



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 Hands-on Guide. The document briefs you practical approach to build financial data model using multiple data source. 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.**

History:

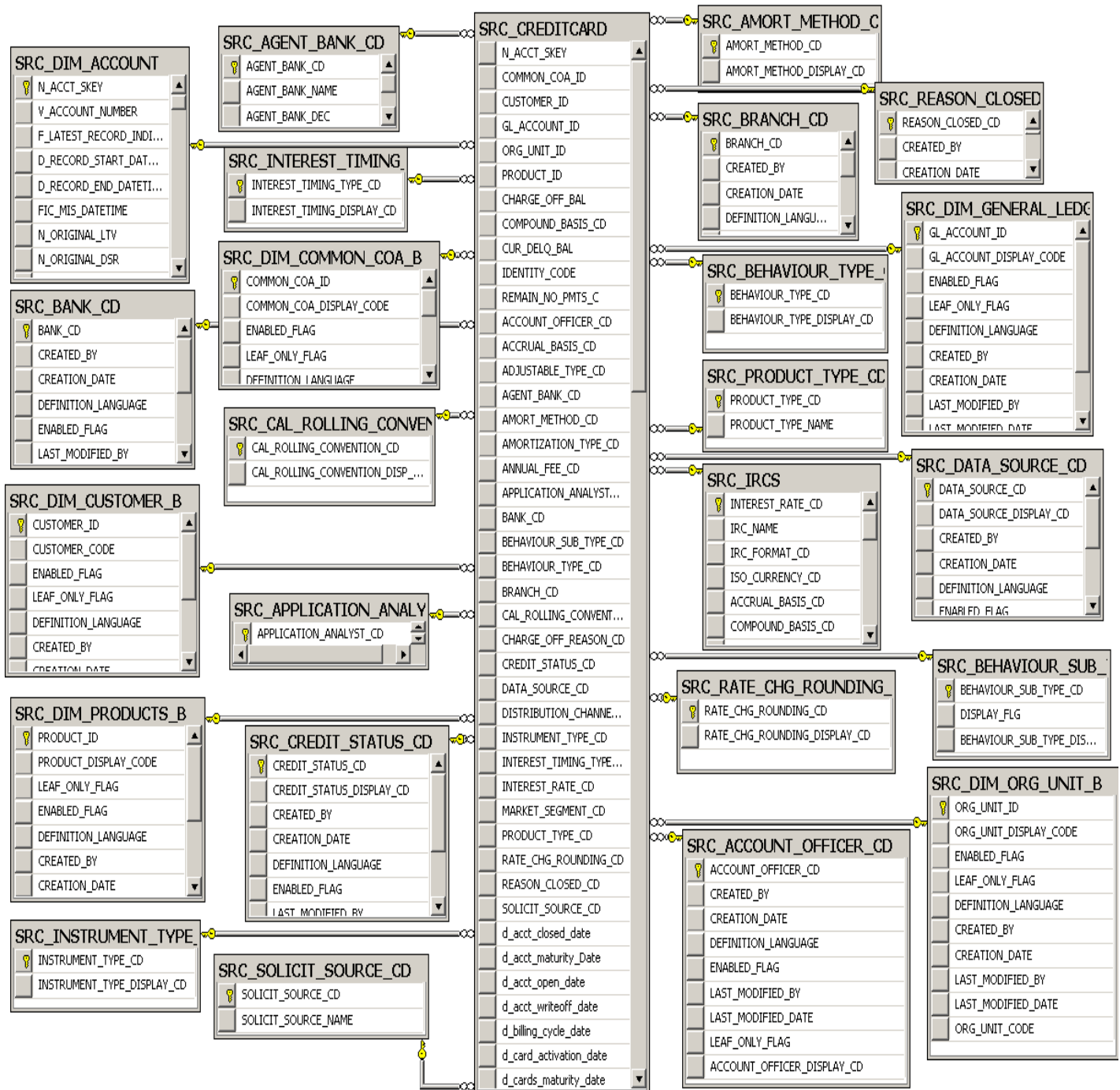
Version	Description Change	Author	Publish Date
0.1	Initial Draft	Upendra Upadhyay	1 st Jul 2012
0.1	1 st Review	Amit Sharma	5 th Jul 2012

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1. :Introduction-

Source Model :- This is Source Data Model.



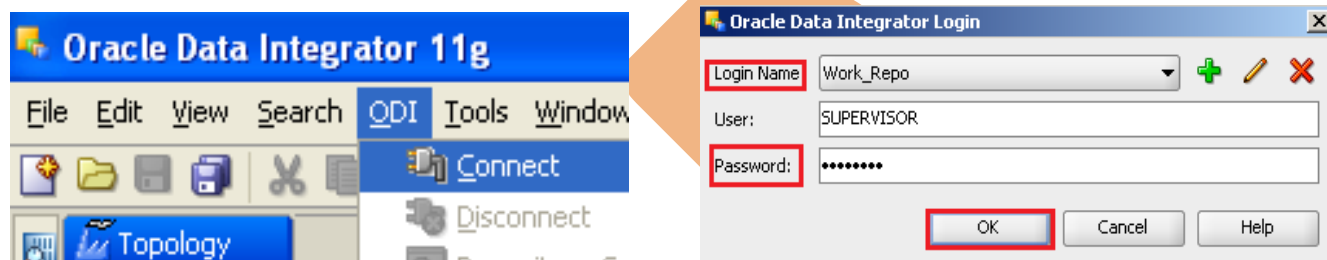
Target Model :- This is Target Data Model

	TRG CREDITCARD
n	ID NUMBER
n	COMMON COA ID
n	CUSTOMER ID
n	GL ACCOUNT ID
n	ORG UNIT ID
n	PRODUCT ID
n	AMRT TERM
n	AMRT TERM MULT
n	CHARGE OFF BAL
n	COMPOUND BASIS CD
n	CUR DELQ BAL
n	CUR PAR BAL
n	CYCLE DAY OF MONTH
n	IDENTITY CODE
d	ISSUE DATE
n	ORG PAR BAL
n	PMT FREQ
n	REMAIN NO PMTS C
n	PMT FREQ MULT
n	UNDRAWN AMT
n	ACCOUNT OFFICER CD
n	ACCRUAL BASIS CD
n	ADJUSTABLE TYPE CD
n	AGENT BANK CD
n	AMORT METH PDFC CD
n	AMRT TYPE CD
n	ANNUAL FEE CD
n	APPLICATION ANALYST CD
n	BANK CD
n	BEHAVIOUR SUB TYPE CD
n	BEHAVIOUR TYPE CD
n	BRANCH CD
n	HOLIDAY ROLLING CONVENTION CD
n	CHARGE OFF REASON CD
n	CREDIT STATUS CD
n	DATA SOURCE CD
n	DISTRIBUTION CHANNEL CD
n	INSTRUMENT TYPE CD
n	INT TYPE
n	INTEREST RATE CD
n	T RATE INT RATE CD
n	MARKET SEGMENT CD
n	PRODUCT TYPE CD
n	RATE CHG RND CD
n	REASON CLOSED CD
n	SOLICIT SOURCE CD
d	ACCOUNT CLOSE DATE
d	MATURITY DATE
d	ORIGINATION DATE
d	CHARGE OFF DATE
d	FIRST ACTIVATED DATE
d	EXPIRATION DATE
d	CREDIT SCORE DATE
d	FEE CHARGE DATE
d	LAST ACTIVE DATE
d	LAST PAYMENT DATE
d	LAST REJECTED DATE
d	LAST REPRICE DATE
d	LAST TRANSACTION DATE
d	LAST STATUS CHANGE DATE
d	LAST CR LINE CHANGE DATE
d	MEMBERSHIP ANNIV DATE
d	NEXT PAYMENT DATE
d	NEXT REPRICE DATE
d	TEASER END DATE
d	TRANSFER BAL DATE
d	AS OF DATE
n	DEL CUR DAYS
n	DISPUTED TRANSFER BAL
n	ORG BOOK BAL
n	ANNUAL ACCT FEE
n	AVG BOOK BAL
n	BEHAVIOR SCORE

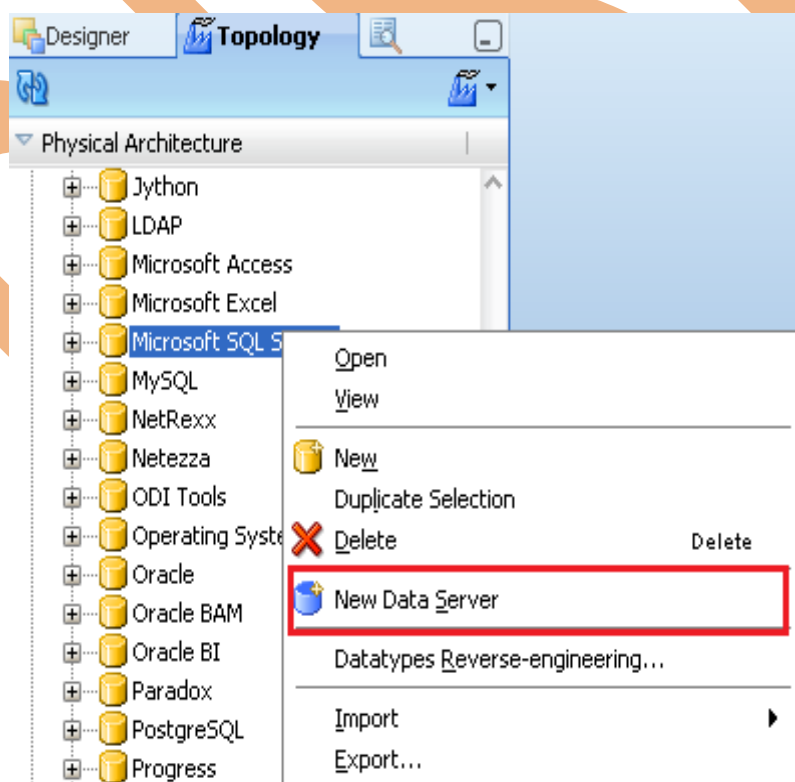
2. Setting up Data server, Physical & Logical schema in ODI 11g:-

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.



