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	Description Change	Author	Publish Date
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0.1	Review#1	Amit Sharma	15th Aug 2011

TABLE OF CONTENTS

S.NO	TITLE	PAGE. NO.
1	Introduction.	3-4
2	Creating Repository & Folder.	5-8
3	Import Data Source and Target Tables	9-16
4	Create Mapping and Defining Joiner transformation.	17-24
5	Create Workflow.	25-30
6	Workflow Monitor & Review data.	31-32

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

| Entity Name	Field/Expression Name	Data Type	Join Expression	Destination E	Destination Field Name
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

Target Table

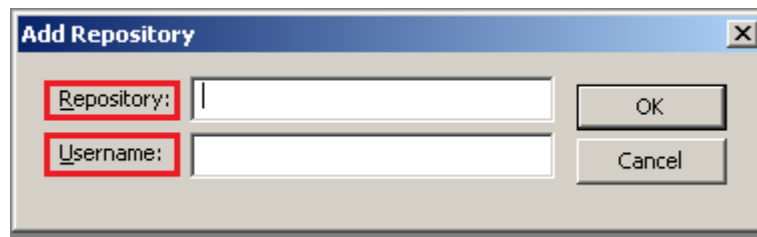## Creating Repository & Connecting it.

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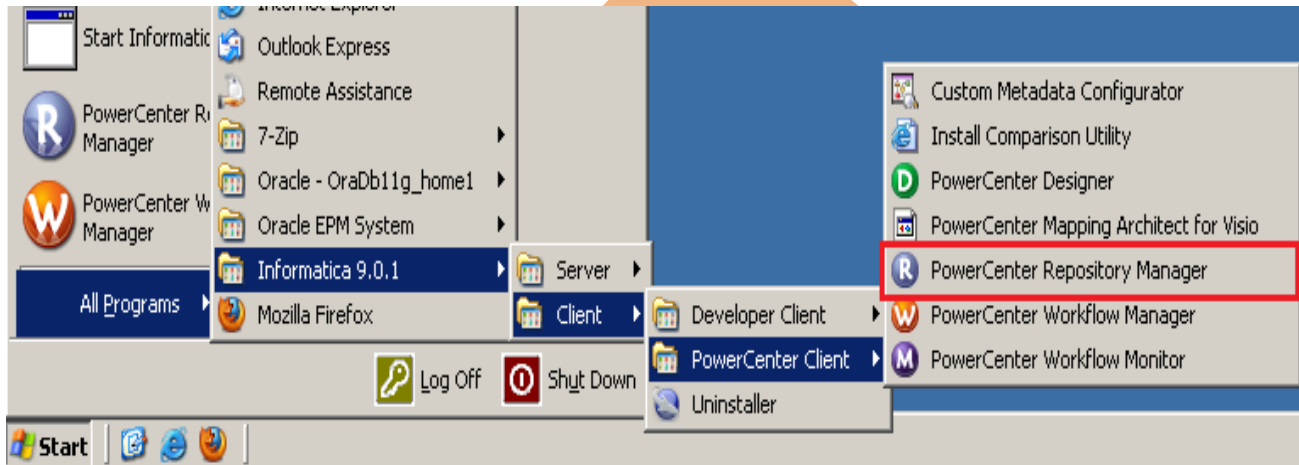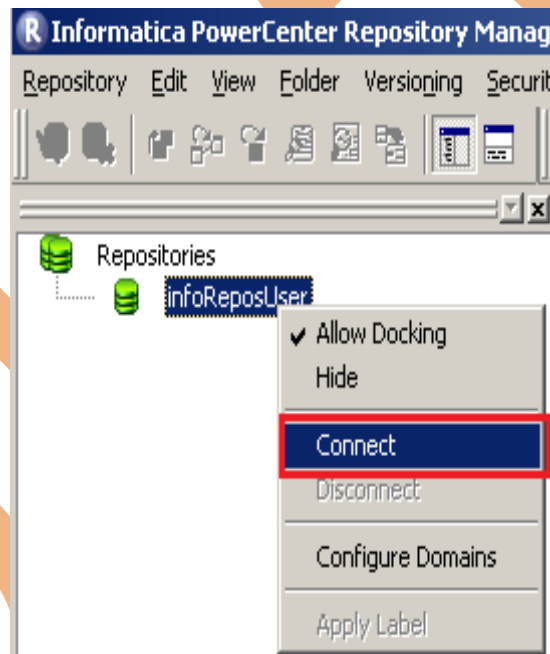

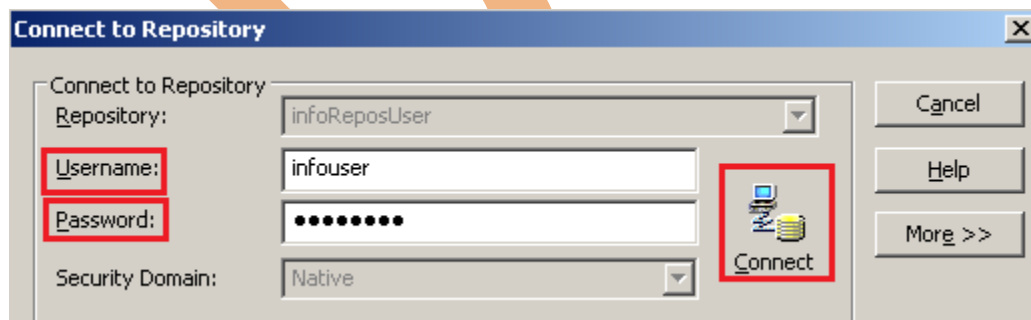**Step-2** Then click on Repository Menu and click on Add Repository.
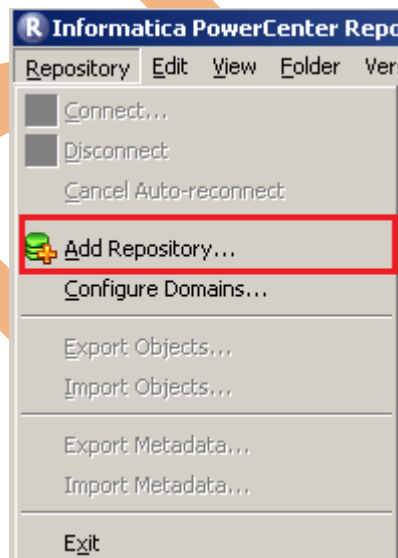
Step-3 Give information like Repository Name and Username. Then click on ok button and repository created successfully.

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

Step-5 Give Username & password and click on Connect.

Creating Folder.

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

Step-2 Specify Name of Folder, Description, Owner, OS Profile, Options, Status and got to permissions tab.
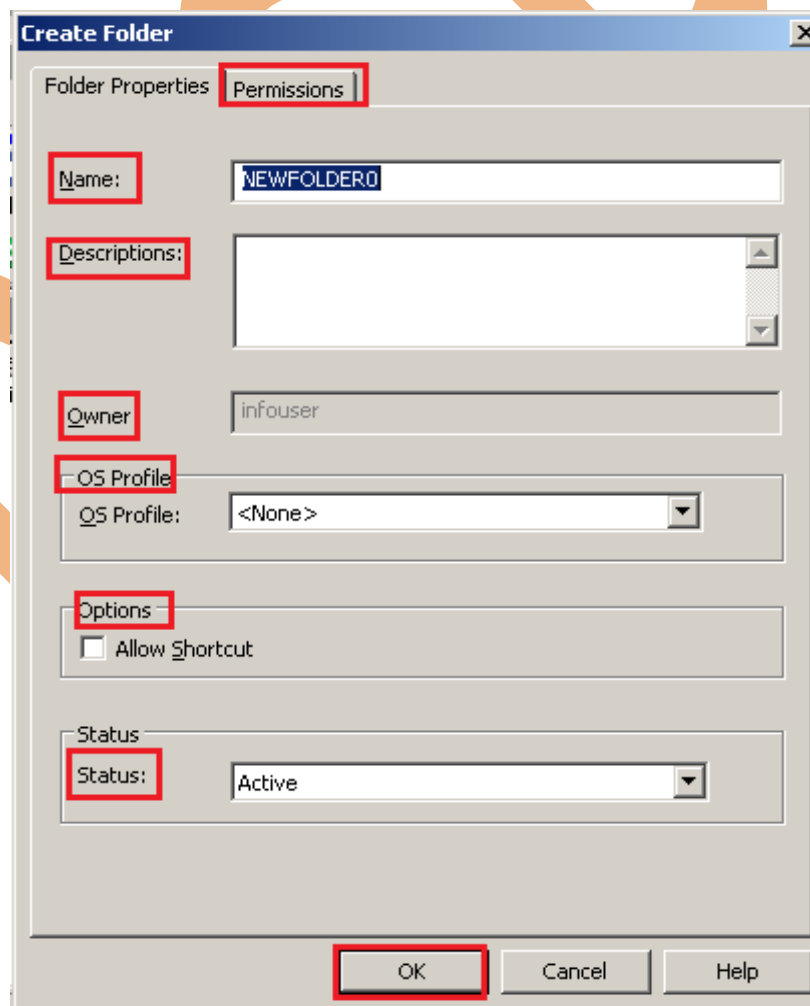
Step-3 This is permission tab to give permission for this folder.
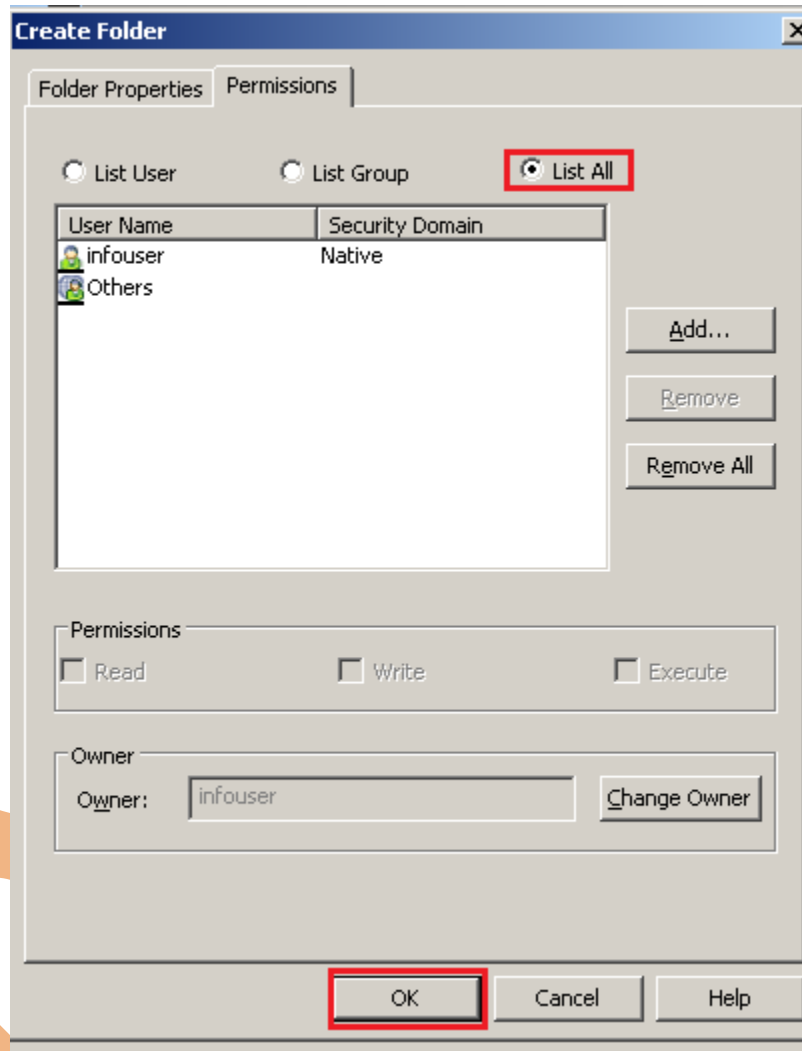
Step-4 This is newly created Folder

