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ODI11g CASE STUDY BUILDING FINANCIAL DATA MODEL

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 ODI11G case study for financial data model Hans-on Guide. <u>The document briefs you practical approach to build financial data model using multiple data source.</u> There are 100s of case studies are available in our blog/site for free access for learners. Join our professional training program to learn from the experts.

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1. :Introduction-

Source Model :- This is Source Data Model.



Target Model :- This is Target Data Model

	TRG CREDITCARD
	ID NUMBER
	COMMON COA ID
	CUSTOMER ID
	ODC INTT TO
	PRODUCT ID
	AMRT TERM
	AMRT TERM MULT
	CHARGE OFF BAL
	CUMPOUND BASIS CD
	CUR DEDQ BAL
	CYCLE DAY OF MONTH
	IDENTITY CODE
d .	ISSUE DATE
	ORG PAR BAL
	PMT FREQ DENATH NO DETC C
	DMT RDRO MILLT
	UNDRAWN AMT
	ACCOUNT OFFICER CD
	ACCRUAL BASIS CD
	ADJUSTABLE TYPE CD
	AGENT BANK CD
	AMORI MEIN PUFC CU AMOT TYDE CD
	ANNUAL FEE CD
	APPLICATION ANALYST CD
	BANK CD
	BEHAVIOUR SUB TYPE CD
	BEHAVIOUR TYPE CD
	HOLTDAY BOLLING CONVENTION CD
	CHARGE OFF REASON CD
	CREDIT STATUS CD
	DATA SOURCE CD
	DISTRIBUTION CHANNEL CD
	INSTRUMENT TYPE CD
	INTEREST RATE CD
	T RATE INT RATE CD
	MARKET SEGMENT CD
	PRODUCT TYPE CD
	RAIN CHO RND CD DRAGOM CLOGRD CD
	SOLICIT SOURCE CD
d	ACCOUNT CLOSE DATE
d	MATURITY DATE
	ORIGINATION DATE
9	CHARGE OFF DATE
	FIRST ACTIVATED DATE
	CREDIT SCORE DATE
d .	FEE CHARGE DATE
	LAST ACTIVE DATE
	LAST PAYMENT DATE
	LAST REJECTED DATE
	LAST TRANSACTION DATE
а.	LAST STATUS CHANGE DATE
d l	LAST CR LINE CHANGE DATE
d	MEMBERSHIP ANNIV DATE
	NEXT PAYMENT DATE NEXT DEDDICE DATE
	NEAL REPRICE DATE
á.	TRANSFER BAL DATE
d	AS OF DATE
n	DEL CUR DAYS
	DISPUTED TRANSFER BAL
	ORG BOUK BAL Ammiai, Acct FFF
	AVG BOOK BAL
	DEDAUTOR CORE

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2. Setting up Data server, Physical & Logical schema in ODI 11g:-

2.1 Create Data server, Physical & Logical Schema for Source FlatFile :-

Step: 1 If not connected, connect to the Work Repository. Click on ODI Menu and then click connect, select work repository in Login Name and enter password and then ok.

	4.4	🔩 Oracle Da	ata Integrator Login			×
Oracle Data Integrator	11g	Login Name	Work_Repo	- +	1	×
<u>File E</u> dit <u>V</u> iew <u>S</u> earch <u>O</u> DI	<u>T</u> ools <u>W</u> indow	User:	SUPERVISOR			
🔮 🗁 🗐 🗿 🕺 🔲 📲	<u>n C</u> onnect	Password:	•••••			
🔠 🖉 Topology	<u>D</u> isconnect		OK Cancel		Help	

Step: 2 Click Topology navigator. In Topology navigator, click the Physical Architecture tab, select Technologies -> Microsoft SQL Server -> Right-click -> select New Data Server.

Consigner 🛛 🌆 Topolo	yy 📃 💶	
ଜ୍ୟ	1 11 -	
V Physical Architecture	_	
🕀 🔰 Jython	^	
🗄 📴 LDAP		
😟 🦳 Microsoft Access	s	
🗄 🕞 Microsoft Excel		
😥 🕞 Microsoft SQL S	0	
H MySOL	<u>O</u> pen	
	⊻iew	
	😭 New	
	Duralizata Calastian	
	Duplicate Selection	
Operating System	💢 Delete	Delete
🕀 🔰 Oracle	🔿 New Data Server	
🗄 📑 Oracle BAM	New Data <u>perver</u>	
🗄 🕞 Oracle BI	Datatypes Reverse-engineering	
🗄 🦳 Paradox		
🗄 🦳 PostareSOL	Import	→
	<u>E</u> xport	
: - <u>-</u>		

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Step: 3 In Definition tab specify the Name for the Data Server and go to JDBC tab.

