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Informatica Power Center 9.0.1 Building Financial Data Mode - Lab#12 <u>Hands-on Guide on Aggregator Transformation</u>

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

History:

VersionDescription ChangeAuthorPublish Date0.1Initial DraftUpendra Upadhyay10th Aug 20110.1Review#1Amit Sharma12th Aug 2011

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Introduction

Aggregator Transformation in Informatica.

Aggregator transformation is an active transformation used to perform calculations such as sums, averages, counts on groups of data. The integration service stores the data group and row data in aggregate cache.

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Create
Cancel
Help

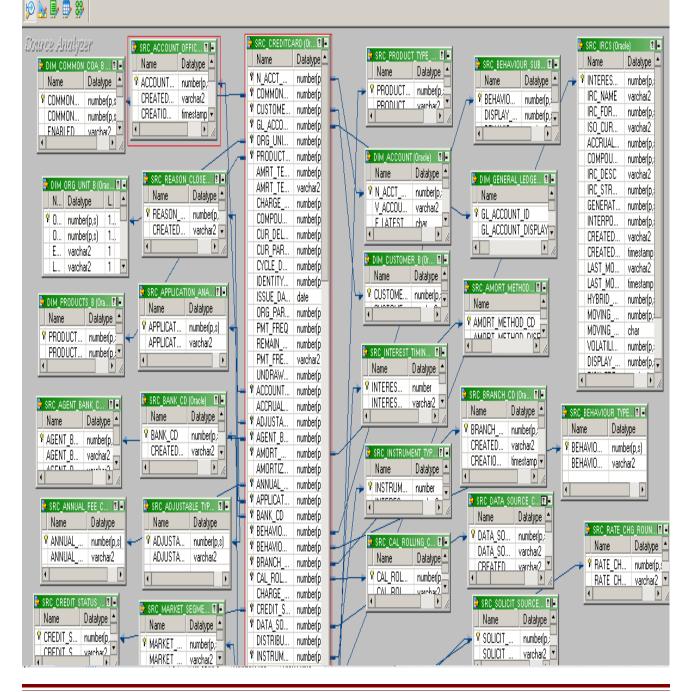
Description

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

Aggregation Query.

	non Querje				
Definition Name	Aggregation Transformation				
Source Name	SRC_CREDITCARD				
Target Name	TRG_AGG_CREDITCARD				
Source Details				Target Details	
Entity Name	Field/Expression Name	Data Type	Aggregation Query	Destination Entity Name	Destination Field Name
Expression	CHARGE_OFF_BAL	Number	IIF(SUM(CHARGE_OFF_BAL1) <10000, SUM(CHARGE_OFF_BAL1),0)	TRG_AGG_CREDITCARD	CHARGE_OFF_BAL
Expression	COMPOUND_BASIS_CD	Number	COUNT(COMPOUND_BASIS_CD)	TRG_AGG_CREDITCARD	COMPOUND_BASIS_CD
Expression	N_AVG_BAL_MTD	Number	SUM(N_AVG_BAL_MTD)	TRG_AGG_CREDITCARD	N_AVG_BAL_MTD

Source Table



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Target Table

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	ARD (🏾 🗖
K. Name	Datatype 🔺
N_ACCT_SKEY	number(p,s
COMMON_COA	number(p,s
CUSTOMER_ID	number(p,s
GL_ACCOUNT	number(p,s
ORG_UNIT_ID	number(p,s
PRODUCT_ID	number(p,s
AMRT_TERM	number(p,s
AMRT_TERM	varchar2
CHARGE_OFF	number(p,s
COMPOUND_B	number(p,s
CUR_DELQ_BAL	number(p,s
CUR_PAR_BAL	number(p,s
CYCLE_DAY_0	number(p,s
IDENTITY_CODE	number(p,s
ISSUE_DATE	date
ORG_PAR_BAL	number(p,s
PMT_FREQ	number(p,s
REMAIN_NO_P	number(p,s
PMT_FREQ_M	varchar2
UNDRAWN_AMT	number(p,s
ACCOUNT_OFF	number(p,s
ACCRUAL_BAS	number(p,s
ADJUSTABLE	number(p,s
AGENT_BANK	number(p,s
AMORT_METH	number(p,s
AMORTIZATIO	number(p,s
ANNUAL_FEE	number(p,s
APPLICATION	number(p,s 🔻

SELECT A.account_officer_cd, Sum(B.n_avg_bal_mtd) FROM SRC_CREDITCARD.SRC_ACCOUNT_OFFICER_CD A, SRC_CREDITCARD.SRC_CREDITCARD B where A.ACCOUNT_OFFICER_CD=B.ACCOUNT_OFFICER_CD group by A.account_officer_cd