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



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

src_credit_card

Test Connection

Definition

JDBC

Properties

Data Sources

Version

Privileges

FlexFields

Data Server

Name: src_credit_card

Technology: Microsoft SQL Server

Server (Data Server):

Connection

User: SRC_CreditCard

Password:

☐ JNDI Connection

Array Fetch Size: 30 Batch Update Size: 30

Step: 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on Test Connection.

src_credit_card

Test Connection

Definition

JDBC

Properties

Data Sources

Version

Privileges

FlexFields

JDBC Driver: weblogic.jdbc.sqlserver.SQLServerDriver

JDBC Url: jdbc:weblogic:sqlserver://localhost:1433

Step: 5 Test Connection.

Confirmation

?

Your data will be saved before testing connection.
Do you want to continue?

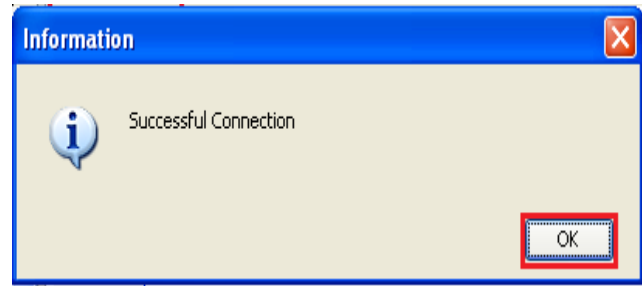
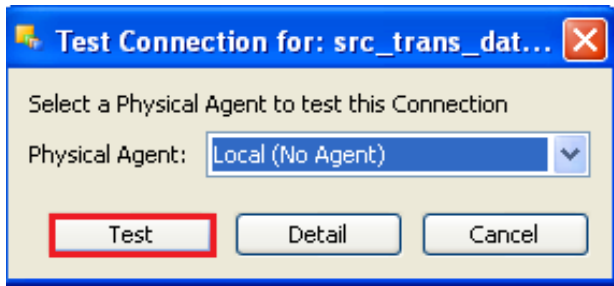
OK Cancel

Information

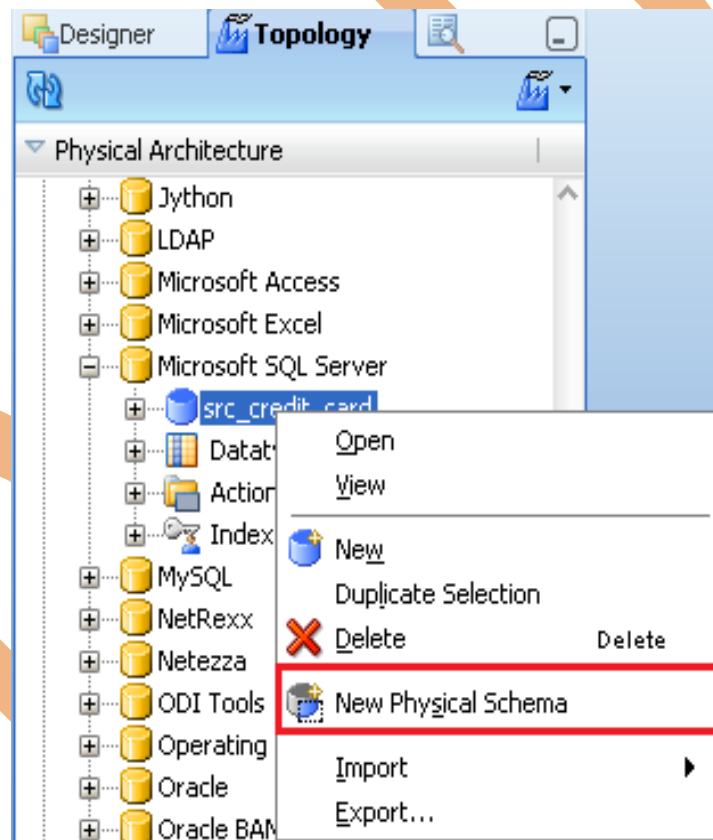
i


Please register at least one physical schema for your Data Server

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.



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.

src_credit_card.SRC_CreditCard.dbo

Definition

Context
Version
Privileges
FlexFields

Physical Schema [Data Server: src_credit_card]

Name: src_credit_card.SRC_CreditCard.dbo

Database (Catalog): SRC_CreditCard

Owner (Schema): dbo

Database (Work Catalog): SRC_CreditCard

Owner (Work Schema): dbo

☒ Default

Work Tables Prefix

Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_

Journalizing elements prefixes

Datstores: J\$ Views: JV\$ Triggers: T\$

Naming Rules

Local Object Mask: %CATALOG.%SCHEMA.%OBJECT

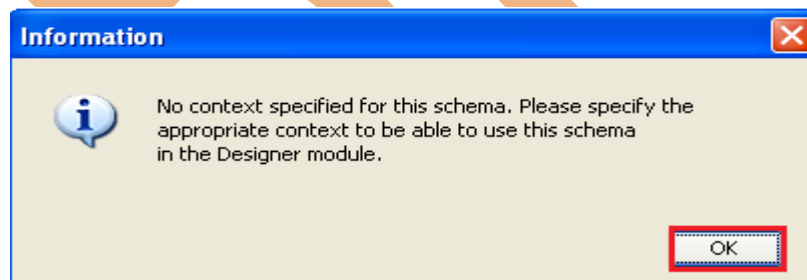
Remote Object Mask: %DSERVER.%CATALOG.%SCHEMA.%OBJECT

Partition Mask:

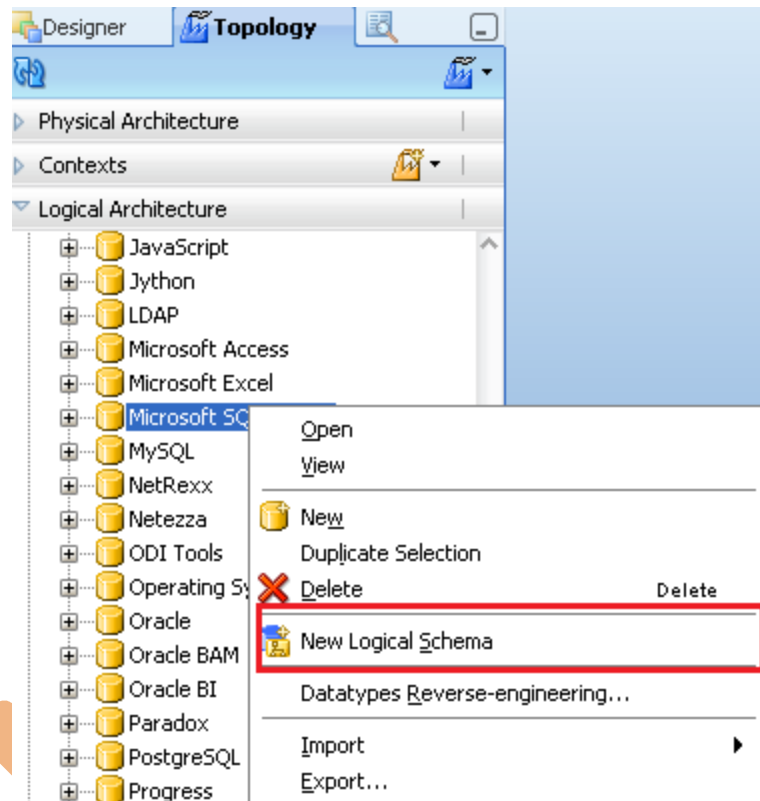
Sub-Partition Mask:

Local sequence mask:

Remote sequence mask:



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



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 (disk icon) and close the editing Window.

SRC_CreditCard

Definition

Logical Schema

Privileges

FlexFields

Name: SRC_CreditCard

Context	Physical Schemas
Global	src_credit_card.SRC_CreditCard.dbo

A large orange watermark is visible across the center of the image.

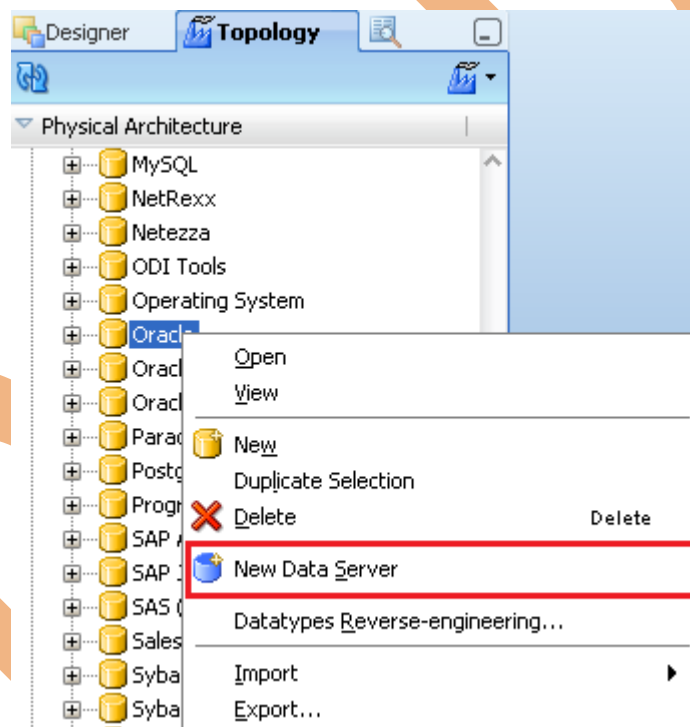
2.3 Create Data server, Physical & Logical Schema Target Database :-