Importing Source and Target Table

Step-1 Click on Start -> All Programs -> Informatica 9.0.1 -> Client -> Power Center Client -> Power Center Designer.
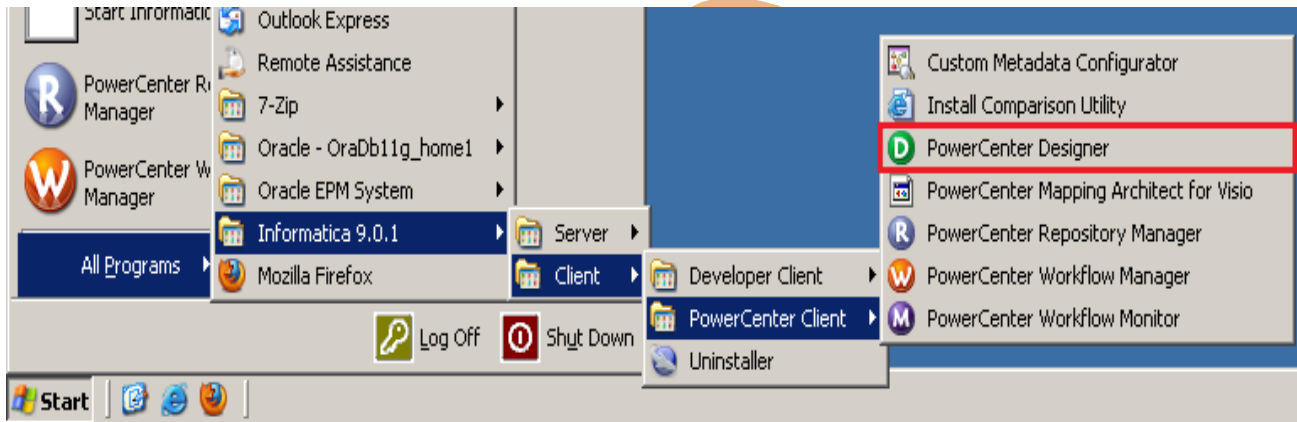
Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and click on Connect.
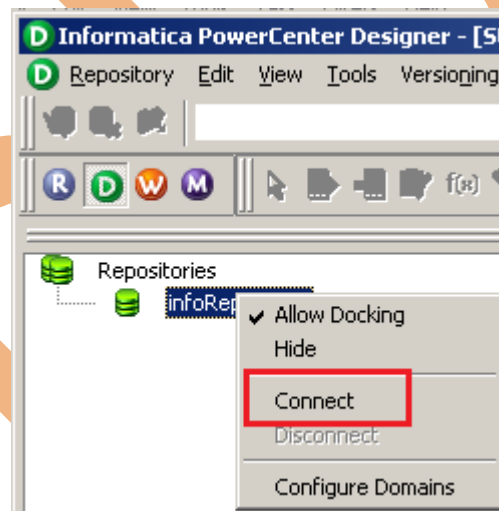
Step-3 Go to Tools Menu and click on Source Analyzer to import source table.
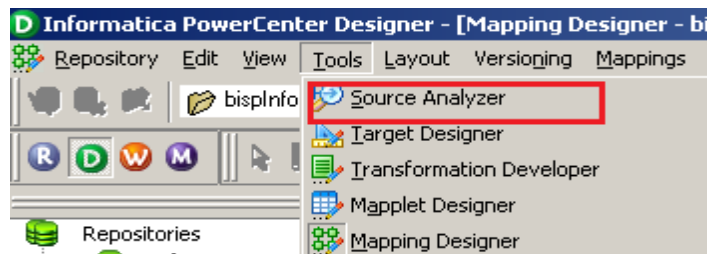
Step-4 And then go to Sources Menu in Informatica Power Center Designer.
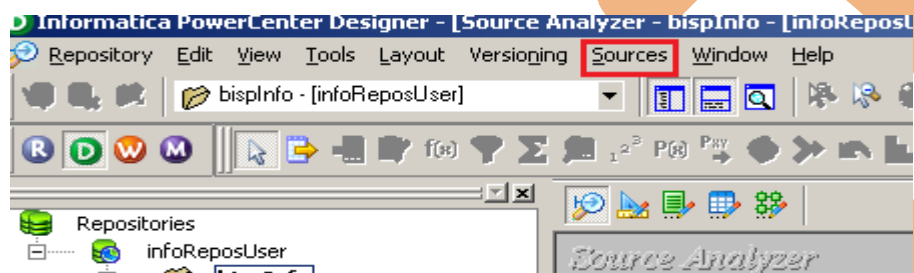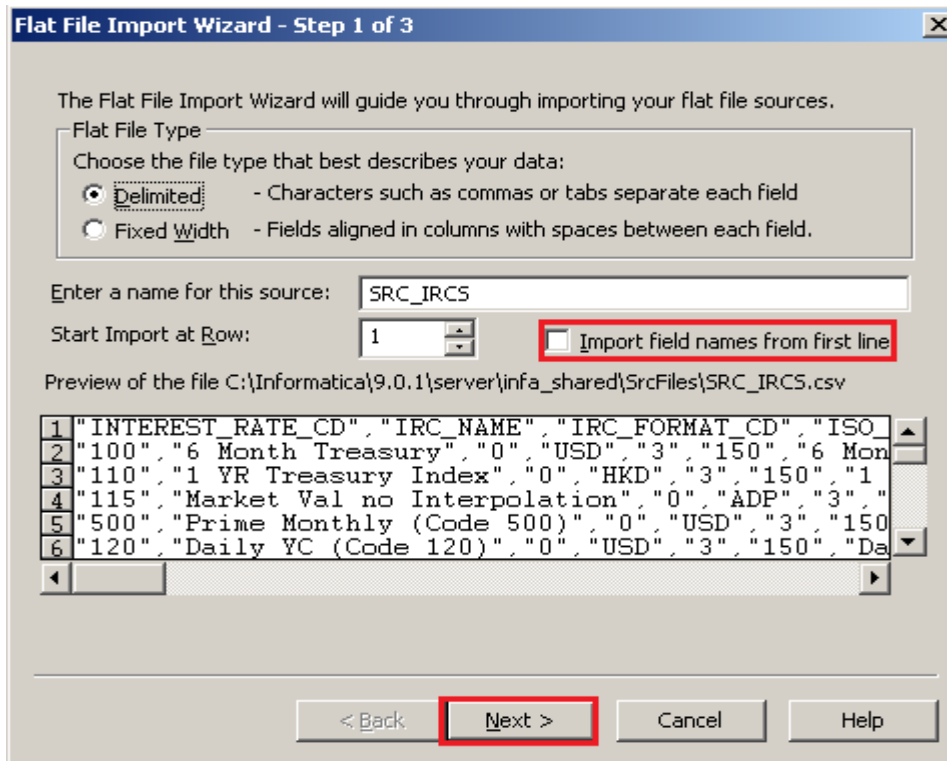
Step-5 And then click on Source menu and select Import from file.
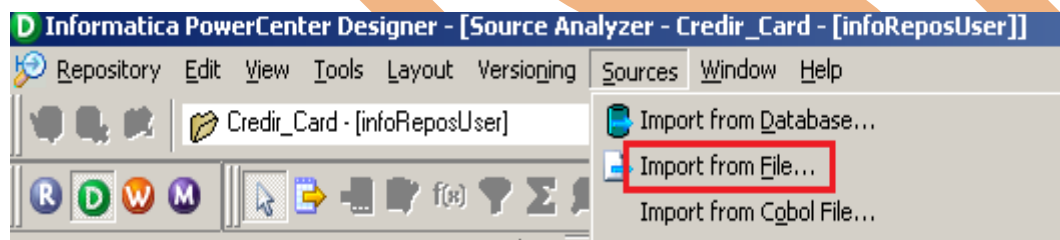
Step-6 Select Flat file which you want to import, Select location in Look in and select file and click OK.
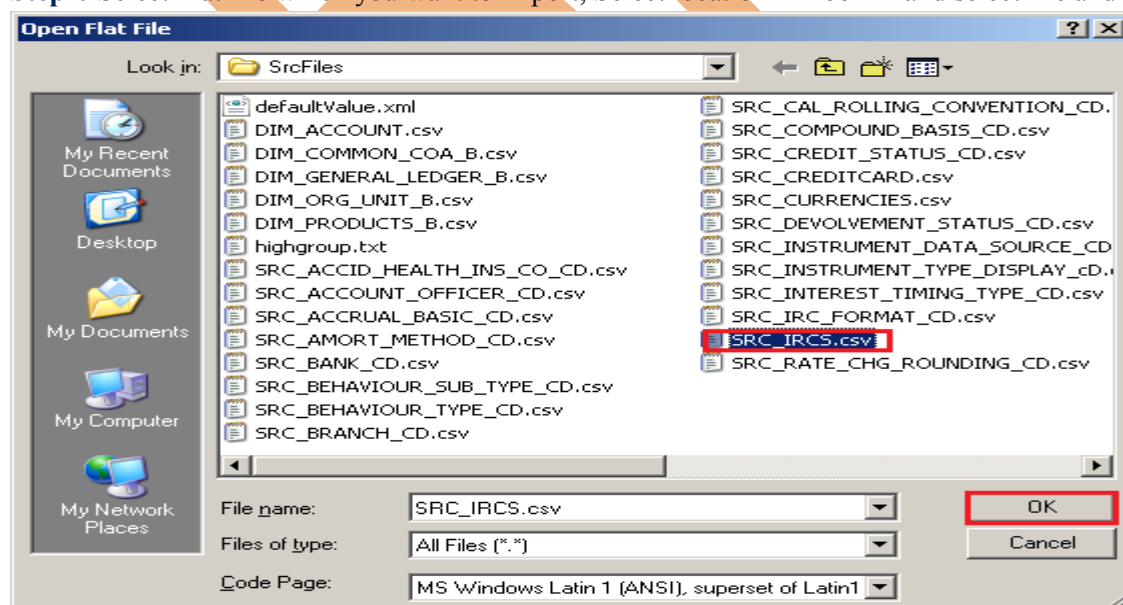
Step-7 Choose the file type - Delimited, click on Import field names from first line. And the click Next.

Step-8 Specify Delimiters and click Next Button.

Step-9 Specify Name of Column and Click Finish.

Step-10 Apply (Step-4 to Step -9) to import all Flatfile.
Step-11 This is Source table.

Step-12 Right click on table to view Data, select Preview Data.
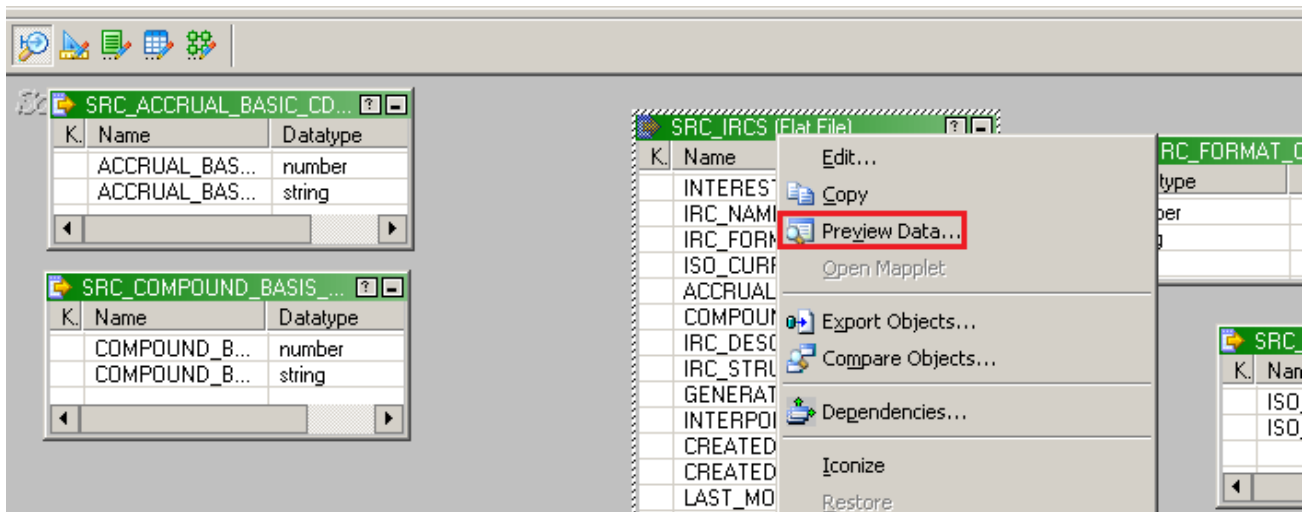
Step-13 Select file location and open it.
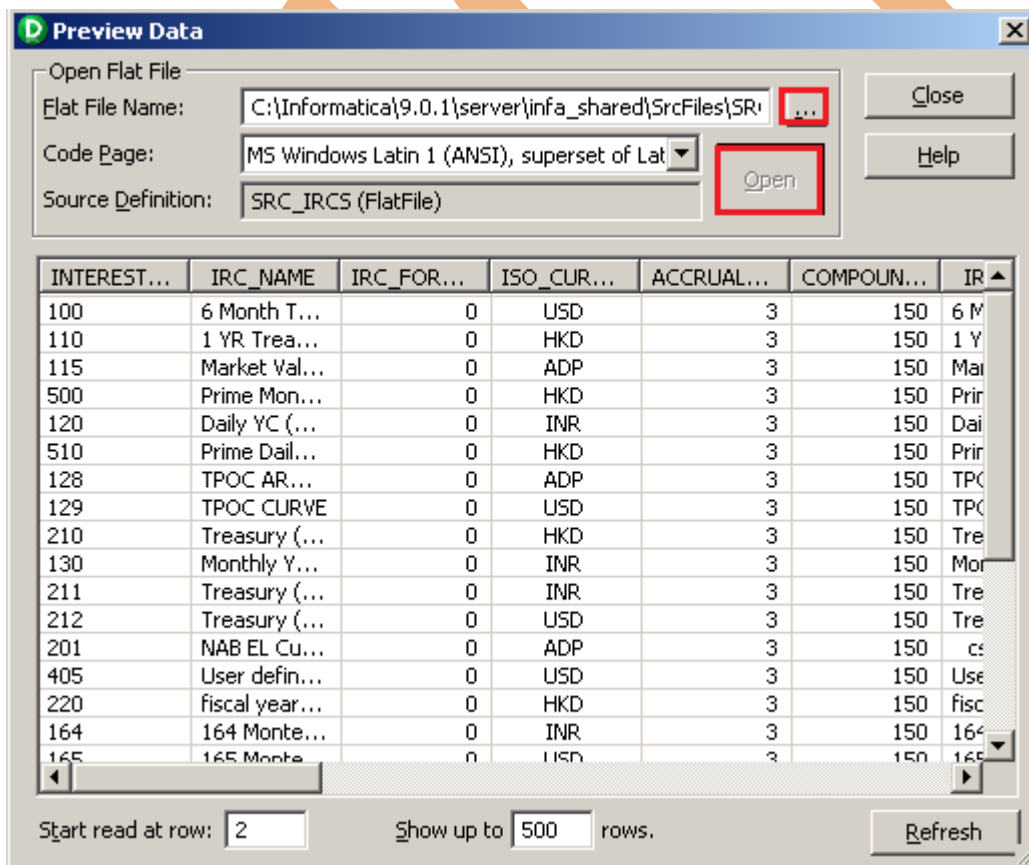
Step-14 Now click on Target Designer.