DBC Properties Data Sources Technology: Version Server (Data Server): Privileges Server (Data Server): FlexFields Connection User: SRC_CreditCard Password: Information JNDI Connection Array Fetch Size: Array Fetch Size: 30 Batch Update Size: 30 c.credit_card Batch Update Size: Connection Array Fetch Size: accord DBC Driver and JDBC Url by selecting browse button. Then click on The nection. c.credit_card DBC Driver weblogic.jdbc.sqlserver.SQLServerDriver serties JDBC Url: idbc:weblogic.iglserver://localhost:1433 a Sources Sonrestion siges Siges siges Sources siges Information		Data Server	
Projecteds Data Sources Technology: Microsoft SQL Server Privileges Server (Data Server): FlexFields Connection User: SRC_CreditCard Password: INDI Connection Array Fetch Size: 30 Batch Update Size: 30 st 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. c.credit_card Connection st 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. c.credit_card Connection st 5 Test Connection. firmation Information	JDBC Preparties	Jana Server	eve evedit eard
Version Privileges FlexFields Connection User: SRC_CreditCard Password:	Propercies Data Sources		
Privileges FlexFields	Version	lechnology:	Microsoft SQL Server
FlexFields Connection User: SRC_CreditCard Password: Immedia JNDI Connection Array Fetch Size: Array Fetch Size: 30 Batch Update Size: 24 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. redit_card	Privileges	Server (Data Server):	
Luser: SRC_CreditCard Password: ••••••• JNDI Connection Array Fetch Size: 30 Batch Update Size: 30 : 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. _credit_card _credit_card _connection nition 	FlexFields	Connection	
Password: Password: Array Fetch Size: 30 Batch Update Size: 30 c. 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. c_credit_card Connection nition DBC Driver: weblogic.jdbc.sqlserver.SQLServerDriver DBC Url: jdbc:weblogic:sqlserver://localhost:1433 a Sources ion ileges Fields c. 5 Test Connection.		User: SRC_(CreditCard
INDI Connection Array Fetch Size: 30 Batch Update Size: 30 c4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. c_credit_card Connection nition DBC Driver weblogic.jdbc.sqlserver.SQLServerDriver c DBC Url: jdbc:weblogic:sqlserver://localhost:1433 a Sources ion leges Fields c: 5 Test Connection.		Password:	•••
Array Fetch Size: 30 Batch Update Size: 30 p: 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. c_credit_card Connection inition DBC Driver: weblogic.jdbc.sqlserver.SQLServerDriver To DBC Url: jdbc:weblogic:sqlserver://localhost:1433 a Sources ion lleges Fields p: 5 Test Connection.		JNDI Connectio	n
e: 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on T nection. :_credit_card Connection nition IDBC Driver: weblogic.jdbc.sqlserver.SQLServerDriver He JDBC Url: jdbc:weblogic:sqlserver://localhost:1433 a Sources ion leges Fields : 5 Test Connection. Information Information		Array Fetch Size: 30	Batch Update Size: 30
c DBC Driver Weblogic: Jubc. SqlSer ver: JQC Ser ver Driver erties JDBC Url: jdbc:weblogic:sqlServer://localhost:1433 Sources ion eges Fields firmation Information	_credit_card	Driver weblagis idea calco	ruer SOI ServerDriver
nfirmation Information	erties JDBC	Url: jdbc:weblogic:sqlse	rver://localhost:1433
nfirmation Information	ion eges Fields	mation	
	ion eges Fields : 5 Test Cor	nnection.	
Your data will be saved before testing connection. Do you want to continue? OK Cancel	ion eges Fields 5 Test Cor	nnection.	Information

Kentric Strate Test Connection for: src_trans_dat 🔀	Information	
Select a Physical Agent to test this Connection Physical Agent: Local (No Agent)	Successful Connection	
Test Detail Cancel		OK

Step: 6 Now in Topology navigator, click the Physical Architecture tab, select Technologies -> Microsoft SQL Server->.Right-click on src_credit_card and then select New Physical Schema.

6	🖕 Designer 🛛 🖉 Ta	opology 🔣	_		
Į.	<u>30</u>		<u>-</u>		
~	Physical Architecture	e			
	i Jython		~		
	🕀 🖳 🦲 LDAP				
	🗈 🕞 Microsoft A	Access			
	🗄 🖳 📔 Microsoft E	ixcel			
	🖨 🦳 Microsoft S	iQL Server			
	∎ <mark>`</mark> src_cre	Open			
	🖽 🛄 Datati	View			
		🔰 Ne <u>w</u>			
	🗊 🧻 NetRexx	Duplicate Sele	ction -		
	🕀 🕞 Netezza	X Delete	D	·elete	
	🗈 🖓 🔂 ODI Tools	📑 New Phy <u>s</u> ical S	5chema		
	🗄 🖳 🧊 Operating	Import		•	
	🗈 🖳 🔁 Oracle	Export		ŕ	
I	🕴 🗄 🖳 🚺 Oracle BAN	Eventuri			

Step: 7 For the Database (Catalog), Owner (Schema) And Database (Work Catalog), Owner (Work Schema) fields, enter the path to the directory where your source data base). Select the Default check box and click Yes in the Confirmation window, and then click the Save button (). Close the editing window for your new physical schema. On the Information window that follows, click ok. Close the editing tab.

on	Physical Schema [Data Server: src_credit_card]
	Name: src_credit_card.SRC_CreditCard.dbo
s la	Database (Catalog): SRC_CreditCard 👻
5	Owner (Schema):
	Database (Work Catalog): SRC_CreditCard 🗸
	Owner (Work Schema): dbo 💌
	V Default
	Work Tables Prefix
	Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_
	Journalizing elements prefixes
	Datastores:]\$ Views:]V\$ Triggers: T\$
	🖃 Naming Rules
	Local Object Mask: %CATALOG.%SCHEMA.%OBJECT
	Remote Object Mask: %DSERVER.%CATALOG.%SCHEMA.%OBJECT
	Partition Mask:
	Sub-Partition Mask:
	Local sequence mask:
	Remote sequence mask:
	Information
	No context specified for this schema. Please specify the appropriate context to be able to use this schema in the Designer module.
	OK

Step: 8 Open Logical Architecture, Navigate to Technologies -> Microsoft SQL Server -> Right-c Microsoft SQL Server, and select New Logical Schema.