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 <MY_SCHEMA_NAME> identified by <MY_PASSWORD>;  
grant dba,connect,resource to <MY_SCHEMA_NAME>;
```

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.

Trg_CreditCard

Test Connection

Definition

JDBC

Properties

Data Sources

Version

Privileges

FlexFields

Data Server

Name: Trg_CreditCard

Technology: Oracle

Instance / dblink (Data Server): orcl

Connection

User: TRG_CREDITCARD

Password:

☐ JNDI Connection

Array Fetch Size: 30 Batch Update Size: 30

Step: 4 Specify the JDBC Driver and JDBC Url by selecting browse button. Then click on Test Connection.

Trg_CreditCard

Test Connection

Definition

JDBC

Properties

Data Sources

Version

Privileges

FlexFields

JDBC Driver: oracle.jdbc.OracleDriver

JDBC Url: jdbc:oracle:thin:@localhost:1521:orcl

Step: 5 Test Connection.

Confirmation

?

Your data will be saved before testing connection.
Do you want to continue?

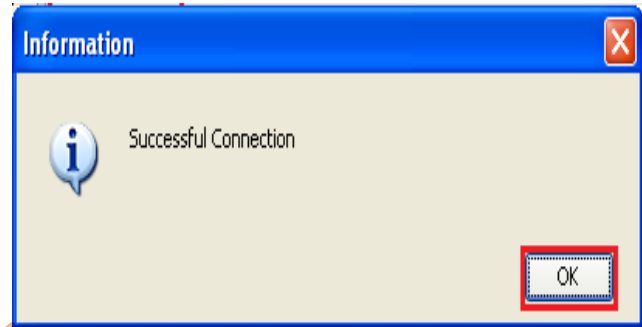
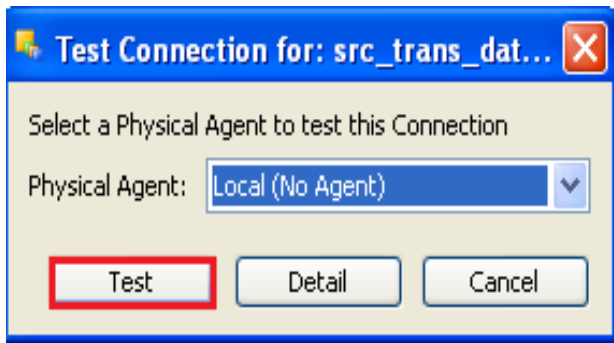
OK Cancel

Information

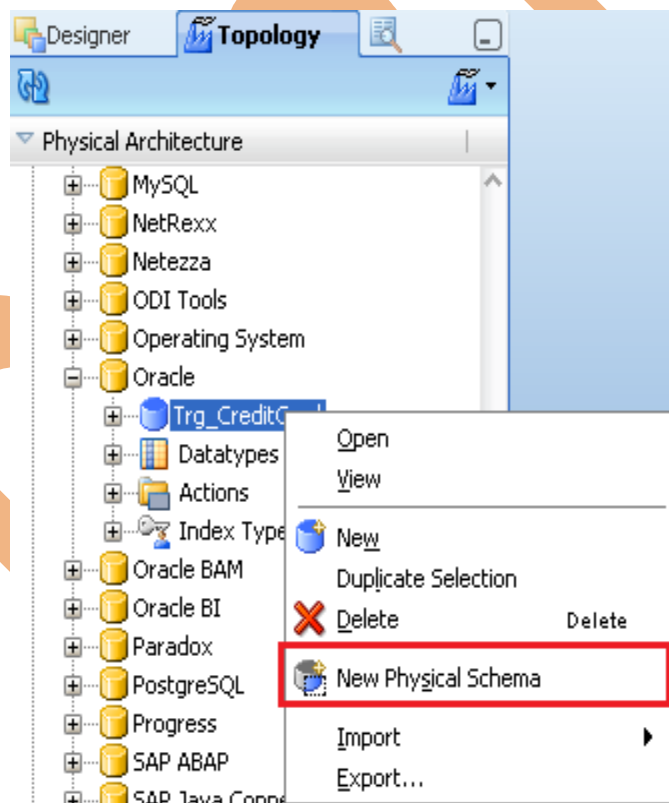
i

Please register at least one physical schema for your Data Server

OK



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



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.

Trg_CreditCard.TRG_CREDITCARD

Definition

Context
Version
Privileges
FlexFields

Physical Schema [Data Server: Trg_CreditCard]

Name: Trg_CreditCard.TRG_CREDITCARD

Schema (Schema): TRG_CREDITCARD

Schema (Work Schema): TRG_CREDITCARD

☒ Default

Work Tables Prefix

Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_

Journalizing elements prefixes

Datstores: J\$ Views: JV\$ Triggers: T\$

Naming Rules

Local Object Mask: %SCHEMA.%OBJECT

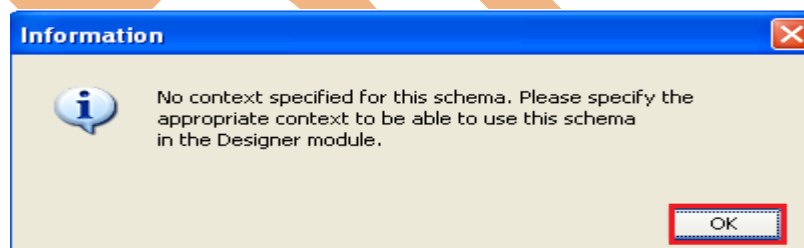
Remote Object Mask: %SCHEMA.%OBJECT@%DSERVER

Partition Mask: %SCHEMA.%OBJECT PARTITION(%PARTITION)

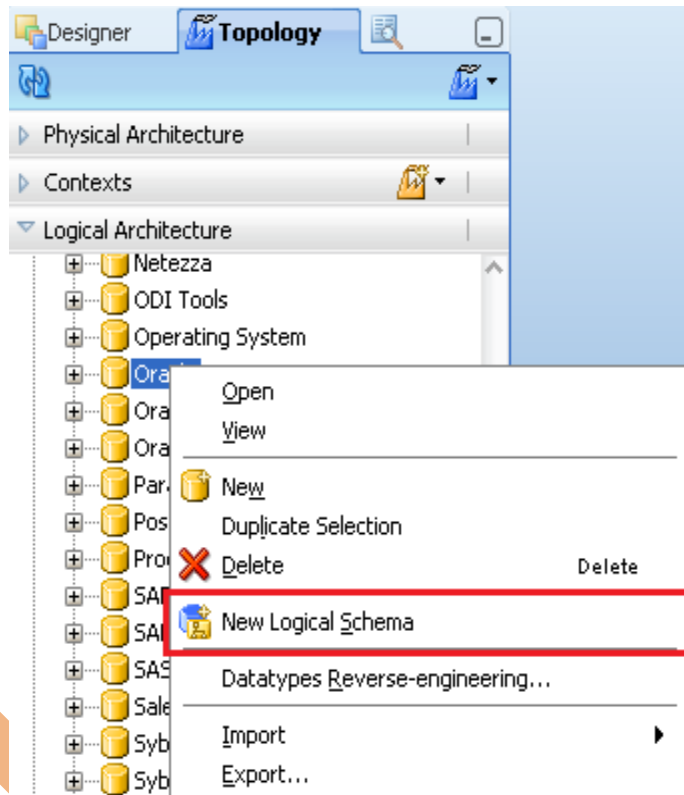
Sub-Partition Mask: %SCHEMA.%OBJECT SUBPARTITION(%PARTITION)


Local sequence mask: %SCHEMA.%OBJECT.nextval

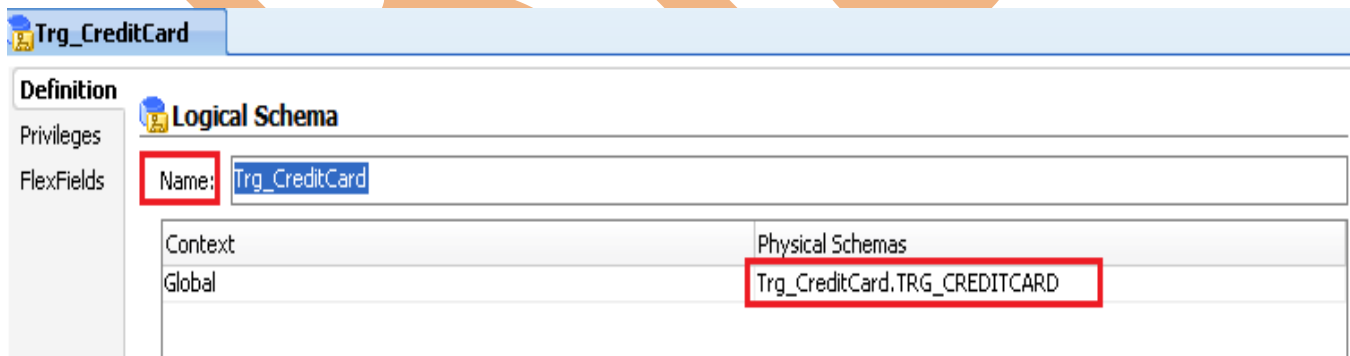
Remote sequence mask: %SCHEMA.%OBJECT.nextval@%DSERVER



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




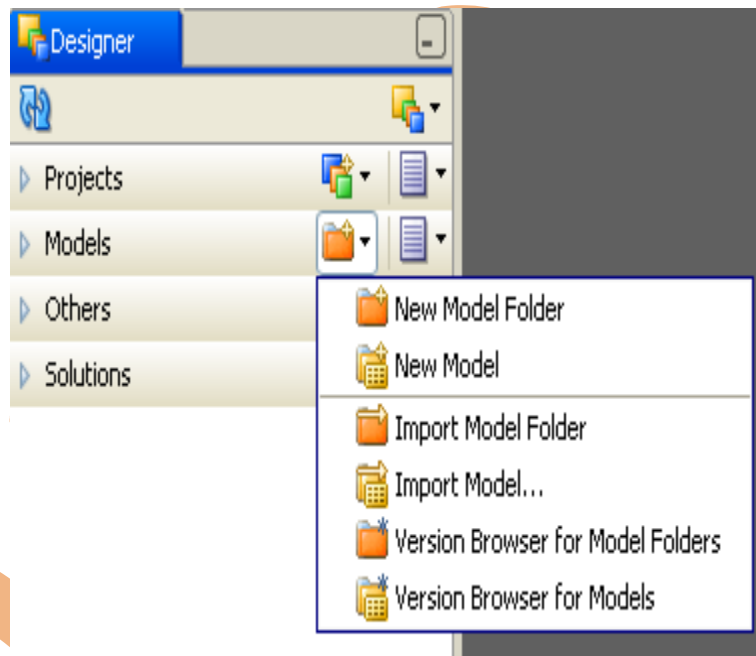
