

# **Informatica Power Center 9.0.1 Building Financial Data Mode - Lab#3 Hands-on Guide on Designing Expressions**

# **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 designing expressions. Join our professional training program and learn from experts.

## **History:**

Version	<b>Description Change</b>	Author	<b>Publish Date</b>	
0.1	<b>Initial Draft</b>	Upendra Upadhyay	10th Jul 2011	
01.	Review#1	Amit Sharma	12th July 2011	

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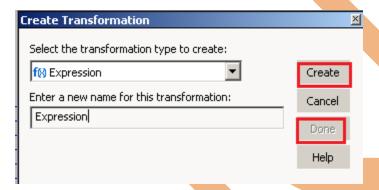
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# Introduction

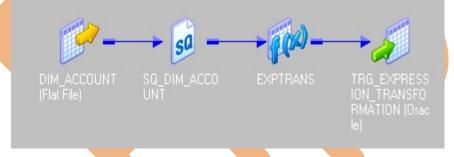
### **Expression Transformation in Informatica.**

Expression transformation is a connected, passive transformation used to calculate values on a single row. Examples of calculations are concatenating the first and last name, adjusting the employee salaries, converting strings to date etc. Expression transformation can also be used to test conditional statements before passing the data to other transformations.

### **Expression Transformation.**



## **Process of Expression Transformation.**

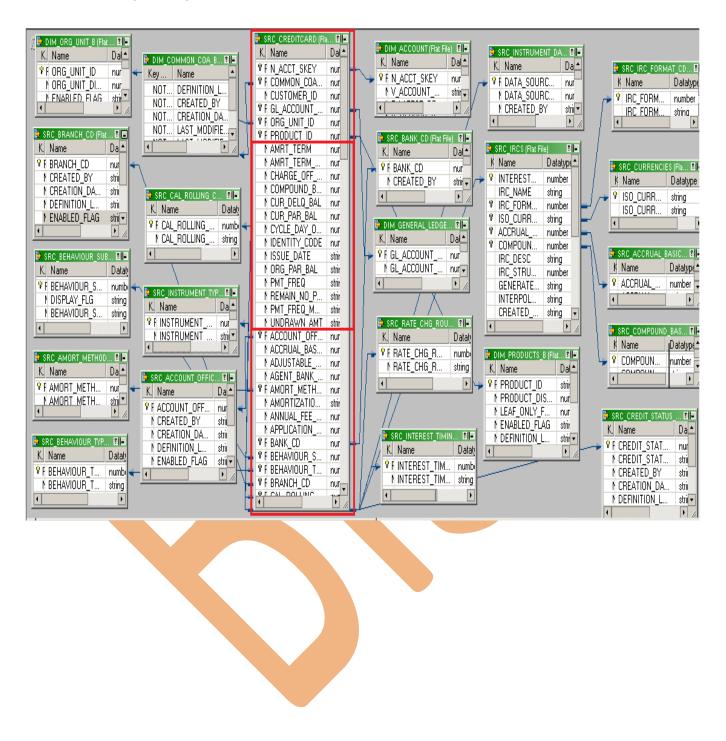


# Expression.

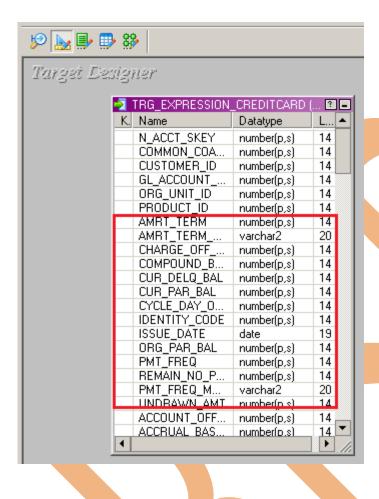
Definition Name	Expression Transformation						
ource Name	SRC_CREDITCARD						
Target Name	TRG_CREDITCARD						
Source Details					Target Details		
Entity Name Field/Expression Name Data Type Is Nu SQL Expression Destination Field							
EXPRESSION	AMRT_TERM	Number	γ	N_ORIG_TERM	TRG_CREDITCARD /	AMRT_TERM	
EXPRESSION	AMRT_TERM_MULT	Varchar2(20)	γ	N_OVER_LIMIT_BAL	TRG_CREDITCARD	AMRT_TERM_MULT	
EXPRESSION	CHARGE_OFF_BAL	Number	γ	N_EOP_BAL+N_HIGH_BAL+N_OVER_LIMIT_BAL	TRG_CREDITCARD	CHARGE_OFF_BAL	
EXPRESSION	COMPOUND_BASIS_CD	Number	γ	DECODE(TRUE, (COMPOUND_BASIS_CD1=1),1,2)	TRG_CREDITCARD (	COMPOUND_BASIS_CD	
EXPRESSION	CUR_DELQ_BAL	Number	γ	CUR_DELQ_BAL	TRG_CREDITCARD (	CUR_DELQ_BAL	
EXPRESSION	CUR_PAR_BAL	Number	γ	N_EOP_BAL	TRG_CREDITCARD (	CUR_PAR_BAL	
EXPRESSION	CYCLE_DAY_OF_MONTH	Number	Υ	TO_DECIMAL(to_char(SRC_CREDITCARD.FIC_MIS_DATE,'DD'))	TRG_CREDITCARD (	CYCLE_DAY_OF_MONTH	
EXPRESSION	IDENTITY_CODE	Number	N	TO_CHAR(SRC_CREDITCARD.FIC_MIS_DATE,'YYYYMMDD')	TRG_CREDITCARD	DENTITY_CODE	
EXPRESSION	ISSUE_DATE	DATE	γ	SYSTIMESTAMP()	TRG_CREDITCARD	SSUE_DATE	
EXPRESSION	ORG_PAR_BAL	Number	γ	N_ACCT_TOT_BT_AMT	TRG_CREDITCARD	ORG_PAR_BAL	
EXPRESSION	PMT_FREQ	Number	γ	DECODE(TRUE, (PMT_FREQ1=1),1,0)	TRG_CREDITCARD	PMT_FREQ	
EXPRESSION	REMAIN_NO_PMTS_C	Number	γ	TO_DECIMAL(1)	TRG_CREDITCARD	REMAIN_NO_PMTS_C	
EXPRESSION	PMT_FREQ_MULT	Varchar2(20)	γ	IIF(PMT_FREQ_MULT1=Y',True,False)	TRG_CREDITCARD	PMT_FREQ_MULT	
EXPRESSION	UNDRAWN_AMT	Number	γ	(SRC_CREDITCARD.N_CURRENT_CREDIT_LIMIT-SRC_CREDITCARD.N_DRAWN_AMT	TRG_CREDITCARD	JNDRAWN_AMT	



### Source Table(Model).



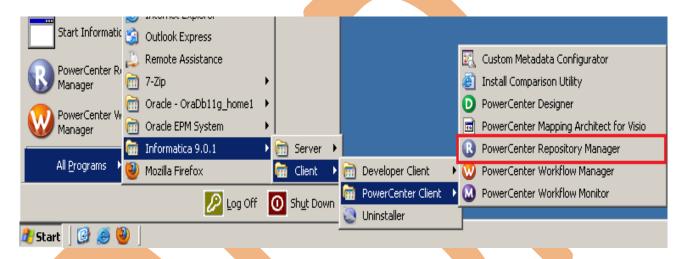
### Target Table.