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Consigner 🛛 🌆 Topol	ogy 🔣 💶	
Physical Architecture		
Contexts	🖉 🕶 🛛	
🗢 Logical Architecture	1	
JavaScript Jython Jore Content Jore Cont	55	
Microsoft SQ MySQL MwsQL MwsQL	<u>O</u> pen <u>V</u> iew	
Inducesca Inducesca) Ne <u>w</u> Duplicate Selection C Delete	Delete
⊕ Oracle ⊕ 🕞 Oracle BAM	new Logical <u>S</u> chema	
🕀 🕞 Oracle BI	Datatypes <u>R</u> everse-engineering	
Paradox PostgreSQL Progress	Import Export	•

Step: 9 Enter the Logical Schema name: SRC_CreditCard and select the Physical schema (src_credit_card.SRC_CreditCard.dbo) in context as shown here. Click Save) and close the editing Window.

🗟 SRC_Crea	ditCard		
Definition Privileges FlexFields	Logical Schema		
	Context Global	Physic src_cri	al Schemas edit_card.SRC_CreditCard.dbo
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2.3 Create Data server, Physical & Logical Schema Target Database :-

Step: 1 You must create a schema to host the ODI target Datastore. To create a new Oracle schema for the ODI Datastore, perform the following steps

Open the Oracle 11g SQL Plus window .You will create the schema by executing the following SQL commands:

create user <<u>MY_SCHEMA NAME</u>> identified by <<u>MY_PASSWORD</u>>; grant dba,connect,resource to <<u>MY_SCHEMA NAME</u>>;

Step: 2 In ODI, Click Topology navigator. In Topology navigator, click the Physical Architecture tab, select Technologies > Oracle. Right-click and then select New Data Server.



Step: 3 In Definition tab specify the Name for the Data Server, Instance name and in Connection insert user name and password of oracle schema and go to JDBC tab.

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Tue cuedhour		
Test Connection		
Definition		
JDBC	🔵 Data Server	
Properties	Name:	Trg_CreditCard
Data Sources	Technology:	Oracle 👻
version Privileges	Instance / dblink (Data Server):	orcl
FlexFields	Connection	
	User: TRG_CREDITCA	RD
	Password America	
	Away Estab Sizes 20	Datability data Gina 20
	Array Fetch Size: 50	
Step: 4 Spec Connection.	rify the JDBC Driver and	d JDBC Url by selecting browse button. Then click on Test
Trg_CreditCard		
Test Connection		
Definition		
JDBC	JDBC Driver: oracle.jdbc.OracleDr	iver 💊
Properties	JDBC Url: jdbc:oracle:thin:@lo	calhost:1521:orcl
Data Sources		
Version		
Privileges		
FlexFleids		
Step: 5 Test	Connection.	
Confirmation Your da	ata will be saved before testing conne	ction.
Do you	want to continue?	Server
	OK Cancel	ОК

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Kest Connection for: src_trans_dat 🔀	Information	X
Select a Physical Agent to test this Connection Physical Agent: Local (No Agent)	Successful Connection	
Test Detail Cancel		ОК

Step: 6 Now in Topology navigator, click the Physical Architecture tab, select Technologies >Oracle. Right-click, TRG_CreditCard and then select New Physical Schema.

Designer 🛛 💆 Topology			
ı M	<u>í í í í í í í í í í í í í í í í í í í </u>		
Physical Architecture			
😟 🕞 MySQL	^		
🗈 🦳 NetRexx			
표 🥛 Netezza			
🗈 🦳 ODI Tools			
🗄 📋 Operating System			
🖃 🖳 🚺 Oracle			
	Open		
Build Datatypes	<u>V</u> iew		
	Now.		
E GOracle BAM	Duplicate Selection	n.	
🎚 🥛 Oracle BI 🛛 💊	Palete	Delete	
🕀 🕞 Paradox 🛛 🧧		Neiere	
🕀 🕞 PostgreSQL 🛛 📮	🖌 New Phy <u>s</u> ical Sche	ema	
🗄 📔 Progress	Import	•	
🕀 🖳 🔁 SAP ABAP	Export		
🗄 🖻 🔤 SAP Tava Copplem			1

Step: 7 For the Directory (Schema) and Directory (Work Schema) fields, select schema name (Where load target data). Select the Default check box and click Yes in the Confirmation window, and then click the Save button (). Close the editing window for your new physical schema. On the Information window that follows, click ok. Close the editing tab.

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ontext	🚏 Physical Schema [Data	a Server: Trg_CreditCard]
ersion	Name:	g_CreditCard.TRG_CREDITCARD
rivileges exFields	Schema (Schema):	G_CREDITCARD
	Schema (Work Schema): TR	G_CREDITCARD
	🗹 Default	
	Work Tables Prefix	
	Errors: E\$_ L	.oading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_
	Journalizing elements p	refixes
	Datastores: J\$	Views: JV\$ Triggers: T\$
	🗆 Naming Rules	
	Local Object Mask:	%5CHEMA.%OBJECT
	Remote Object Mask:	%SCHEMA.%OBJECT@%DSERVER
	Partition Mask:	%SCHEMA.%OBJECT PARTITION(%PARTITION)
	Sub-Partition Mask:	%SCHEMA.%OBJECT SUBPARTITION(%PARTITION)
	Local sequence mask:	%SCHEMA.%OBJECT.nextval
	Remote sequence mask:	%SCHEMA.%OBJECT.nextval@%DSERVER
	Information	
	(No context specified for this schema. Please specify the appropriate context to be able to use this schema

Step: 8 Open Logical Architecture, navigate to Technologies > Oracle, right-click Oracle, and select New Logical Schema.

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🔓 Designer 🛛 🚺	Topology 🔣 💷	
<u>ല</u>	<u> </u>	
Physical Archited	ture	
Contexts	🖉 🕶 I	
▽ Logical Architect	ure	
	a 🔨 🔨	
🗈 🕛 Operat	ing System	
⊞… <mark>⊡</mark> Ora	Open	
	⊻iew	
🗄 🗍 Par 🚺	Ne <u>w</u>	
E Pos	Duplicate Selection	
	<u>D</u> elete	Delete
E SA	New Logical <u>S</u> chema	
⊡ SAS	Datatypes <u>R</u> everse-engineeri	ng
⊞ i Syb	Import	•
🚊 🕀 🕞 Syb	Export	

Step: 9 Enter the Logical Schema name: SRC_CreditCard and select the Physical schema (<u>TRG_CreditCard. TRG_CreditCard</u>) in all three contexts as shown here. Click Save :) and close the editing Window.