Step: 9 Enter the Logical Schema name: SRC_CreditCard and select the Physical schema (TRG_CreditCard. TRG_CreditCard) in all three contexts as shown here. Click Save ) and close the editing Window.



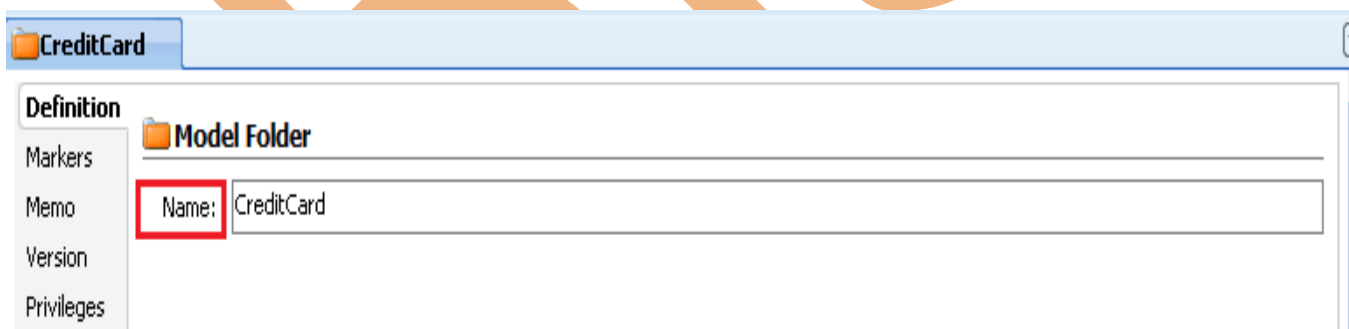
3. Organizing Model for Source and Target.

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.

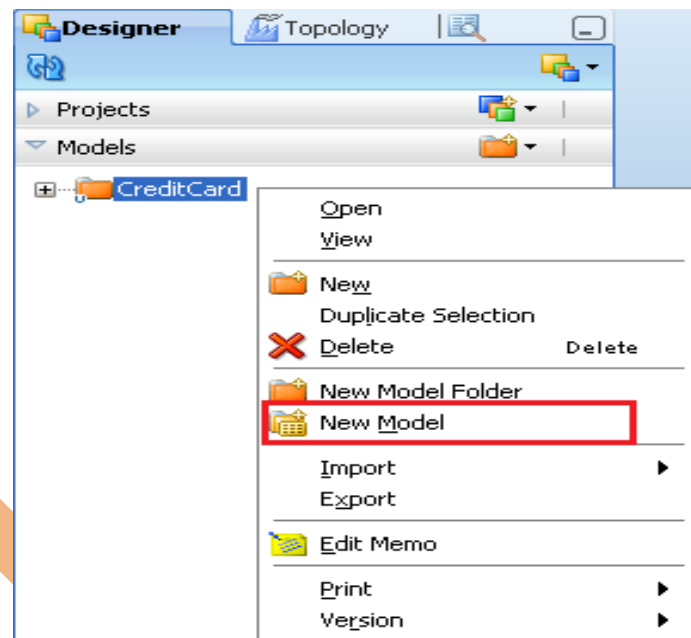


Step: 2 In Definition, insert Name of Model Folder and then save () it.

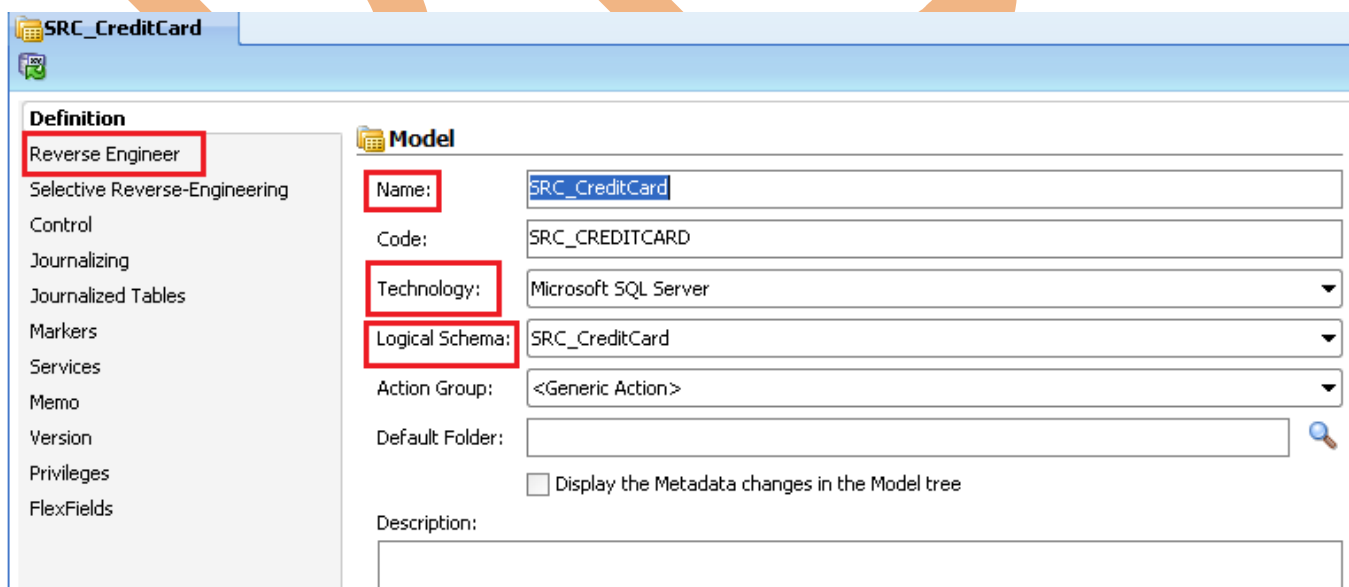



3.2 Creating Model for Source (MS SQL Server 2005) :-

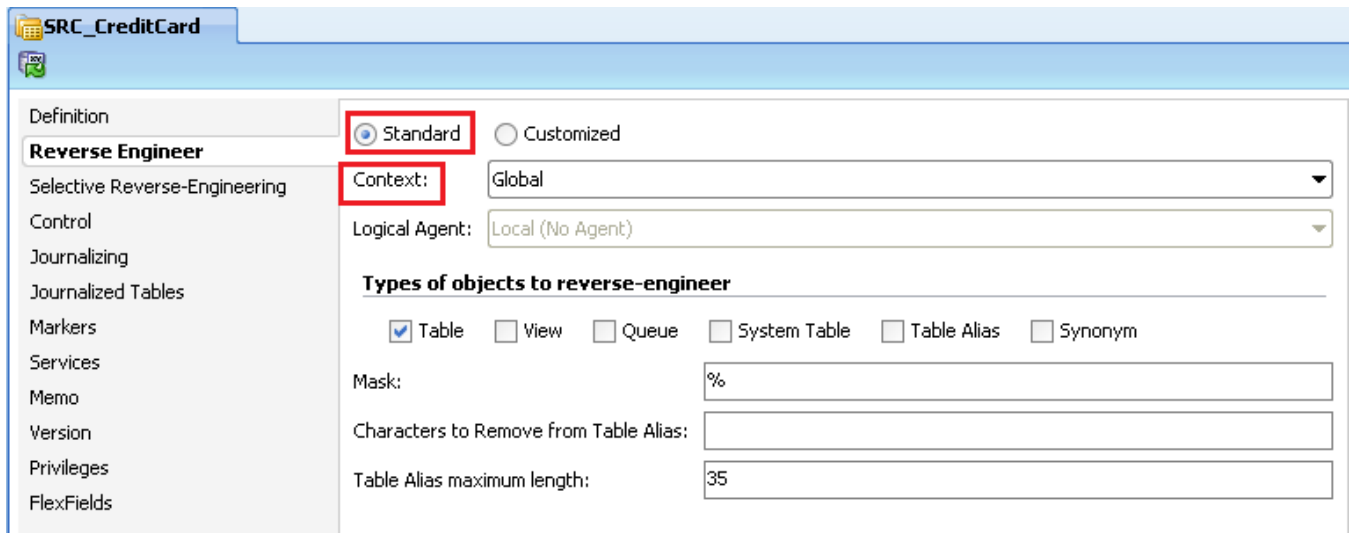
Step: 1 In Model tab. Select CreditCard, right click on Credit_Card and select New Model.



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.

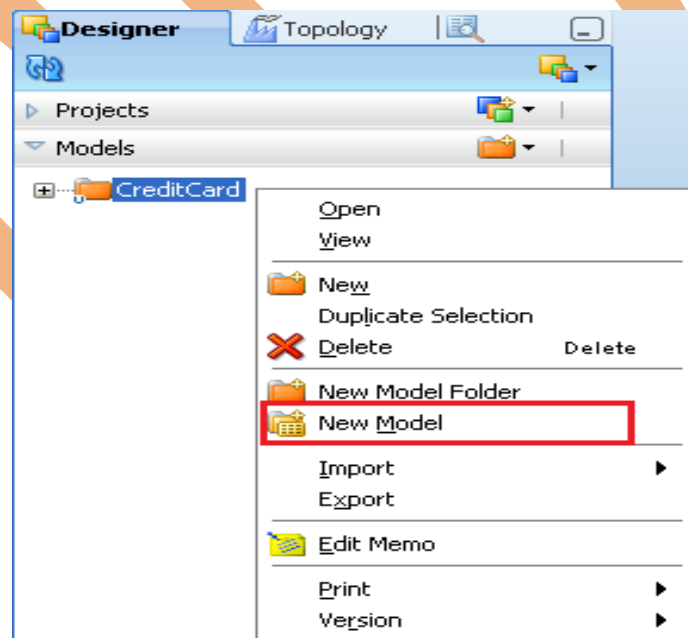


Step: 3 In Reverse Engineer tab, check standard reverse engineering, and in context select context and the save  it.



3.4 Creating Model for Target (Oracle) :-

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



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

Reverse Engineer

Selective Reverse-Engineering

Control

Journalizing

Journalized Tables

Markers

Services

Memo

Version

Privileges

FlexFields

Model

Name: TRG_CreditCard

Code: TRG_CREDITCARD

Technology: Oracle


Logical Schema: Trg_CreditCard

Action Group: <Generic Action>

Default Folder:

☐ Display the Metadata changes in the Model tree

Description:

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

TRG_CreditCard

Definition

Reverse Engineer

Selective Reverse-Engineering

Control

Journalizing

Journalized Tables

Markers

Services

Memo

Version

Privileges

FlexFields

☒ Standard ☐ Customized

Context: Global

Logical Agent: Local (No Agent)

Types of objects to reverse-engineer

☒ Table ☐ View ☐ Queue ☐ System Table ☐ Table Alias ☐ Synonym

Mask: %

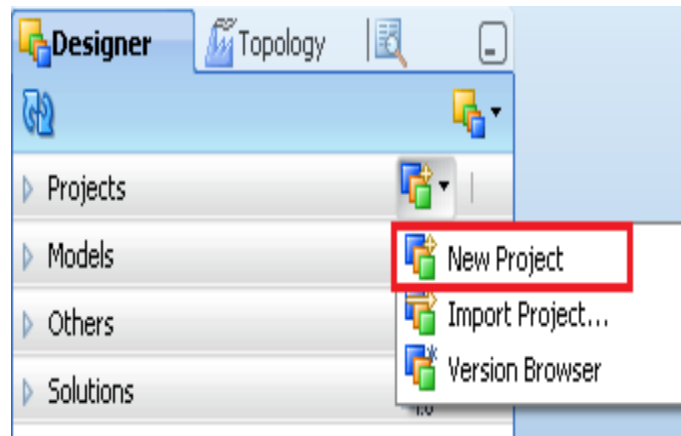
Characters to Remove from Table Alias:

Table Alias maximum length: 35

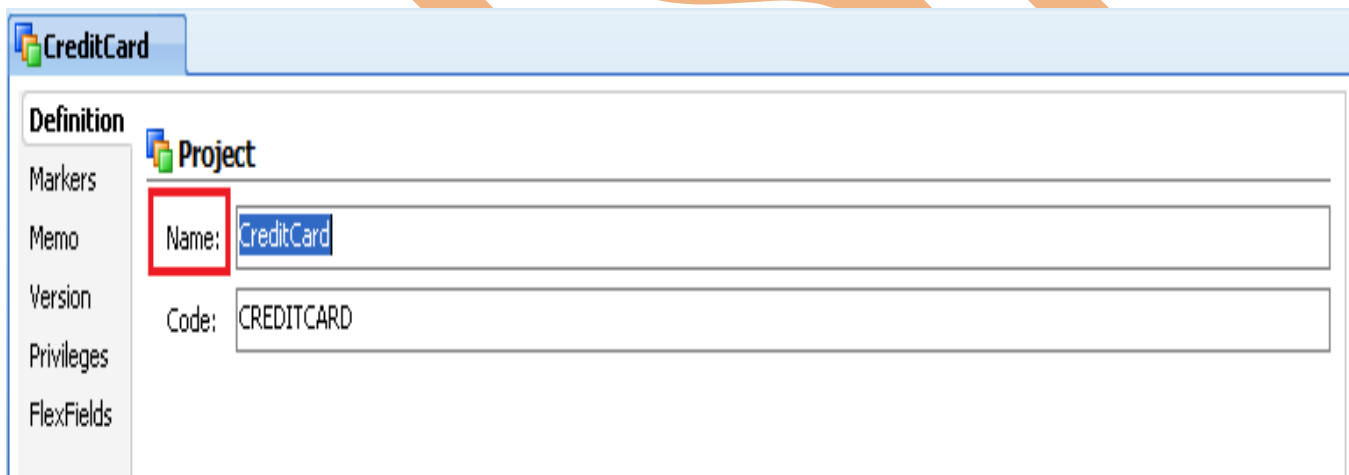
4. Organizing Project & Import Knowledge Module.

4.1 Creating Project.

Step: 1 In Designer Navigator, Click on Project  and select New Project.

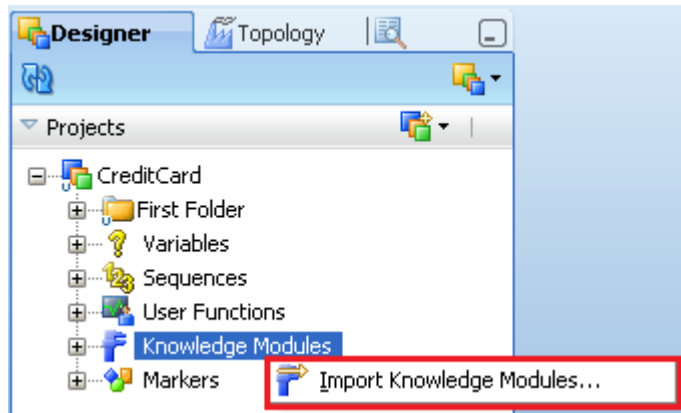


Step: 2 Specify Name-CreditCard of Project and save  it.

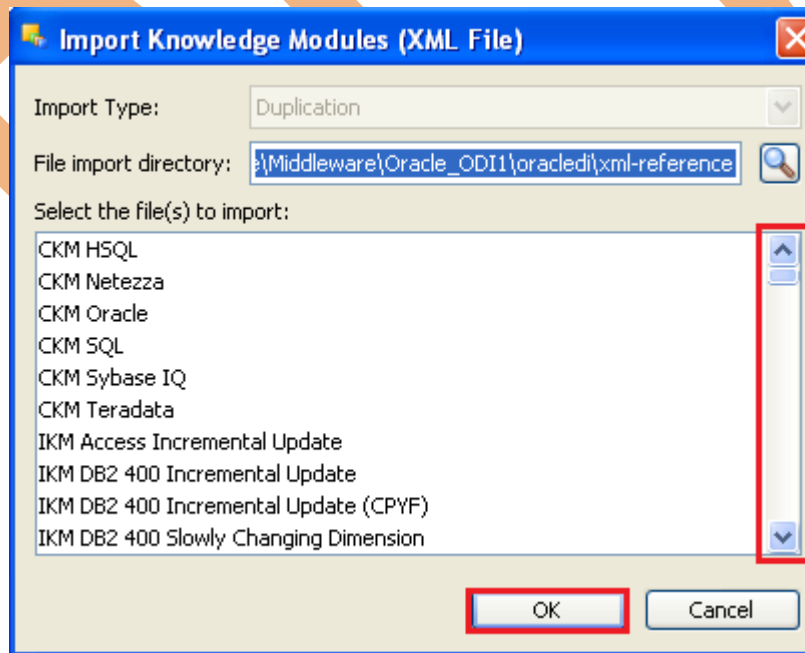


4.2 Import Knowledge Module.

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



