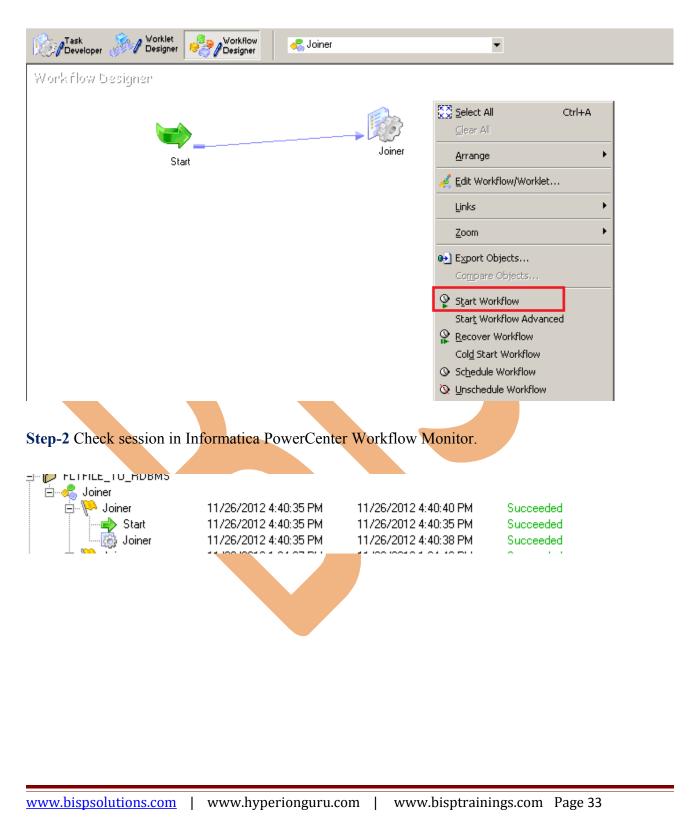
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**** Workflow Joiner is VALID *****					

WORKFLOW MONITOR AND VIEW TARGET DATA

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



Step-3 Check log file of session.(Right click on session and select Get Session Log)

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NFO	Timestamp 11/26/2012 -			TRANSF_1_1_1	CMN 1795	Message The index cache size that would hold [2] input ro	
						from the master for [JNRTRANS2], in memory, is [2000] bytes	
NFO	11/26/2012	4:40:37 PM	node01_mitesł	TRANSF_1_1_1	CMN_1794	The data cache size that would hold [2] input rov from the master for [JNRTRANS2], in memory, is [528] bytes	vs
NFO	11/26/2012	4:40:37 PM	node01_mitesł	WRITER_1_*_1	WRT_8141	Commit on end-of-data Mon Nov 26 16:40:37 20	
NFO	11/26/2012	4:40:37 PM	node01_mitesł	WRITER_1_*_1	WRT_8035	WRT_8036 Target: TRG_IRCS (Instance Name: [TRG_IRCS]) WRT_8038 Inserted rows - Requested: 10 Load complete time: Mon Nov 26 16:40:37 2012	
						LOAD SUMMARY	
						WRT_8036 Target: TRG_IRCS (Instance Name: [TRG_IRCS]) WRT_8038 Inserted rows - Requested: 10 Applied: 10 Rejected: 0 Affected: 10	:
NFO	11/26/2012	4·40·37 PM	node01 mitest	WRITER 1 * 1	WRT 8043	*****END LOAD SESSION*****	
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