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	Remote Assistance			E .	Custom Metadata Configurator
Manager 🛅	7-Zip	•		۲	Install Comparison Utility
n PowerCenter W	Oracle - OraDb11g_home1	•		D	PowerCenter Designer
Manager 🛅	Oracle EPM System	•	1		PowerCenter Mapping Architect for Visio
	Informatica 9.0.1	🕨 🧰 Server 🔸	\sim	R	PowerCenter Repository Manager
All <u>P</u> rograms	Mozilla Firefox	🛅 Client 🔸	Developer (PowerCenter Workflow Manager
	💋 Log Off	0 Sh <u>u</u> t Down	m PowerCente	er Client 🔸 🙆	PowerCenter Workflow Monitor
A			luninstaller		
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Step-2 Then click on	Popository Monu o	nd aliab on	Add Damag	itory	
Step-2 Then enex on	Repository Menu a		Aud Repos	nory.	
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	Dis	connect			
	⊆ar	ncel Auto-reconr	nect		
	<u> A</u> d	d Repository			
		nfigure Domains.		1	
	Exi	oort Objects			
	Im	oort Objects			
	Ext	oort Metadata			
		port Metadata			
	E <u>x</u> i				

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

Add Repository		×
Repository:	ОК	1
Username:	Cancel	

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

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		Connect
		Disconnect
		Configure Domains
		Apply Label
		and and alight an Connect
Step-5 GI	ve Osername & p	password and click on Connect.
C	Connect to Repositor	ry 🗙
	Connect to Repositor	NA
	<u>R</u> epository:	infoReposUser Cancel
	Username:	infouser Help
	Password:	•••••••
	Security Domain:	Native

Creating Folder.

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

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

Create Folder	
Folder Properties Permissions	
Name: NEWFOLDERO Descriptions:	
OS Profile OS Profile: None>	
Options -	
Status Status: Active	
OK Cancel Help	

	Create Folder
	Folder Properties Permissions
	O List User O List Group O List All
	User Name Security Domain
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	<u>A</u> dd
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	Remove All
	Permissions
	🗖 Read 🗖 Write 🗖 Execute
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	Owner: infouser Change Owner
	OK Cancel Help
tep-4 This is ne	vly created Folder
-	

no

📁 Transformation 🛛 -

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Importing Source and Target Table

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

Scart Informatic 🛐 Outlook Express			
Remote Assistance			🔣 Custom Metadata Configurator
Manager 7-Zip	+		🍘 Install Comparison Utility
PowerCenter W	1 +		PowerCenter Designer
Manager Oracle EPM System	→	l	PowerCenter Mapping Architect for Visio
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All Programs 👌 🥹 Mozilla Firefox	ன Client 🕨	🛅 Developer Client 🔹 🕨	🥨 PowerCenter Workflow Manager
 2 Log C	off 🚺 Sh <u>u</u> t Down	💼 PowerCenter Client 🔸	🔕 PowerCenter Workflow Monitor
Edg C		💽 Uninstaller	
🎒 Start 📗 🚱 🎱 📗			1

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

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<u>Repository</u> Edit View Tools Versioning
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Configure Domains

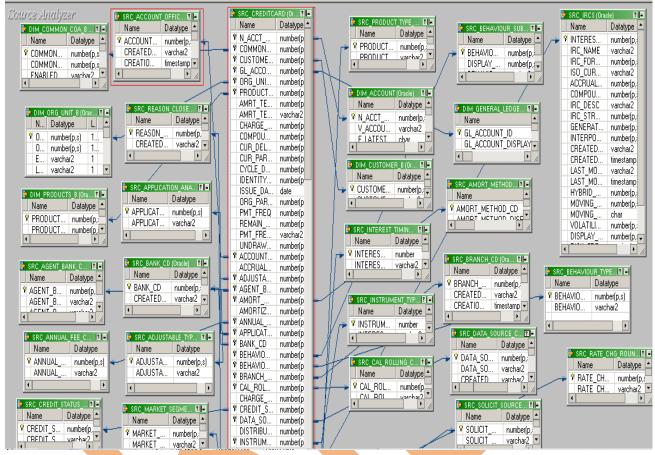
Step-3 Go to Tools Menu and click on Source Analyzer to import source table. And then go to Sources Menu in Informatica Power Center Designer.