Step-15 And then select Target menu and click on Import from database to import target table.
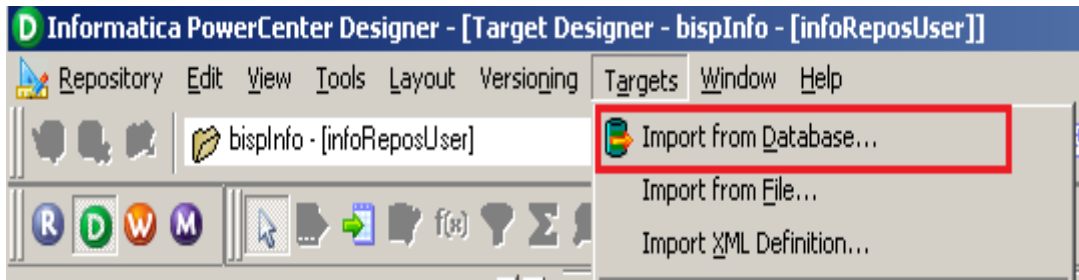
Step-16 Specify Username, Owner name, password and then click on connect and then select table and then OK.
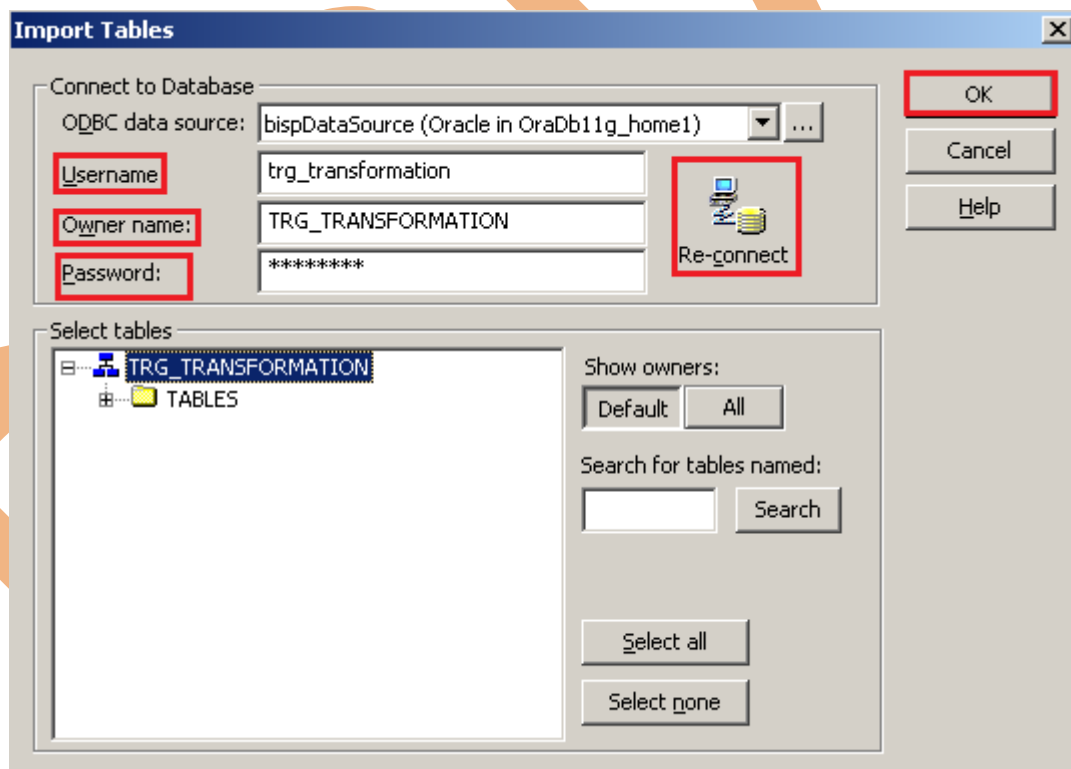
Step-17 Target table in Target Designer.
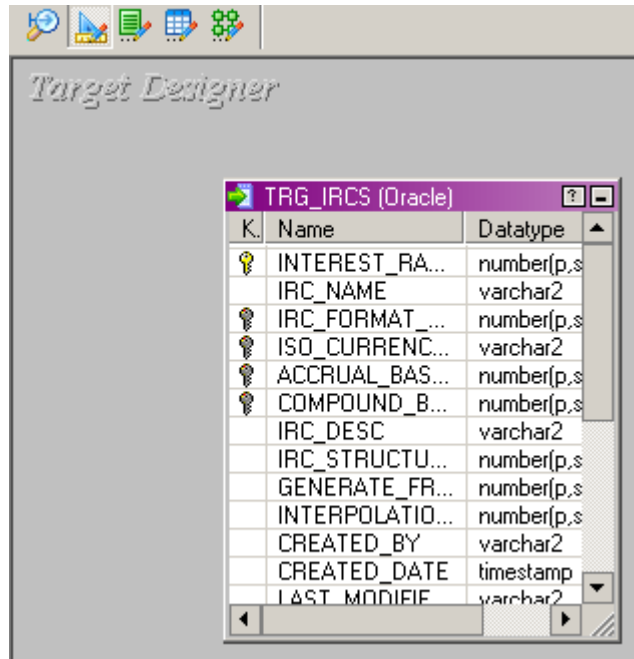
Step-18 To view data select table and Right click on that table after that specify Username and Password and then connect it. Then Close it.
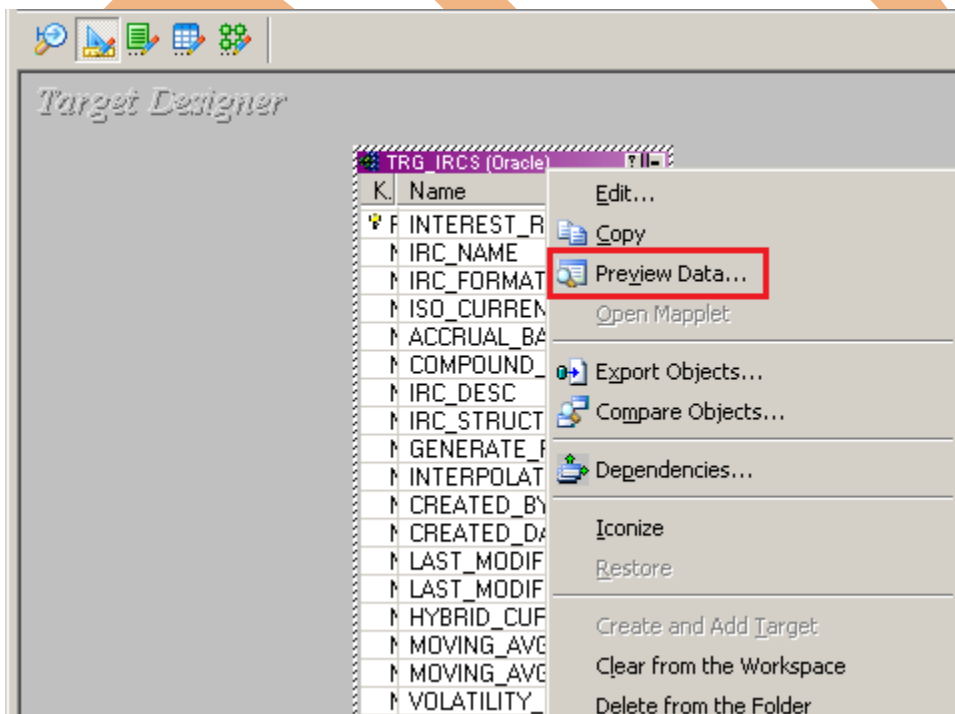
Step-19 Target data.