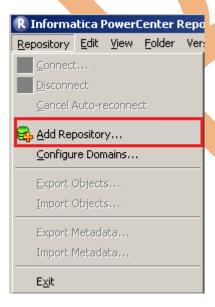
## **Creating Repository and Folder**

# **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.



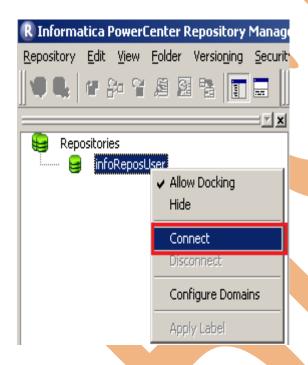
Step-2 Then click on Repository Menu and click on Add Repository.



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.

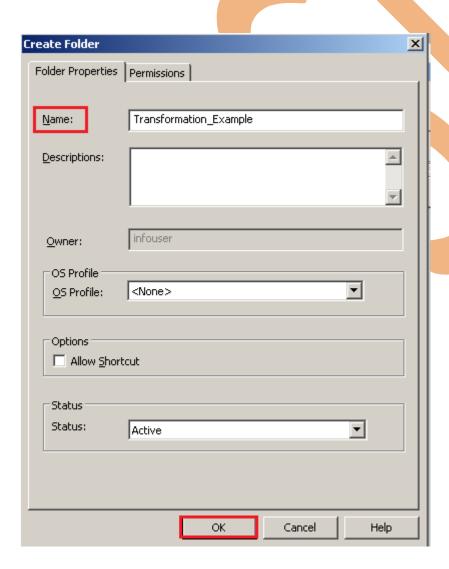


# **Creating Folder.**

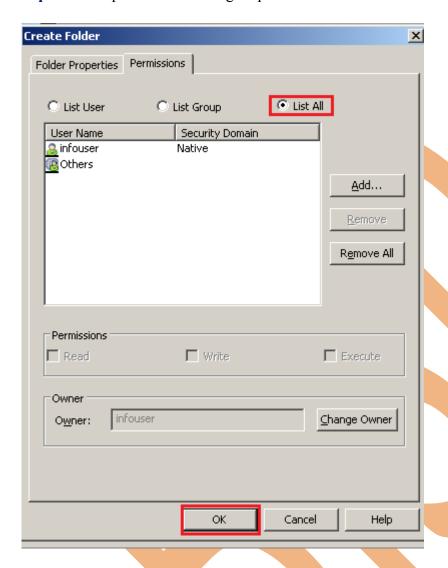
Step-1 Go to Informatica Power Center Repository Manager and click on Folder Menu and click on Create.



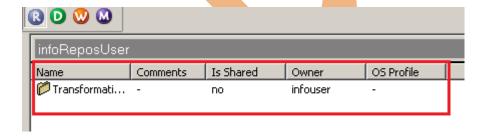
Step-2 Specify Name of Folder, Description, Owner, OS Profile, Options, Status and got to permissions tab.



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

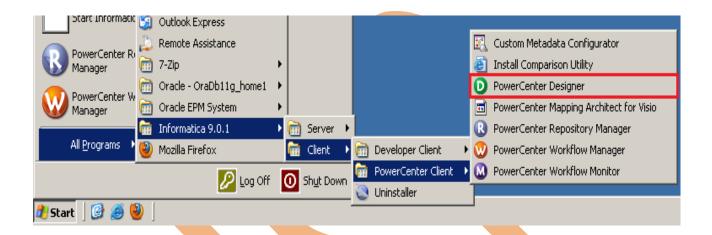


**Step-4** This is newly created Folder

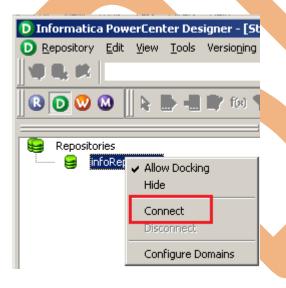


# **Importing Source and Target Table**

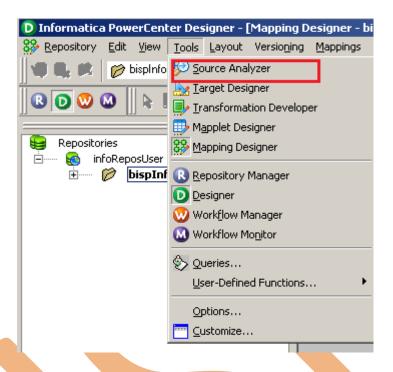
Step-1 Click on Start -> All Programs -> Informatica 9.0.1 -> Client -> Power Center Client -> Power Center Designer..



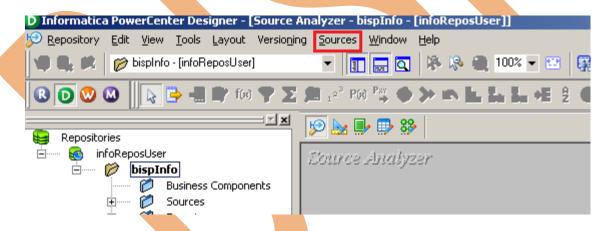
Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and click on Connect.



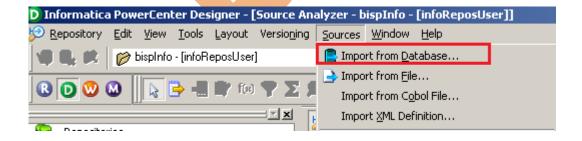
**Step-3** Go to Tools Menu and click on Source Analyzer to import source table.