D Informatica PowerCen	ter Designer - [Mapping Designer - bi
8 Repository Edit View	Tools Layout Versioning Mappings
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Repositories	Mapplet Designer
E 🔬 infoReposUser	Mapping Designer
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	Designer
	Workflow Manager
	Workflow Monitor
	🔄 Queries
	User-Defined Functions
	Options
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😝 Repositories 🖃 👩 infoReposUser	
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Business Components	
E Sources	
Step-4 And then select Source menu and select	Import from database.
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www.bispsolutions.com www.hyperionguru.	com www.bisptrainings.com Page 11

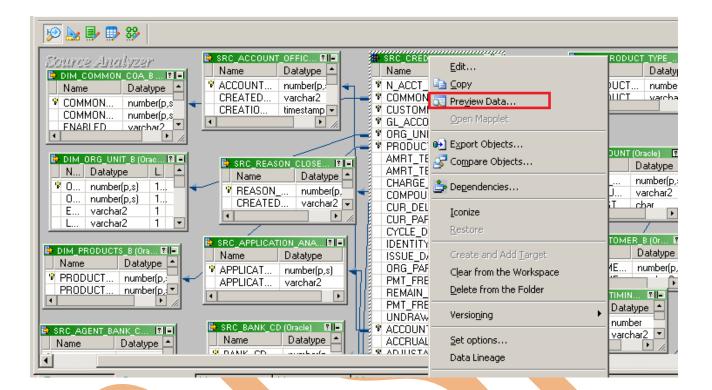
Step-5 Specify Username, Owner name, password and then connect. Then select source table and click OK

Import Tables	×
Connect to Database	к
ODBC data source: bispDataSource (Oracle in OraDb11g_home1) 💌	
Username: SRC_CREDITCARD	
	elp
Password: *******	
Select tables	
TABLES Show owners:	
DIM_ACCOUNT	
DIM_COMMON_COA_B DIM_CUSTOMER_B Search for tables named:	
DIM_ORG_UNIT_B	
DIM_PRODUCTS_B	
SRC_ADJUSTABLE_TYPE_MLS_CD	
SRC_AGENT_BANK_CD Select none	
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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.

O <u>D</u> BC data sou	urce:	bispDatas	5ource (Oracle i	n OraDb11g_ho	me1) 🔻		ose
Username:		-	EDITCARD				elp
	• i	-			- 👮 .		
O <u>w</u> ner name:		SRC_CR	EDITCARD				
Password:	- r	******	*		Re-connec		
Table name:	Ì	SRC_CR	EDITCARD (bisp	DataSource)	-		
N_ACCT	COM	MON	CUSTOME	GL_ACCO	ORG_UNI	PRODUCT	AMRT
1	70	0000	123	401205	10	9876	
2	70	0000	1234	834003	500	410	
3	70	0000	124	846131	802	411	
4	70	0000	12345	27121	803	103	
5	70	0000	12346	820111	1001	100	
6	70	0000	123	110401	1100	102	
7	70	0000	1234	21009	1200	202	
8	70	0000	124	635305	1250	505	
9	70	0000	12345	330590	1300	507	
10	70	0000	12346	834004	1350	6001	
11	70	0000	123	111002	1500	6002	
12	70	0000	1234	511302	1500	6003	
13	70	0000	124	401205	1500	9876	
14	70	0000	12345	834003	1500	410	
	/0	0000	12545	034003	1300	410	

Step-8 Now click on Target Designer.

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

D Informatica PowerCenter Designer - [Target De	signer - bispInfo - [infoReposUser]]
📐 Repository Edit View Tools Layout Versioning	Targets Window Help
🗣 🔩 🛤 🥟 bispInfo - [infoReposUser]	E Import from Database
	Import from <u>File</u>
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Step-10 Specify Username, Owner name, password and then click on connect and then select table and then OK.

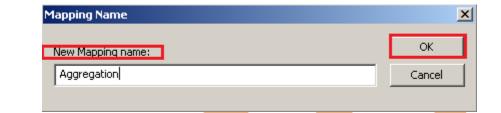
Import	ect to Database		×
Use Ow Pas − Selec ⊟∽,	C data source: bispDataSource (Oracl rname trg_transformation ner name: TRG_TRANSFORMATI sword: ******* t tables TRG_TRANSFORMATION TABLES		OK Cancel <u>H</u> elp
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Step-11 To view data select table and Right click on that table after that specify Username and Password and connect it. Then Close it.

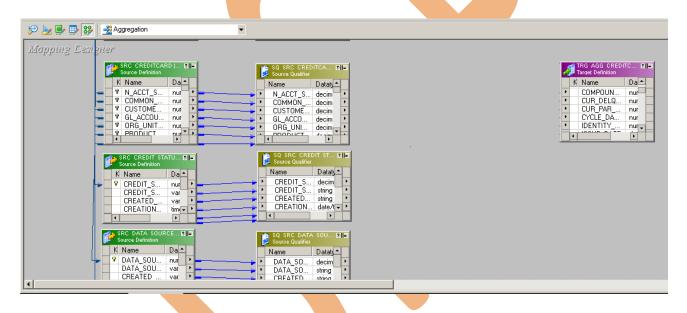
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	<u>P</u> assword: <u>T</u> able name:	TRG_AG	* G_CREDITCARE)	Re-connec		
	N_ACCT	COMMON	CUSTOME	GL_ACCO	ORG_UNI	PRODUCT	AMRT