👼 Trg_Credi	tCard	
Definition Privileges FlexFields	Image: Name: Trg_CreditCard	
	Context Global	Physical Schemas Trg_CreditCard.TRG_CREDITCARD

3. Organizing Model for Source and Target.

3.1 Creating Model Folder :-

Step: 1 Click on Designer Navigator, select Model tab and Click on to Create New Model Folder then select New Model Folder.



3.2 Creating Model for Source (MS SQL Server 2005) :-

	🚈 Topology 🛛 🖃 🕞
କ୍ରେ	
Projects	📲 👻 📔
✓ Models	≧ • 1
	Open <u>V</u> jew New Duplicate Selection Delete New Model Folder New Model
	Import Edit Memo Print Version

Step: 1 In Model tab. Select CreditCard, right click on Credit_Card and select New Model.

Step: 2 In Definition, Specify name of model, Select Technology-Microsoft SQL Server and Logical Schema-SRC_CreditCard in Drop Down list. And then click on Reverse Engineer tab.

GRC_CreditCard			
1			
Definition Reverse Engineer	🛅 Model		
Selective Reverse-Engineering	Name:	SRC_CreditCard	
Control	Code:	SRC_CREDITCARD	
Journalizing			
Journalized Tables	Technology:	Microsoft SQL Server	•
Markers	Logical Schema:	SRC_CreditCard	•
Services			
Memo	Action Group:		•
Version	Default Folder:		Q,
Privileges		Display the Metadata changes in the Model tree	
FlexFields	Description:		

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Step: 3 In Reverse Engineer tab, check standard reverse engineering, and in context select context and the save 🕞 it.

GSRC_CreditCard		
Definition		
Reverse Engineer		
Selective Reverse-Engineering	Context: Global	•
Control	Logical Agent: Local (No Agent)	
Journalizing		
Journalized Tables	Types of objects to reverse-engineer	
Markers	🔽 Table 📃 View 📃 Queue 📃 Sy	stem Table 📃 Table Alias 📃 Synonym
Services	84 Lu	
Memo	Mask: 70	
Version	Characters to Remove from Table Alias:	
Privileges	Table Alias maximum length: 35	
FlexFields		

3.4 Creating Model for Target (Oracle) :-

Step: 1 In Model tab. Select CreditCard, right click on CreditCard and select New Model.



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Step: 2 In Definition, Specify Name - TRG_CreditCard , Select Technology - Oracle and Logical Schema-TRG_CreditCard in Drop Down list. And then click on Reverse Engineer tab.

TRG_CreditCard			
Definition	2		
Reverse Engineer	i Model		
Selective Reverse-Engineering	Name:	TRG_CreditCard	
Control	Code:	TRG_CREDITCARD	
Journalizing			
Journalized Tables	Technology:	Oracle	▼
Markers	Logical Schema:	Trg_CreditCard	•
Services	Action Group:		
Memo	Action Group.		
Version	Default Folder:		Q,
Privileges		Display the Meta	data changes in the Model tree
FlexFields	Description:		
Ston: 3 In Reverse Engi	neer tab chec	k standard rev	erse engineering, and in context select context and
Step. 5 in Reverse Elign	licer tab, elice	K Standard Tev	erse engineering, and in context select context and
the save 🛄 it.			
TRG CreditCard			
·······			
57 57			
Definition	Standard	Customized	
Reverse Engineer	Contractor of		
Selective Reverse-Engineering	Context:	odal	•
Control	Logical Agent: Lo	ical (No Agent)	▼
Journalizing	Types of object	ts to reverse-endin	807
Journalized Tables	Types of object	ts to referse engin	
Markers	🗹 Table 📃	View Queue	System Table Table Alias Synonym
Services	Mask:		%
Memo			
Version	Characters to Rem	iove from Table Allas:	
Dub dia ana a			
Privileges	Table Alias maximu	ım length:	35
Privileges FlexFields	Table Alias maximu	ım length:	35
Privileges FlexFields	Table Alias maximu	ım length:	35
Privileges FlexFields	Table Alias maximu	ım length:	35
Privileges FlexFields	Table Alias maximu	ım length:	35

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4. Organizing Project & Import Knowledge Module. 4.1 Creating Project. Step: 1 In Designer Navigator, Click on Project and select New Project. M Topology 6 Designer 6 F Projects Models New Project 🜃 Import Project... > Others 嘴 Version Browser Solutions Step: 2 Specify Name-CreditCard of Project and save 🖬 it. 🔓 Credit Card Definition 🔓 Project Markers CreditCard Memo Name: Version CREDITCARD Code: Privileges FlexFields www.bispsolutions.com www.hyperionguru.com www.bisptrainings.com

4.2 Import Knowledge Module.

Step: 1 In Project tab, click on CreditCard Project and right click on Knowledge Modules.



Step: 2 In list of knowledge module select knowledge module (multiple selection use ctrl key or shift key) and then OK.

Import Type:	Duplication
File import directory:	Middleware\Oracle_ODI1\oracledi\xml-reference
Select the file(s) to im	port:
CKM Netezza CKM Oracle CKM SQL CKM Sybase IQ CKM Teradata IKM Access Incremen IKM DB2 400 Increme IKM DB2 400 Increme	tal Update Intal Update Intal Update (CPYF) Changing Dimension

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5. Creating ODI Source data store.