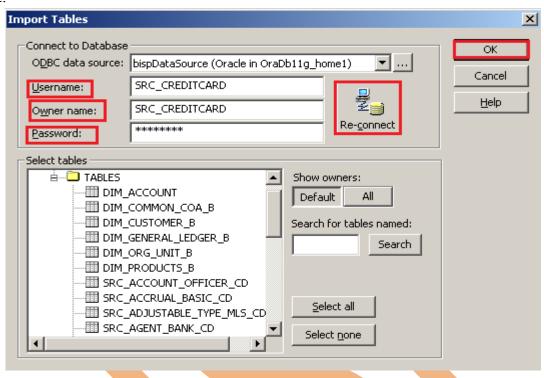
Step-4 And then go to Sources Menu in Informatica Power Center Designer.

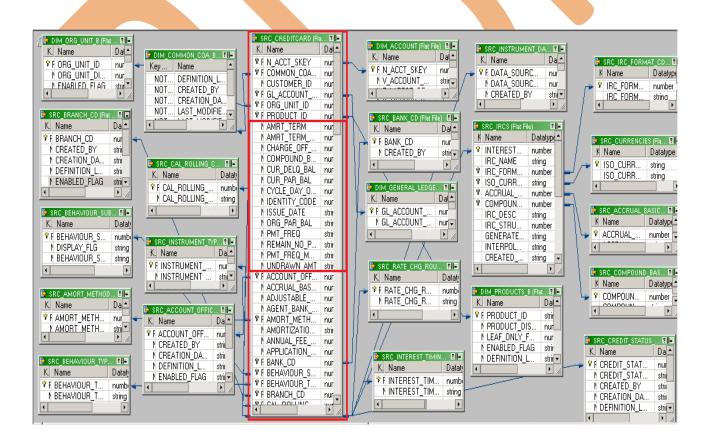


Step-4 And then select Source menu and click on Import from database

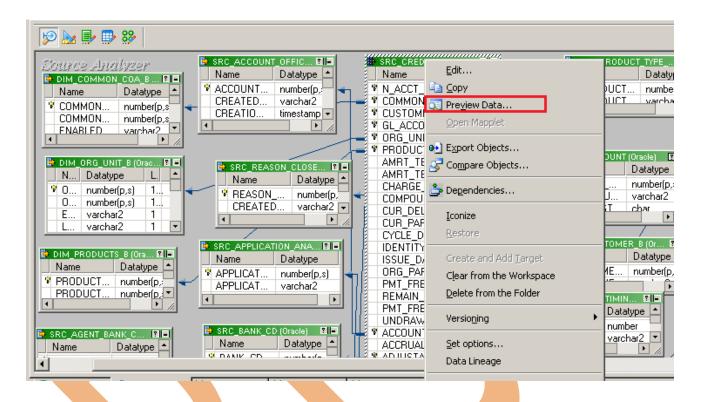


Step-5 Specify Username, Owner name, password and then connect. Then select source table and click OK.

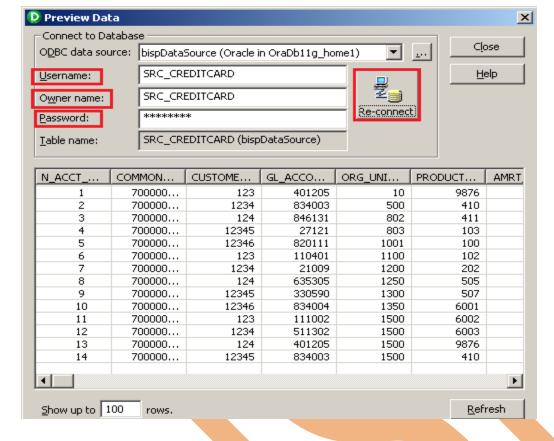




Step-6 View data in source analyzer, Right click on SRC CREDITCARD and select Preview Data.



Step-7 Specify Username and Password and connect it. Then Close it.

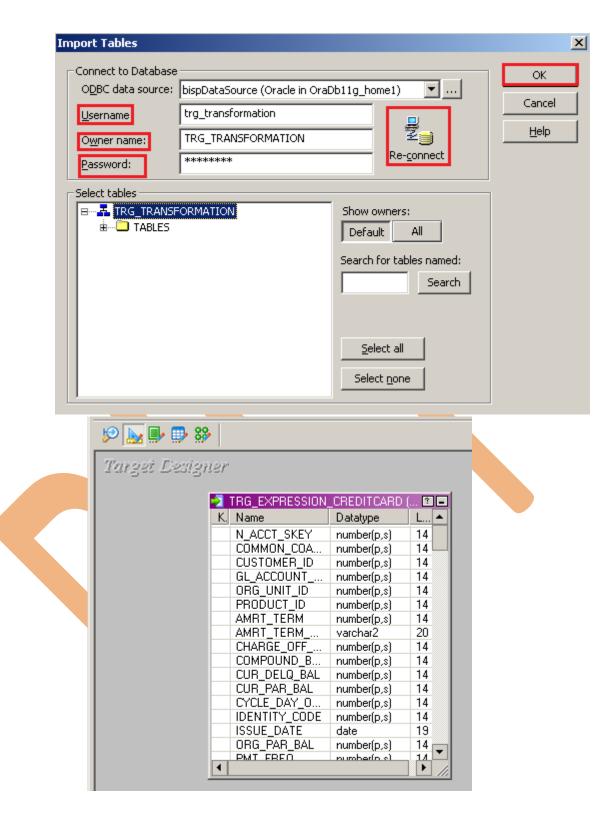


Step-8 Now click on Target Designer.

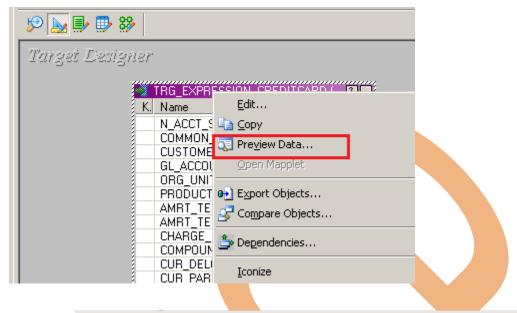
Step-9 And then select Target menu and click on Import from database to import target table.

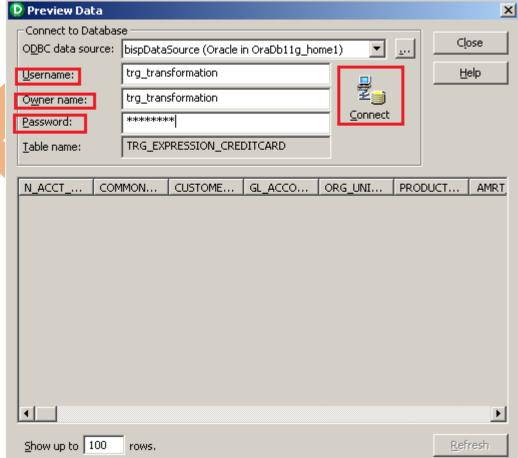


Step-10 Specify Username, Owner name, password and then click on connect and then select table and then OK.