CREATE MAPPING AND AGGREGATION

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

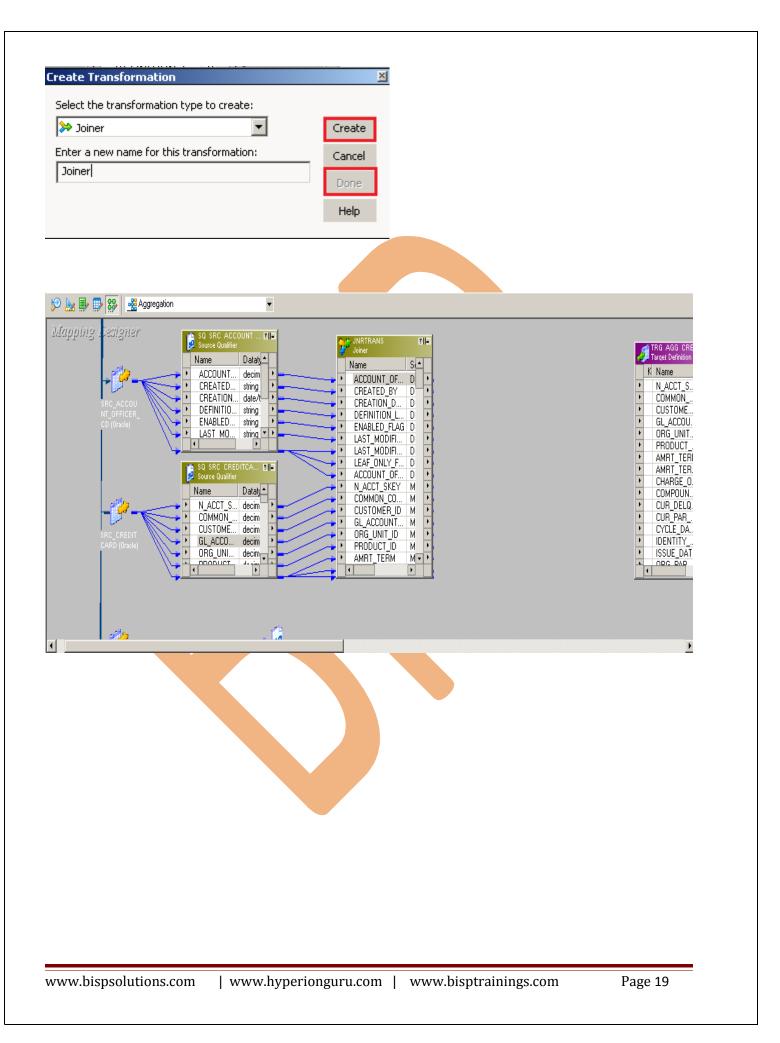


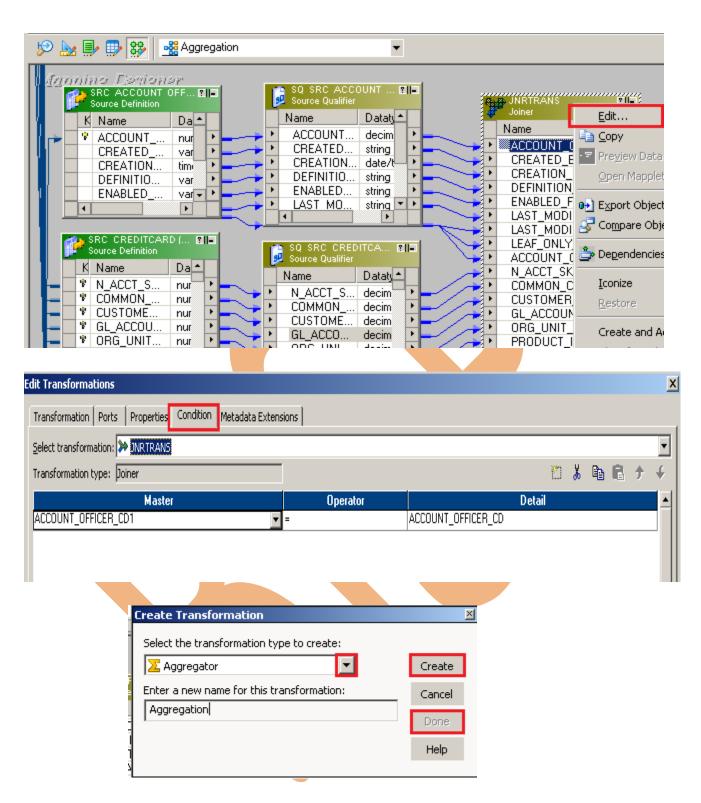
Step-2 Then drag and drop source and target data in Mapping Designer.