CREATE MAPPING AND DEFINING JOINER TRANSFORMATION

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

Step-2 Then drag and drop source and target data in Mapping Designer.
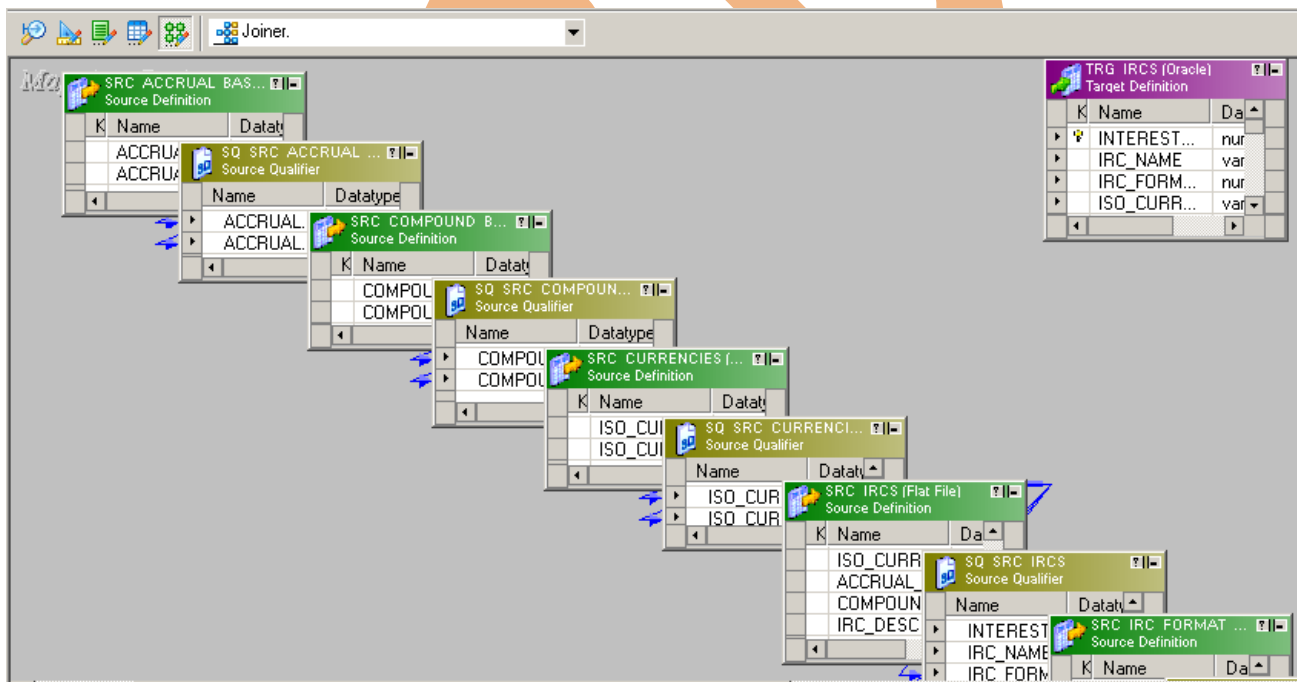
Step-3 Then create transformation, select Joiner Transformation and drop into Mapping Designer window
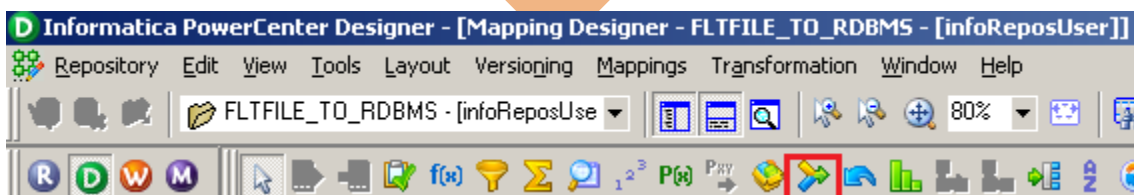
Step-4 Then drag and drop SRC_ACCRUAL_BASIS_CD Source Qualifier and SRC_IRCS Source Qualifier table column into Joiner Table.
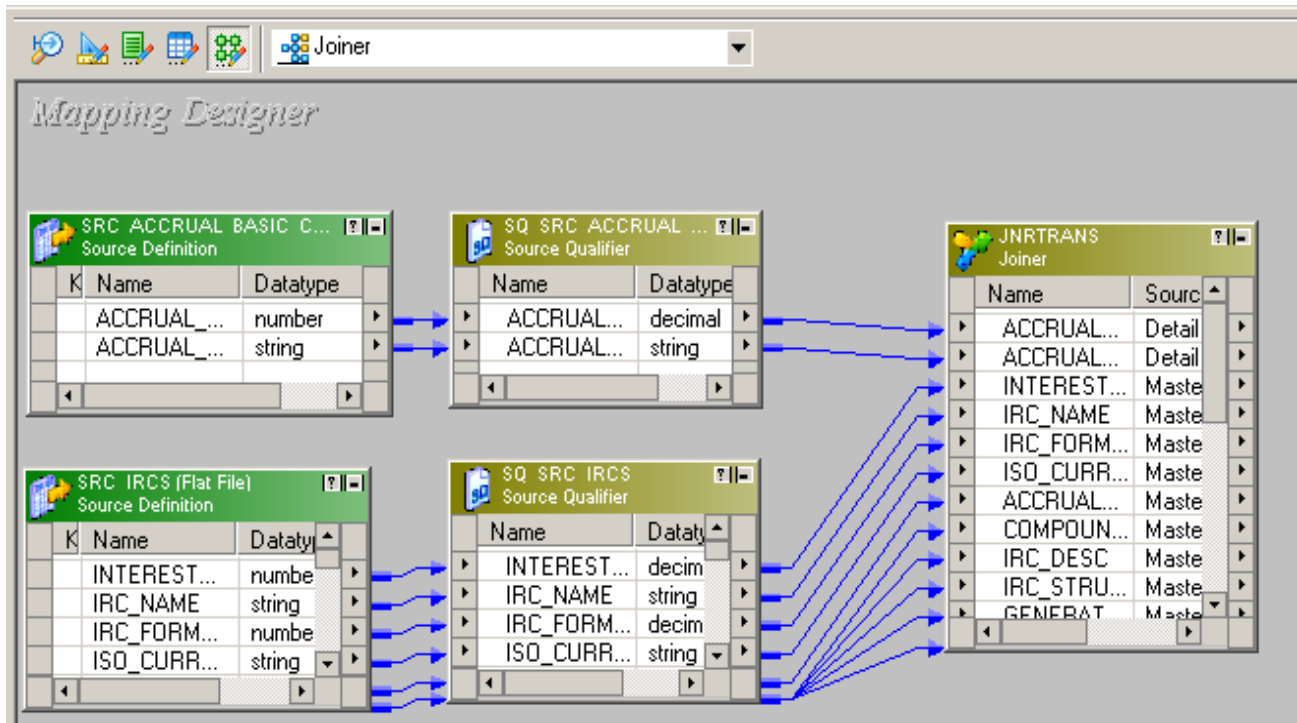
Step-5 Then right click on joiner table and select Edit.
