



Informatica Power Center 9.0.1

Building Financial Data Mode - Lab#1

Hands-on Guide Loading Data from Flat Files

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. This is one of our documents from Informatica learning series.

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Upendra Upadhyay	1st July 2011
0.1	Review#1	Amit Sharma	10th July 2011

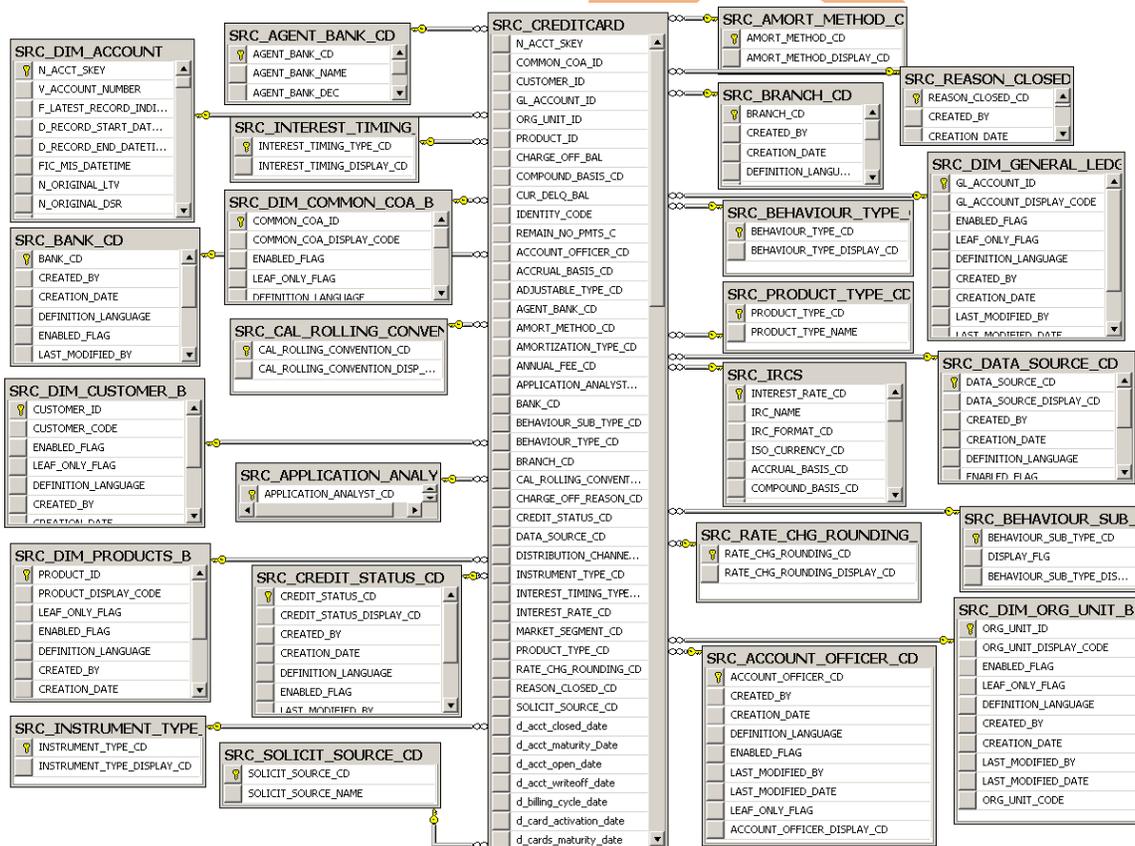
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Introduction

Flat file Transformation in Informatica A flat file is a collection of information stored and accessed sequentially in a database, often created to store information in a non-structured way. Comma Separated Value (CSV) sheets, for example, present information with each field separated from the next by a comma. While a flat file system offers some advantages, it often makes large amounts of data quite cumbersome to store and access. The majority of databases used today are relational systems that use structured queries to retrieve information and present it to the user.

Complete Financial Model :



Target Table.

The screenshot displays the 'Target Designer' interface with four tables and their relationships. The central table is 'TRG_IRCS (Oracle)', which has arrows pointing to 'TRG_CURRENCIES (Oracle)', 'TRG_COMPOUND_BASIS...', 'TRG_IRC_FORMAT_CD (Or...', and 'TRG_ACCRUAL_BASIC_CD...'. Below this is a file selection dialog for 'SrcFiles' with 'SRC_IRCS.csv' selected and the 'OK' button highlighted.

TRG_CURRENCIES (Oracle)

K.	Name	Datatype
	ISO_CURRENC...	varchar2
	ISO_CURRENC...	varchar2

TRG_IRCS (Oracle)

K.	Name	Datatype
	INTEREST_RA...	number(p,s)
	IRC_NAME	varchar2
	IRC_FORMAT_...	number(p,s)
	ISO_CURRENC...	varchar2
	ACCRUAL_BAS...	number(p,s)
	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	varchar2

TRG_IRC_FORMAT_CD (Or...)

K.	Name	Datatype
	IRC_FORMAT_...	number(p,s)
	IRC_FORMAT_...	varchar2

TRG_COMPOUND_BASIS...

K.	Name	Datatype
	COMPOUND_B...	number(p,s)
	COMPOUND_B...	varchar2

TRG_ACCRUAL_BASIC_CD...

K.	Name	Datatype
	ACCRUAL_BAS...	number(p,s)
	ACCRUAL_BAS...	varchar2

Look in: SrcFiles

- defaultValue.xml
- DIM_ACCOUNT.csv
- DIM_COMMON_COA_B.csv
- DIM_GENERAL_LEDGER_B.csv
- DIM_ORG_UNIT_B.csv
- DIM_PRODUCTS_B.csv
- highgroup.txt
- SRC_ACCID_HEALTH_INS_CO_CD.csv
- SRC_ACCOUNT_OFFICER_CD.csv
- SRC_ACCRUAL_BASIC_CD.csv
- SRC_AMORT_METHOD_CD.csv
- SRC_BANK_CD.csv
- SRC_BEHAVIOUR_SUB_TYPE_CD.csv
- SRC_BEHAVIOUR_TYPE_CD.csv
- SRC_BRANCH_CD.csv
- SRC_CAL_ROLLING_CONVENTION_CD.
- SRC_COMPOUND_BASIS_CD.csv
- SRC_CREDIT_STATUS_CD.csv
- SRC_CREDITCARD.csv
- SRC_CURRENCIES.csv
- SRC_DEVOLVEMENT_STATUS_CD.csv
- SRC_INSTRUMENT_DATA_SOURCE_CD
- SRC_INSTRUMENT_TYPE_DISPLAY_CD.
- SRC_INTEREST_TIMING_TYPE_CD.csv
- SRC_IRC_FORMAT_CD.csv
- SRC_IRCS.csv**
- SRC_RATE_CHG_ROUNDING_CD.csv

File name: SRC_IRCS.csv

Files of type: All Files (*.*)

Code Page: MS Windows Latin 1 (ANSI), superset of Latin1

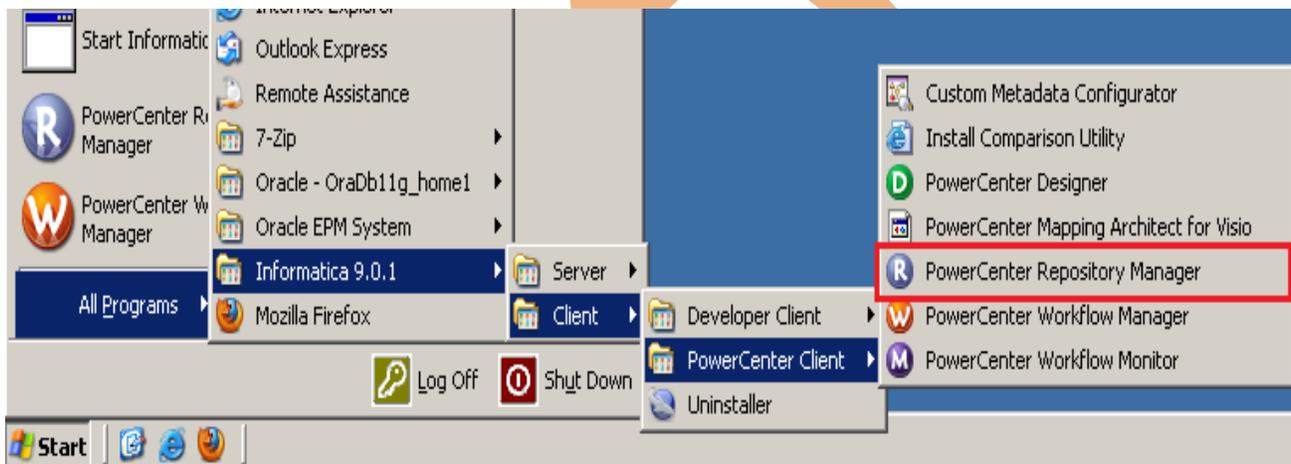
OK

Cancel

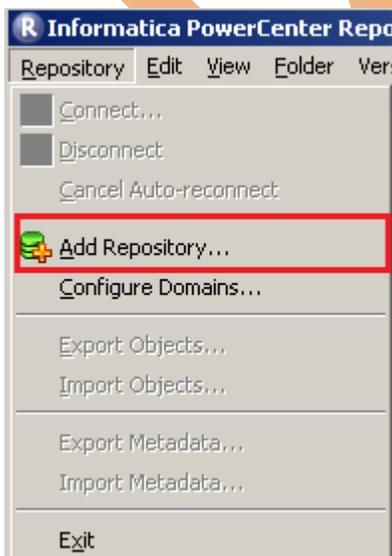
Creating Repository and Folder

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.



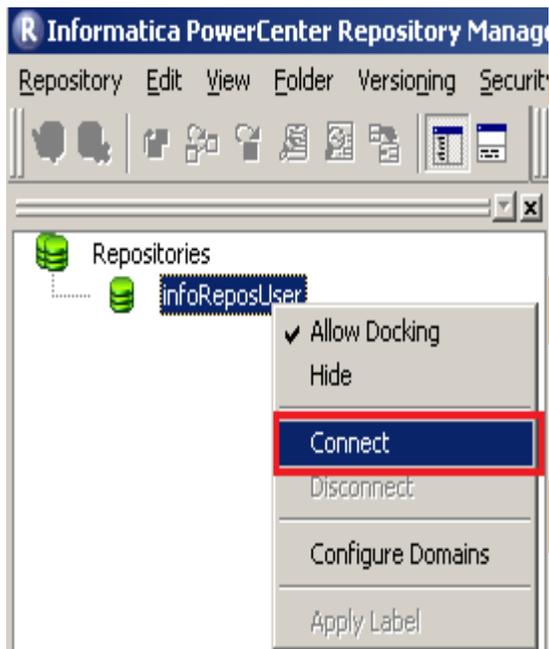
Step-2 Then click on Repository Menu and click on Add Repository.



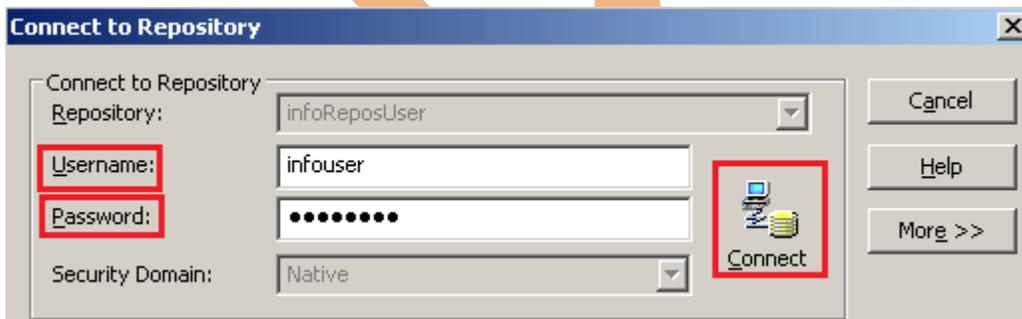
Step-3 Give information like Repository Name and Username. Then click on ok button and repository created successfully.



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



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

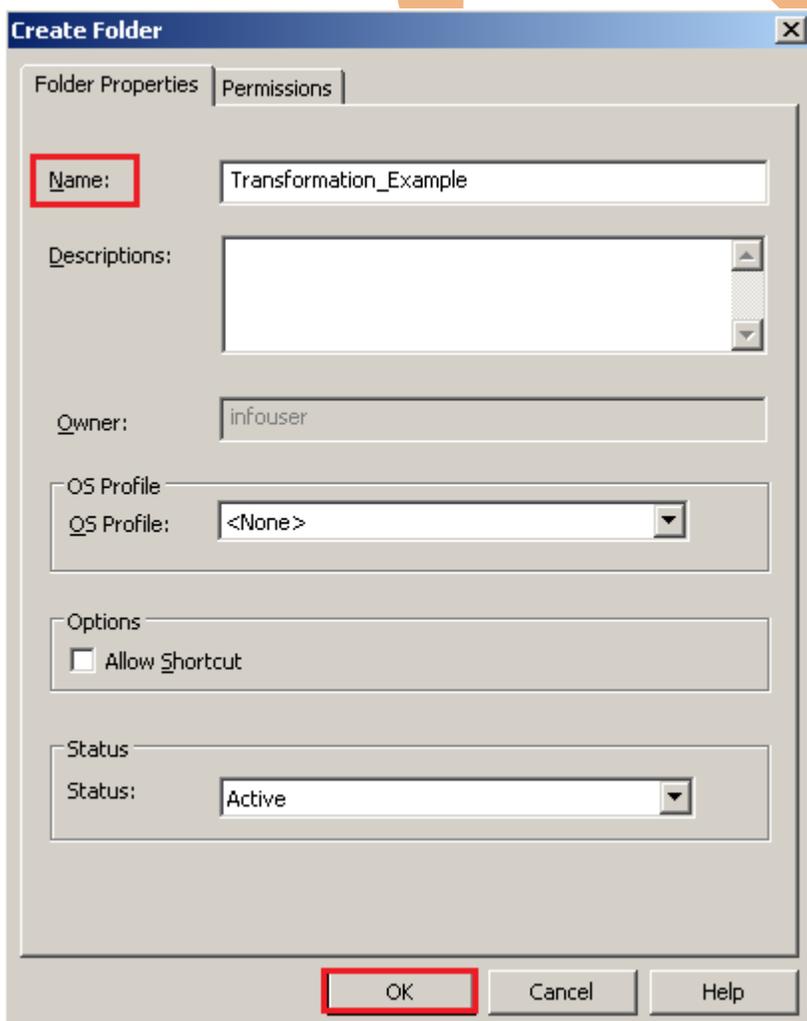


Creating Folder.