Step-3 Then create transformation, Click on Transformation menu and click on Create. Then select transformation and Name of transformation and click Create and then Done.

D Informatica PowerCenter Designer - [Ma	apping Designer - T	ransformation -	[infoReposUser]]
😵 Repository Edit View Tools Layout Ve	ersio <u>n</u> ing <u>M</u> appings	Tr <u>a</u> nsformation	<u>W</u> indow <u>H</u> elp
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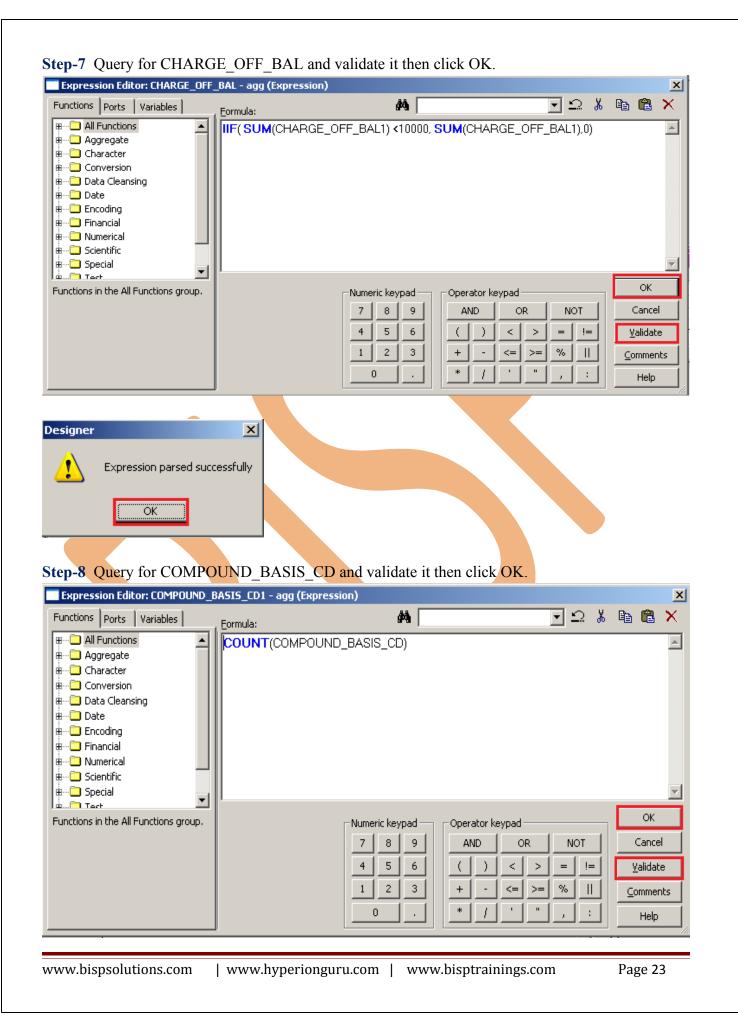


Step-4 Then drag and drop all column in Aggregation Transformation table. then right click on aggregation transformation table and select edit, then go to ports tab and write aggregation query in Expression Editor.

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Mapping Sal SRC ACCOUNT Life Name Addots Name Name ACCOUNT Name Name Name ACCOUNT ACCOUNT	ADD Control E Intervention UNT_OF Al TED_BY_CI N_ACCT_S TION_D COMMON TION_D COSTORE UNT_OF Al MODIFI COSTORE MODIFI PRODUCT MODIFI AMRT_TERN. ONLY_F IE UNT_OF Al ONLY_F AMRT_TERN. ONLY_F AMRT_TERN. ONLY_F COMPOUN CT_SKEY_N COMPOUN COUNT CUR_PAR CCUNT CUR_PAR CCUNT V DONER_ID_CO V CUNT_D_D V UNT_ID_N V
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Step-5 Go to Ports tab and write Aggregation Query.	x
Transformation Ports Properties Metadata Extensions	
Select transformation type: Aggregator Description:	Rename

Step-6 Select Column and in Expression Editor, Write query.