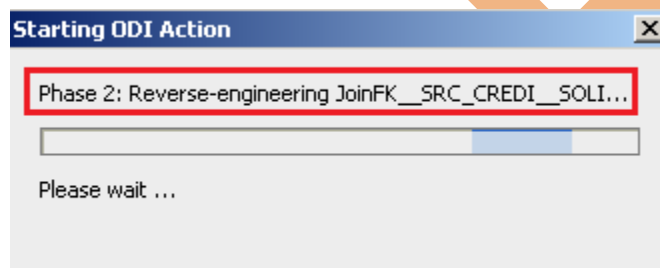
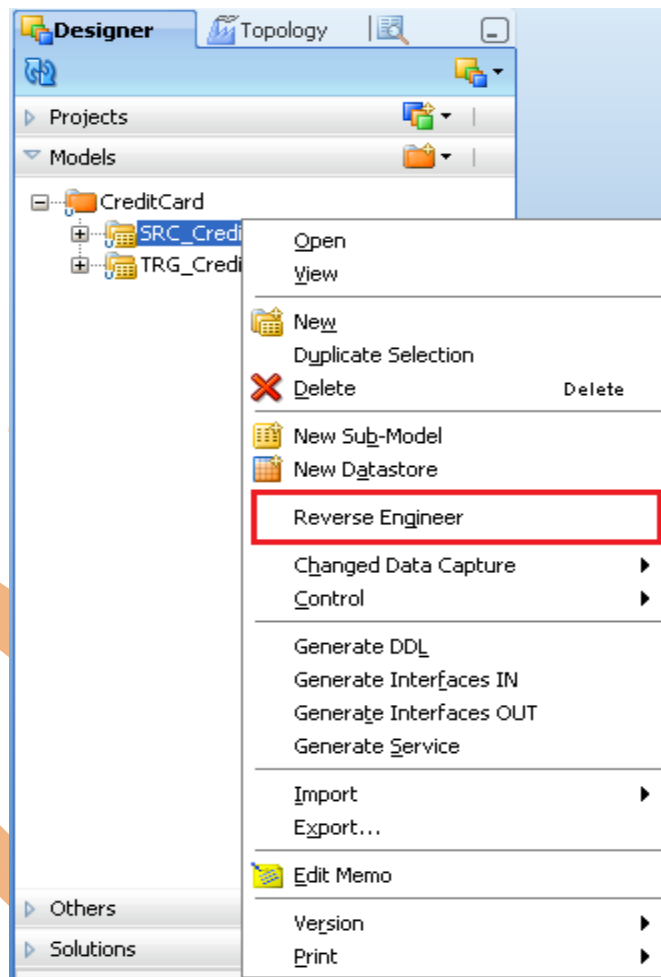
Step: 2 In list of knowledge module select knowledge module (multiple selection use ctrl key or shift key) and then OK.



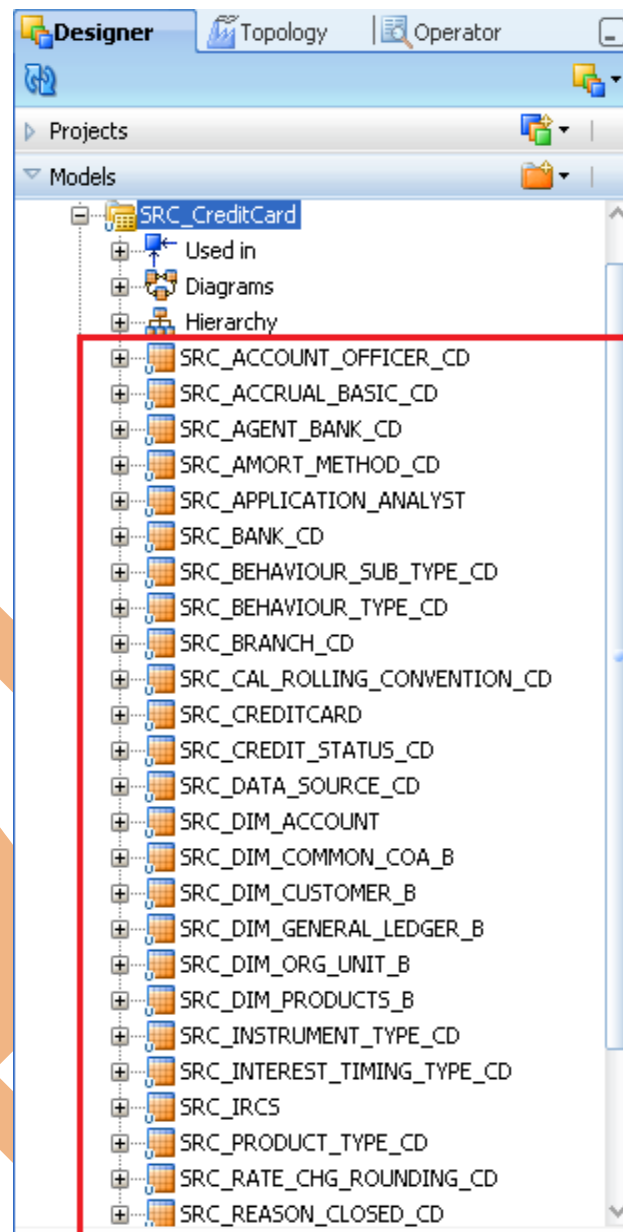
5. Creating ODI Source data store.

5.1 Creating ODI Source Table.

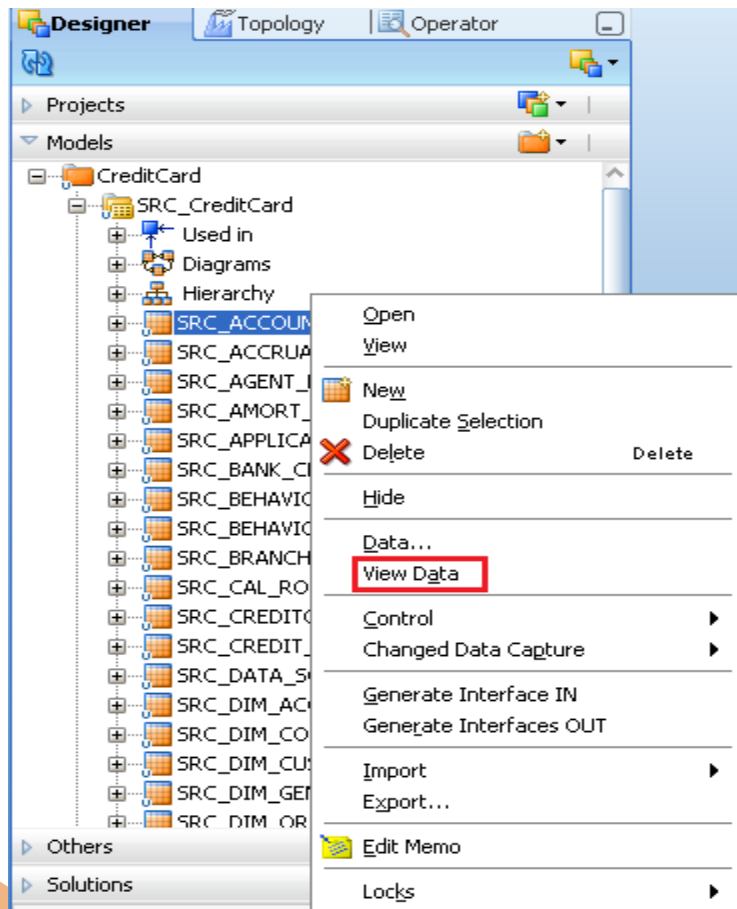
Step: 1 In Designer Navigator, click on model tab and right click on SRC_CreditCard and select Reverse Engineer. All table extracted from Source (MS SQL Server 2005).



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..



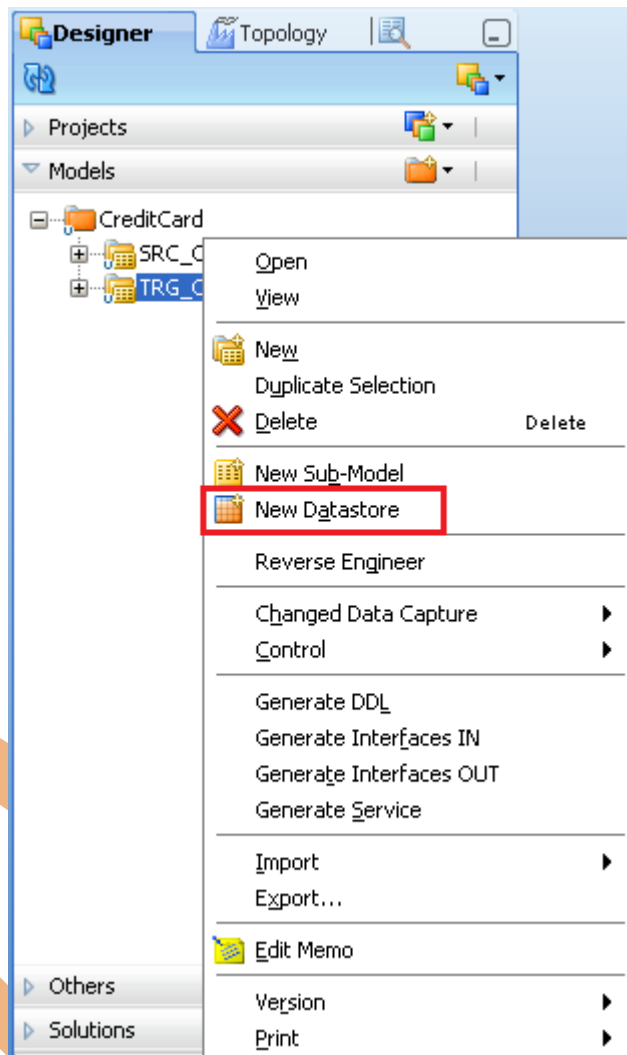
Step: 4 Data in SRC_ACCOUNT_OFFICER_CD

SRC_ACCOUNT_OFFICER_CD			
Data			
	ACCOUNT_OFFICER_CD	CREATED_BY	CREATION_DATE
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	

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

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.



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

TRG_CREDIT_CARD

✓

Definition

Columns

Journalizing

Partitions

Markers

Services

Memo

Version

Privileges

FlexFields

Datastore [Model: TRG_CreditCard ▶ Sub-Model: Global]

Name: TRG_CREDITCARD Alias: TRG_CREDIT_CARD

Datastore Type: Table OLAP Type: Dimension

Resource Name: TRGCREDIT_CARD

Number of Rows

Total:

Description:

Step: 3 Select add button () to add column in target table, insert name of column, specify Type(Data Type) and Logical length and then save it.

TRG_CreditCard

✓

Definition

Columns

Journalizing

Partitions

Markers

Services

Memo

Version

Privileges

FlexFields

Reverse Engineer Cobol CopyBook Automatic adjustment

Order	Name	Type	Logical length	Scale	Not Null
-------	------	------	----------------	-------	----------

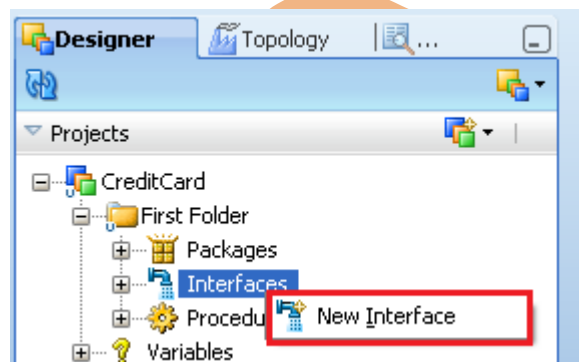
Step: 4 These are created target data through ODI 11G.

TRG_CREDITCARD						
<div> <div>Definition</div> <div>Columns</div> <div>Journalizing</div> <div>Partitions</div> <div>Markers</div> <div>Services</div> <div>Memo</div> <div>Version</div> <div>Privileges</div> <div>FlexFields</div> </div>						
<div> <div>Reverse Engineer Cobol CopyBook</div> <div> <div>+</div> <div>×</div> <div>↑</div> <div>↓</div> </div> <div>Automatic adjustment</div> </div>						
Order	Name	Type	Logical length	Scale	Not Null	
1	ID_NUMBER	NUMBER	14	0	<input type="checkbox"/>	