5.1 Creating ODI Source Table.

Step: 1 In Designer Navigator, click on model tab and right click on SRC_CreditCard and select Reverse Engineer. All table extracted from Source (MS SQL Server 2005).



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Step: 2 These are extracted table from source.



Step: 3 View data. Go to Model tab and select table name i.e. - SRC_ACCOUNT_OFFICER_CD and right click then select View Data..

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62			<u>-</u>	
Projects		📑 -		
✓ Models		📬 -		
□	rd _CreditCard Used in Diagrams Hierarchy SRC_ACCOUN SRC_ACCRUA SRC_AGENT_I SRC_AMORT_I SRC_APPLICA	<u>O</u> pen <u>V</u> iew Ne <u>w</u> Duplicate <u>S</u> election Delete	Delete	
	SRC_BANK_CI == SRC_BEHAVIC SRC_BEHAVIC == SRC_BRANCH SRC_CAL_RO	Hide Data View D <u>a</u> ta		
±	SRC_CREDIT(SRC_CREDIT)	<u>C</u> ontrol Changed Data Ca <u>p</u> ture		•
±	SRC_DIM_AC	<u>G</u> enerate Interface IN Gene <u>r</u> ate Interfaces Ol	TL	
	SRC_DIM_CU: SRC_DIM_GEI SRC_DIM_OR_—	<u>I</u> mport E <u>x</u> port		
Others		Edit Memo		
Solutions		Locks		•

Step: 4 Data in SRC_ACCOUNT_OFFICER_CD

SRC_ACCOUNT_OFFICER_CD

			0 7	û 🕹	$\underline{\bullet}$	+ >	(🖯	Ø		<u>କ</u> ୍ତେ 🕹
	ACCOUNT_OFFICER_CD		CRE	ATED_B	Y				CREAT	TION_E
1	52223	USER								
2	54123	USER								
з	55123	USER								
4	55124	USER								
5	55125	USER								
6	55236	USER								
7	55326	USER								
8	55421	USER								
9	66245	USER								
	1 2 3 4 5 6 7 8 9	ACCOUNT_OFFICER_CD 1 52223 2 54123 3 55123 4 55124 5 55125 6 55236 7 55326 8 55421 9 66245	ACCOUNT_OFFICER_CD Maccount_OFFICER_CD 1 52223 USER 2 54123 USER 3 55123 USER 4 55124 USER 5 55125 USER 6 55236 USER 7 55326 USER 8 55421 USER 9 66245 USER	ACCOUNT_OFFICER_CD CRE 1 52223 USER 2 54123 USER 3 55123 USER 4 55124 USER 5 55125 USER 6 55236 USER 7 55326 USER 8 55421 USER 9 66245 USER	ACCOUNT_OFFICER_CD CREATED_B 1 52223 USER 2 54123 USER 3 55123 USER 4 55124 USER 5 55125 USER 6 55236 USER 7 55326 USER 8 55421 USER 9 66245 USER	ACCOUNT_OFFICER_CD CREATED_BY 1 52223 USER 2 54123 USER 3 55123 USER 4 55124 USER 5 55125 USER 6 55236 USER 7 55326 USER 8 55421 USER 9 66245 USER	ACCOUNT_OFFICER_CD CREATED_BY 1 52223 USER 2 54123 USER 3 55123 USER 4 55124 USER 5 55125 USER 6 55236 USER 7 55326 USER 8 55421 USER 9 66245 USER	ACCOUNT_OFFICER_CDCREATED_BYImage: CREATED_BY152223USER1254123USER13355123USER1455124USER11555125USER11655236USER11755326USER11866245USER11	ACCOUNT_OFFICER_CDCREATED_BYACCOUNT_OFFICER_CDCREATED_BY152223USER254123USER355123USER455124USER555125USER655236USER755326USER855421USER966245USER	ACCOUNT_OFFICER_CD CREATED_BY CREAT 1 52223 USER CREAT 2 54123 USER CREAT 3 55123 USER CREAT 4 55124 USER CREAT 5 55125 USER CREAT 6 55126 USER CREAT 7 55236 USER CREAT 8 654512 USER CREAT 9 66245 USER CREAT

Step: 5 Apply same process (Step:3) for all Source table to view data in ODI.

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5.3 Creating Target Table in ODI.

Step: 1 In Designer Navigator, click on model tab and right click on TRG_CreditCard Model and select New Datastore.

Carlor Ca	🚰 Topology 🛛 🔣	-	
Projects	r 🖓	•	
🗢 Models	🚞 •	•	
⊡ in	Open View New Duplicate Selection Delete New Sub-Model New Datastore Reverse Engineer Changed Data Capta Control Generate DDL Generate Interfaces Generate Service Import Export Edit Memo	Delete	
Others	Version	•	
Solutions	Print	•	

Step: 2 Specify Datastore Name-TRG_CREDITCARD, Select Datastore Type-Table, OLAP Type-Dimension then go to column tab.