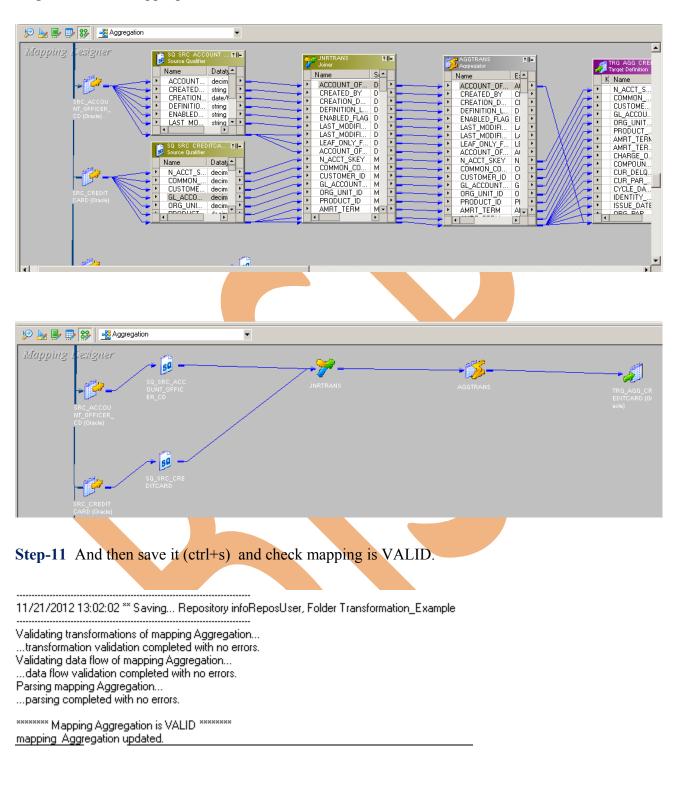
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CREATION_DATE	date/time	29	9	₽	N	Ē	CREATION_DATE	
DEFINITION_LANGUAGE	string	4	0	ন		Ē	DEFINITION_LANGUAGE	
ENABLED_FLAG	string	1	0	2	V	Í	ENABLED_FLAG	
LAST_MODIFIED_BY	string	30	0				LAST_MODIFIED_BY	
LAST_MODIFIED_DATE	date/time	29	9	V	R		LAST_MODIFIED_DATE	
LEAF_ONLY_FLAG	string	1	0	•	P		LEAF_ONLY_FLAG	
ACCOUNT_OFFICER_DISPLAY_CD	string	10	0				ACCOUNT_OFFICER_DISPLAY_CD	
N_ACCT_SKEY	decimal	14	0				N_ACCT_SKEY	
COMMON_COA_ID	decimal	14	0				COMMON_COA_ID	
CUSTOMER_ID	decimal	14	0	9	V		CUSTOMER_ID	
GL_ACCOUNT_ID	decimal	14	0		N		GL_ACCOUNT_ID	
ORG_UNIT_ID	decimal	14	0				ORG_UNIT_ID	
PRODUCT_ID	decimal	14	0		$\mathbf{\nabla}$		PRODUCT_ID	
AMRT_TERM	decimal	14	0		P		AMRT_TERM	
AMRT_TERM_MULT	string	20	0				AMRT_TERM_MULT	
CHARGE_OFF_BAL	decimal	14	0	$\mathbf{\nabla}$				
CHARGE_OFF_BAL1	decimal	14	0		$\mathbf{\nabla}$		IIF(SUM(CHARGE_OFF_BAL) <1000	
COMPOUND BASIS CD	decimal	14	0					





Step-9 Query for N_AVG_BAL_MTD and validate it then click OK.

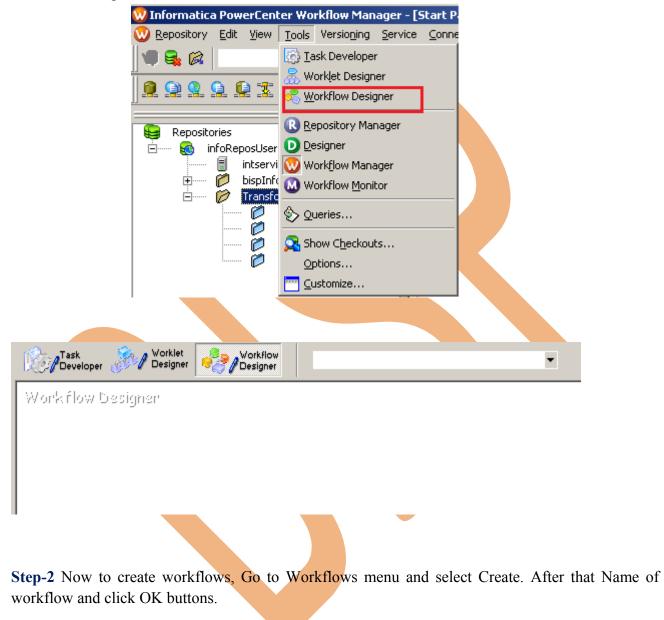
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Step-10 Create Mapping.