2	COMMON_COA_ID	NUMBER	14	0	<input type="checkbox"/>	
3	CUSTOMER_ID	NUMBER	14	0	<input type="checkbox"/>	
4	GL_ACCOUNT_ID	NUMBER	14	0	<input type="checkbox"/>	
5	ORG_UNIT_ID	NUMBER	14	0	<input type="checkbox"/>	
6	PRODUCT_ID	NUMBER	14	0	<input type="checkbox"/>	
7	AMRT_TERM	NUMBER	14	0	<input type="checkbox"/>	
8	AMRT_TERM_MULT	NUMBER	14	0	<input type="checkbox"/>	
9	CHARGE_OFF_BAL	NUMBER	14	0	<input type="checkbox"/>	
10	COMPOUND_BASIS...	NUMBER	14	0	<input type="checkbox"/>	
11	CUR_DELO_BAL	NUMBER	14	0	<input type="checkbox"/>	
12	CUR_PAR_BAL	NUMBER	14	0	<input type="checkbox"/>	
13	CYCLE_DAY_OF_M...	VARCHAR2	20	0	<input type="checkbox"/>	
14	IDENTITY_CODE	NUMBER	14	0	<input type="checkbox"/>	
15	ISSUE_DATE	DATE	7	0	<input type="checkbox"/>	
16	ORG_PAR_BAL	NUMBER	14	0	<input type="checkbox"/>	
17	PMT_FREQ	NUMBER	14	0	<input type="checkbox"/>	
18	REMAIN_NO_PMTS_C	NUMBER	14	0	<input type="checkbox"/>	
19	PMT_FREQ_MULT	NUMBER	14	0	<input type="checkbox"/>	
20	UNDRAWN_AMT	NUMBER	14	0	<input type="checkbox"/>	
21	ACCOUNT_OFFICE...	NUMBER	14	0	<input type="checkbox"/>	
22	ACCRUAL_BASIS_CD	NUMBER	14	0	<input type="checkbox"/>	
23	ADJUSTABLE_TYPE...	NUMBER	14	0	<input type="checkbox"/>	
24	AGENT_BANK_CD	NUMBER	14	0	<input type="checkbox"/>	
25	AMORT_METH_PDF...	NUMBER	14	0	<input type="checkbox"/>	
26	AMRT_TYPE_CD	NUMBER	14	0	<input type="checkbox"/>	

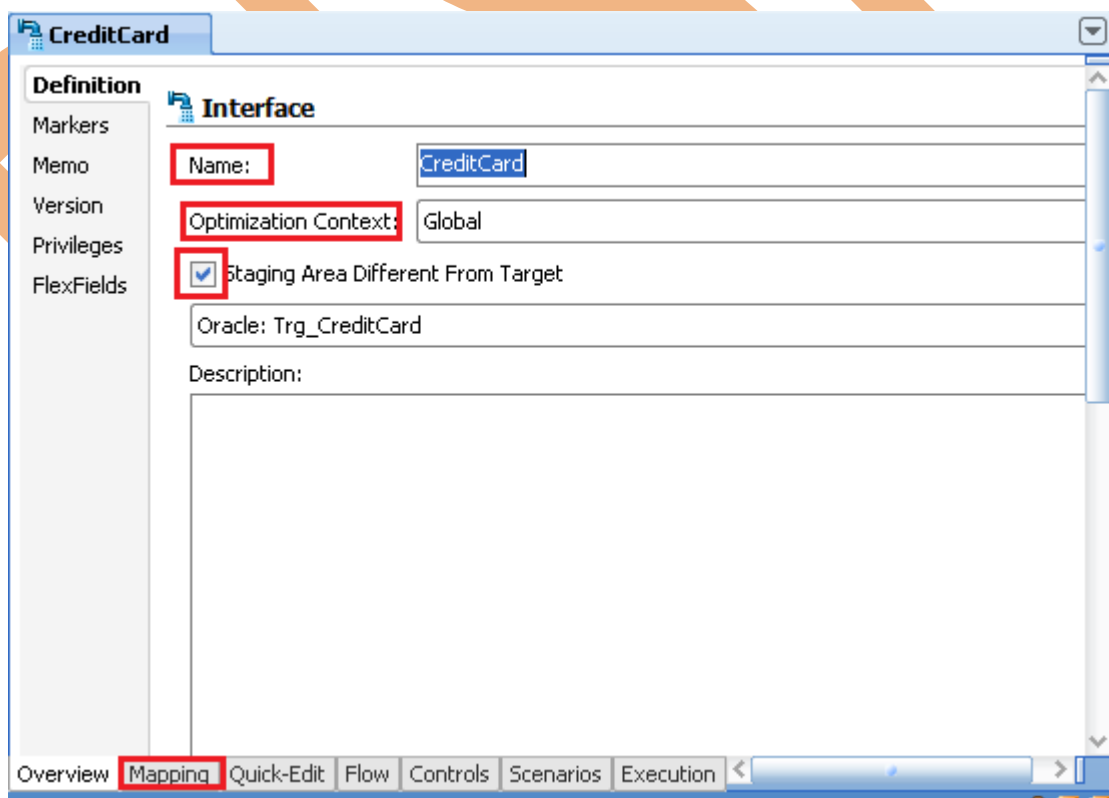
6. Create Mapping (Interface) for ODI to Target (Oracle).

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

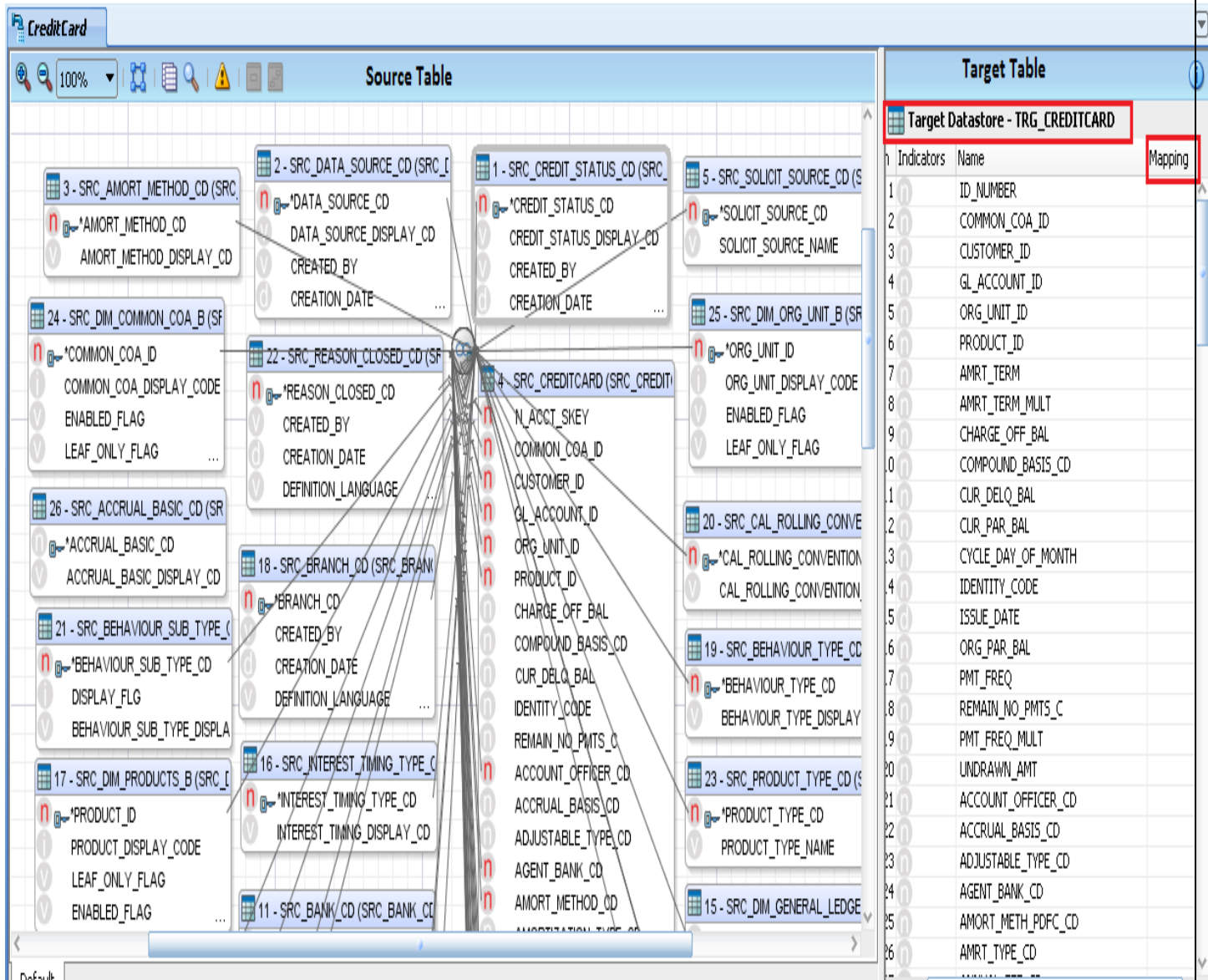
Step: 1 In Designer Navigator, click on project tab, click on CreditCard, click on First Folder then right click on Interface and select New Interface.



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



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.



Step: 4 . In Mapping tab, select column and click on 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 button

CreditCard

100%

COMMON_COA_ID
COMMON_COA_DISPLAY_CODE
ENABLED_FLAG
LEAF_ONLY_FLAG

20 - SRC_DIM_CUSTOMER_B (SRC_I
CUSTOMER_CODE
ENABLED_FLAG
LEAF_ONLY_FLAG
DEFINITION_LANGUAGE

5 - SRC_AMORT_METHOD_CD (SRC
*AMORT_METHOD_CD
AMORT_METHOD_DISPLAY_CD

8 - SRC_BEHAVIOUR_SUB_TYPE
*BEHAVIOUR_SUB_TYPE_CD
DISPLAY_FLG
BEHAVIOUR_SUB_TYPE_DISPLA