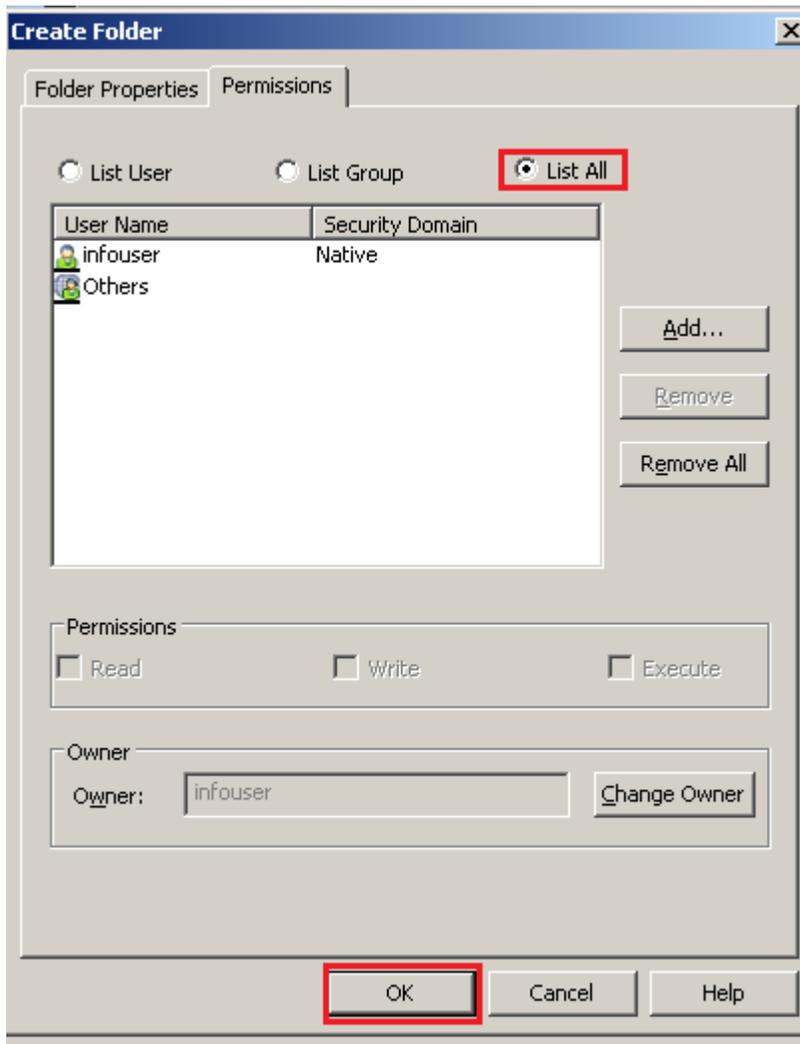
Step-1 Go to Informatica Power Center Repository Manager and click on Folder Menu and click on Create.



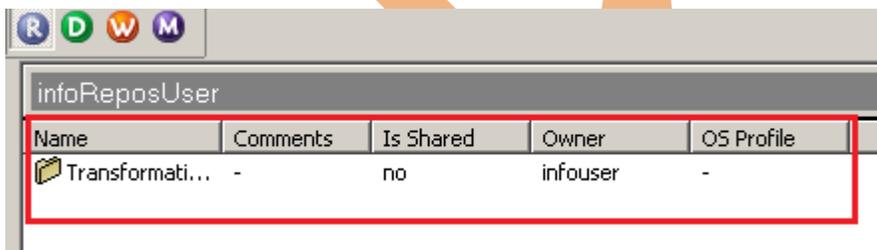
Step-2 Specify Name of Folder, Description, Owner, OS Profile, Options, Status and got to permissions tab.



Step-3 This is permission tab to give permission for this folder.

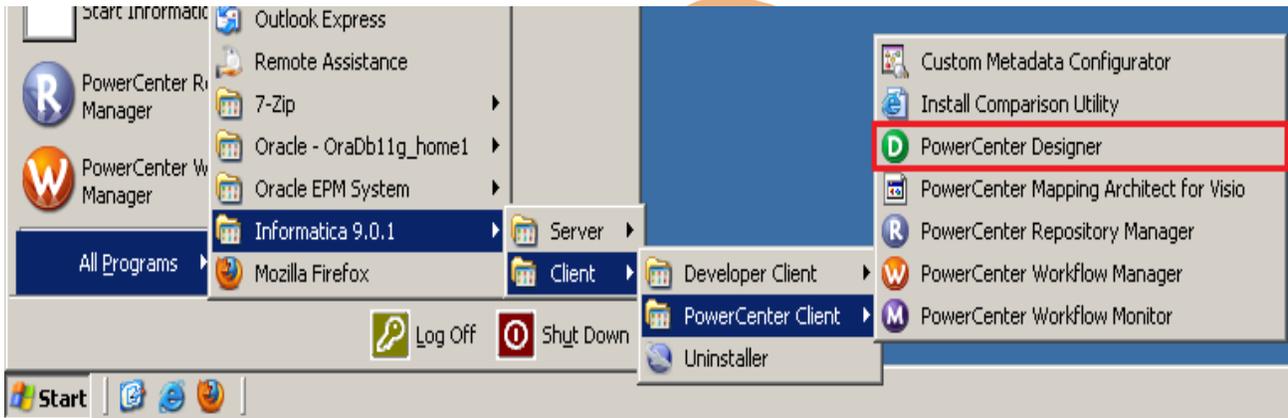


Step-4 This is newly created Folder

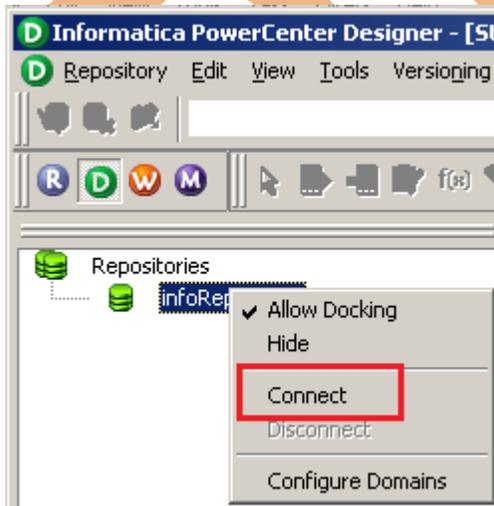


Importing Source files

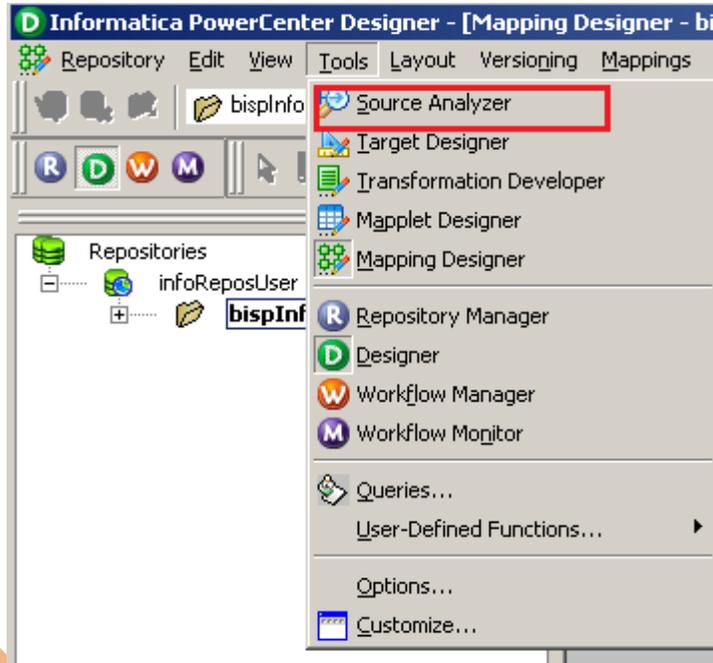
Step-1 Click on Start -> All Programs -> Informatica 9.0.1 -> Client -> Power Center Client -> Power Center Designer..



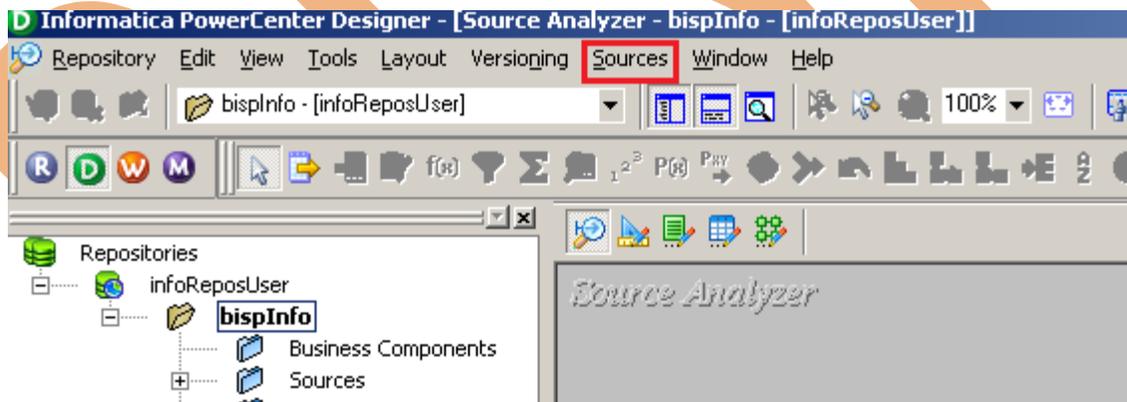
Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and click on Connect.



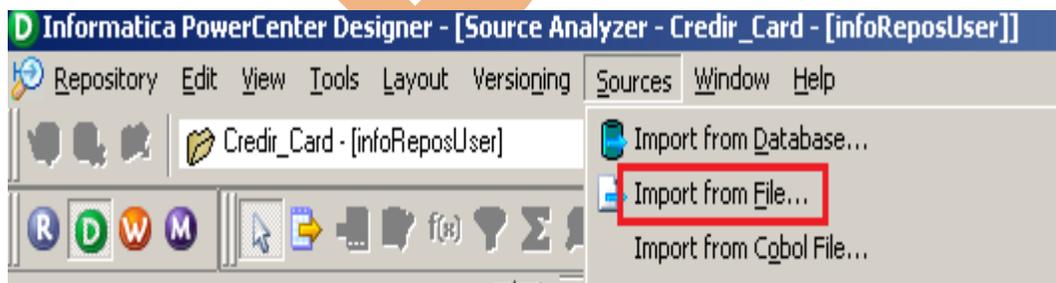
Step-3 Go to Tools Menu and click on Source Analyzer to import source table.



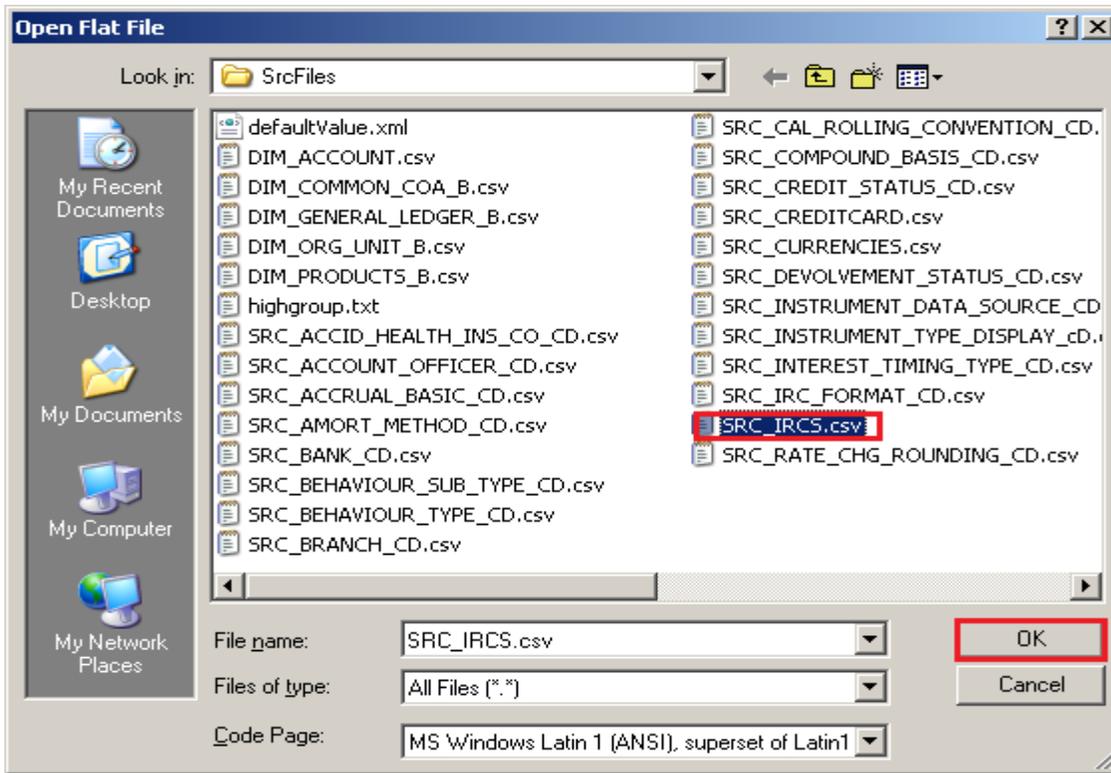
Step-4 And then go to Sources Menu in Informatica Power Center Designer.