Step-11 To view data select table and Right click on that table after that specify Username and Password and connect it. Then Close it.



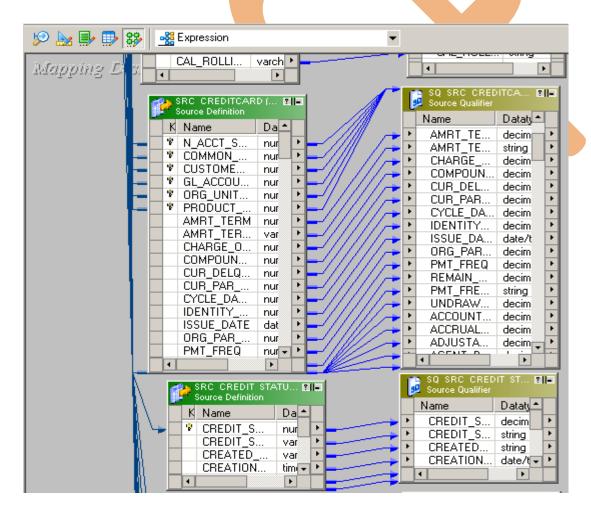


### CREATE MAPPING AND DESIGNING EXPRESSIONS

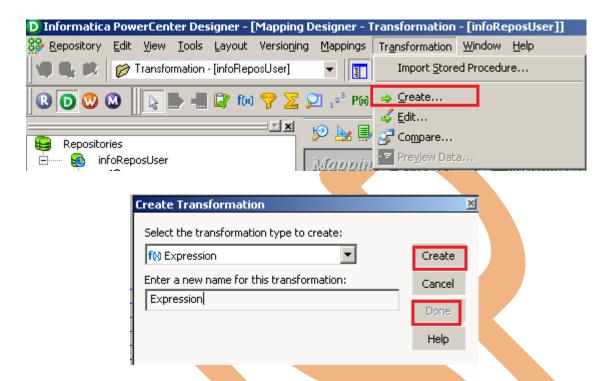
Step-1 Go to Mapping Designer and Create New Mapping and then name of mapping and click OK.



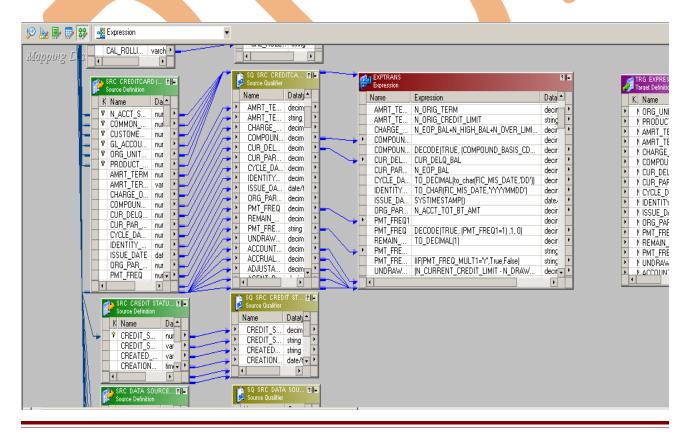
Step-2 Then drag and drop source and target data in Mapping Designer.



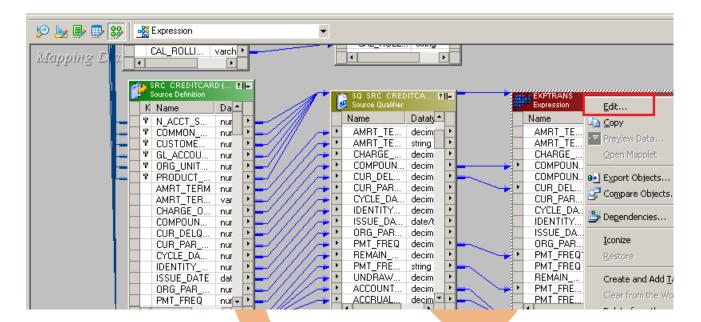
Step-3 Then create transformation, Click on Transformation menu and select Create. Then select Expression in dropdown and give name of transformation and click Create and then click Done.



Step-4 Then drag and drop all SQ SRC CREDITCARD Source Qualifier column into Expression Transformation table.



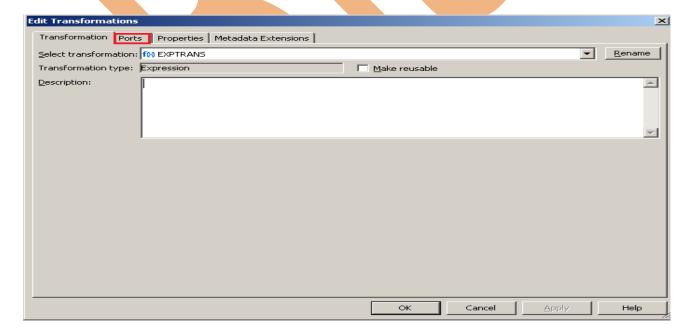
**Step-5** Then right click on Expression transformation and select Edit.



**Step-4** The expression transformation has the following tabs,

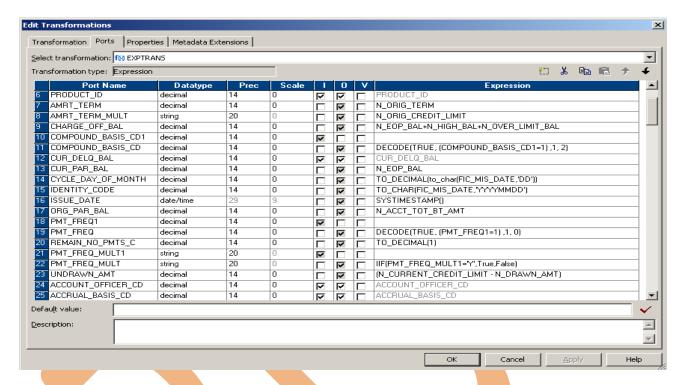
- Transformation: You can enter the name and description of the transformation. You can also make the expression transformation reusable.
- **Ports**: Create new ports and configuring the ports.
- **Properties:** Configure the tracing level to set the amount of transaction detail to be logged in session log file.
- Metadata Extensions: You can specify extension name, data type, precision, value and can also create reusable metadata extensions.

Go to Ports tabs.