8 - SRC_DATA_SOURCE_CD (SRC
*DATA_SOURCE_CD
DATA_SOURCE_DISPLAY_CD

N_ACCT_SKEY
COMMON_COA_ID
CUSTOMER_ID
GL_ACCOUNT_ID
ORG_UNIT_ID
PRODUCT_ID
CHARGE_OFF_BAL
COMPOUND_BASIS_CD
CUR_DELO_BAL
IDENTITY_CODE
REMAIN_NO_PMTS_C
ACCOUNT_OFFICER_CD
ACCRUAL_BASIS_CD
ADJUSTABLE_TYPE_CD
AGENT_BANK_CD
AMORT_METHOD_CD
AMORTIZATION_TYPE_CD
ANNUAL_FEE_CD
APPLICATION_ANALYST_CD
BANK_CD
BEHAVIOUR_SUB_TYPE_CD
BEHAVIOUR_TYPE_CD
BRANCH_CD
CAL_ROLLING_CONVENTION_CD
CHARGE_OFF_REASON_CD

13 - SRC
GL_A
ENAB
LEAF

3 - SRC
ACC

4 - SRC
AGE
AGE

7 - SRC
BAN
CREA
CREA
DEFIN

Target Datastore - TRG_CREDITCARD

Indicators	Name	Mapping
1	ID_NUMBER	SRC_CREDITC
2	COMMON_COA_ID	SRC_DIM_CON
3	CUSTOMER_ID	SRC_DIM_CUS
4	GL_ACCOUNT_ID	SRC_DIM_GEN
5	ORG_UNIT_ID	SRC_DIM_ORG
6	PRODUCT_ID	SRC_DIM_PRO
7	AMRT_TERM	SRC_CREDITC
8	AMRT_TERM_MULT	CASE WHEN (U
9	CHARGE_OFF_BAL	SRC_CREDITC
10	COMPOUND_BASIS_CD	SRC_CREDITC
11	CUR_DELO_BAL	SRC_CREDITC
12	CUR_PAR_BAL	SRC_CREDITC
13	CYCLE_DAY_OF_MONTH	TO_NCHAR(SY
14	IDENTITY_CODE	SRC_CREDITC
15	ISSUE_DATE	SRC_CREDITC
16	ORG_PAR_BAL	SRC_CREDITC
17	PMT_FREQ	CASE WHEN (S
18	REMAIN_NO_PMTS_C	SRC_CREDITC
19	PMT_FREQ_MULT	SRC_CREDITC
20	UNDRAWN_AMT	SRC_CREDITC
21	ACCOUNT_OFFICER_CD	SRC_ACCOUN
22	ACCRUAL_BASIS_CD	SRC_ACCRUAL
23	ADJUSTABLE_TYPE_CD	SRC_CREDITC
24	AGENT_BANK_CD	SRC_AGENT_B
25	AMORT_METH_PDFC_CD	SRC_CREDITC
26	AMRT_TYPE_CD	SRC_CREDITC

AMRT_TERM_MULT - Property Inspector

Mapping Properties

Active Mapping: ☒

Technical Description Business Rule

Implementation

CASE WHEN (UPPER(SRC_CREDITCARD.v_orig_term_unit)='Y') THEN 1 WHEN (UPPER(SRC_CREDITCARD.v_orig_term_unit)='N') THEN 0 ELSE NULL END

Execute on: ☒ Source ☐ Staging

Source Datastore: SRC_CREDITCARD (SRC_CREDIT...

Insert: ☒

Update: ☒

Target Column Properties

Name: AMRT_TERM_MULT

Datatype: NUMBER

Length: 20

Scale: 0

Key: ☐

Check Not Null (Flow control only): ☐

User Defined Flags

UD1: ☐ UD2: ☐

Expression Editor

SRC_CREDITCARD (SRC...

ACCOUNT_OFFICER_CD
ACCRUAL_BASIS_CD
ADJUSTABLE_TYPE_CD
AGENT_BANK_CD
AMORTIZATION_TY
AMORT_METHOD_CD
ANNUAL_FEE_CD
APPLICATION_ANA
BANK_CD
BEHAVIOUR_SUB_T
BEHAVIOUR_TYPE_
BRANCH_CD
CAL_ROLLING_COM
CHARGE_OFF_BAL
CHARGE_OFF_REA
COMMON_COA_ID
COMPOUND_BASIS
CREDIT_STATUS_C
CUR_DELO_BAL
CUSTOMER_ID
DATA_SOURCE_CD
DISTRIBUTION_CU

SQL(Microsoft SQL Server)