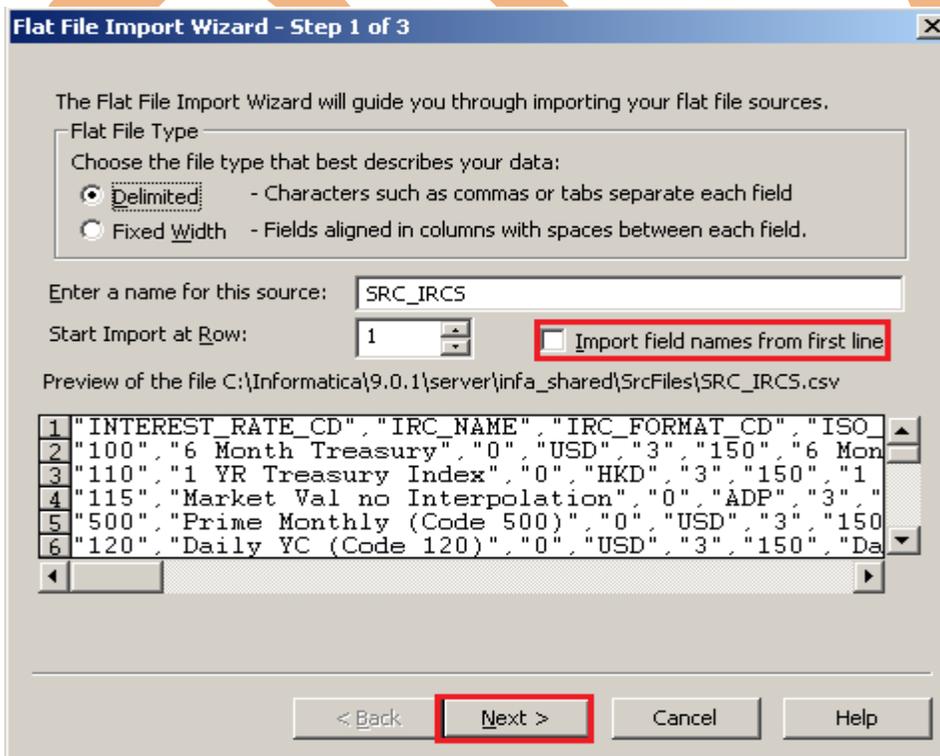
Step-5 And then click on Source menu and select Import from file.



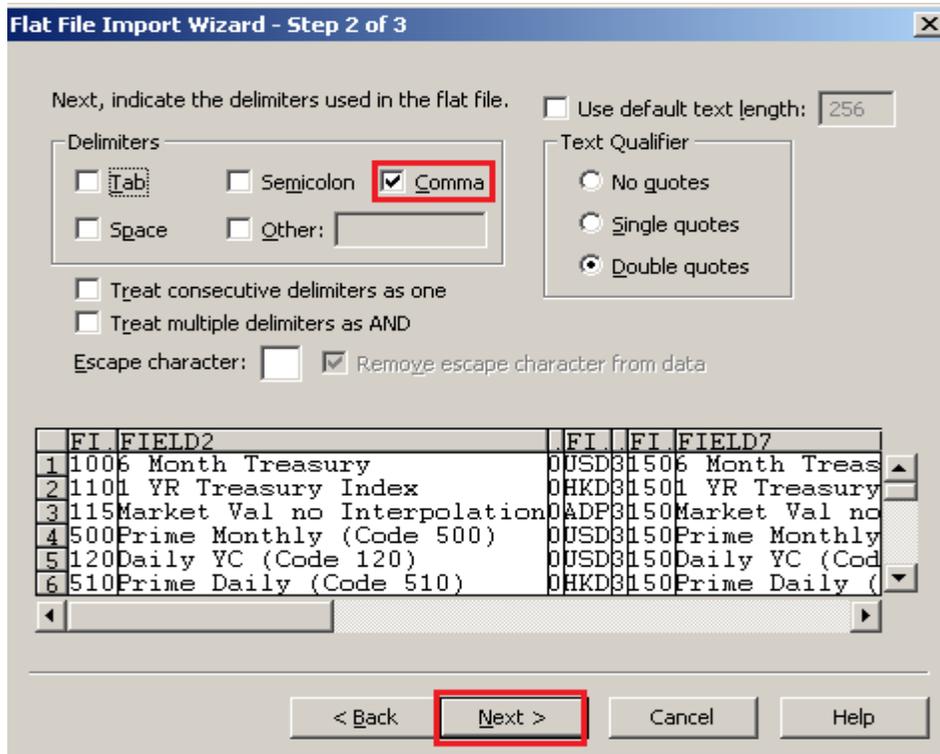
Step-6 Select Flat file which you want to import, Select location in Look in and select file and click OK.



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.



Next, indicate the delimiters used in the flat file. Use default text length: 256

Delimiters

Tab Semicolon Comma

Space Other:

Treat consecutive delimiters as one

Treat multiple delimiters as AND

Escape character: Remove escape character from data

Text Qualifier

No quotes

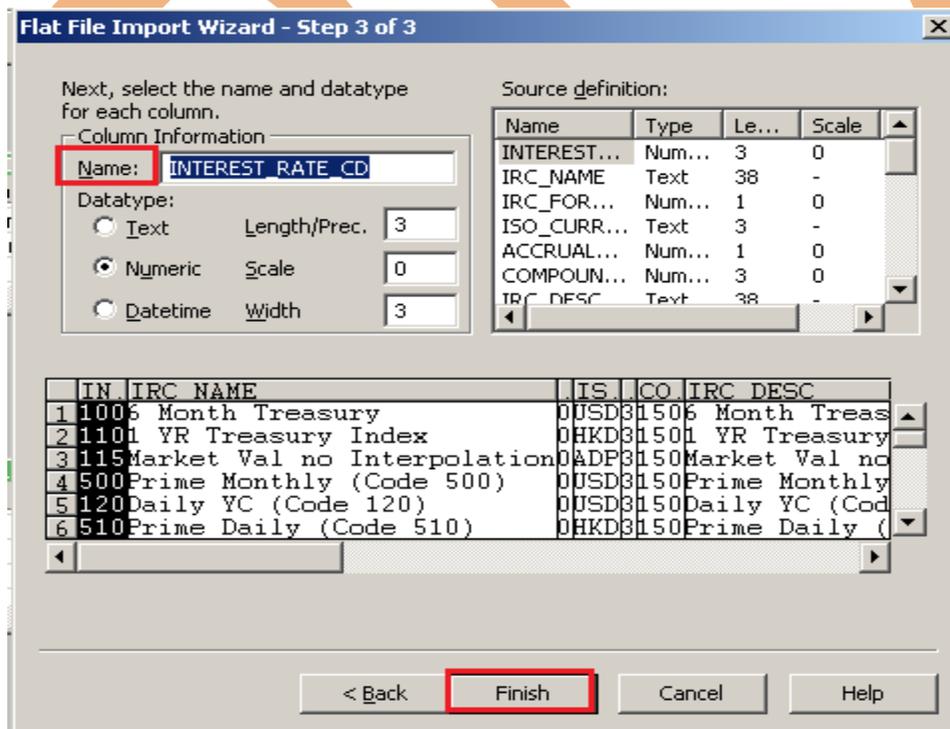
Single quotes

Double quotes

FI	FIELD2	FI	FI	FIELD7
1	1006 Month Treasury	0	USD3	1506 Month Treas
2	1101 YR Treasury Index	0	HKD3	1501 YR Treasury
3	115Market Val no Interpolation	0	ADP3	150Market Val no
4	500Prime Monthly (Code 500)	0	USD3	150Prime Monthly
5	120Daily YC (Code 120)	0	USD3	150Daily YC (Cod
6	510Prime Daily (Code 510)	0	HKD3	150Prime Daily (

< Back **Next >** Cancel Help

Step-9 Specify Name of Column and Click Finish.



Next, select the name and datatype for each column.

Column Information

Name: INTEREST_RATE_CD

Datatype:

Text Length/Prec. 3

Numeric Scale 0

Datetime Width 3

Source definition:

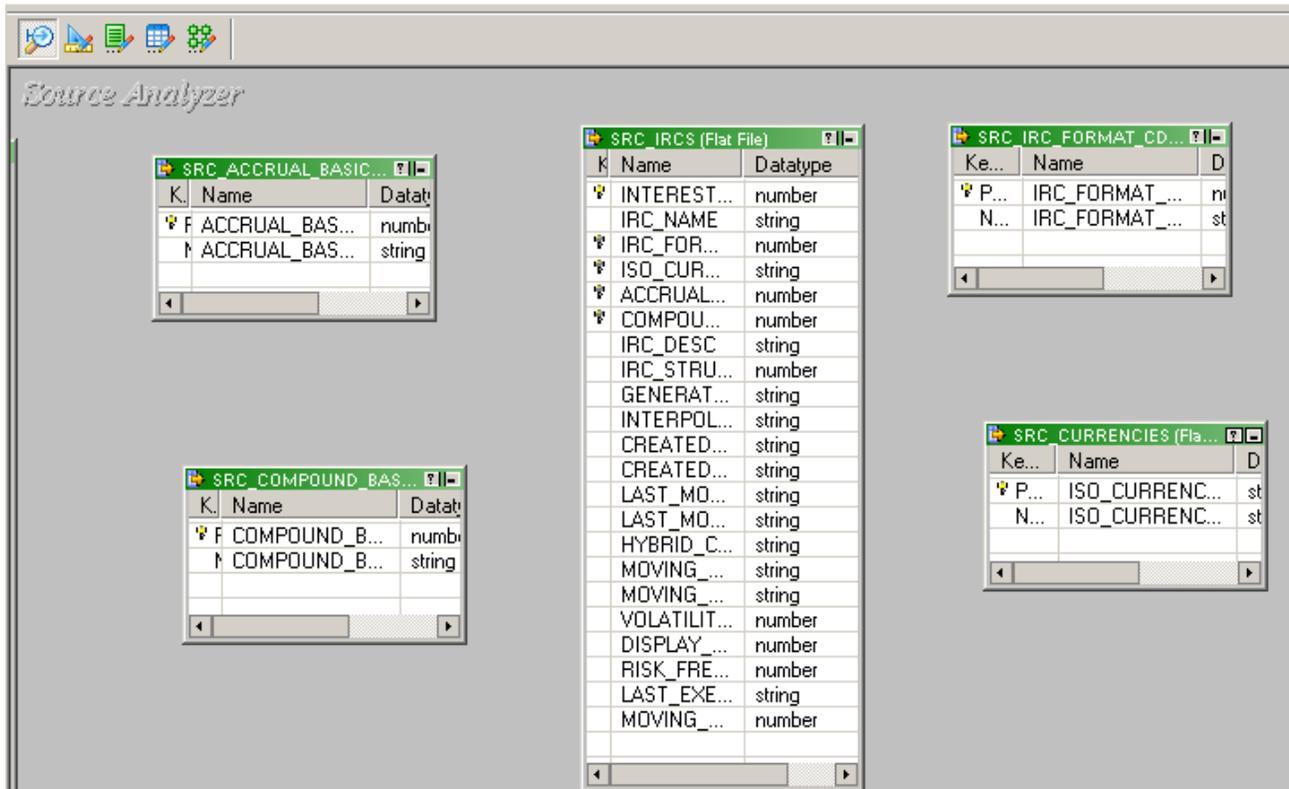
Name	Type	Le...	Scale
INTEREST...	Num...	3	0
IRC_NAME	Text	38	-
IRC_FOR...	Num...	1	0
ISO_CURR...	Text	3	-
ACCRUAL...	Num...	1	0
COMPOUN...	Num...	3	0
IRC_DESC	Text	38	-

IN	IRC NAME	IS	CO	IRC DESC
1	1006 Month Treasury	0	USD3	1506 Month Treas
2	1101 YR Treasury Index	0	HKD3	1501 YR Treasury
3	115Market Val no Interpolation	0	ADP3	150Market Val no
4	500Prime Monthly (Code 500)	0	USD3	150Prime Monthly
5	120Daily YC (Code 120)	0	USD3	150Daily YC (Cod
6	510Prime Daily (Code 510)	0	HKD3	150Prime Daily (

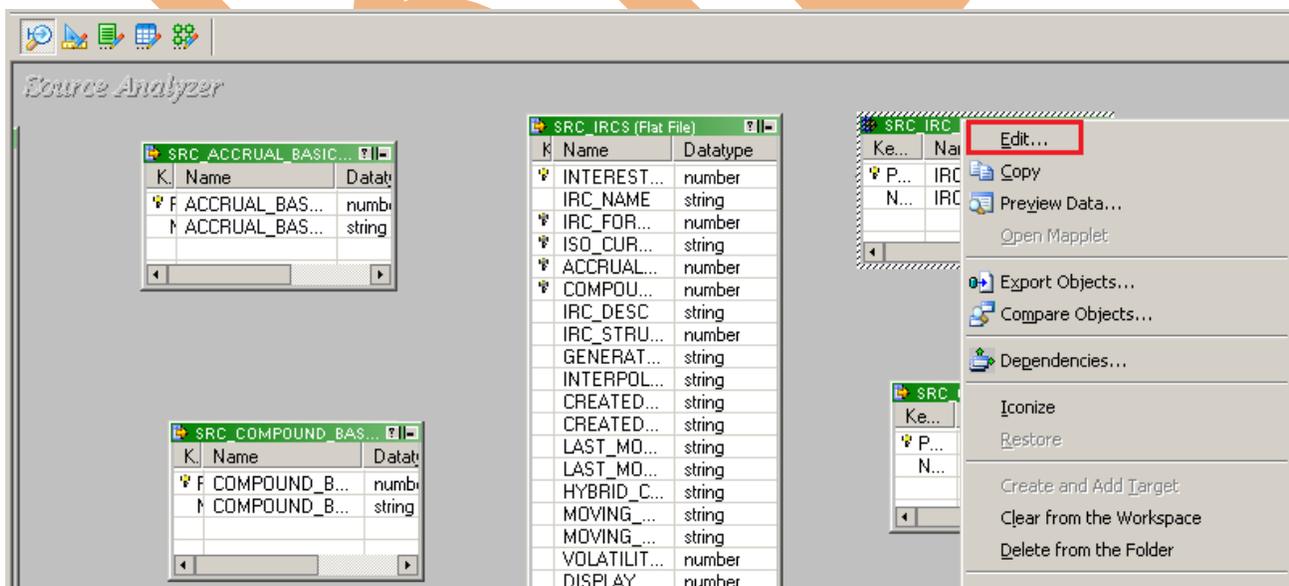
< Back **Finish** Cancel Help

Step-10 They apply (Step-4 to Step -9) to import all Flatfile.