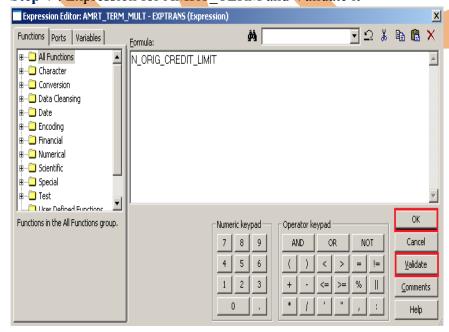


**Step-6**. Click on to Add New Port. and configure components on the ports tab.

- **Port name**: Enter a name for the port.
- **Datatype**: Select the data type
- **Precision and scale**: set the precision and scale for each port.
- Port type: A port can be input, input/output, output or variable.
- **Expression**: Enter the expressions in the expression edit.

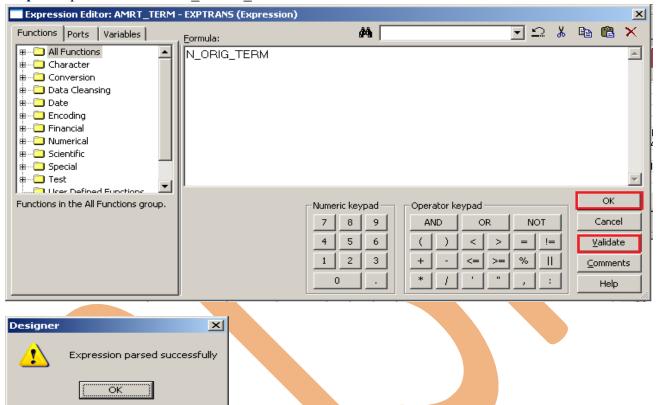


Step-7. Expression for AMRT TERM and Validate it

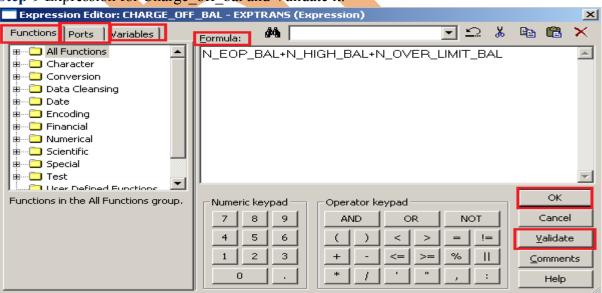




Step-8 Expression for AMIT TERM MULT and Validate it

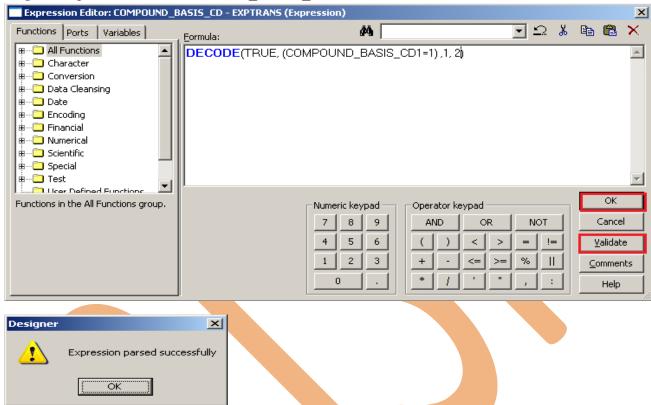


Step-9 Expression for Charge off bal and Validate it.