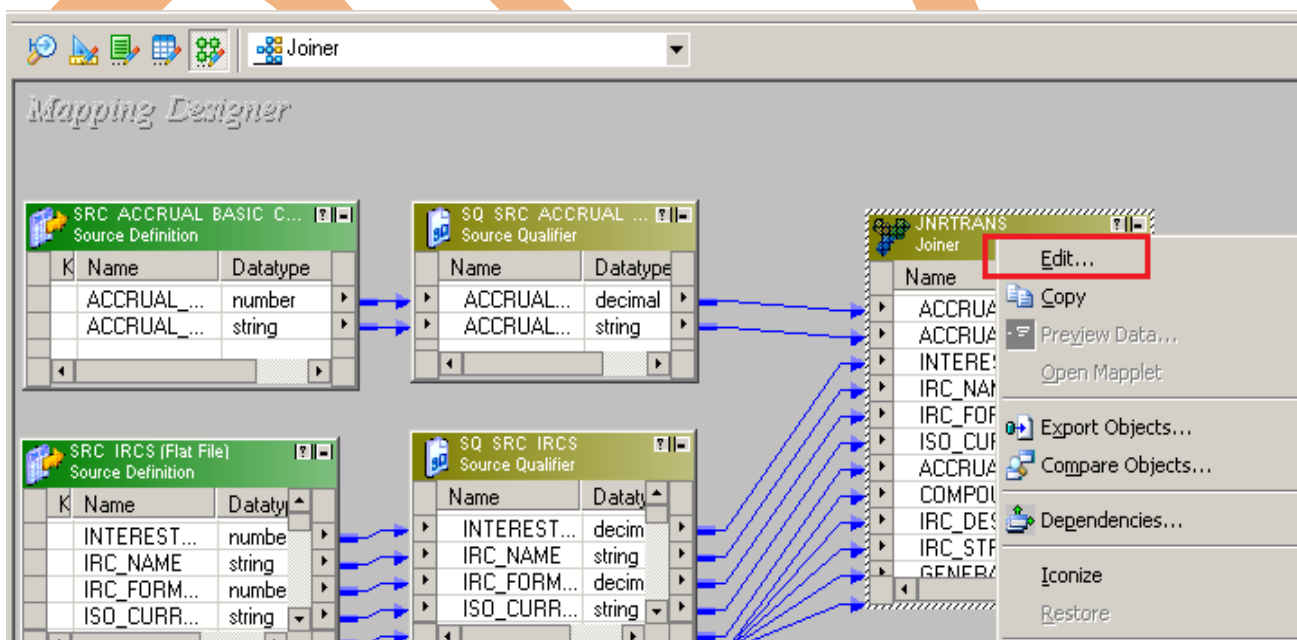
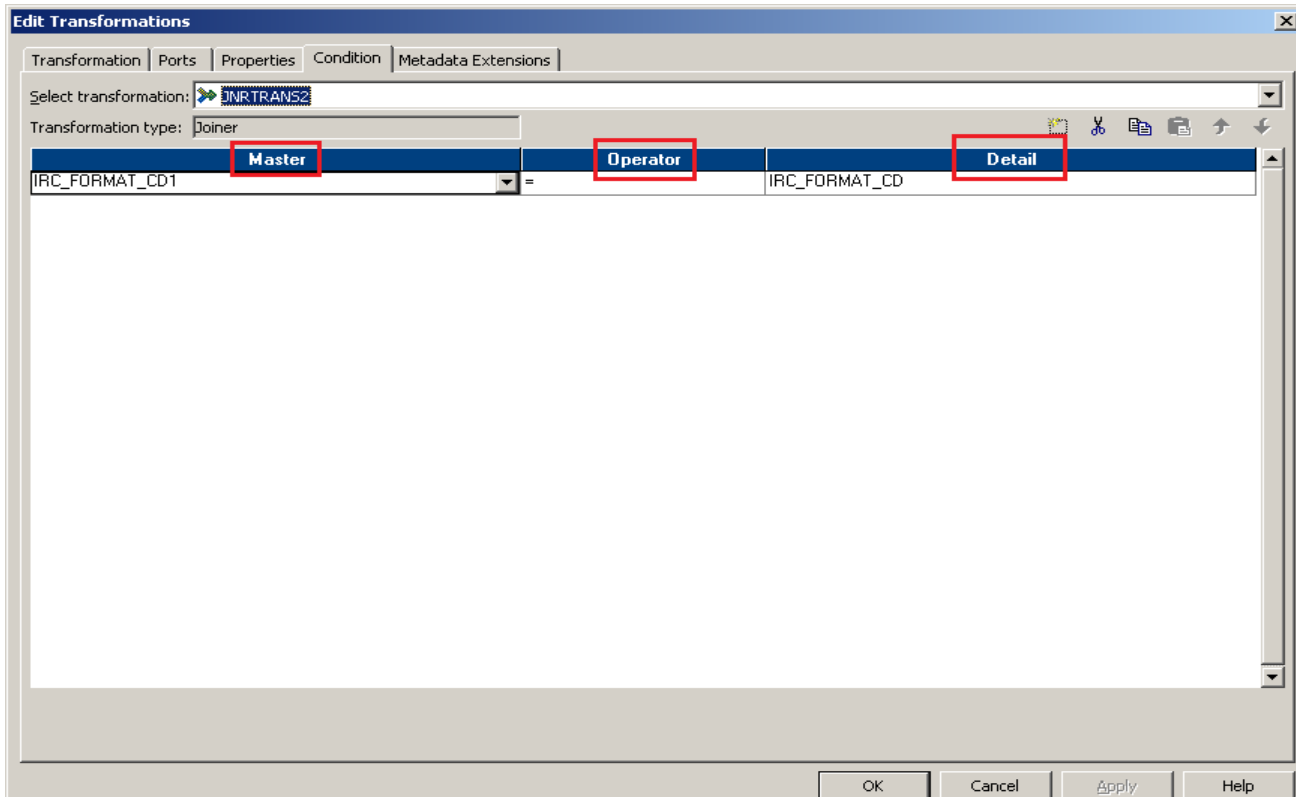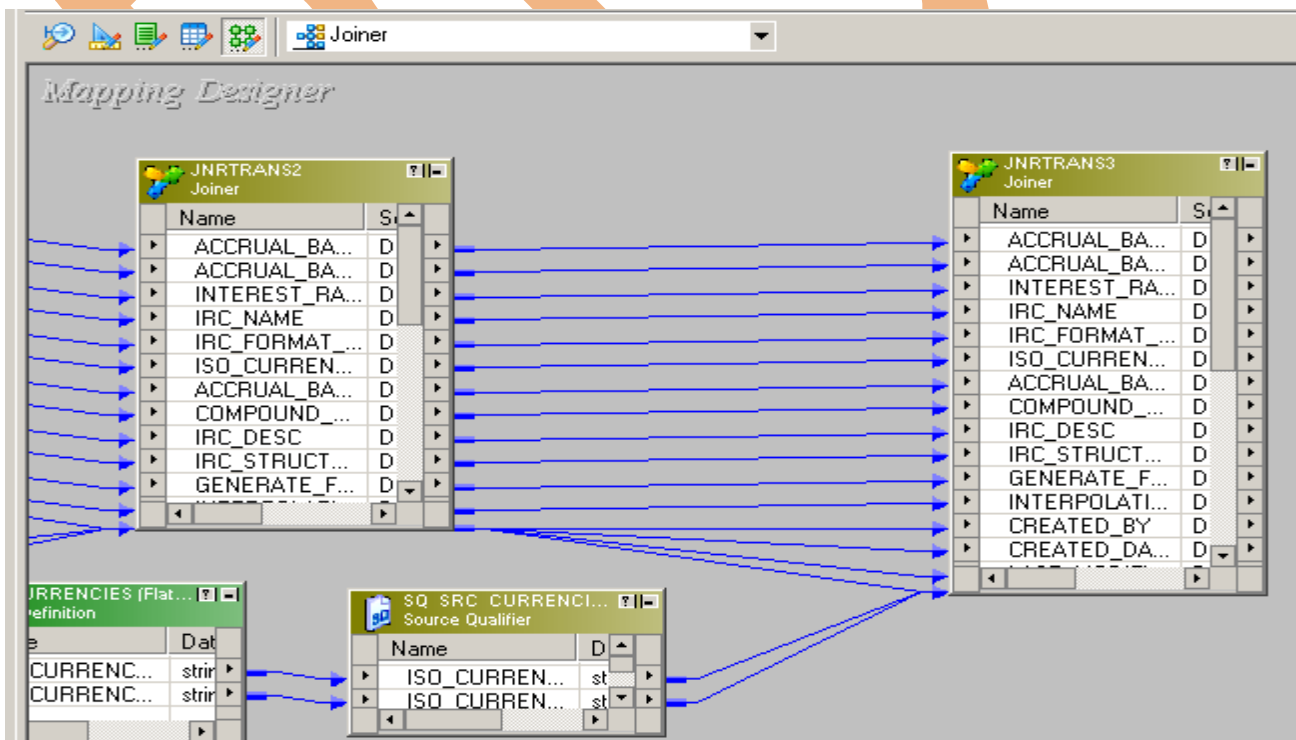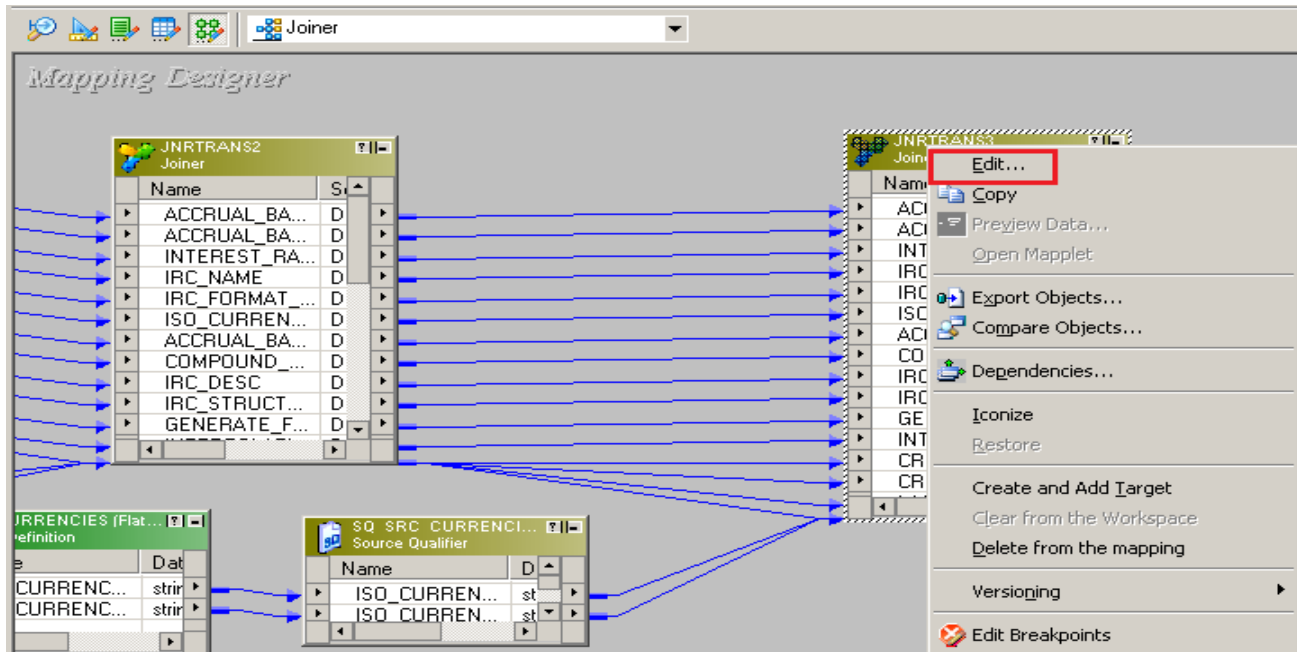**Step-6** Select join conditions in Condition tab, then click on apply button and OK.
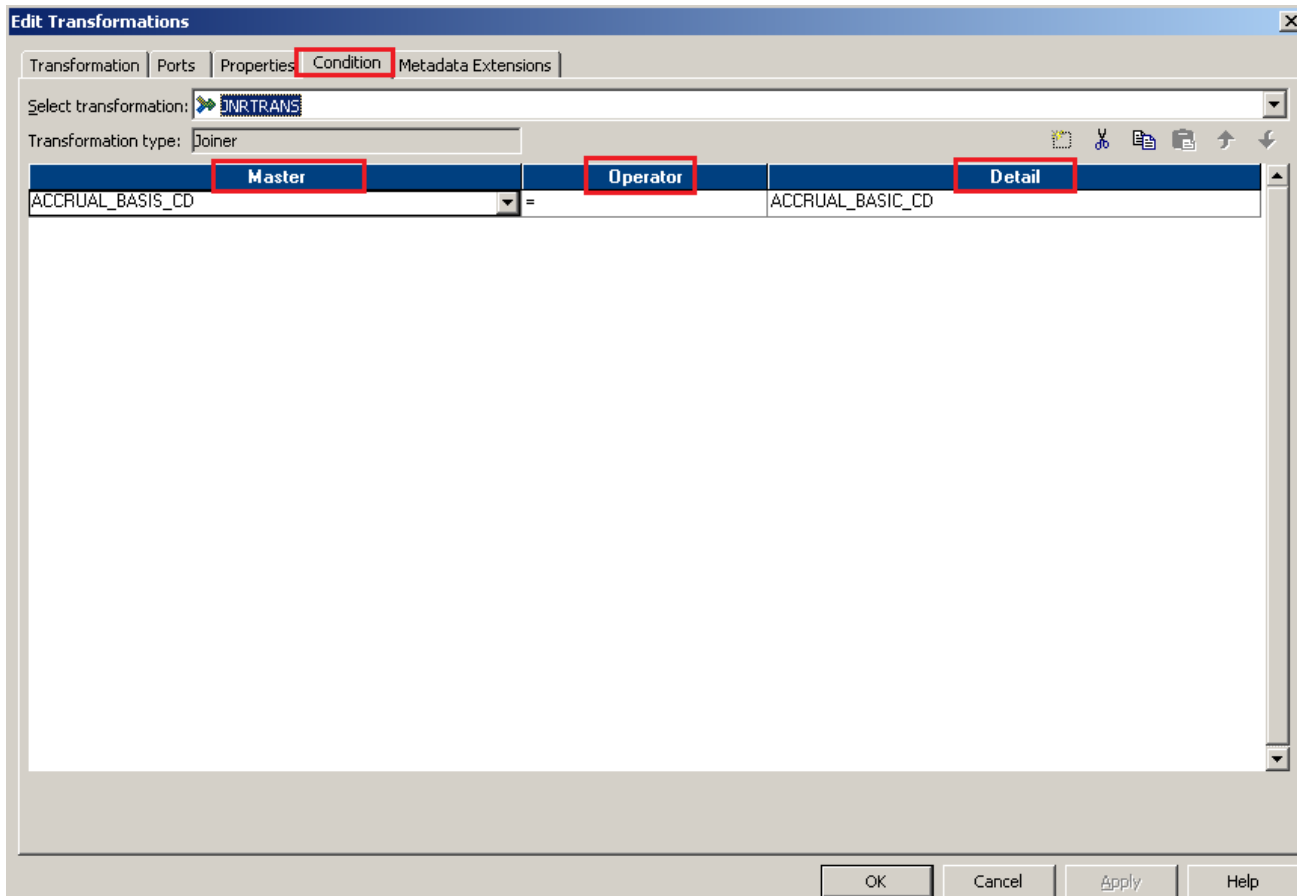
Step-7 Then create Joiner Transformation and Then drag and drop SRC_COMPOUND_BASIS_CD Source Qualifier and Joiner table column into newly created joiner transformation table.
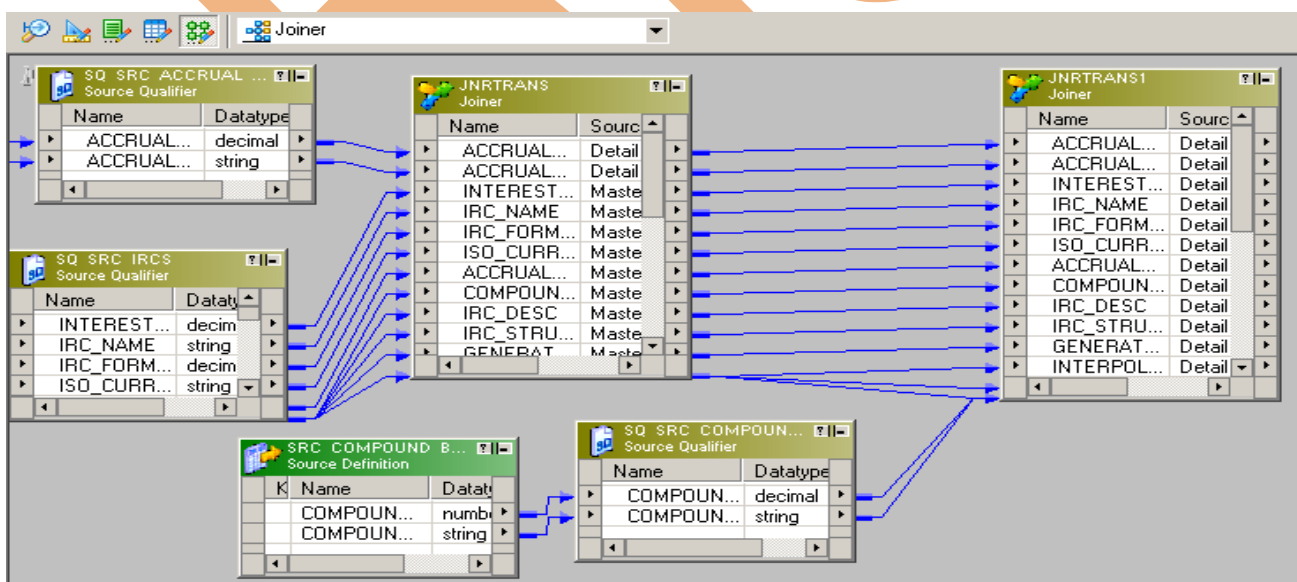
Step-8 Then right click on joiner table and select Edit.