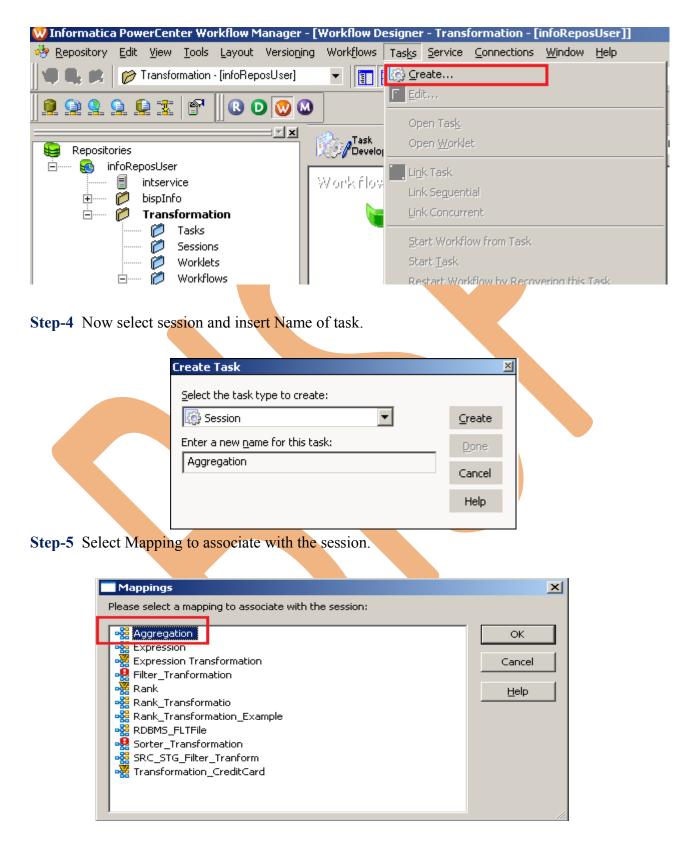
CREATE WORKFLOW

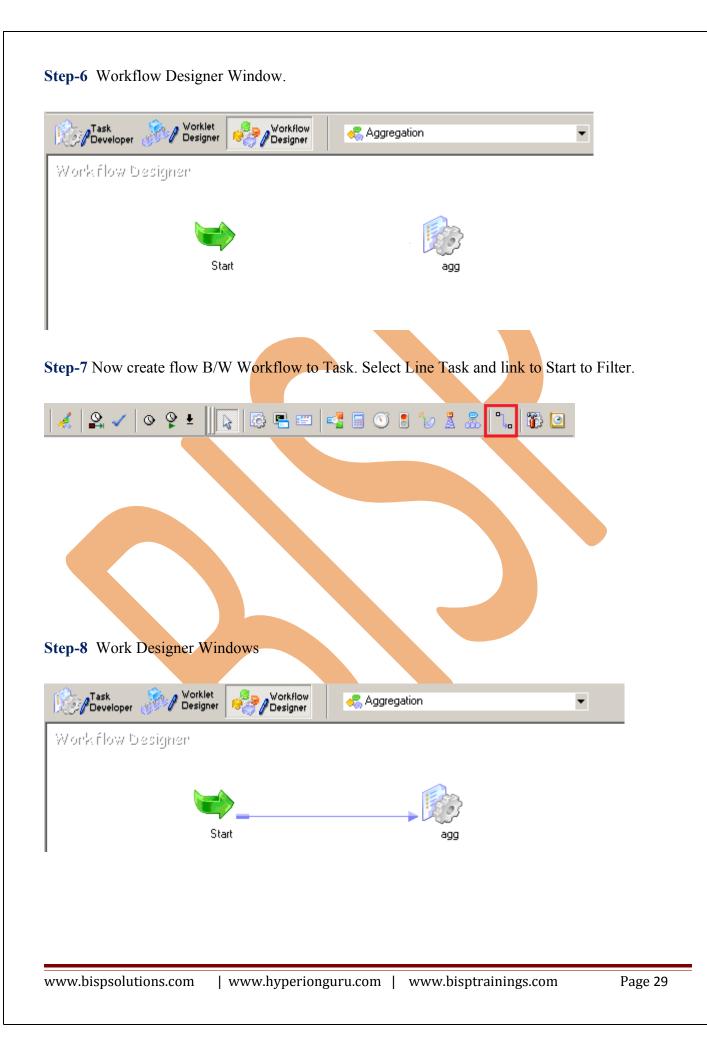
Step-1 Now go to Informatica Power Center Workflow Manager, and go to Tools menu and select Workflow Designer.