Step-10 Expression for COMPOUND BASIS CD and Validate it

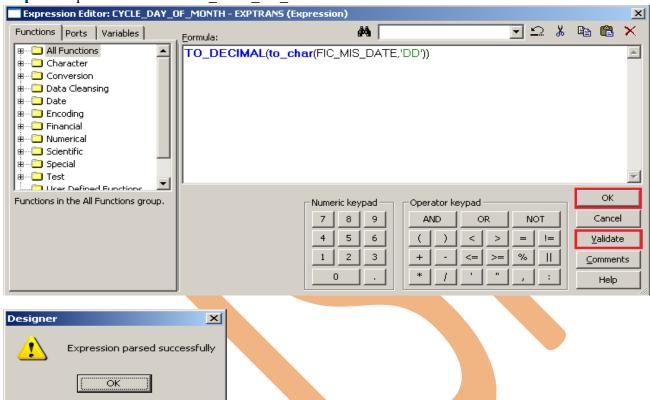


Step-11 Expression for CUR PAR BAL and Validate it

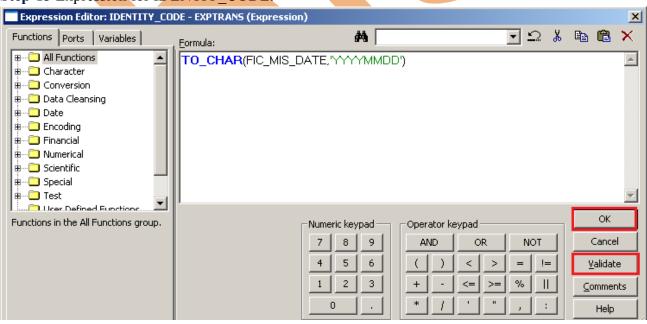




Step-12 Expression for CYCLE DAY OF MONTH and Validate it

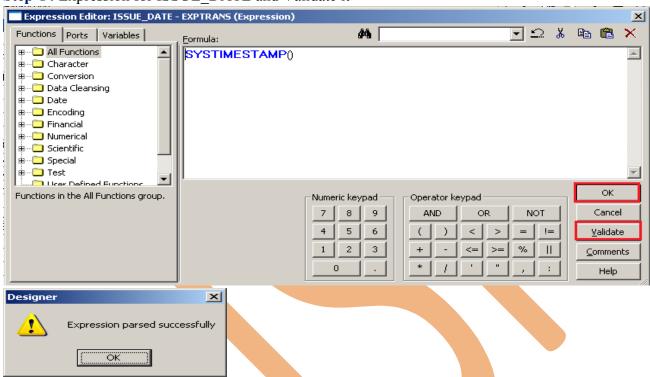


### Step-13 Expression for IDENTIY CODE.

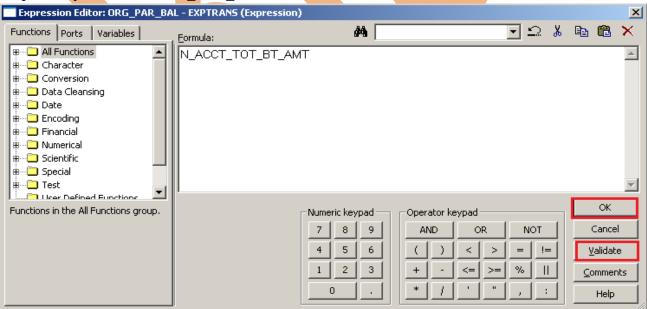




Step-14 Expression for ISSUE DATE and Validate it

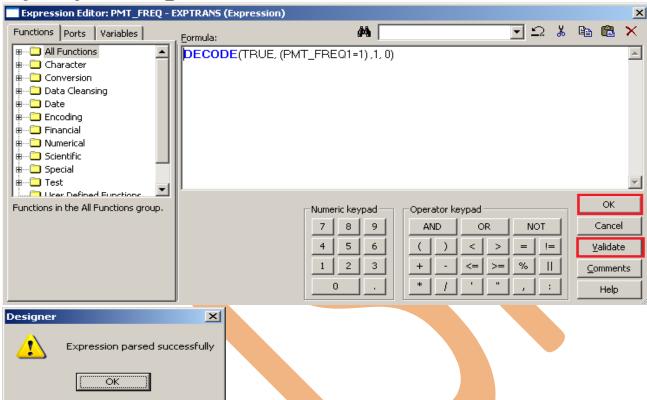


Step-15 Expression for ORG PAR BAL and Validate it

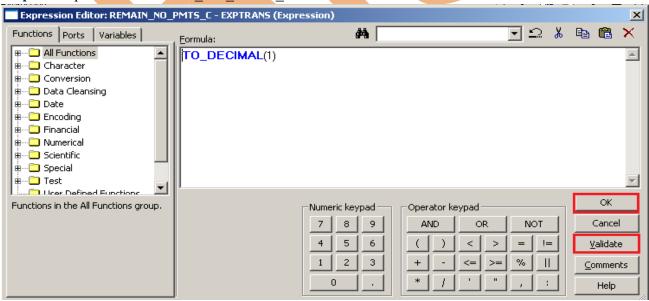




Step-16 Expression PMT FREQ and Validate it.

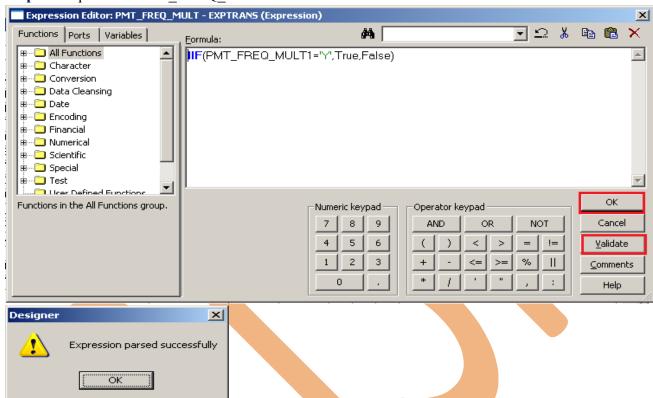


Step-17 Expression REMAIN\_NO\_PMTS\_C and Validate it.

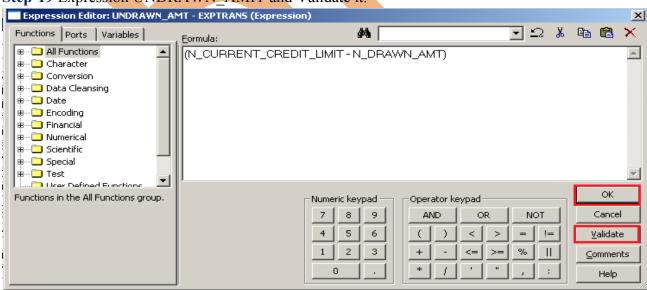




**Step-18** Expression PMT FREQ MULT and Validate it.

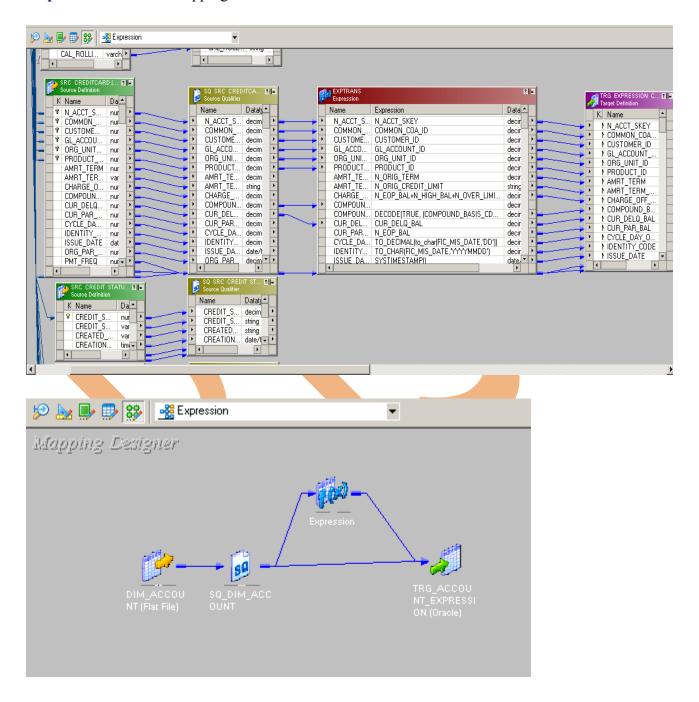


### Step-19 Expression UNDRAWN AMIT and Validate it.





**Step-20** . Now Create Mapping.



Step-11 . Save this mapping.

10/30/2012 15:01:51 \*\* Saving... Repository infoReposUser, Folder Credir\_Card

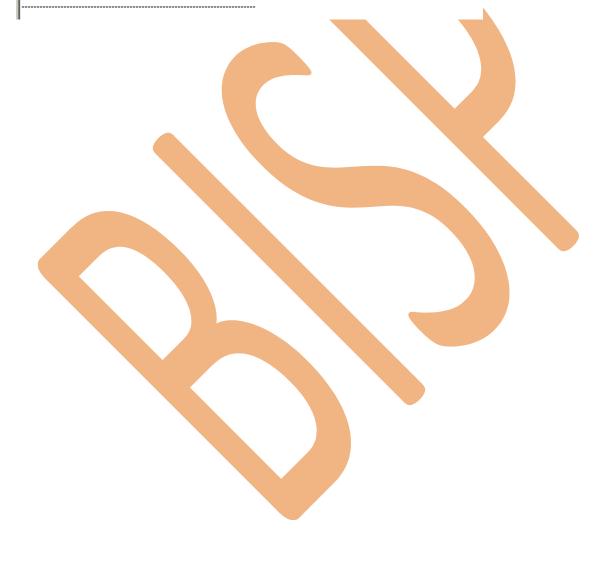
Validating transformations of mapping Expression...

...transformation validation completed with no errors. Validating data flow of mapping Expression...