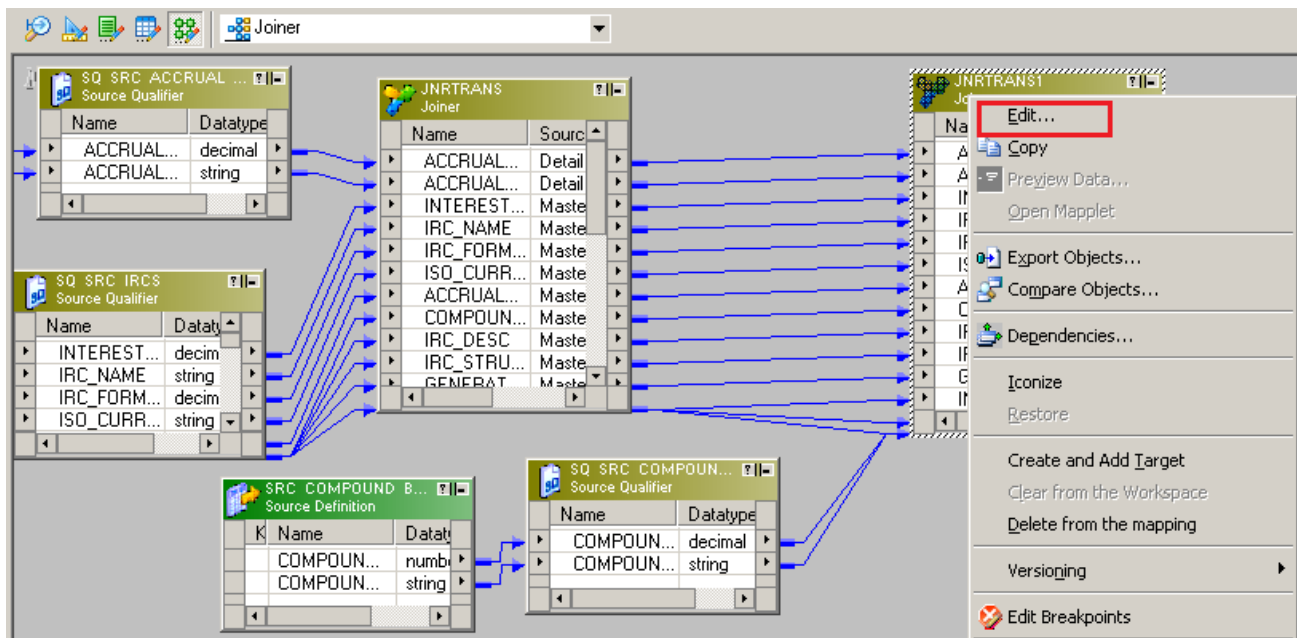
Step-9 Select join conditions in Condition tab, then click on apply button and OK.
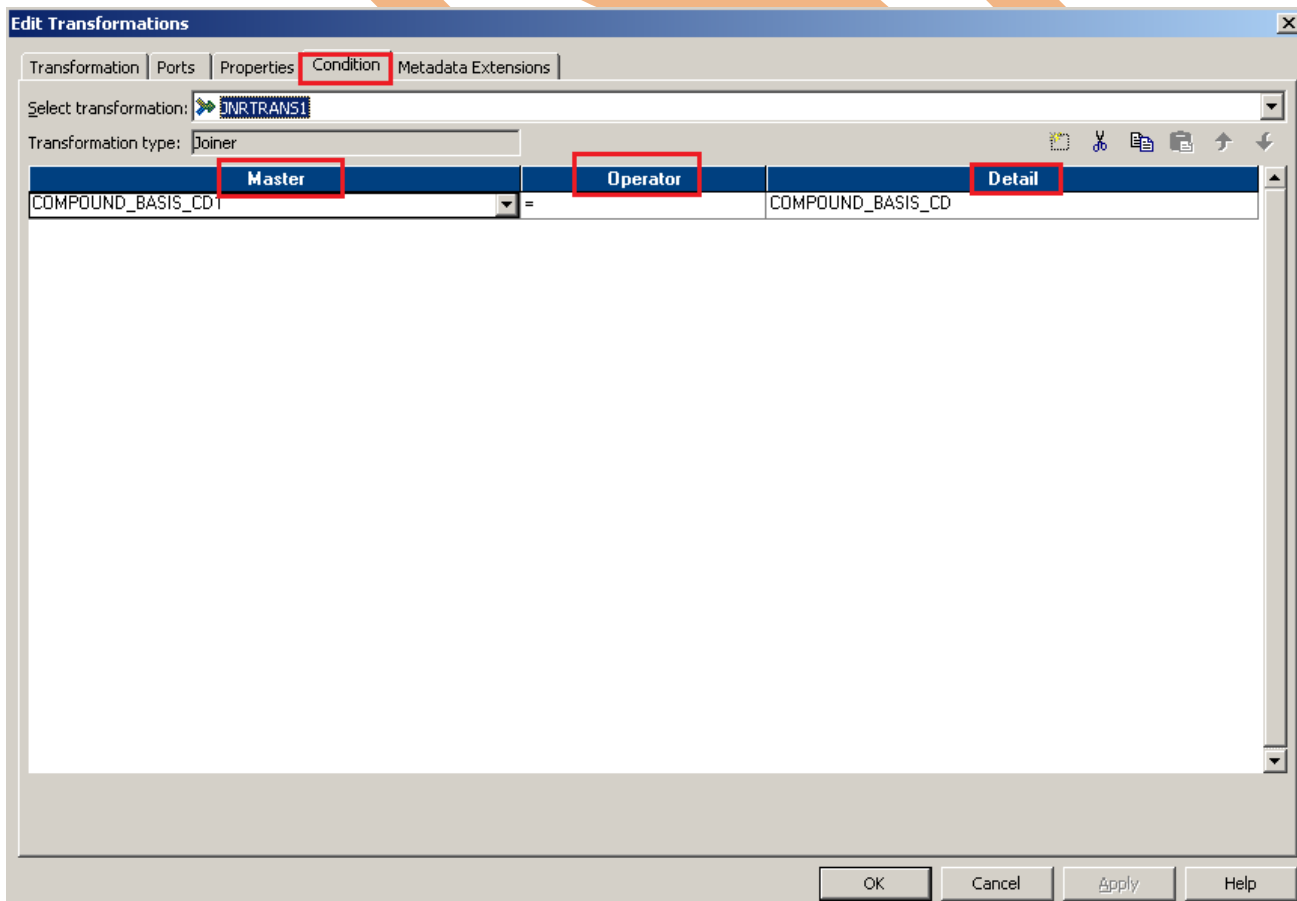
Step-10 Then create Joiner Transformation and then drag and drop SRC_IRC_FORMAT_CD Source Qualifier and Joiner table column into newly created joiner transformation table.
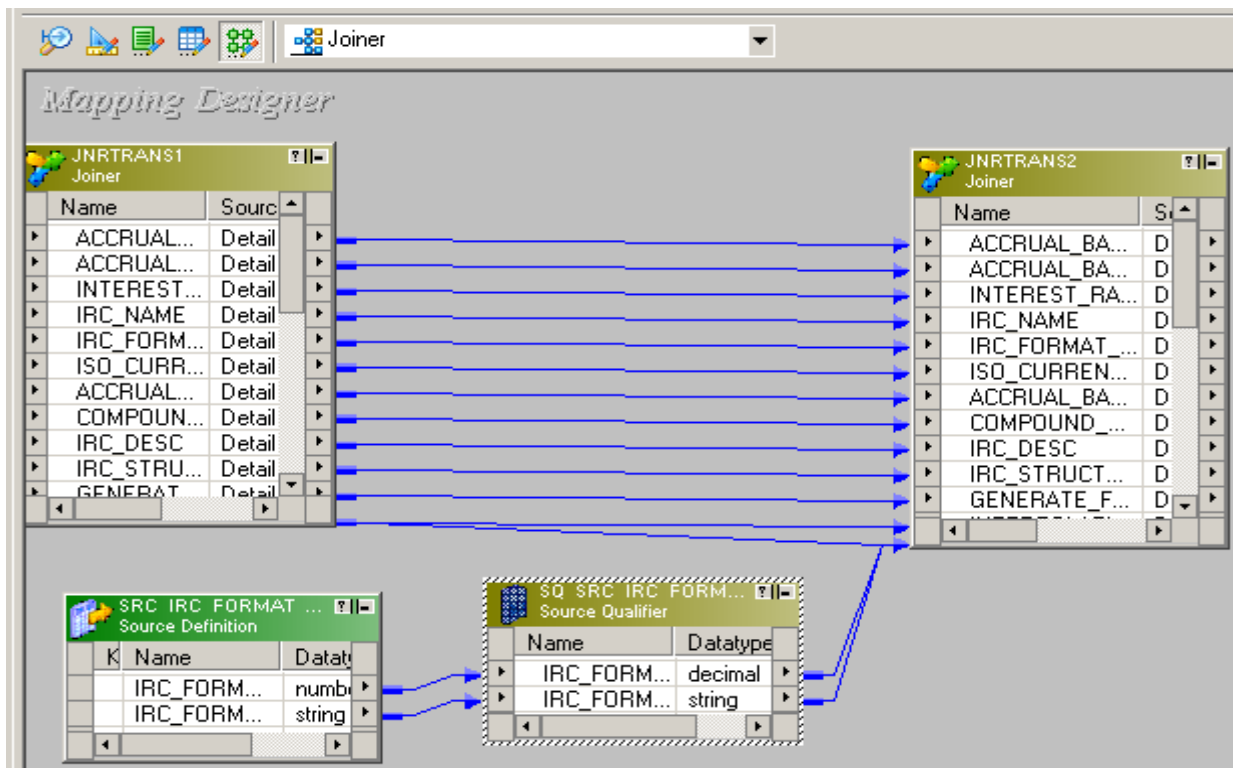
Step-11 Then right click on joiner table and select Edit.
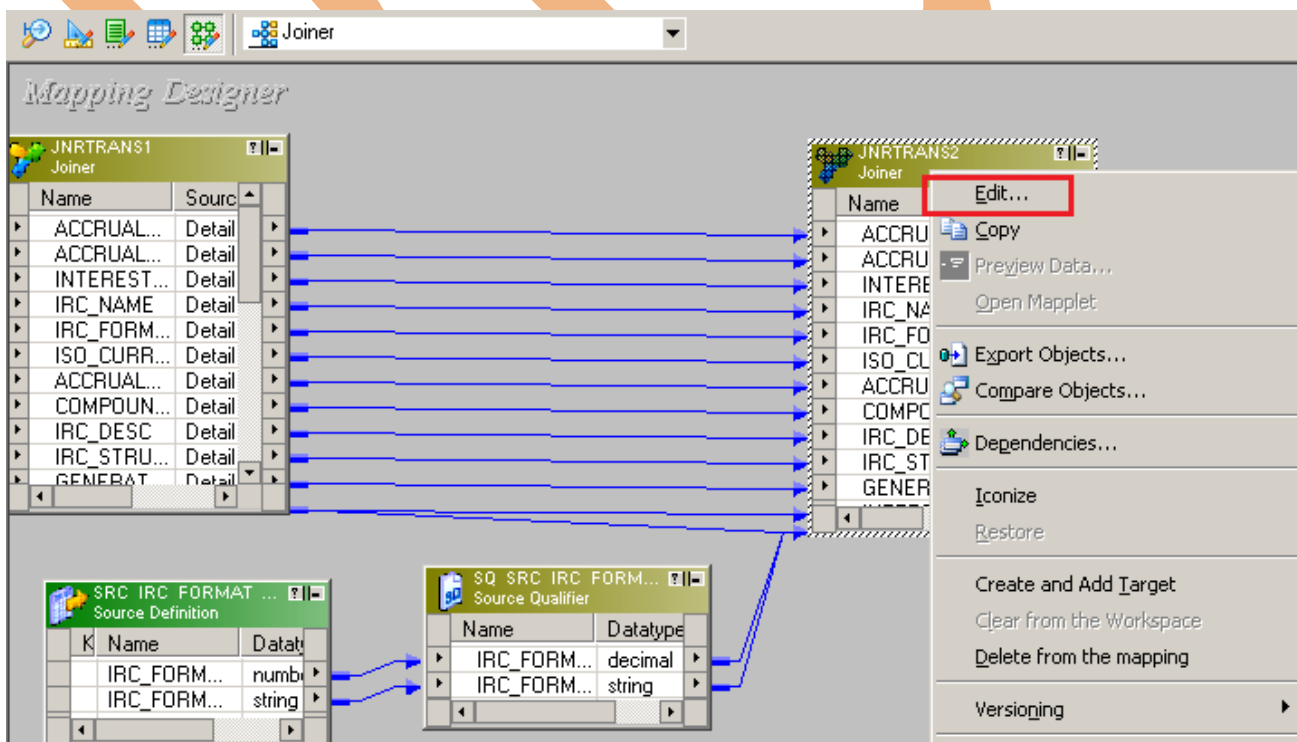
Step-12 Select join conditions in Condition tab, then click on apply button and OK.