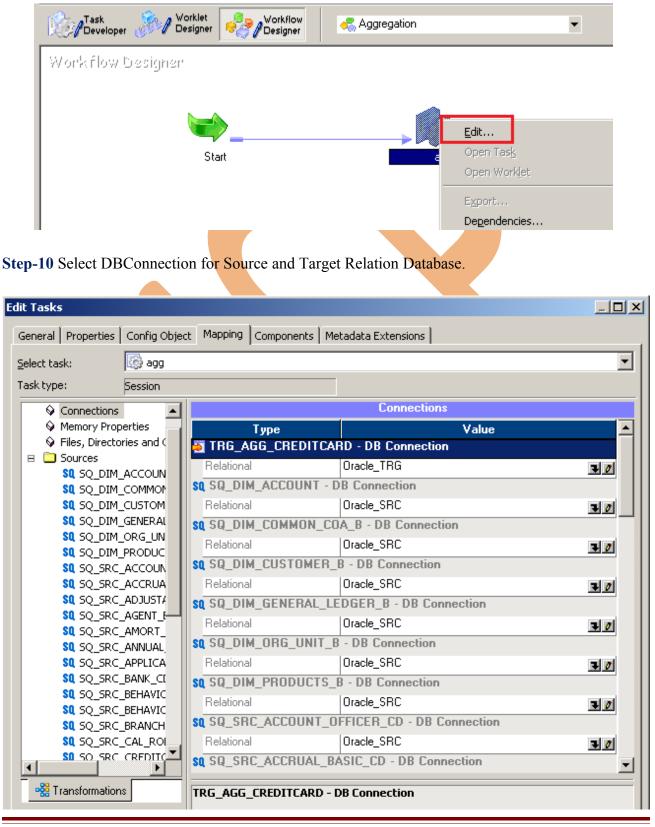
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	intservice	Recover Workflow	
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<u>C</u> omments:			<u>^</u>
			-
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Service: Suspension	-	Ť	_
email:			_
Runtime		Suspend on error	
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Concurrent	Enabled Configure Concurre	ent Execution	
Load Balan Service			
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/orkflow	Designer		
	Start		

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





Step-9 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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I	Properties	Show Session Level Properties	
	Attribute	Value	
,	Update as Insert		1_
圴	Update else Insert		
	Delete		
	Truncate target table option		-
			<u> </u>

TRG_AGG_CREDITCARD - Relational Writer

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

11/21/2012 13:23:25 ** Saving... Repository infoReposUser, Folder Transformation_Example

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

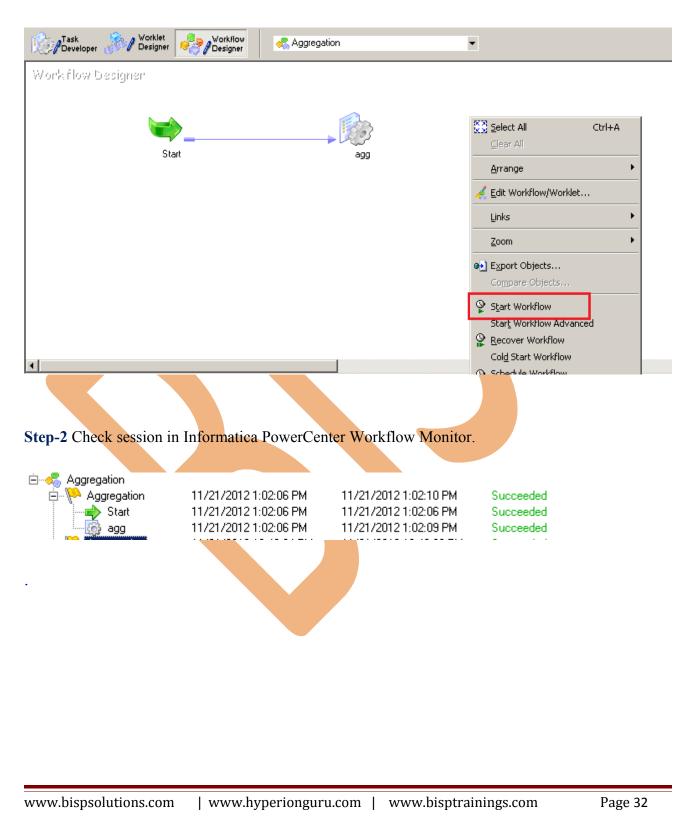
Validating tasks of Workflow Aggregation... ...Workflow Aggregation tasks validation completed with no errors.

******* Workflow Aggregation is VALID ********

Workflow Aggregation updated.

WORKFLOW MONITOR AND VIEW TARGET DATA

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



Step-3 Now view data in Target RDBMS (Oracle 11g)

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Iolumns	Data	a Constraints Grants Statistics Column Statistics Triggers Dependencies Details Partitions Indexes SQL														
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20	D1	103	78	89	40	803		132	0	1100	1100	8	2	1	556	75
30	D1	100	67	69	50	10		5464	1	1000	1001	9	4	0	563	39
40	D1	410	55	81	20	500		1532	2	1100	1100	4	4	1	531	10
50	D1	9876	53	21	10	10		544	1	1578	1001	2	2	0	522	23