...data flow validation completed with no errors.

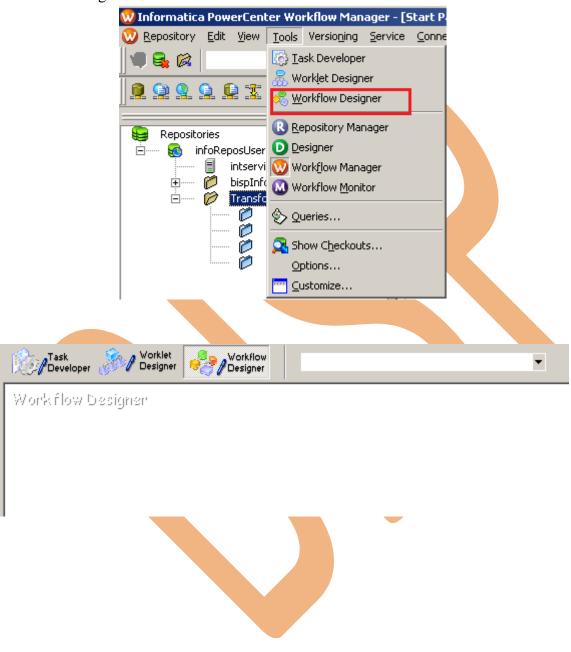
Parsing mapping Expression... ...parsing completed with no errors.

\*\*\*\*\*\*\* Mapping Expression is VALID \*\*\*\*\*\*\* mapping Expression updated.

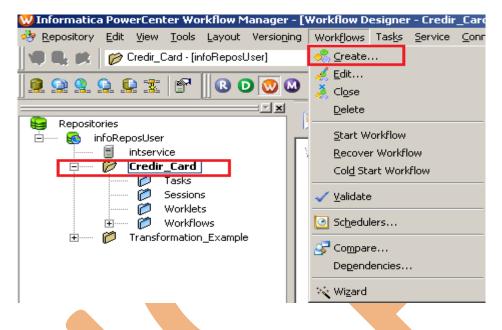


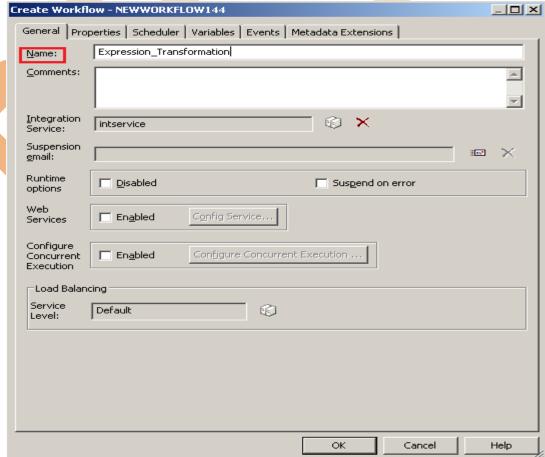
### **CREATE WORKFLOW**

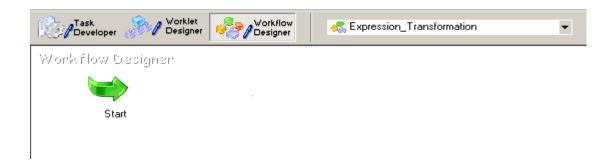
Step-1 Now go to Informatica Power Center Workflow Manager, and go to Tools menu and select Workflow Designer.



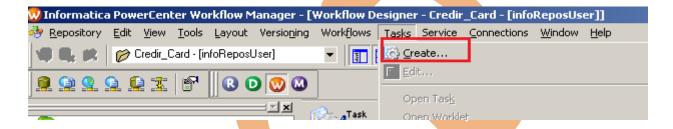
Step-2 Now to create workflows, Go to Workflows menu and select Create. After that Name of workflow and click OK buttons.



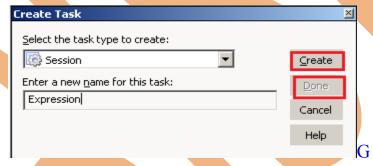




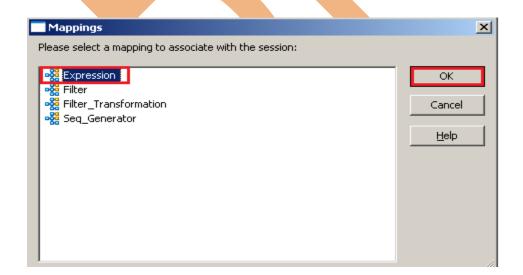
Step-3 Now create Task, Go to Tasks Menu and click Create.



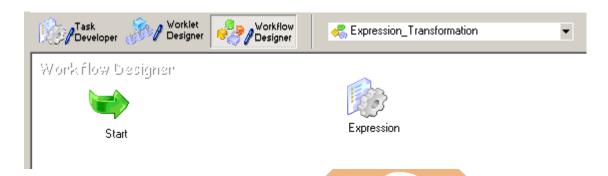
Step-4 Now select session and insert Name of task.



Step-5 Select Mapping to associate with the session.



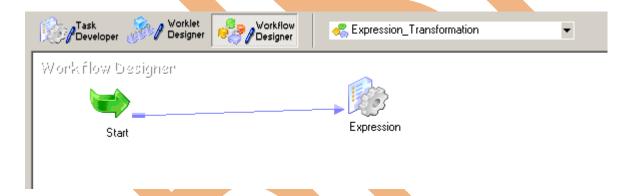
### **Step-6** Workflow Designer Window.



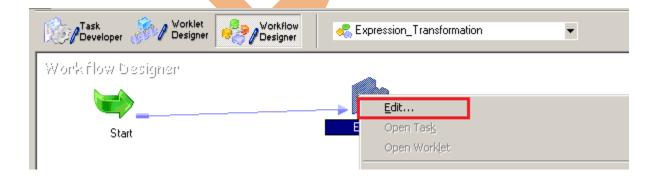
Step-7 Now create flow B/W Workflow to Task. Select Line Task and link to Start to Filter.