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olumns	Datasto	re [Model: TRG		SUD-MOL			
ournalizing	Name:	TRG_CREDI	ITCARD		Alias:	TRG_CRE	DIT_CARD
artitions arkers	Datastore T	ype: Table		•	OLAP Type:	Dimensior	n
rvices	Resource N	ame: TRGCREDIT	_CARD				
mo	🗆 Numbe	r of Rows					
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lournalizing	Order	Name	Туре	Logical length	Scale	Not N	Iuli
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		2 COMMON_COA_ID	NUMBER		14	0	
arkers		3 CUSTOMER_ID	NUMBER		14	0	
ervices		4 GL_ACCOUNT_ID	NUMBER		14	0	
emo		5 ORG_UNIT_ID	NUMBER		14	0	
ercion		6 PRODUCT_ID	NUMBER		14	0	
		7 AMRT_TERM	NUMBER		14	0	
rivileges		8 AMRT_TERM_MULT	NUMBER		14	0	
lexFields		9 CHARGE_OFF_BAL	NUMBER		14	0	
		10 COMPOUND_BASIS	NUMBER		14	0	
		11 CUR_DELQ_BAL	NUMBER		14	0	
		12 CUR_PAR_BAL	NUMBER		14	0	
		13 CYCLE_DAY_OF_M	VARCHAR2		20	0	
		14 IDENTITY_CODE	NUMBER		14	0	
		15 ISSUE_DATE	DATE		7	0	
		16 ORG_PAR_BAL	NUMBER		14	0	
		17 PMT_FREQ	NUMBER		14	0	
		18 REMAIN_NO_PMTS_C	NUMBER		14	0	
		19 PMT_FREQ_MULT	NUMBER		14	0	
		20 UNDRAWN_AMT	NUMBER		14	0	
		21 ACCOUNT_OFFICE	NUMBER		14	0	
		22 ACCRUAL_BASIS_CD	NUMBER		14	0	
		23 ADJUSTABLE_TYPE	NUMBER		14	0	
		24 AGENT_BANK_CD	NUMBER		14	0	
		25 AMORT_METH_PDF	NUMBER		14	0	

Step: 4 These are created target data through ODI 11G.

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6. Create Mapping (Interface) for ODI to Target (Oracle).

6.1 Create Interface for mapping of data between ODI to Oracle(Target).

Step: 1 In Designer Navigator, click on project tab, click on CreditCard, click on Fist Folder then right click on Interface and select New Interface.

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⊡ <mark>fa</mark> CreditCa ⊜ fi ⊡ First ⊕ ॉॉ ⊕ ॉॉ	rd Folder Packages Interfaces		
<u>∎</u>	Procedu 🚏 Nev	v <u>I</u> nterface	
🔄 🕀 🖓 Vari	ables	_	

Step: 2 Specify Interface Name-CreditCard, select Optimization Context-Global and go to Mapping tab.

	뿸 CreditCar	d	·)
	Definition		
	Markers		
•	Memo	Name: CreditCard	
	Version	Optimization Context: Global	
	Privileges		•
	FlexFields	Caging Area Different From Target	
		Oracle: Trg_CreditCard	
		Description:	
			,
	Overview Ma	pping Quick-Edit Flow Controls Scenarios Execution	
1		0.014	

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Step: 3 . Click the Models tab to drag the source and target to the diagram. Drag the SRC_CreditCard Model Sources container and Drag the TRG_CreditCard Datastore from the TRG_CreditCard model into the Target Datastore container and then create mapping operation.

CreditCard		
🍭 🔍 100% 👻 🔀 🗐 🖳 🛛 Source Table	Target Table	(
	^ III Target Datastore - TRG_CREDITCARD	
	h Indicators Name Map	ping
3 - SRC_AMORT_METHOD_CD (SRC)	1 D_NUMBER	_
	2 COMMON_COA_ID	
AMORT METHOD DISPLAY CD CREDIT_STATUS_DISPLAY_CD SOLICIT_SOURCE_NAME	3 CUSTOMER_ID	
CREATED_BY CREATED_BY	4 GL_ACCOUNT_ID	
24 - SRC DM COMMON COA B (SF)	5 ORG_UNIT_ID	
	6 PRODUCT_ID	
	7 AMRT_TERM	
	8 AMRT_TERM_MULT	
	9 O CHARGE_OFF_BAL	
	0 COMPOUND_BASIS_CD	
	1 CUR_DELQ_BAL	
	2 CUR_PAR_BAL	
	3 CYCLE_DAY_OF_MONTH	
	.4 D IDENTITY_CODE	
THE 21 - SRC BEHAVIOUR SUB TYPE (CREATED BY CHARGE OFF BAL	.5 🕞 ISSUE_DATE	
	.6 O ORG_PAR_BAL	
	7 D PMT_FREQ	
	8 0 REMAIN_NO_PMTS_C	
	9 0 PMT_FREQ_MULT	
17 - SRC DIM PRODUCTS_B (SRC [] 16 - SRC_WIEREST_MING_TYPE_C ACCOUNT_OFFICER_CD 123 - SRC_PRODUCT_TYPE_CD (5	to 🕕 UNDRAWN_AMT	
n 'PRODUCT ID	1 ACCOUNT_OFFICER_CD	
	2 ACCRUAL_BASIS_CD	
	ADJUSTABLE_TYPE_CD	
ENABLED ELAC	AGENT_BANK_CD	
	Y IS AMORT_METH_PDFC_CD	
	te AMRT_TYPE_CD	
Detailt I		<u> </u>

Step: 4. In Mapping tab, select column and click on *button button then insert SQL Query to selected column and select Function and the click APPLY and the click OK. Then check SQL Query is correct or not to click on <i>button*