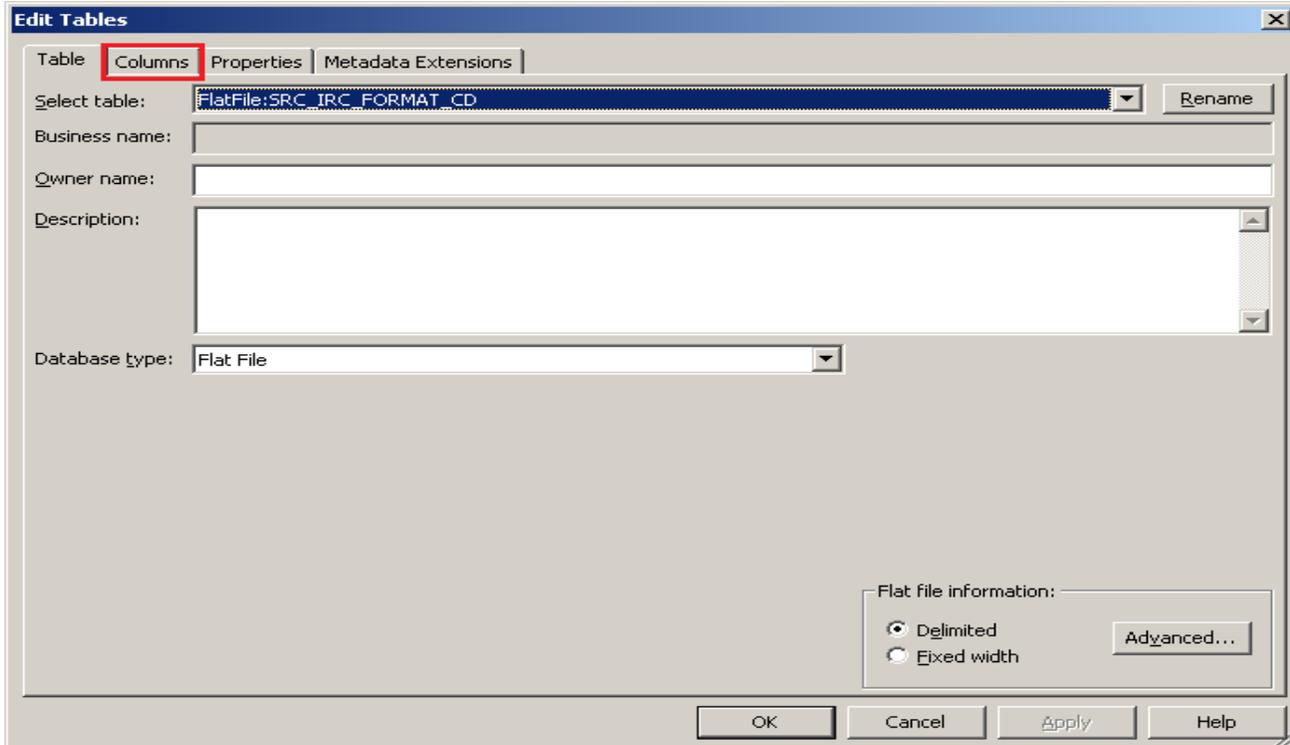
Step-11 This is Source table.



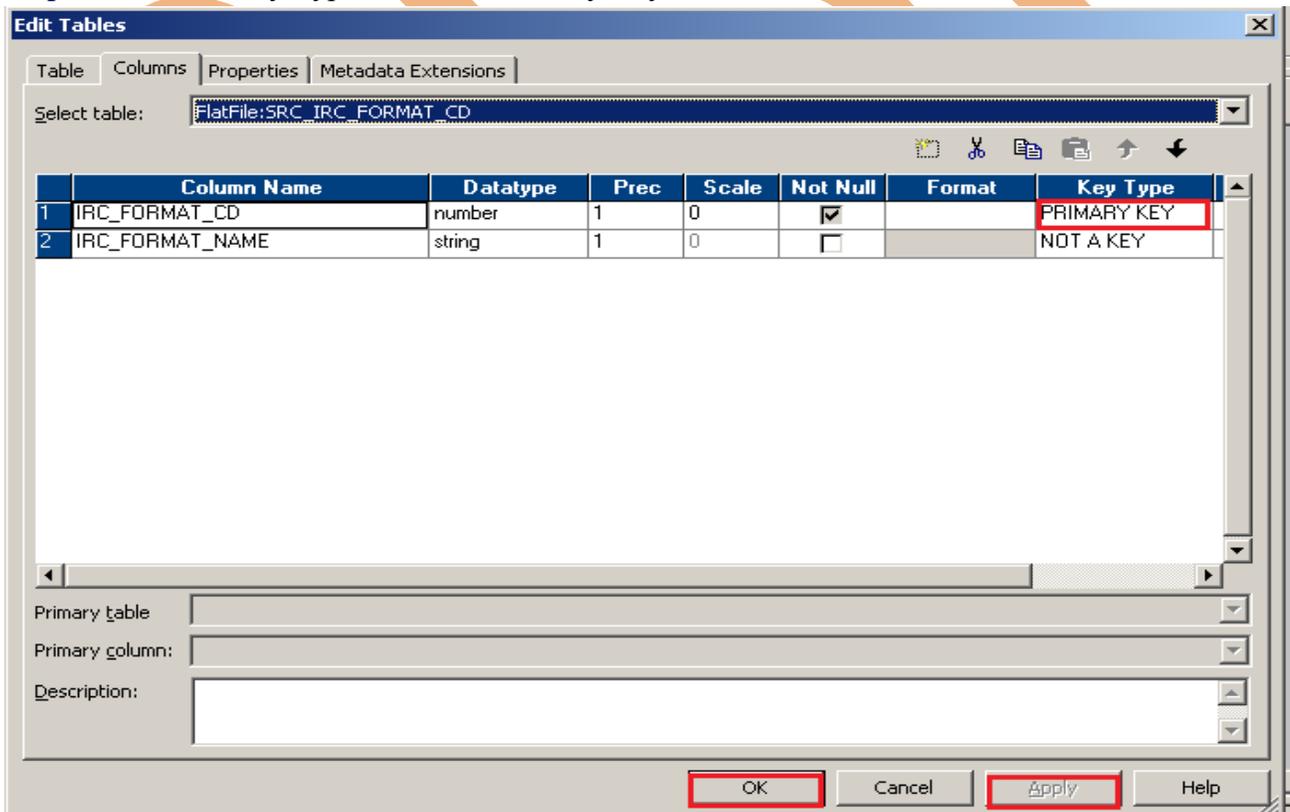
Step-12 Now Create Primary Key, Right click on Table and select Edit.



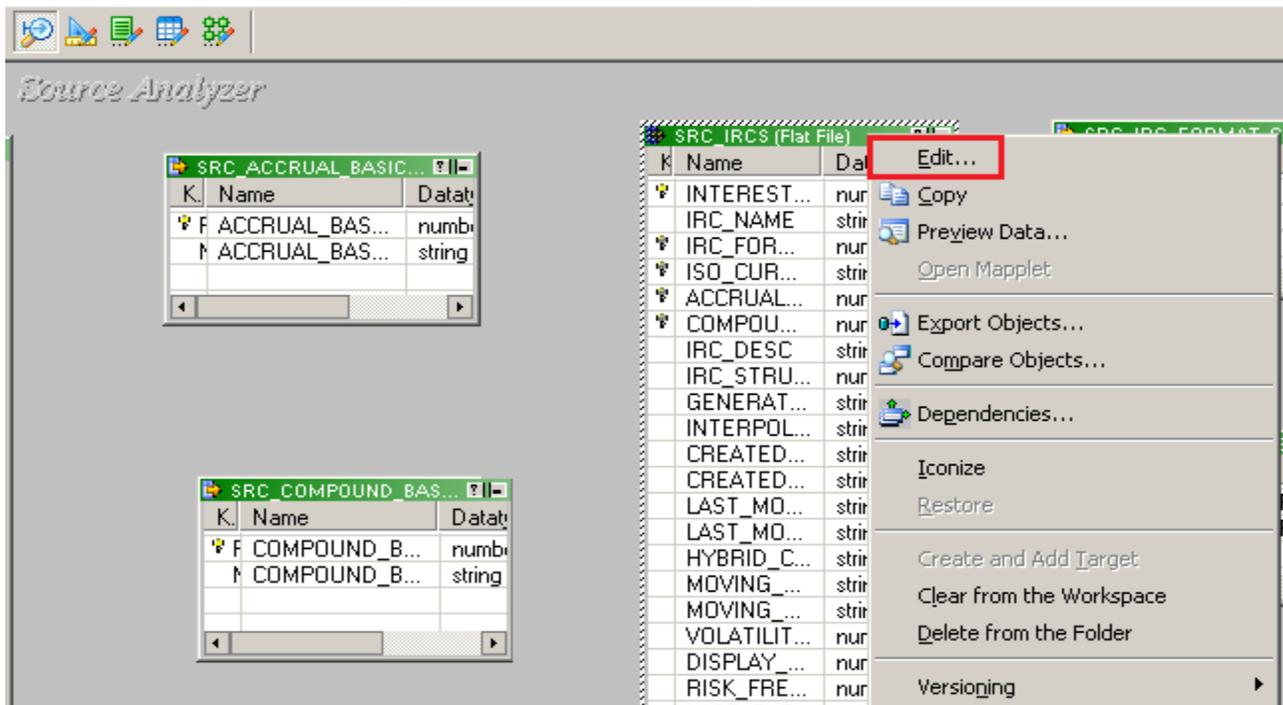
Step-13 Go to Columns tab to Create Primary Key.



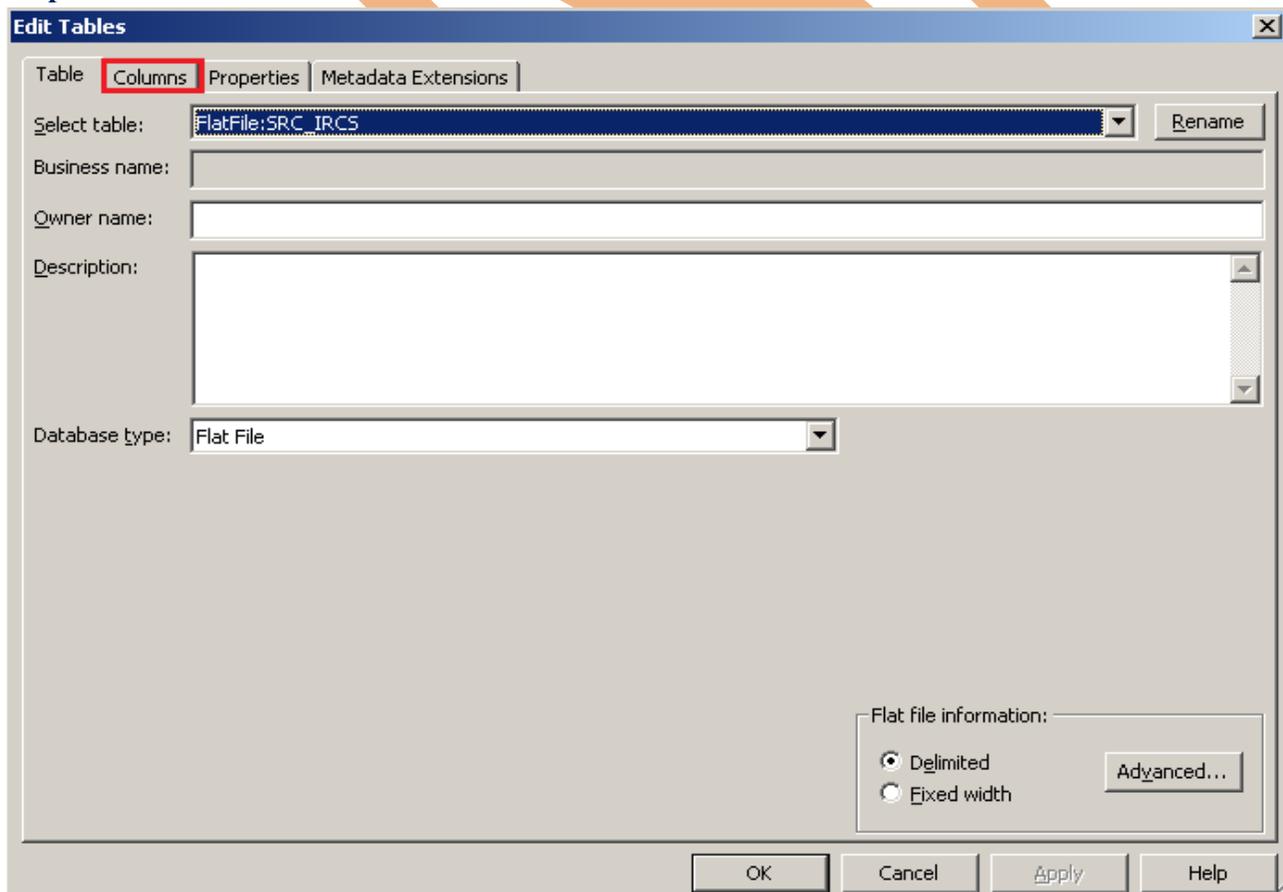
Step-14 Click on Key Type and select Primary Key and OK.