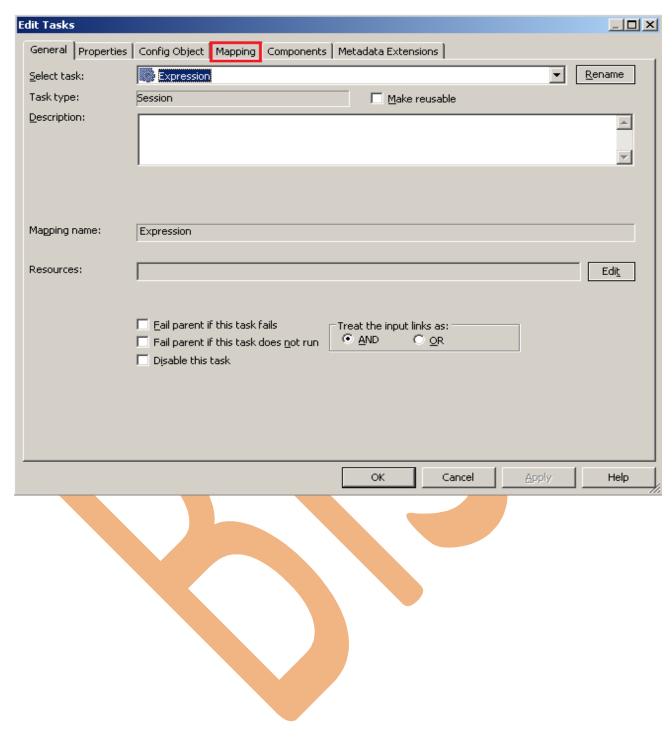
Step-8 Work Flow Designer Windows.



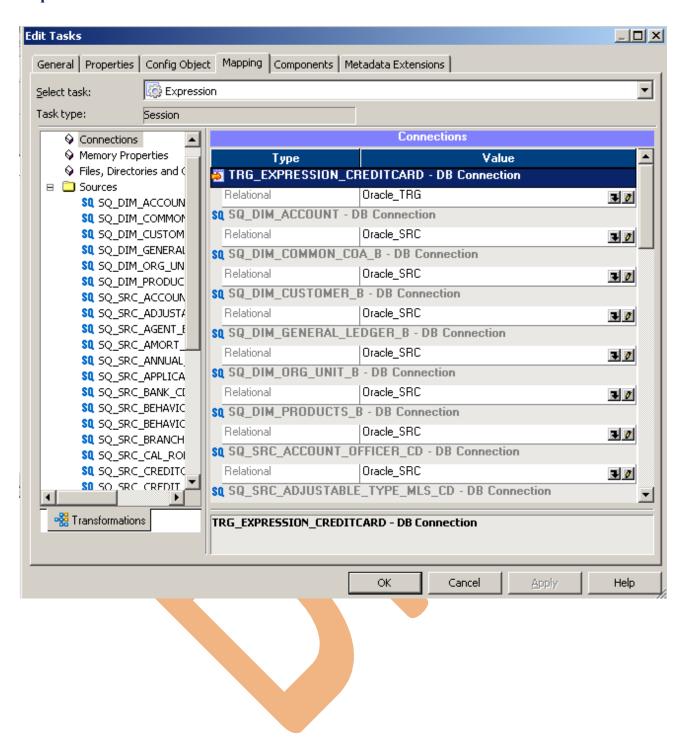
Step-9 Now Configure Connection to Target, Then Right Click on Expression and Edit, Then Click Mapping tab and configure connection for your Target table schema in oracle 11g RDBMS. And then click OK.



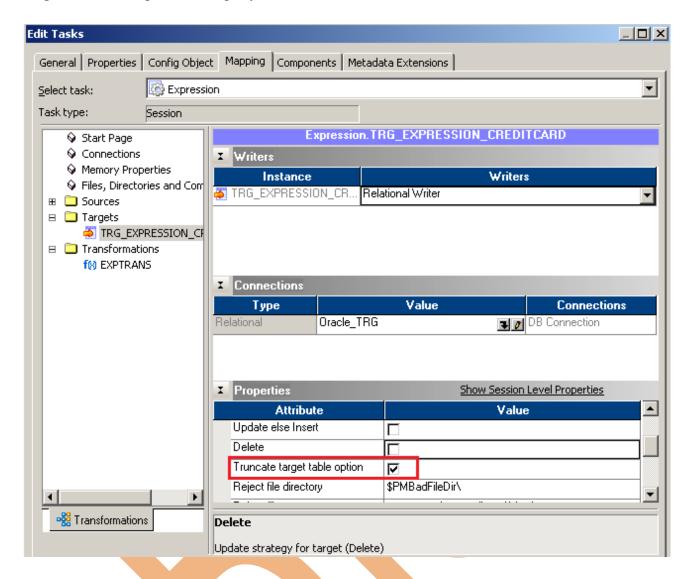
Step-10 Select DB Connection for Source and Target Relation Database in Mapping tab.



#### **Step-10** DB Connection.



**Step-10** Select Target table Property.

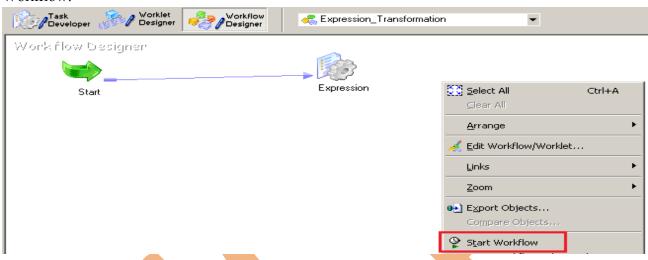


Step-11 Now save (ctrl+s) this workflow and check it.

10/30/2012 14:42:53 \*\* Saving... Repository infoReposUser, Folder Credir\_Card √alidating the flow semantics of Workflow Expression\_Transformation... ..flow semantics validation completed with no errors. Validating tasks of Workflow Expression\_Transformation... ..Workflow Expression\_Transformation tasks validation completed with no errors. \*\*\*\*\*\*\*\* Workflow Expression\_Transformation is VALID \*\*\*\*\*\*\*\* Workflow Expression\_Transformation updated.

### WORKFLOW MONITOR AND VIEW TARGET DATA

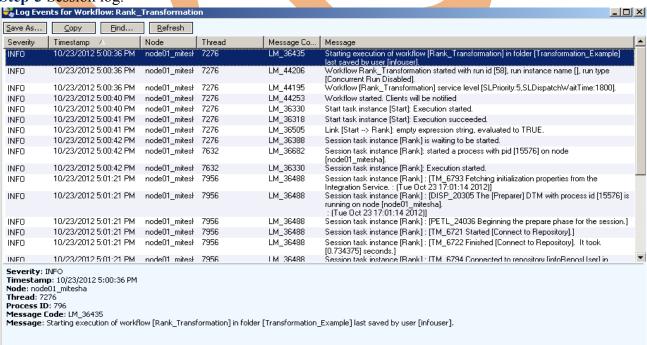
Step-1 Now Start Workflow, Right click on Workflow Designer Window and Click on Start Workflow.



### Step-2 Check session in Informatica PowerCenter Workflow Monitor.



#### **Step-3** Session log.



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