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.

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

Step-15 Select join conditions in Condition tab, then click on apply button and OK.
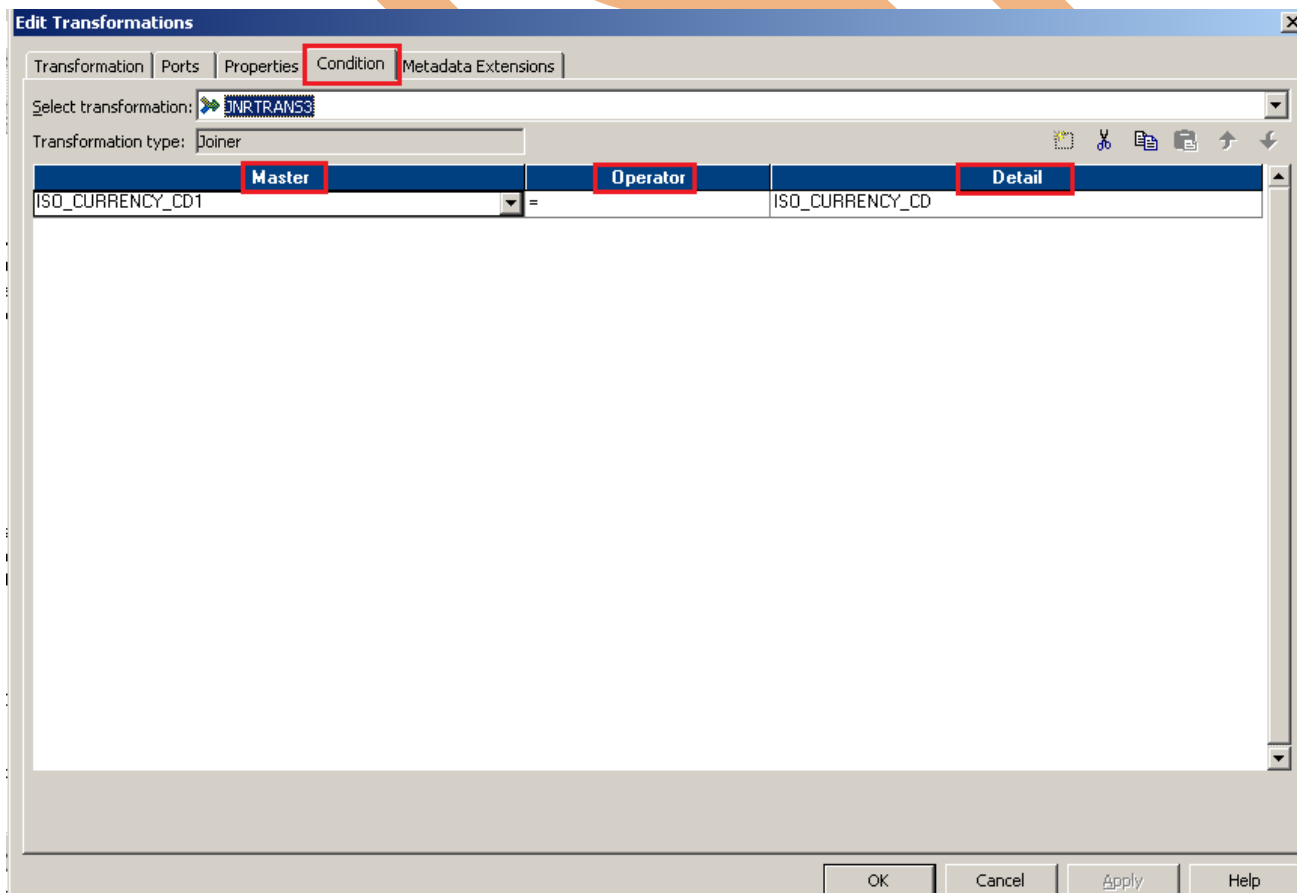
Step-16 Then create mapping.
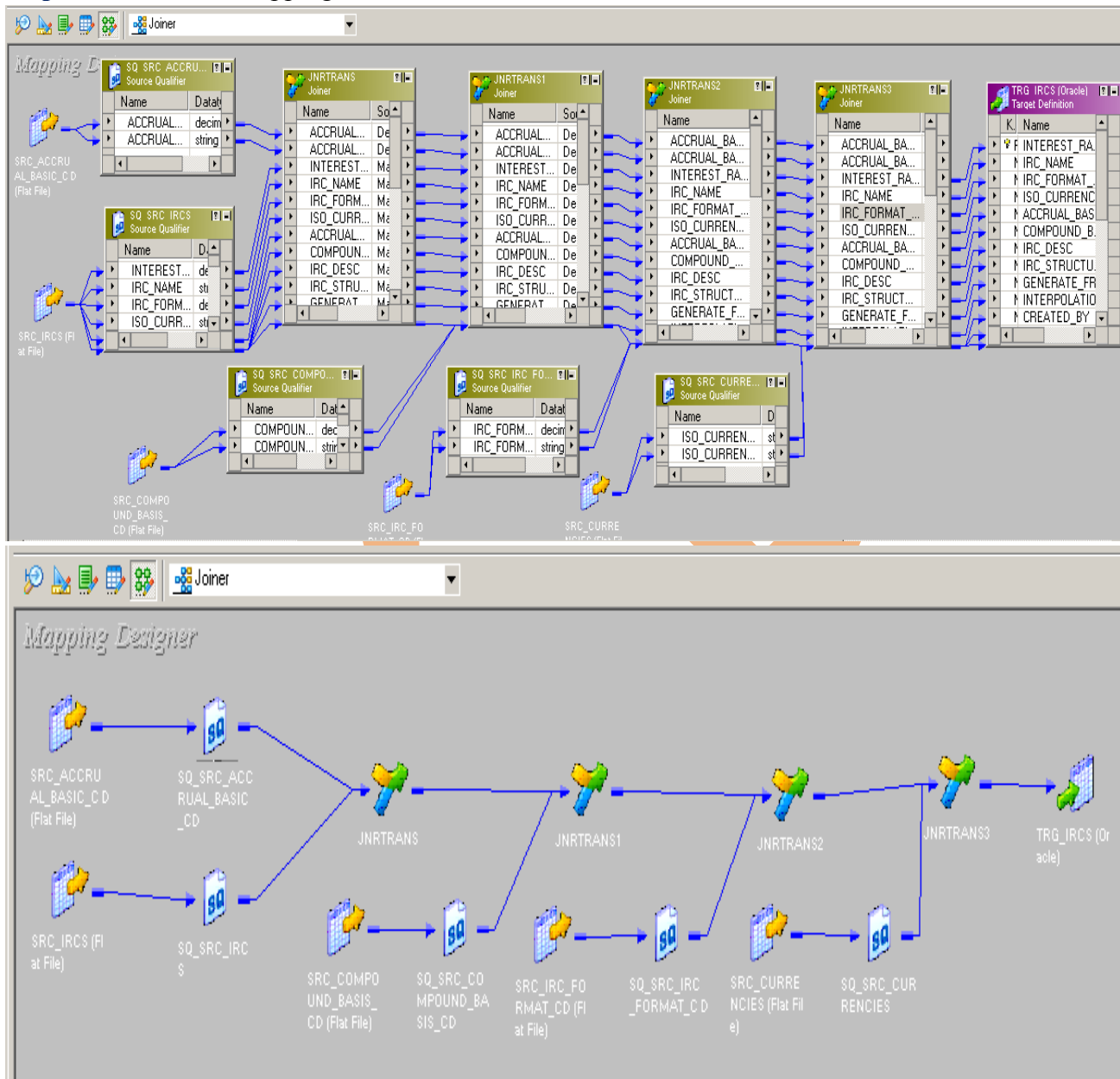
Step-17 And then save it (ctrl+s) and check mapping is VALID.

```
-------------------------------------------------------------
11/26/2012 13:21:26 ** Saving... Repository infoReposUser, Folder FLTFILE_TO_RDBMS
-------------------------------------------------------------
Validating transformations of mapping Joiner...
...transformation validation completed with no errors.
Validating data flow of mapping Joiner...
...data flow validation completed with no errors.
Parsing mapping Joiner...
...parsing completed with no errors.

******** Mapping Joiner is VALID ********
mapping  Joiner updated.
-------------------------------------------------------------
```

CREATE WORKFLOW

Step-1 Now go to Informatica Power Center Workflow Manager, and go to Tools menu and select Workflow Designer.
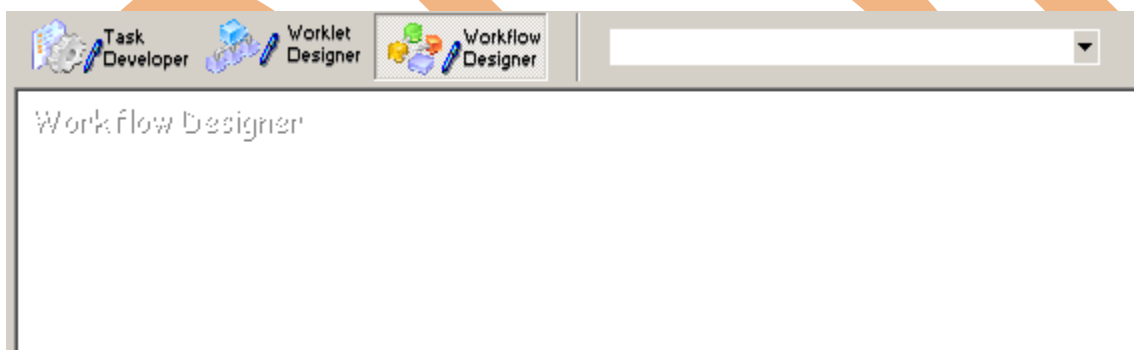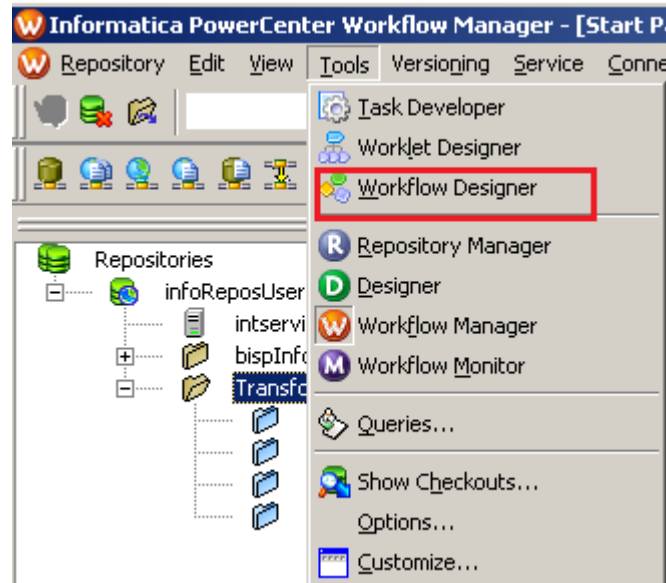
Step-2 Now to create workflows, go to Workflows menu and select Create. Then Name of workflow and click OK buttons.
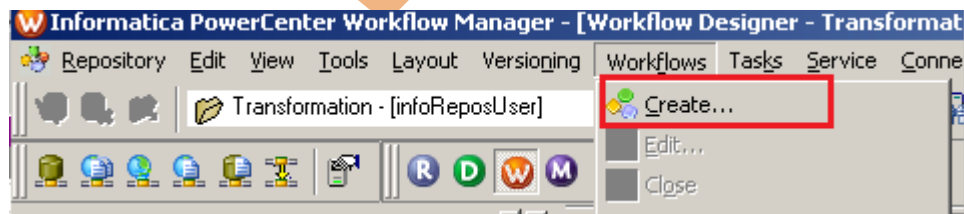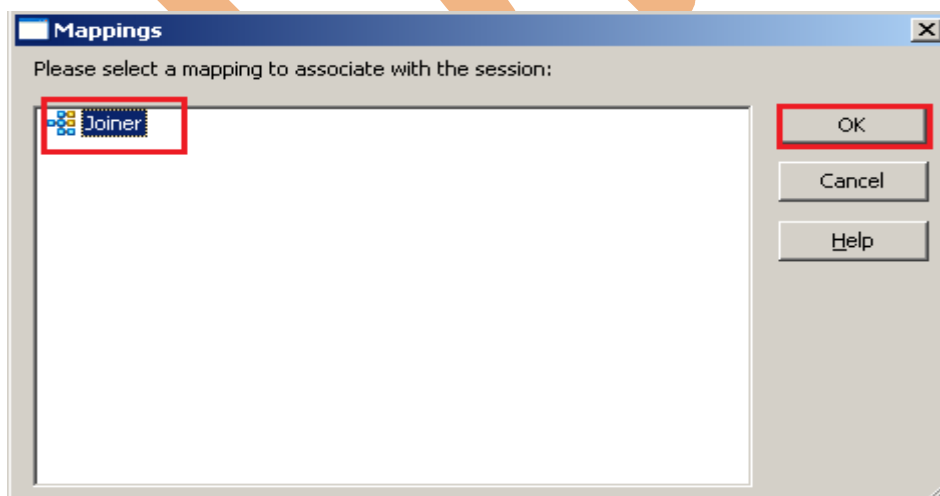
Step-3 Work flow Designer windows

Step-4 Then create Task, Go to Tasks Menu and click Create.
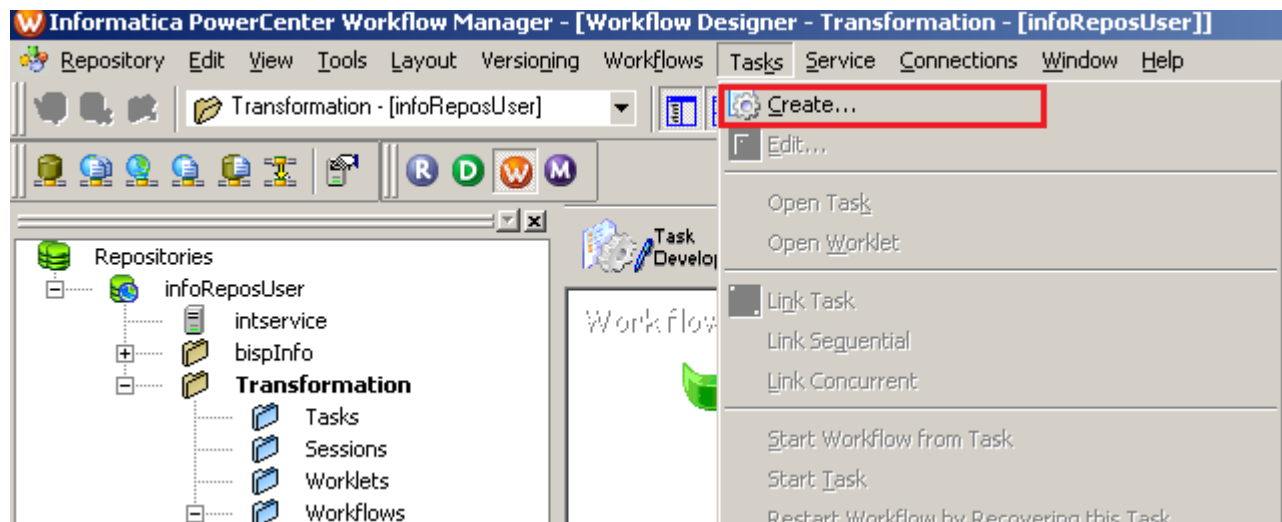
Step-5 Now select session and insert Name of task.
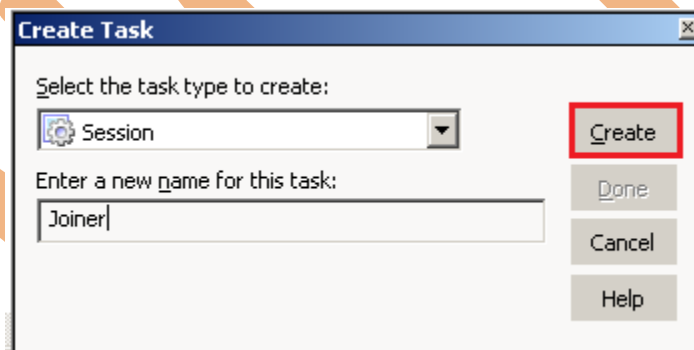
Step-6 Select Mapping to associate with the session.

Step-7 Workflow Designer Window.

Step-8 Now create flow B/W Workflow to Task. Select Line Task and link to start to Filter.