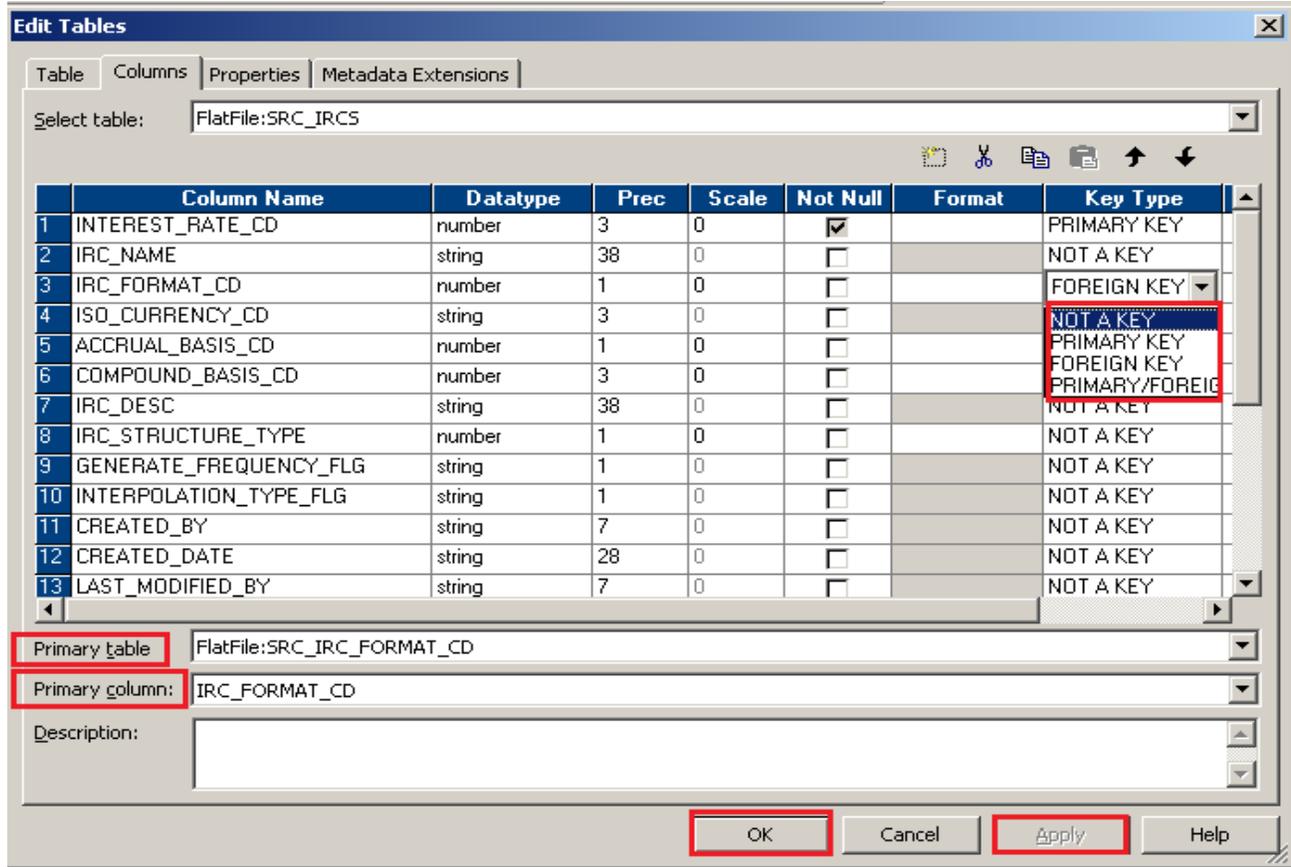
Step-15 Then create relationship of all table so make foreign key.



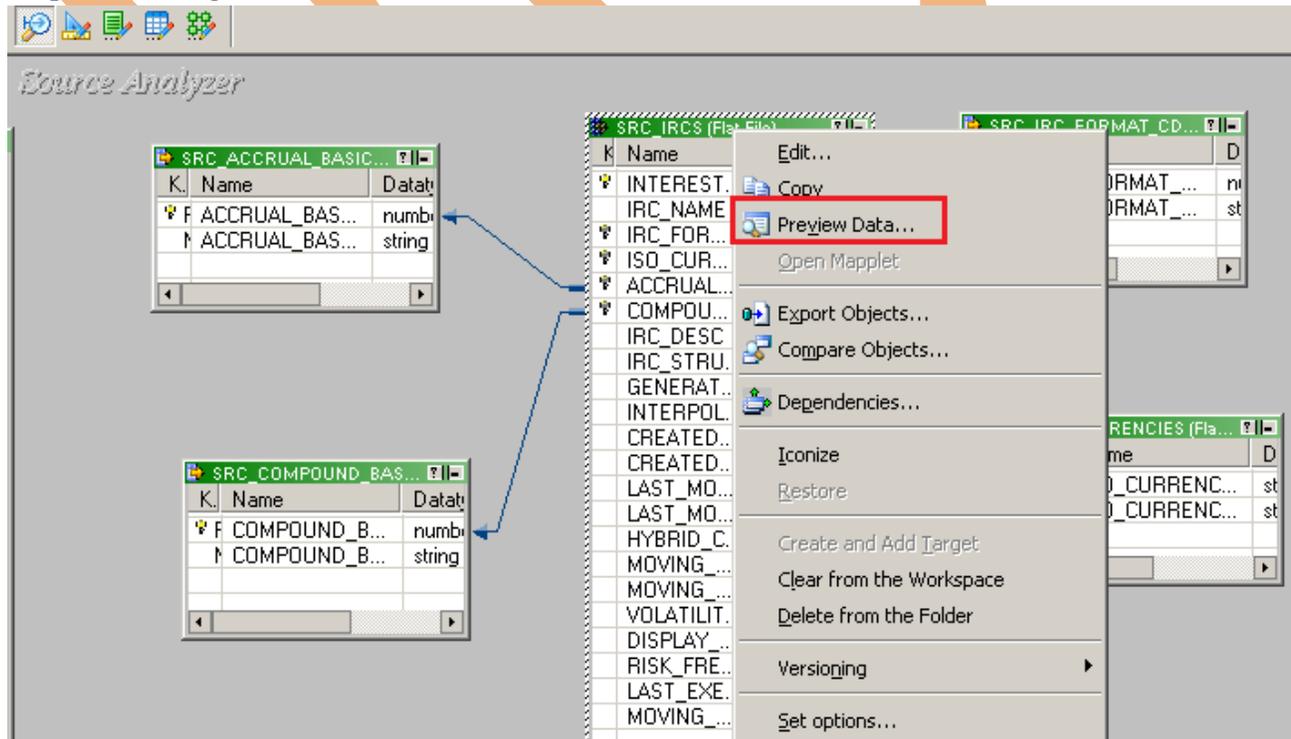
Step-16 Go to Columns tab.



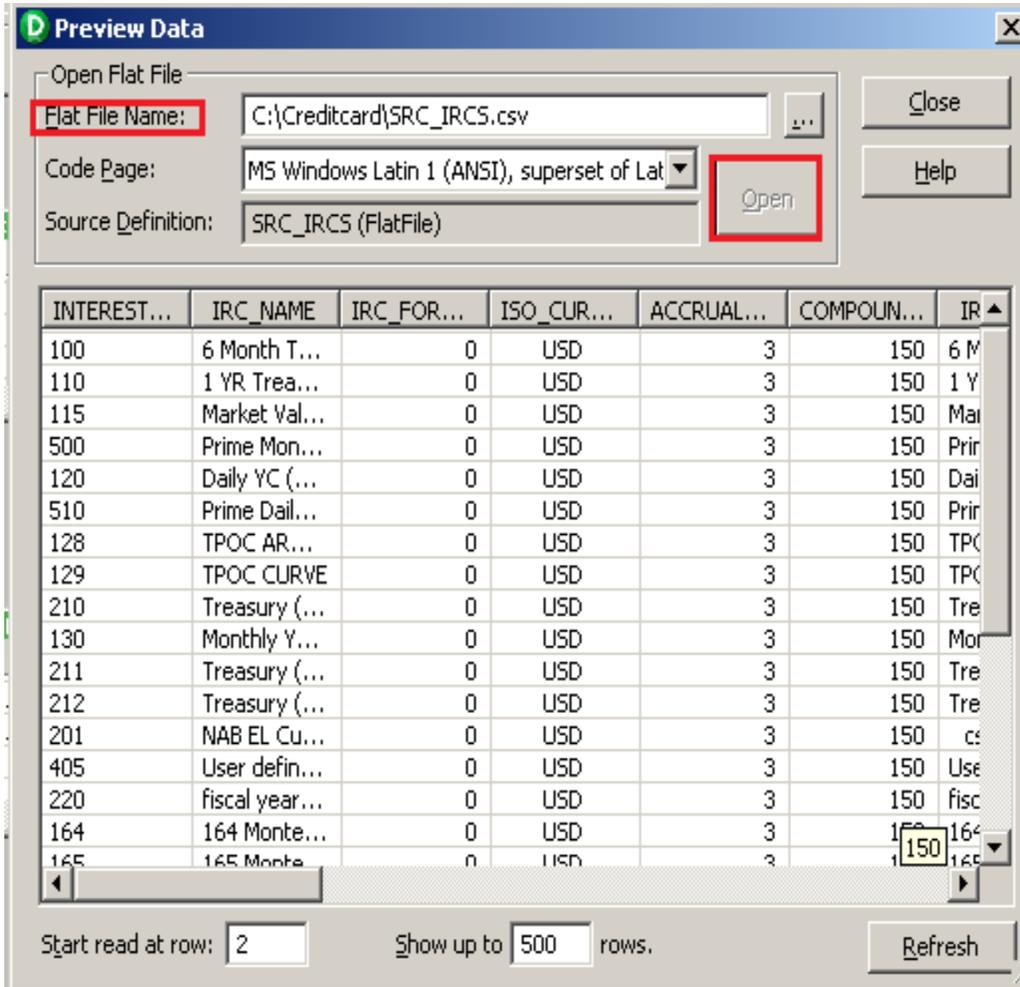
Step-17 Select Key Type and also specify its primary table and primary columns.



Step-18 Now right click on table to see Preview Data.

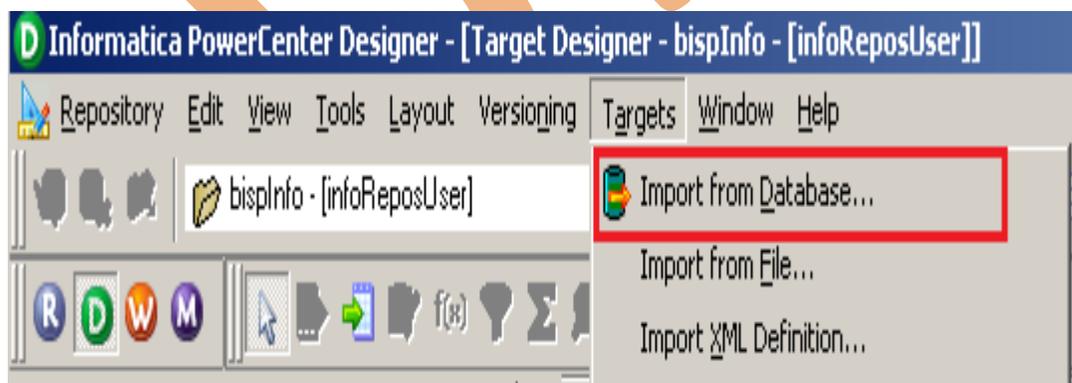


Step-19 Select Flatfile Location and open it.

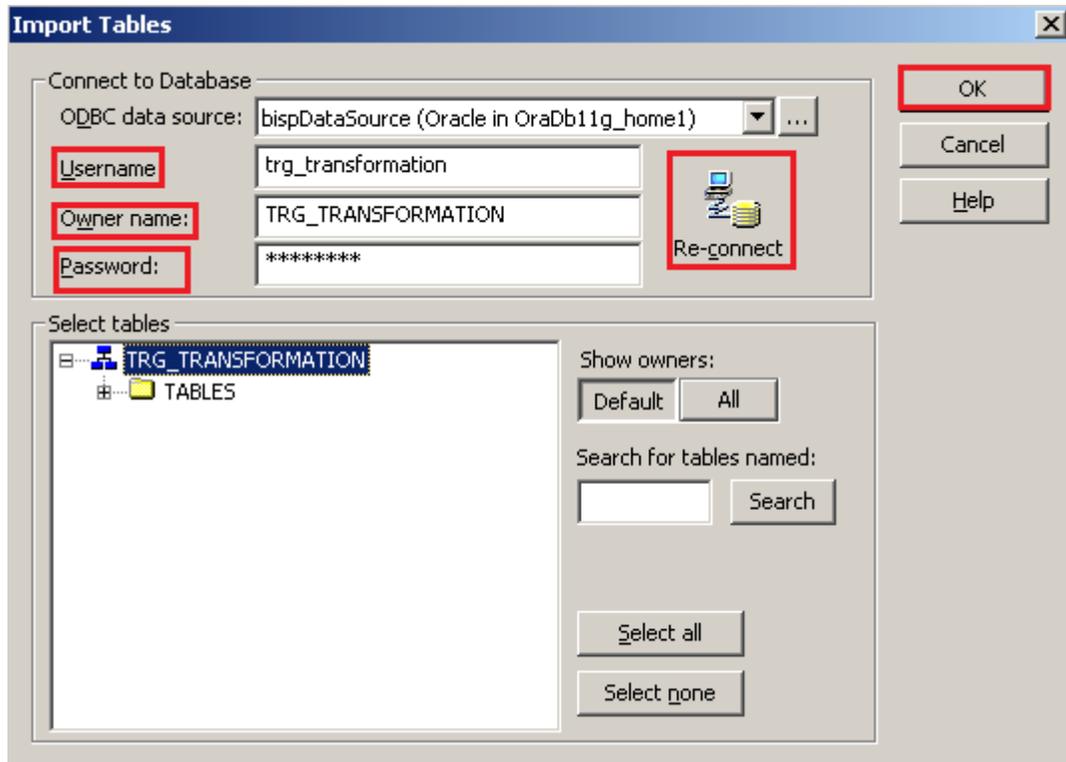


Step-20 Now click on Target Designer.

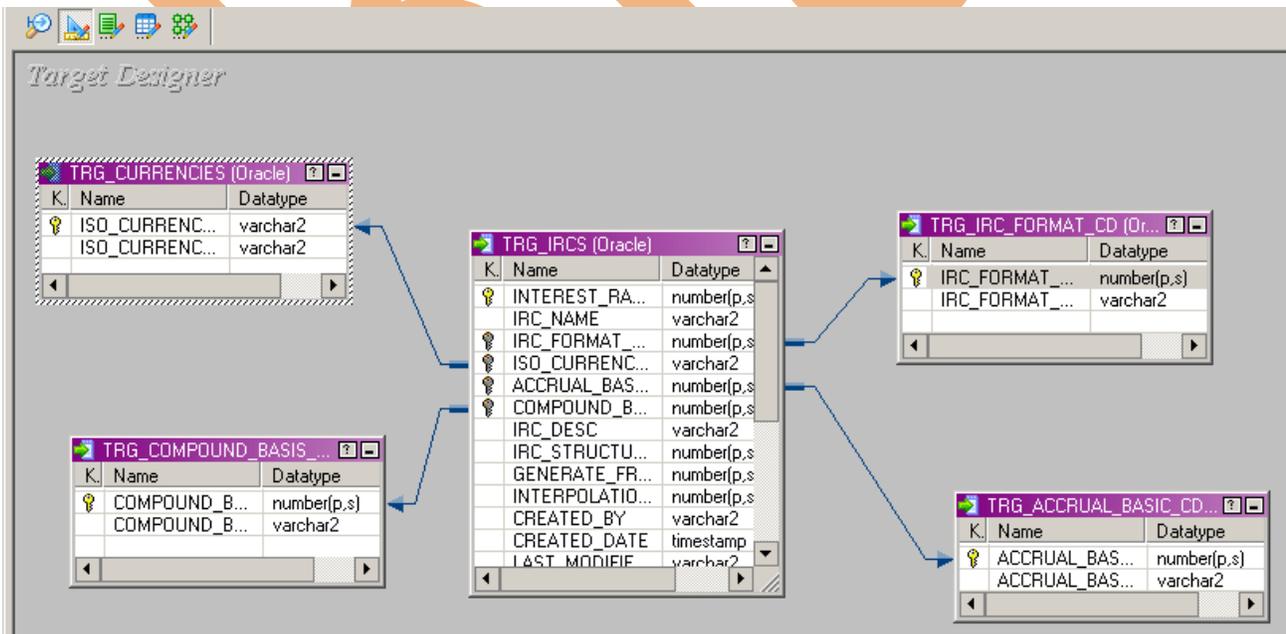
Step-21 And then select Target menu and click on Import from database to import target table.