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EreditCard						AMRT_TERM_MULT - Prope	ty Inspector
🍳 🔍 100% 🔻 🔀 I 🗐 🔍 I 🔬 I 🔲	8				i	🖳 I 📌 🖹 I 🥒 🌘	Find
Le-*COMMON_COA_ID	N_ACCT_SKEY	(^	🔲 Targe	t Datastore - TRG_CREDITCARD		Mapping Properties	
MON_COA_DISPLAY_CODEn	COMMON_COA_ID	<u> </u>	n Indicati	ors Name	Mapping	Active Manpingy	
ENABLED_FLAG	CUSTOMER ID		10 4	ID NUMBER	SRC_CREDITC ^	Active Happing.	
LEAF_ONLY_FLAG	GL_ACCOUNT_ID		2 4	COMMON_COA_ID	SRC_DIM_CON	Technical Description	Business Rule
n		13 - SRC	3 4	CUSTOMER_ID	SRC_DIM_CUS	Impl	ementation
20SRC DIM CLISTOMER B (SRC ()		GL C	4 0 4	GL_ACCOUNT_ID	SRC_DIM_GEN		
	CHARGE OFF BAL	GL A	5 🕜 🍕	ORG_UNIT_ID	SRC_DIM_ORG		▼ ⁄ □
	COMPOUND BASIS CD	ENABL	6 9	PRODUCT_ID	SRC_DIM_PRC	CASE WHEN (UPPER(SR	C_CREDITCARD.v_orig_term
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LEAF_ONLY_FLAG			8 🕥 🐴	AMRT_TERM_MULT	CASE WHEN (L	V_ong_terni_unit)= N ;	THEN U ELSE NULL END
DEFINITION_LANGUAGE	REMAIN NO PMTS C	2	9 🕜 🍕	CHARGE_OFF_BAL	SRC_CREDITC		
	ACCOUNT OFFICER CD		10 🕥 🍕	COMPOUND_BASIS_CD	SRC_CREDITC		Charles
5 - SRC_AMORT_METHOD_CD (SRC		ACC	11 🕜 🧏	CUR_DELQ_BAL	SRC_CREDITC	Execute on:	Source
AMORT_METHOD_CD	ACCROAL_DASIS_CD	ACC	12 🕦 🎽	CUR_PAR_BAL	SRC_CREDITC	Source Datastore: SRC	_CREDITCARD (SRC_CREDIT
AMORT_METHOD_DISPLAY_CD	ADJUSTABLE_ITPE_CD	_	13 🕥 🧕	CYCLE_DAY_OF_MONTH	TO_NCHAR(SY	Insert:	
	AGENT_BANK_CD	4-519	14 🕜 🍕	IDENTITY_CODE	SRC_CREDITC		
	AMORI_METHOD_CD	AGE	15 🔂 🎽	ISSUE_DATE	SRC_CREDITC	Update: 🗹	
	AMORTIZATION_TYPE_CD	AGEN	16 🕥 🎽	ORG_PAR_BAL	SRC_CREDITC	Target Column Propertie	s
B-*BEHAVIOUR_SUB_TYPE_CD	ANNUAL_FEE_CD	AGEN	17 🕜 🎽	PMT_FREQ	CASE WHEN (S	Name	AMPT TEDM MULT
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	BEHAVIOUR_TYPE_CD	1 🕞 *BAN	21 0 4	ACCOUNT_OFFICER_CD	SRC_ACCOUN		-
	BRANCH_CD	CRE4	22 0 4	ACCRUAL_BASIS_CD	SRC_ACCRUAL	Scale:	0
8 - SRC_DATA_SOURCE_CD (SRC_	CAL_ROLLING_CONVENTION_CE	CRE4	23 0 4	ADJUSTABLE_TYPE_CD	SRC_CREDITC	Key:	
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			26 1	AMRT_TYPE_CD	SRC_CREDITC	···· User Defined Flags ······	
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🛼 Expression Editor

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	CASE HURN (UDDED/SEC CDEDITCADD H OFIC FORD HEILAINA THEN I HURN (UDDED/SEC CDEDITCA
ADJUSTABLE_TYPE	CASE WHEN (OFFER(SRC_CREDITCARD.V_OFFER) CHEMIC(=-1-) THEN I WHEN (OFFER(SRC_CREDITCA
AGENT_BANK_CD	
AMORTIZATION_TY	
AMORT_METHOD_C	
ANNUAL_FEE_CD	
APPLICATION_ANA	
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ODI Infor	mation 🔀
	SQL Expression is correct for this DBMS
	ОК

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Step: 5 Return to Mapping tab, select column and click on \checkmark button then insert SQL Query to select column and select Function and the click APPLY and the click OK. Then check SQL Query is correct or not to click on \checkmark button.



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Step: 6 Return to Mapping tab, select column and click on ✓ button then insert SQL Query to select column and select Function and the click APPLY and the click OK. Then check SQL Query is correct or not to click on ✓ button.



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Step: 7 This is complete mapping for Credit Card Example. Then go to Flow tab.



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Step: 8 Click the Flow tab, Click the Source table. The properties for the source appear in the following screen. For LKM, select LKM MSSQL to Oracle (BCP/SQLLDR) from the LKM drop-down list if not selected.



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Step: 9 Click the Target Datastore. Select IKM SQL Control Append. Set the IKM option FLOW_CONTROL to False, DELETE_ALL to True and CREATE_TARG_TABLE to True, Click Save.

CreditCard	▼	Target Area - Property Inspector
a q 100% 🔹 🔀 🔳 📓	^	🖳 📌 🖹 🥒 🍈 Find
SrcSet0 (src_credt_card) Src_nstFLURENT_TYPE_cD Src_nstFLURENT_TYPE_cD Src_nstFLURENT_TYPE_cD Src_nstFLURENT_TYPE_cD Src_nstFLURENT_TYPE_cD		Target Properties Distinct Rows: IKM Selector: IKM Selector: Name Value INSERT COMMIT FLOW_CONTROL false RECYCLE_ERRORS STATIC_CONTROL false TRUNCATE OPLIETE_ALL True REATE_TARG_TABLE true

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7. Execute Interface.

7.1 Target table Schema before execute Session.

Step: 1 Open Oracle 11g, and Open TRGMORTGAGE, and table is empty.



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Step: 2 To test your interface, click the Execute button in Interface name in Project tab in Designer Navigator. The following screen appears. Retain the defaults and click OK. On the next screen, click OK.



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Step: 3 In Operator Navigator, Check session execution.