Step-9 Work Designer Windows

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.
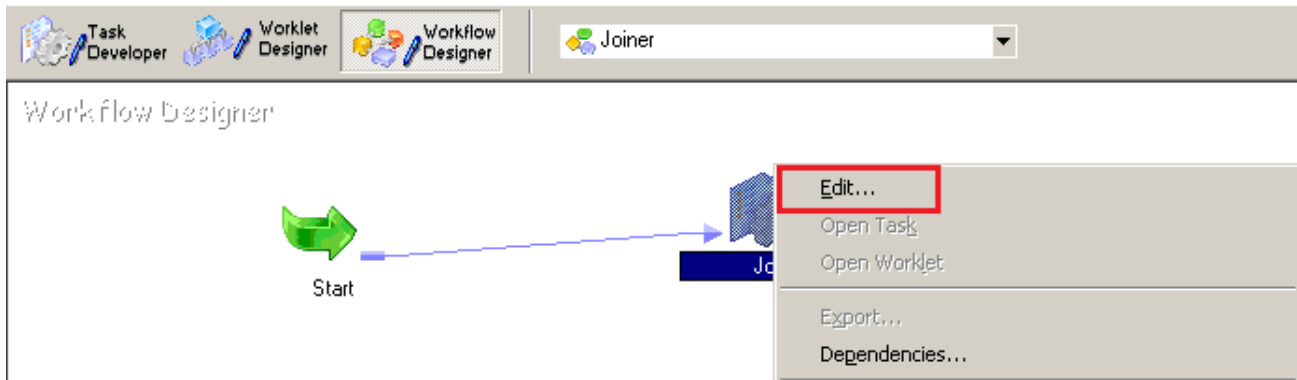
Step-11 Select DBConnection for Source and Target Relation Database.
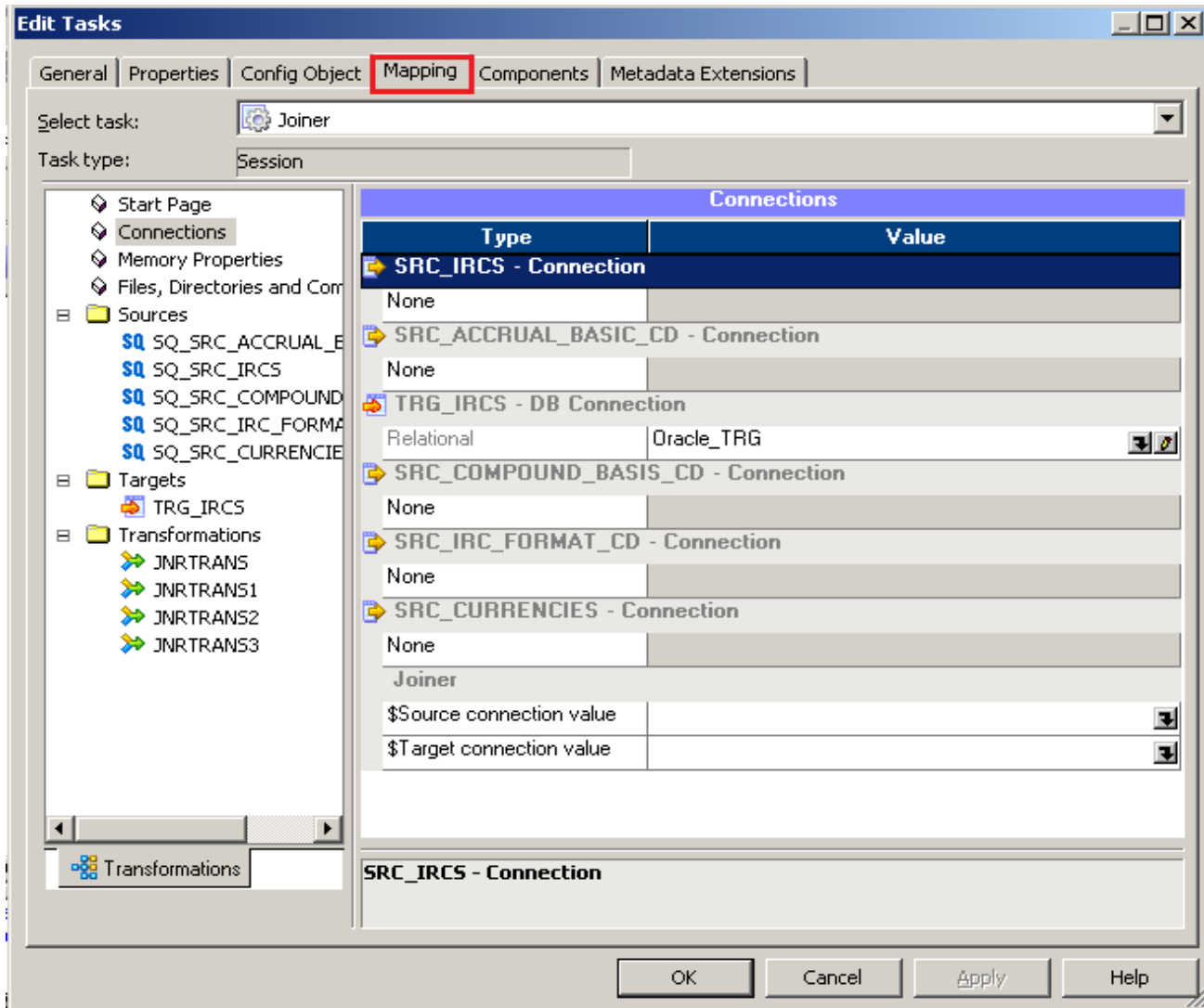
Step-12 Set Property of Target Table.
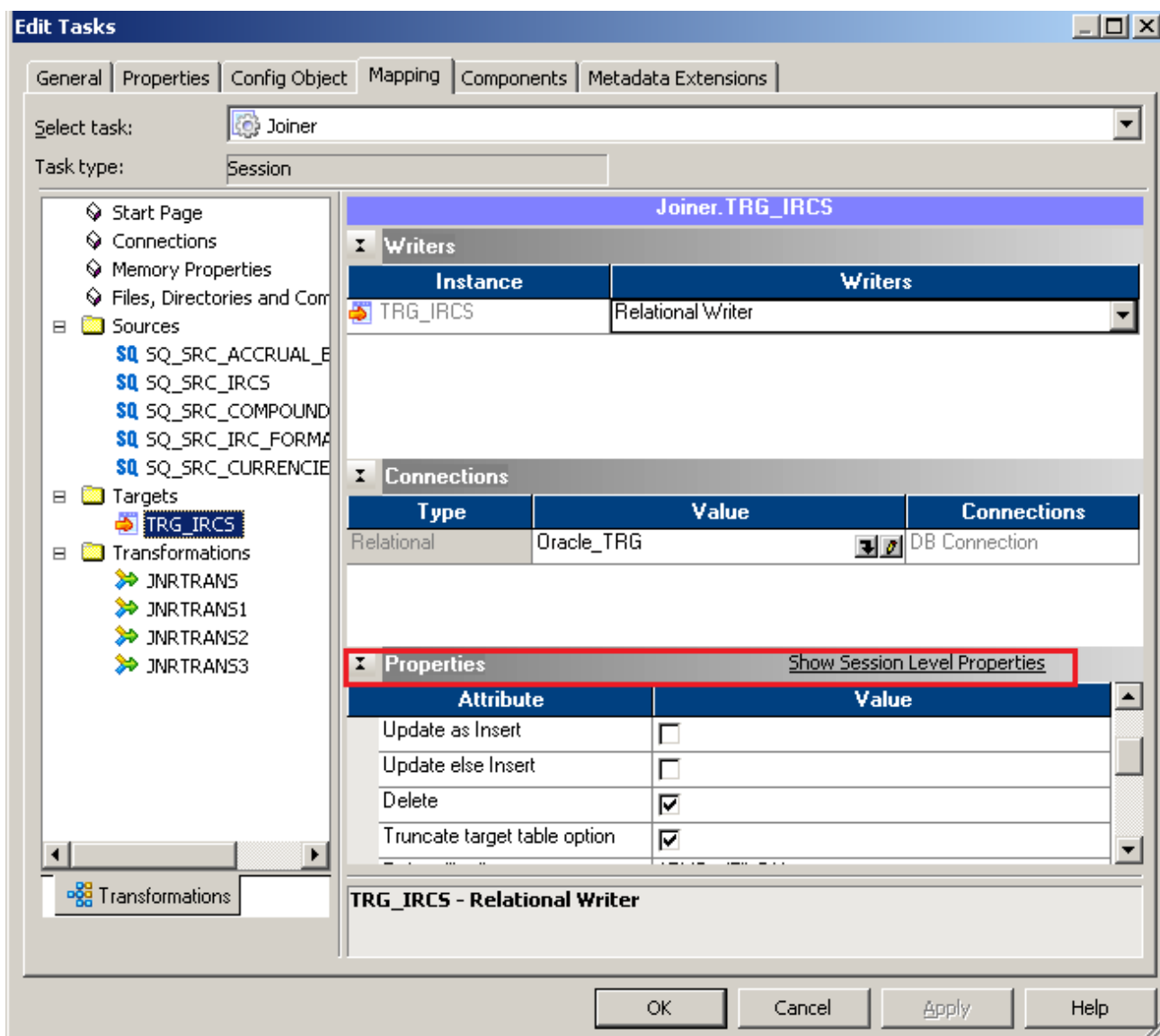
Step-13 Now save (ctrl+s) this workflow and check it.

Step-1 Now Start Workflow, Right click on Workflow Designer Window and Click on Start Workflow.
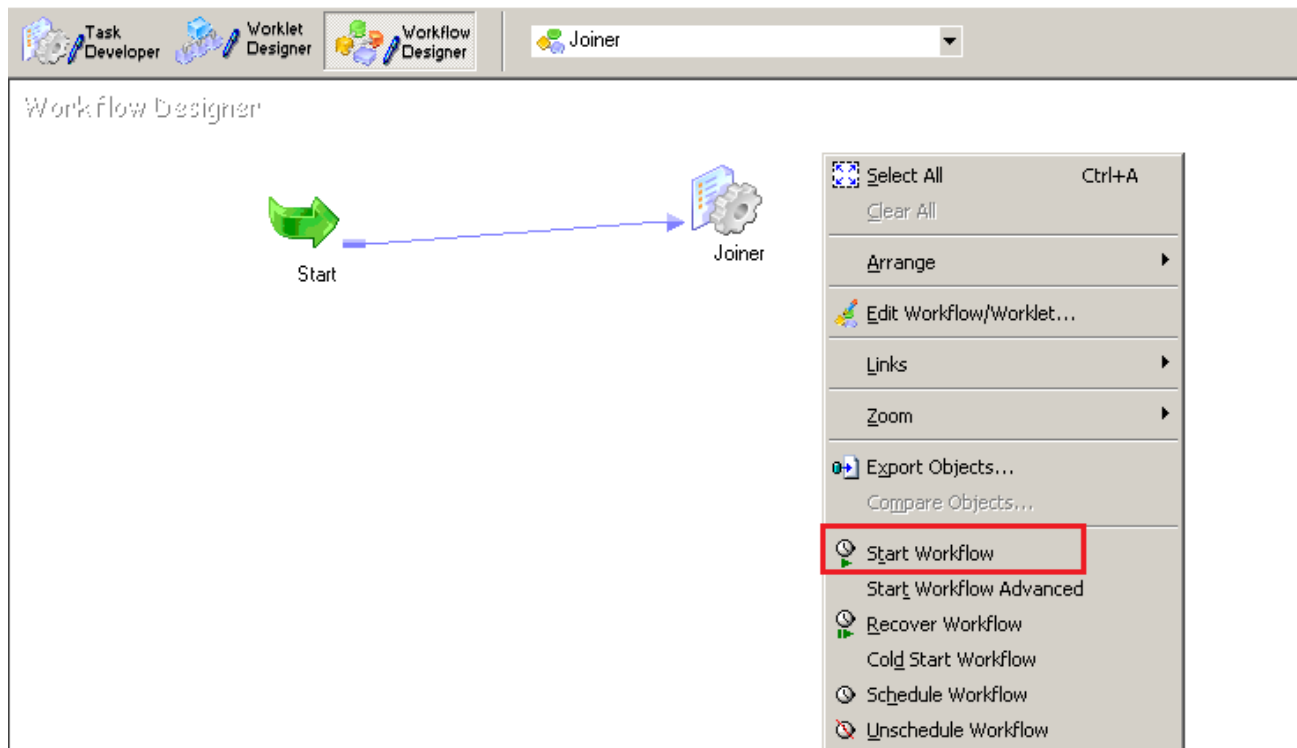
Step-2 Check session in Informatica PowerCenter Workflow Monitor.

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

Step-4 Now view data in Target RDBMS (Oracle 11g)