Step-22 Specify Username, Owner name, password and then click on connect and then select table and then OK.

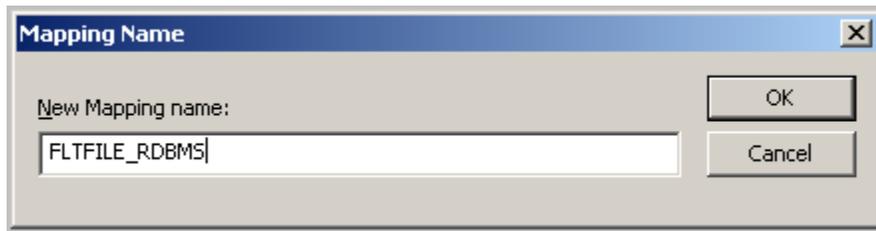


Step-23 Target table in Target Designer.

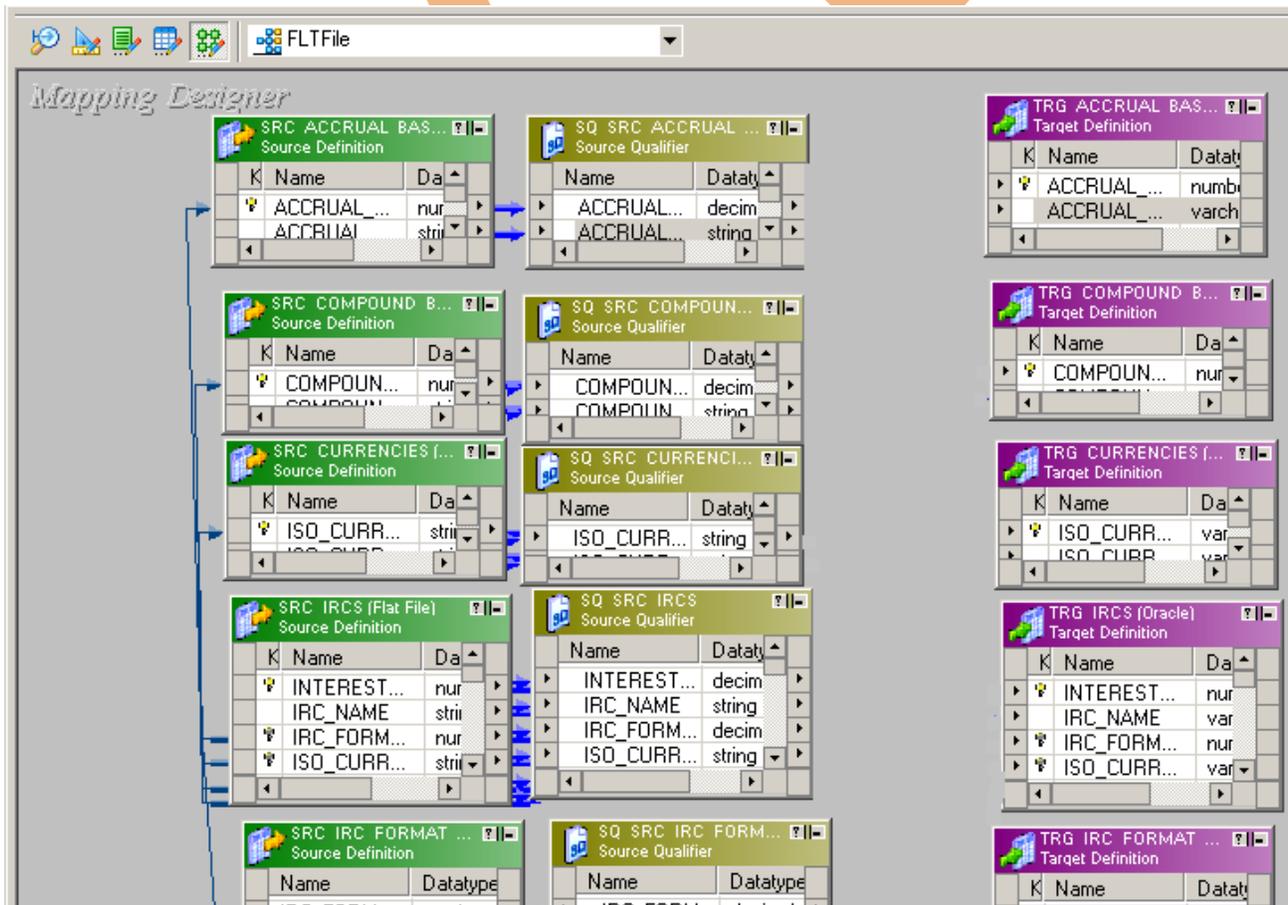


CREATE MAPPING

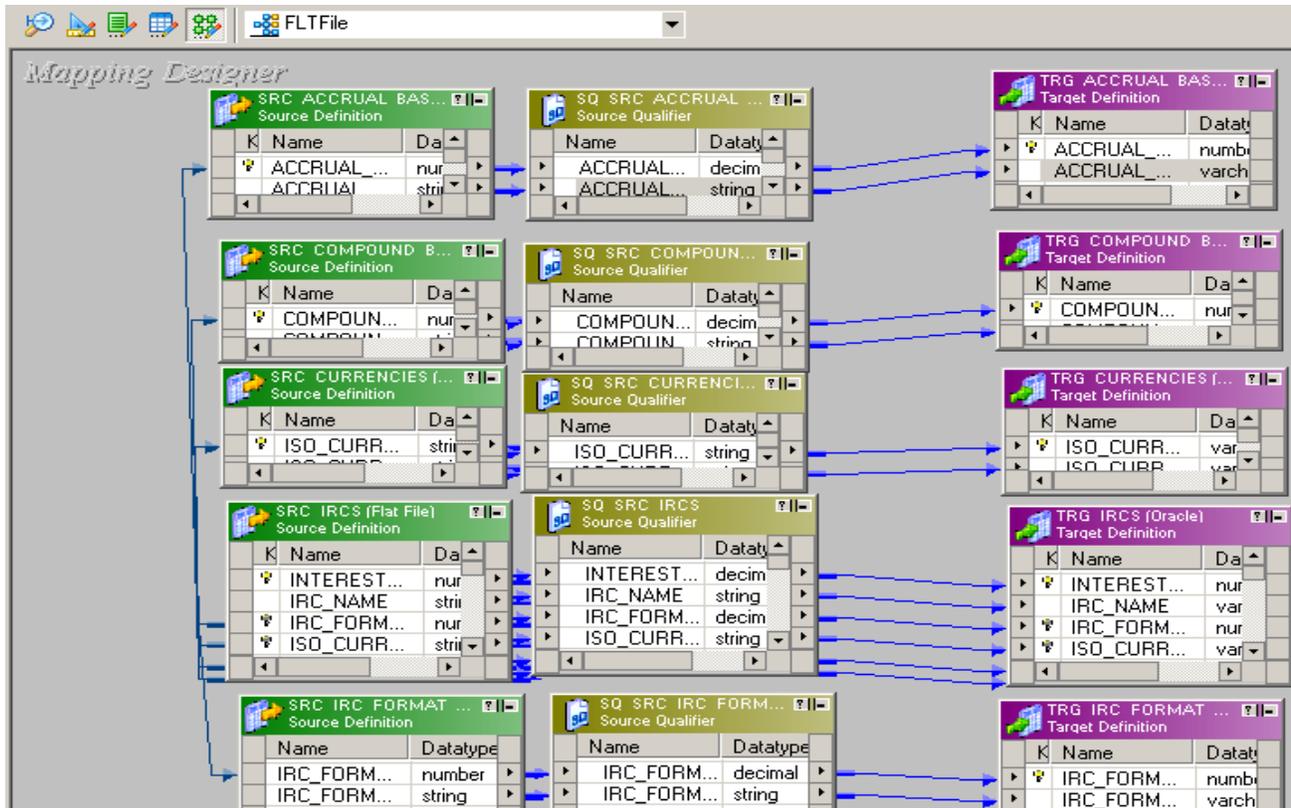
Step-1 Go to Mapping Designer  and Create New Mapping and then name of mapping and click OK.



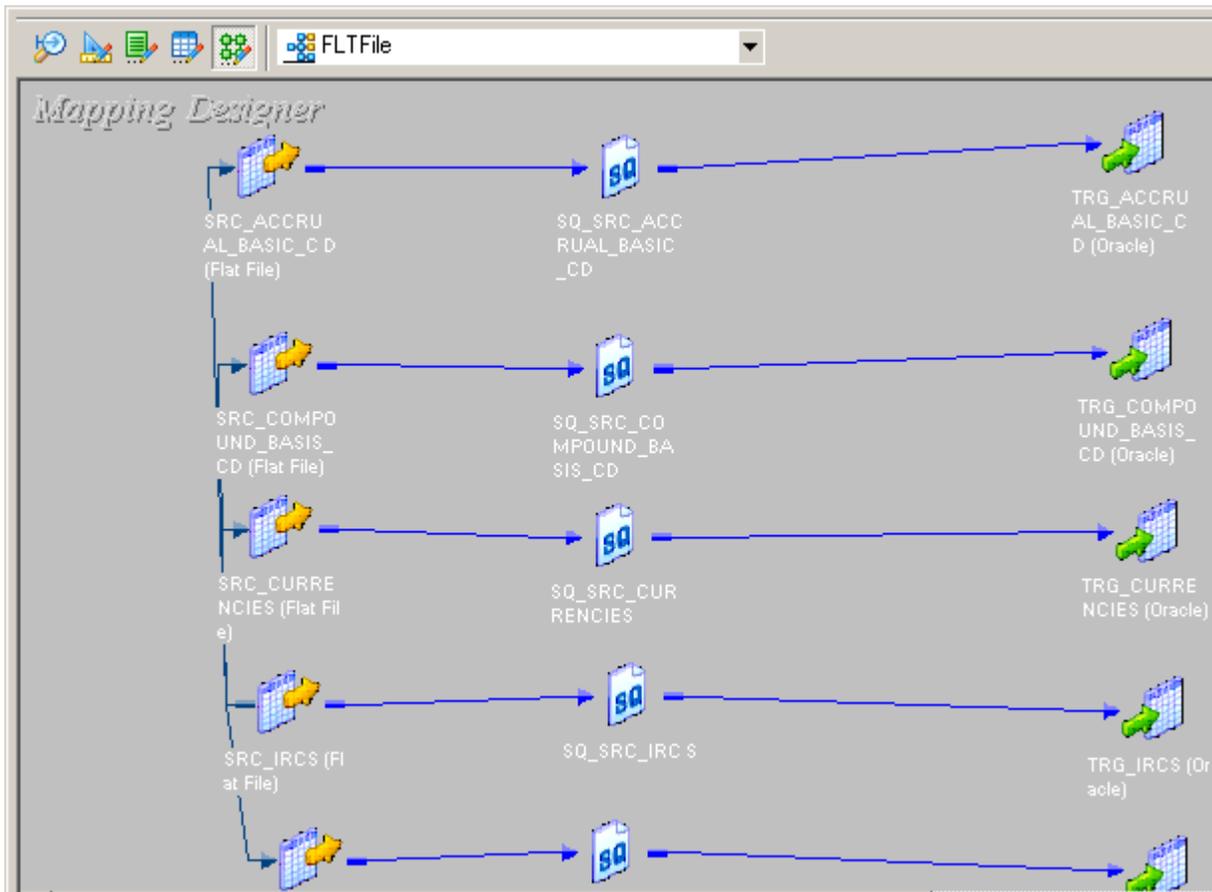
Step-2 Then drag and drop source and target data in Mapping Designer.



Step-5 Then Create Mapping.



Step-6 Mapping.



Step-7 . Save this mapping.

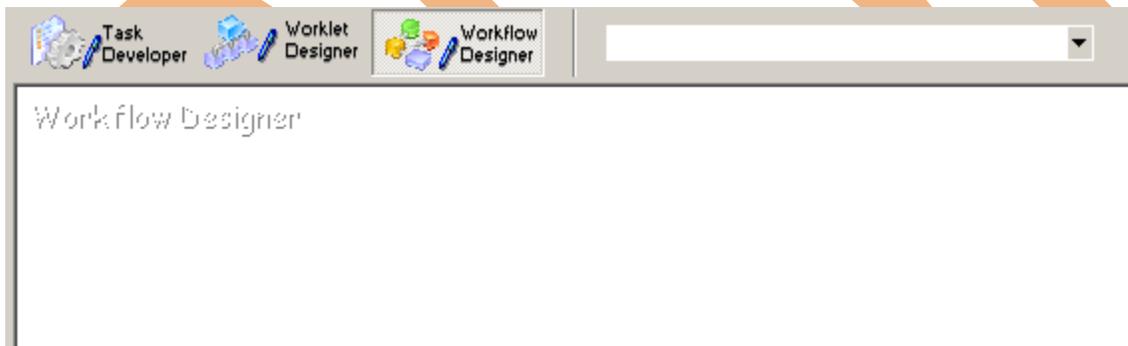
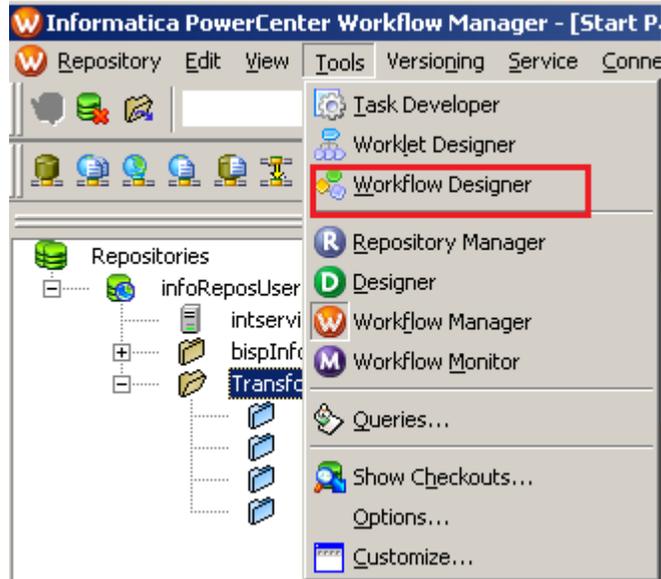
11/03/2012 15:29:44 *** Saving... Repository infoReposUser, Folder Credit_Card

Validating transformations of mapping Flfile_RDBMS...
 ...transformation validation completed with no errors.
 Validating data flow of mapping Flfile_RDBMS...
 ...data flow validation completed with no errors.
 Parsing mapping Flfile_RDBMS...
 ...parsing completed with no errors.