Coperator	_
₩ 7 ₩ 50	≣ , -
	1
Date Date	^
□ 🖽 Today (Oct 3, 2012)	
🗐 🐨 🥨 1 - CreditCard - Oct 3, 2012 3:30:40 PM	
1 - Loading - SrcSet0 - Set current database on source	
3 - Loading - SrcSet0 - Drop view on source	
4 - Loading - SrcSet0 - Drop work table	
5 - Loading - SrcSet0 - Create view on source	
Of a contract of the second	
B - 2 Cooding - SrcSet0 - Generate SQLLDR control file	
🗷 💇 9 - Loading - SrcSet0 - Call SQLLDR via Jython	
ID - Loading - SrcSet0 - Gather statistics	
15 - Integration - CreditCard - Commit transaction	
1000011 - Loading - SrcSet0 - Drop view on source	
IUUUU12 - Loading - SrcSetU - Delete temporary files	
Step: 4 Open CreditCard Execution window.	

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Definition	Session St	ер					
milogos	Step Name	CreditCard		Statu	JS)	Done	
	Step Type:	Flow (Interface)		- Exec	ution Context:	Global	
	Order Number:	:		No. c	of Executions:	1	
	Record St	tatistics					
	No. of Inse	erts: 9	No. of Updates:	0			
	No. of Dele	etes: 9	No. of Errors:	1			
	No. of Row	ws: 20	Maximum errors allowed	J:			
	Execution	Statistics					
	Start:	Oct 3, 2	012 3:30:40 PM		End:	Oct 3, 2012 3:30:44 PM	
	Duration (s	seconds): 4			Return Code:	0	
	🗄 Target Ta	able Details					
	Message:						
p: 4]	Execution fo	or Target Inte	gration.				
p: 4]	Execution fo	or Target Inte	egration.				
p: 4]	Execution fo	or Target Inte	gration.				
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ep: 4]	Execution fo	or Target Inte	gration.				

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Lode	larget Lode		
onnection			Query/Execution Pla
rivileges			
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		COMMON_COA_ID,	
		GL_ACCOUNT_ID,	
		ORG_UNIT_ID,	
		AMRT_TERM,	
		AMRT_TERM_MULT,	
		CHARGE_OFF_BAL, COMPOUND BASIS CD.	
		CUR_DELQ_BAL,	
		CUR_PAR_BAL, IDENTITY_CODE	
		ISSUE_DATE,	
		ORG_PAR_BAL,	
		REMAIN_NO_PMTS_C,	
		ACCOUNT_OFFICER_CD,	
		ACCROAL_BASIS_CD, ADJUSTABLE_TYPE_CD,	
		AGENT_BANK_CD,	
		AMORT_METH_PDFC_CD, AMRT_TYPE_CD.	
		ANNUAL_FEE_CD,	
		APPLICATION_ANALYST_CD, BANK_CD.	
	K		

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7.2 Target table After execute Session.

Step: 1 Target Data in ODI, Go to Model tab>TRG_CREDITCARD>Right click on TRG_Mortgage> select view data.

CreditCard III TRG_CREDITCARD															
Data															
	1 4 D												┱҇҇҄ѧ҇҄҄҄҄҄ ┛҇Ѧ҄ӹ҄Ѧѿ		
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	1	0	700000561	123	27121	9001	1	10	1	10	1	100	1 03		
	2	4	700000561	123	846131	9067000	5	30	1	10	2	200	1 03		
	з	2	700000563	124	820111	9002	3	20	1	10	2	100	3 03		
	4	5	700000561	124	401205	9067001	1	10	0	10	1	200	3 03		
	5	8	700000564	124	820111	9002	4	30	0	20	1	100	1 03		
	6	1	700000562	125	401205	9067000	2	10		20	0	200	4 03		
	7	6	700000562	125	820111	9002	2	10	0	30	0	100	2 03		
	8	3	700000564	1234	834003	9067001	4	10		10	1	300	2 03		
	9	7	700000563	1234	401205	9067000	3	20	1	10	2	300	4 03		

Step: 2 Target data in Oracle 11g, Open Oracle 11g and click on TRGCREDITCARD Schema and refresh table.

⊳ Admi	n 🔳	TRGCRED	IT_CARD														
Columns	Data	ionstraint:	Grants	Statistics	Colur	mn Statistics	Triggers Depe	ndencies 🛛 D	etails F	Partitions	Indexes S	5QL					
📌 限	🔞 🛃 🗶 🥵 🖪 Sort Filter: Enter Where Clause														Actions		
	ID_NUME	BER COM	MON	CUSTOMER	_ID 0	GL_ACCOUN	. ORG_UNIT_ID	PRODUC.	. AMRT	_TERM	AMRT_TERM_	_MULT	CHARGE_OFF	COMPOUND_BA	CUR_DELQ_BAL	CUR_PAR_BAL	CYCLE_DA
1		0 70	0000561		123	27121	900	1	1	10		1	10	1	100	1	03
2		1 70	0000562		125	401205	5 906700)	2	10		(null)	20	0	200	4	03
3		2 70	0000563		124	820111	900:	2	3	20		1	10	2	100	3	03
4		3 70	0000564	1	1234	834003	906700	1	4	10		(null)	10	1	300	2	03
5		4 70	0000561		123	846131	906700)	5	30		1	10	2	200	1	03
6		5 70	0000561		124	401205	5 906700	1	1	10		0	10	1	200	3	03
7		6 70	0000562		125	820111	. 900;	2	2	10		0	30	0	100	2	03
8		7 70	0000563	1	1234	401205	5 906700	0	3	20		1	10	2	300	4	03
9		8 70	0000564		124	820111	900;	2	4	30		0	20	1	100	1	03

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