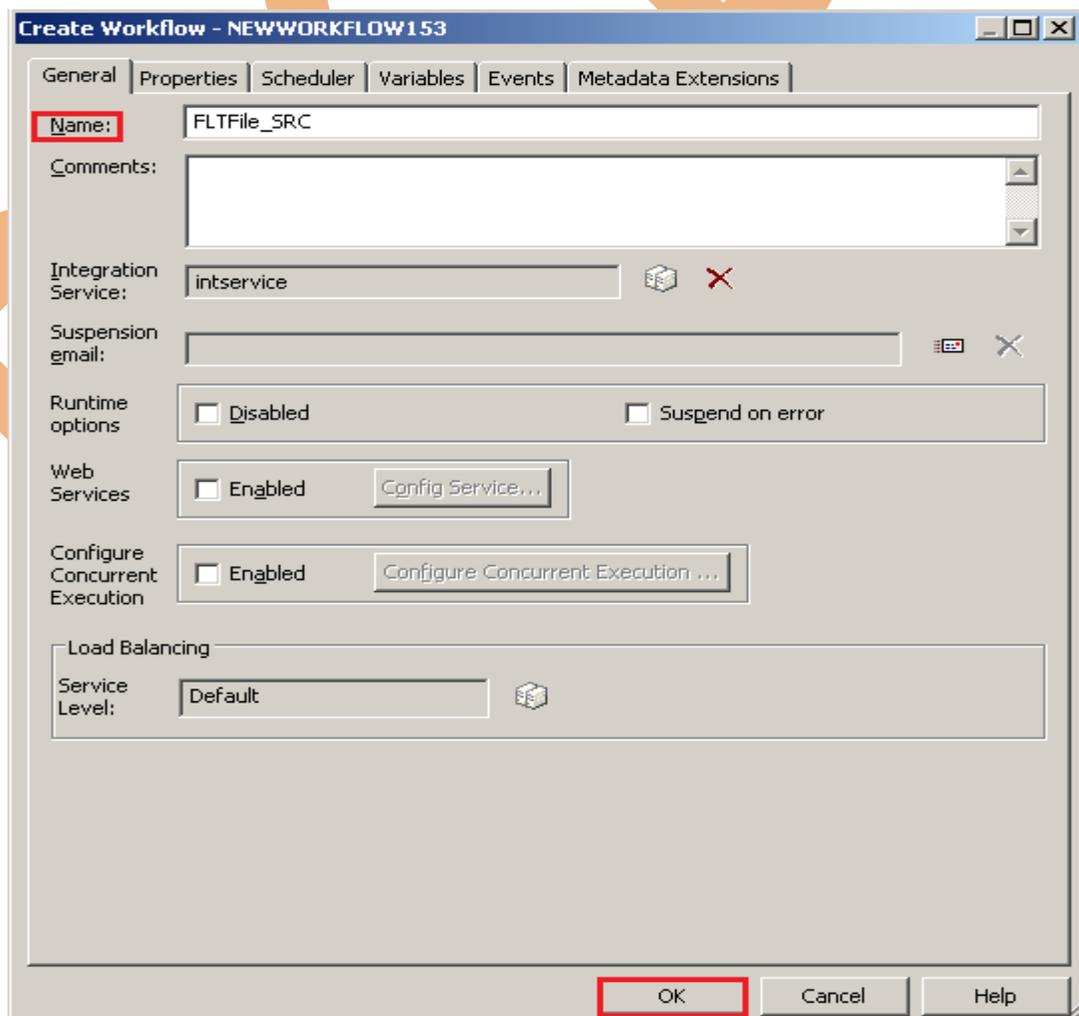
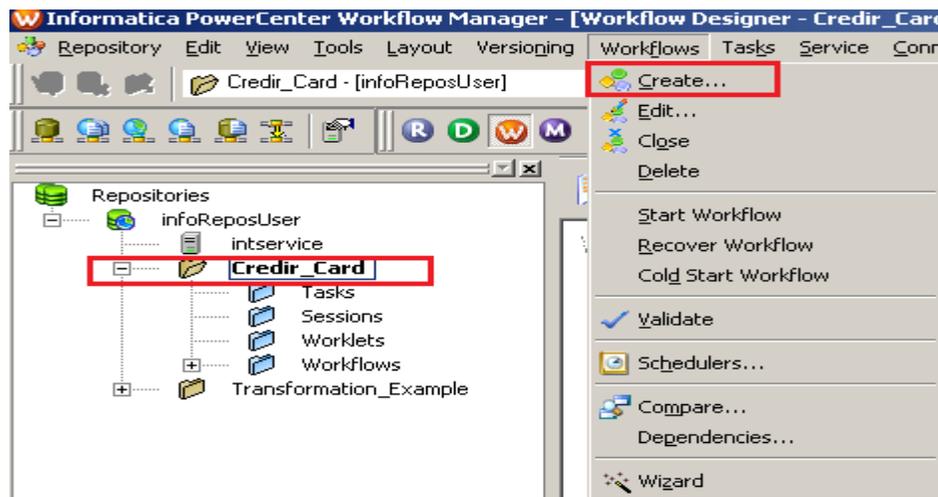
***** Mapping Flfile_RDBMS is VALID *****
 mapping Flfile_RDBMS updated.

CREATE WORKFLOW

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



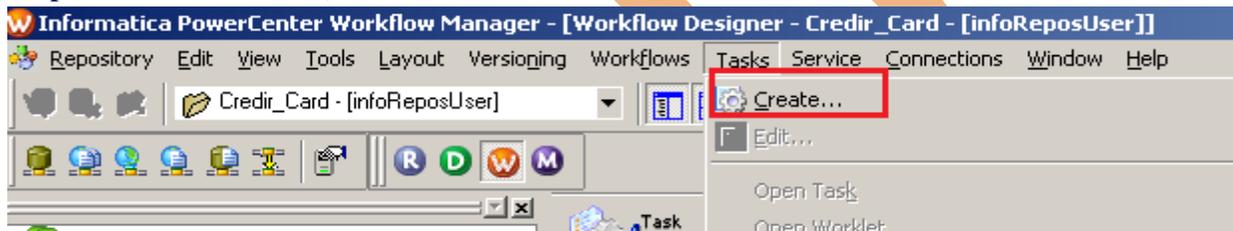
Step-2 Now to create workflows, Go to Workflows menu and select Create. After that Name of workflow and click OK buttons.



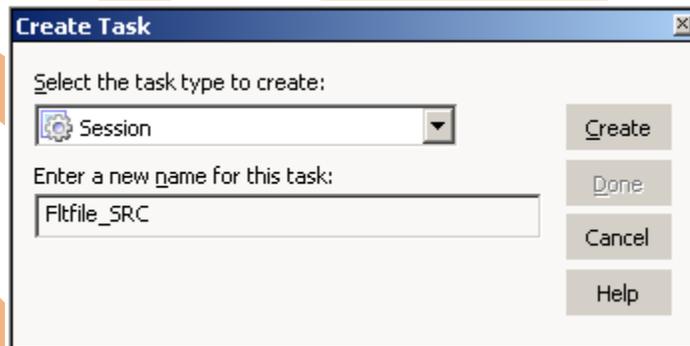
Step-3 Now workflow created.



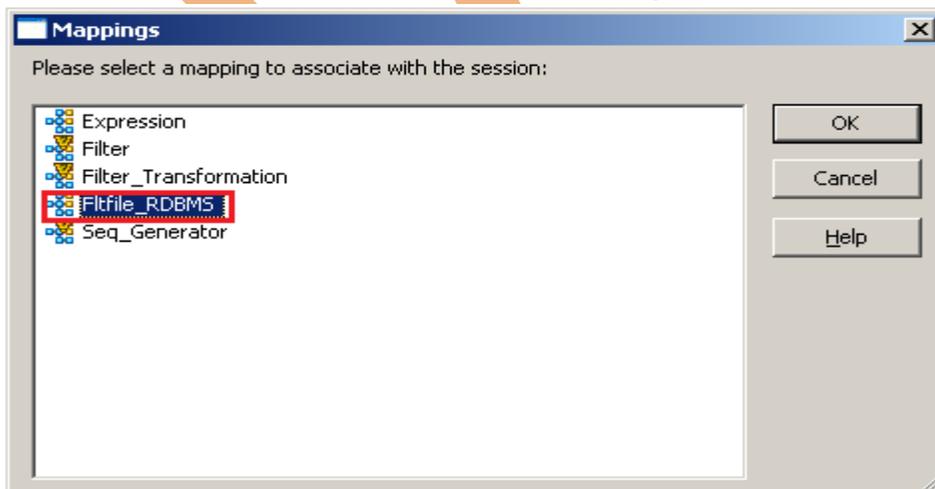
Step-4 Now create Task, Go to Tasks Menu and click Create.



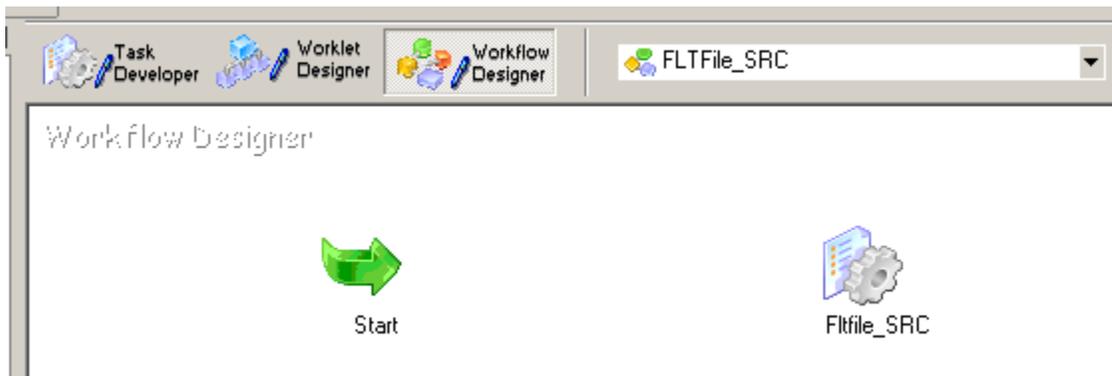
Step-5 Now select session and insert Name of task.



Step-6 Select Mapping to associate with the session.



Step-7 Workflow Designer Window.



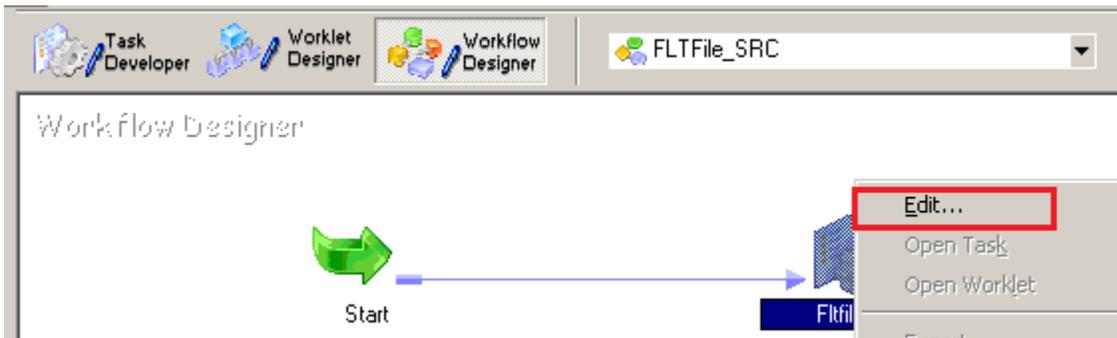
Step-8 Now create flow B/W Workflow to Task. Select Line Task and link to Start to Filter.



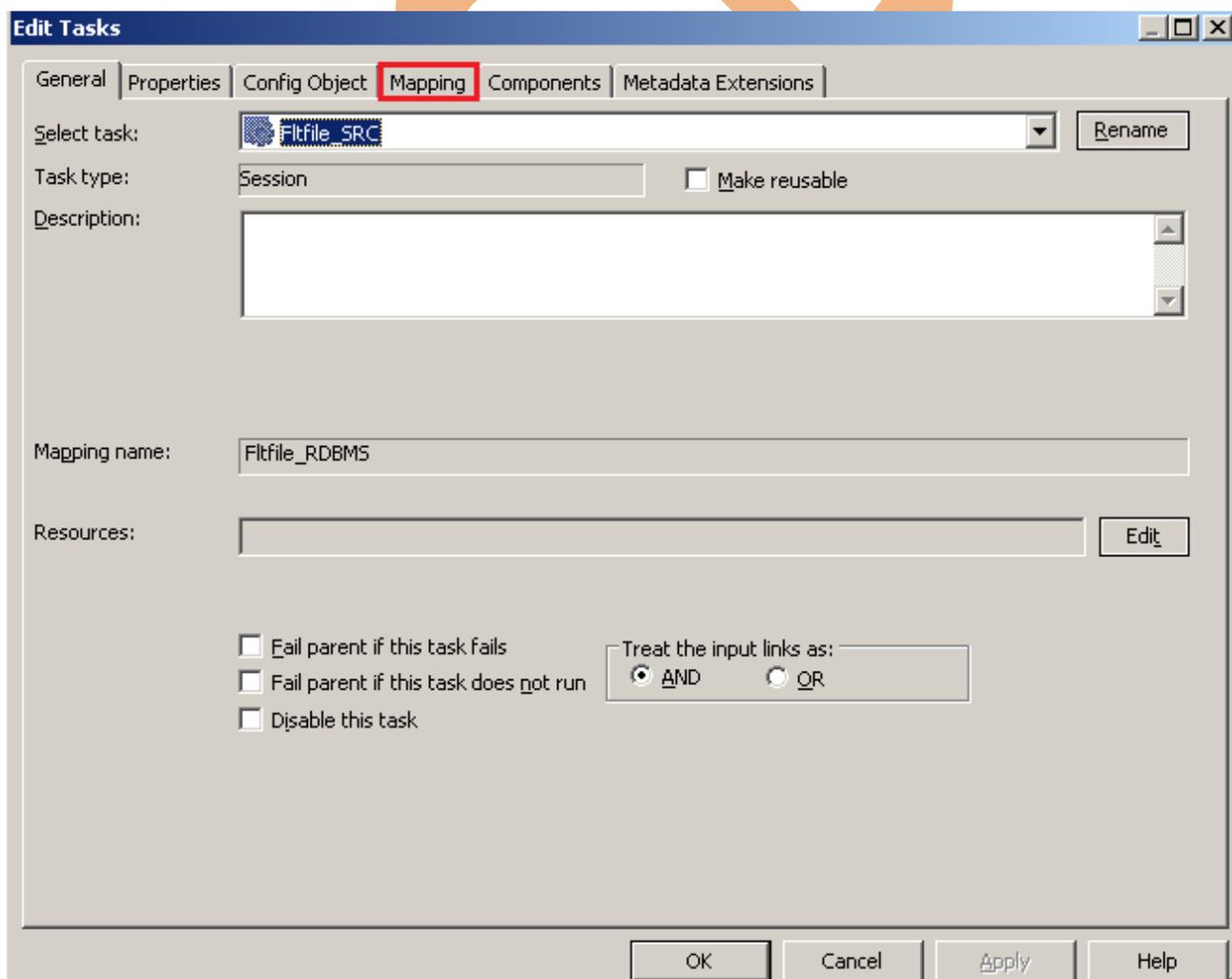
Step-9 Work Flow Designer Windows.

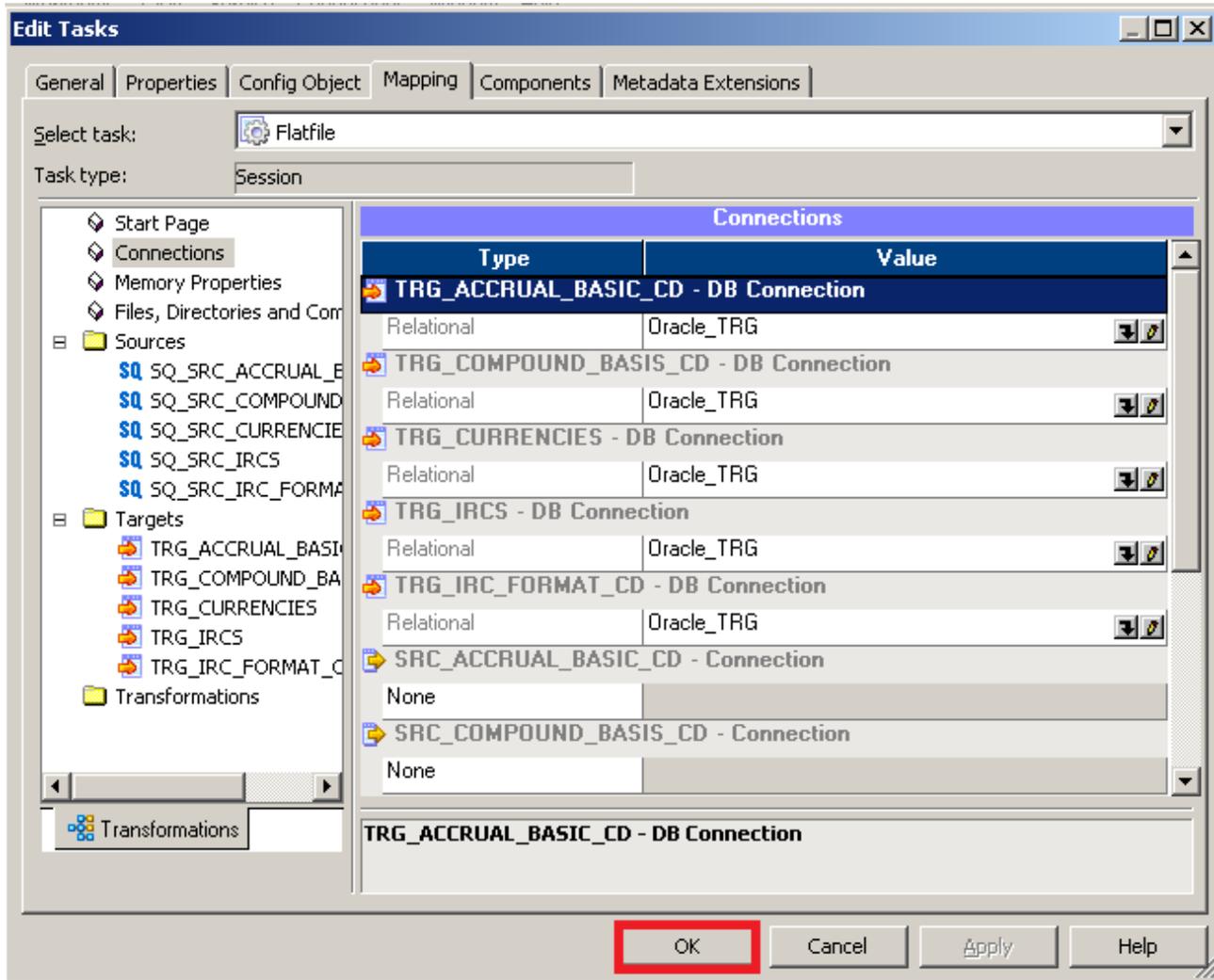


Step-10 Now Configure Connection to Target, Then Right Click on Expression and Edit, Then Click Mapping tab and configure connection for your Target table schema in oracle 11g RDBMS. And then click OK.



Step-11 Select DB Connection for Source and Target Relation Database.





Step-12 Now save (ctrl+s) this workflow and check it.

```
11/03/2012 15:38:57 *** Saving... Repository infoReposUser, Folder Credit_Card
```

```
Validating the flow semantics of Workflow FLTFile_SRC...
...flow semantics validation completed with no errors.
```

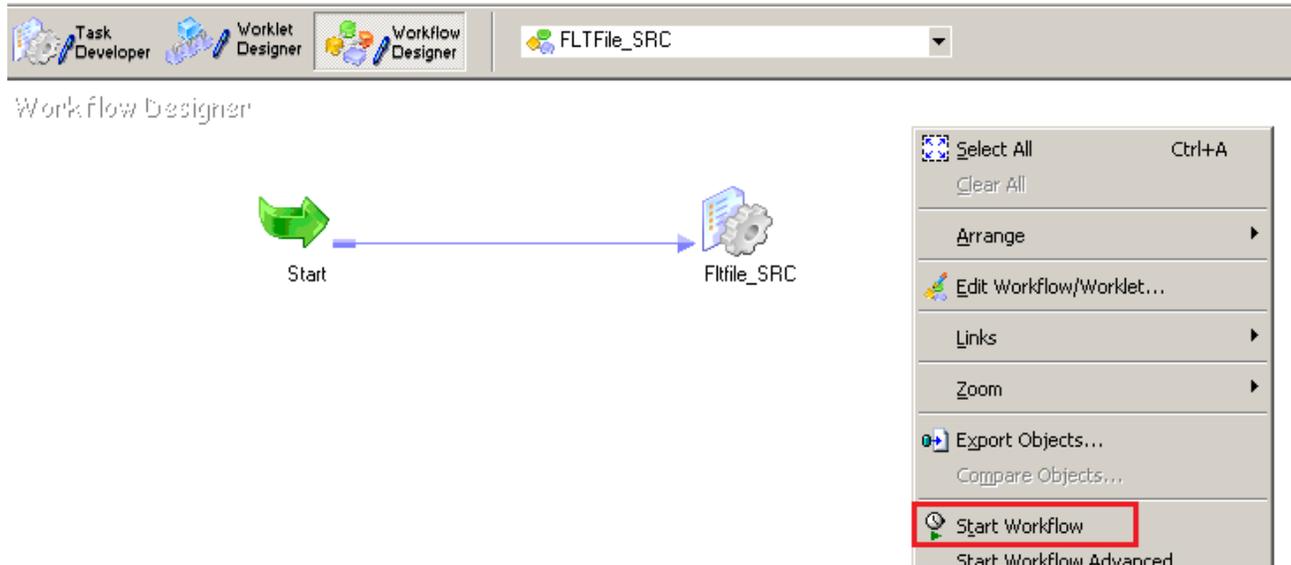
```
Validating tasks of Workflow FLTFile_SRC...
...Workflow FLTFile_SRC tasks validation completed with no errors.
```

```
***** Workflow FLTFile_SRC is VALID *****
```

```
Workflow FLTFile_SRC inserted.
```

WORKFLOW MONITOR AND VIEW TARGET DATA

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.

Session Name	Start Time	End Time	Status
FLTFile_SRC	11/3/2012 3:39:47 PM	11/3/2012 3:39:58 PM	Succeeded
Fltfile_SRC	11/3/2012 3:39:47 PM	11/3/2012 3:39:52 PM	Succeeded

Step-3 Session log.

Severity	Timestamp	Node	Thread	Message Co...	Message
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6014	Initializing session [Fltfile_SRC] at [Sat Nov 03 16:18:31 2012].
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6683	Repository Name: [infoReposUser]
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6684	Server Name: [intservice]
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6686	Folder: [Credir_Card]
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6685	Workflow: [FLTFile_SRC] Run Instance Name: [] Run Id: [133]
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6101	Mapping name: Fltfile_RDBMS [version CheckedOut].
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6964	Date format for the Session is [MM/DD/YYYY HH24:MI:SS.US]
INFO	11/3/2012 4:18:31 PM	node01_mitest	DIRECTOR	TM_6703	Session [Fltfile_SRC] is run by 32-bit Integration Service [node01_mitesha], version [9.0.1 HotFix2], build [1111].
INFO	11/3/2012 4:18:31 PM	node01_mitest	MANAGER	PETL 24058	Running Partition Group [1].

Severity: INFO
Timestamp: 11/3/2012 4:18:31 PM
Node: node01_mitesha
Thread: MAPPING
Process ID: 5772
Message Code: TM_6156
Message: Using low precision processing.

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

INTEREST_RATE_CD	IRC_NAME	IRC_FORMAT_CD	ISO_CURRENCY_CD	ACCRUAL_BASIS_CD	COMPOUND_BASIS_CD	IRC_DESC	IRC_STRUCTURE_TYPE	GENERATE_FREQUENCY_FLG	INTERF
1	100 6 Month ...		0 USD	3	150 6 Month ...		1	(null)	
2	500 Prime Mo...		0 USD	3	150 Prime M...		1	(null)	
3	120 Daily YC ...		0 USD	3	150 Daily YC ...		1	(null)	
4	510 Prime Dai...		0 HKD	3	150 Prime Da...		1	(null)	
5	128 TPOC AR...		0 ADP	3	150 TPOC A...		1	(null)	
6	130 Monthly ...		0 USD	3	150 Monthly ...		1	(null)	
7	212 Treasury...		0 USD	3	150 Treasur...		1	(null)	
8	405 User defi...		0 USD	3	150 User def...		1	(null)	
9	220 fiscal ye...		0 HKD	3	150 fiscal ye...		1	(null)	
10	164 164 Mon...		0 USD	3	150 164 Mon...		1	(null)	
11	165 165 Mon...		0 USD	3	150 165 Mon...		1	(null)	
12	166 166 Mon...		0 USD	3	150 166 Mon...		1	(null)	
13	168 168 Mon...		0 USD	3	150 168 Mon...		1	(null)	
14	219 Hull and ...		0 USD	3	150 Hull and ...		1	(null)	
15	200 TREASU...		1 USD	3	150 TREASU...		1	(null)	

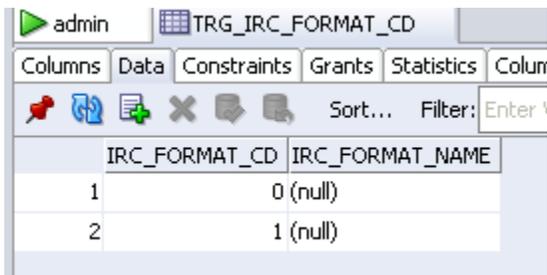
Step-4 Now view data in Target RDBMS (Oracle 11g) for table TRG_Accrual_Basic_CD.

ACCRUAL_BASIC_CD	ACCRUAL_BASIC_DISPLAY_CD
1	1 asdf01
2	2 jk;02
3	3 sdfsdfl
4	4 dfasf
5	5 vdfts
6	6 drtbs

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

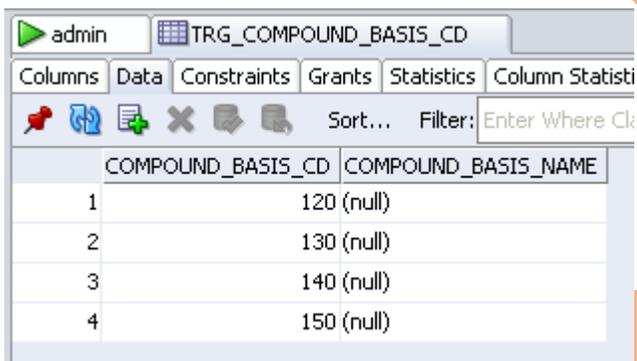
ISO_CURRENCY_CD	ISO_CURRENCY_NAME
1 USD	(null)
2 HKD	(null)
3 ADP	(null)

Step-4 Now view data in Target RDBMS (Oracle 11g) for table TRG_IRC_FORMAT_CD.



	IRC_FORMAT_CD	IRC_FORMAT_NAME
1	0 (null)	
2	1 (null)	

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



	COMPOUND_BASIS_CD	COMPOUND_BASIS_NAME
1	120 (null)	
2	130 (null)	
3	140 (null)	
4	150 (null)	