```
CASE WHEN (UPPER(SRC_CREDITCARD.v_orig_term_unit)='Y') THEN 1 WHEN (UPPER(SRC_CREDITCARD.v_orig_term_unit)='N') THEN 0 ELSE NULL END
```

Aggregate
Conversion
Date and Time
Keywords
Math



Global Variables
Project Variables
Global Sequences
Project Sequences
Global Functions

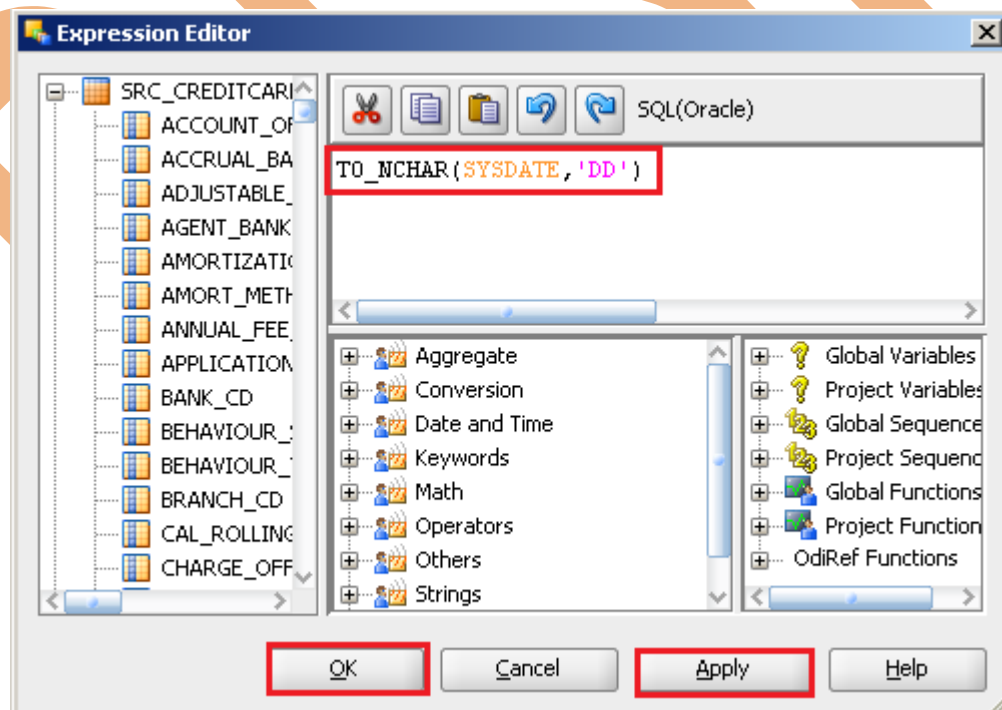
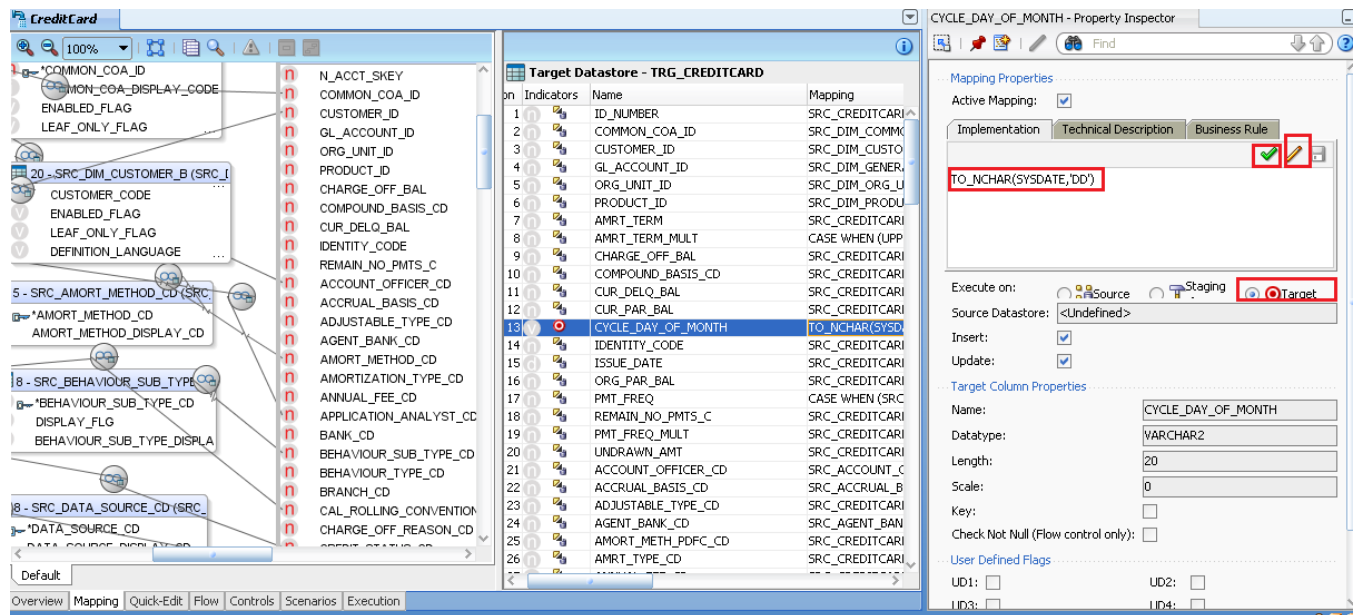
OK Cancel Apply Help

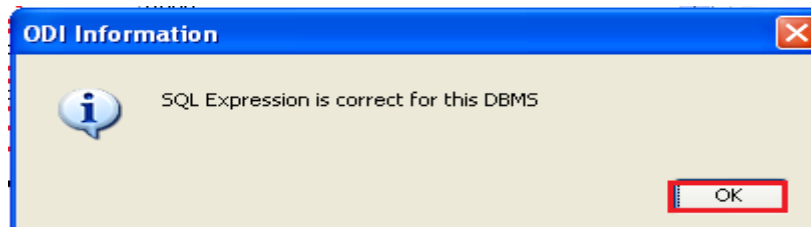
ODI Information

SQL Expression is correct for this DBMS

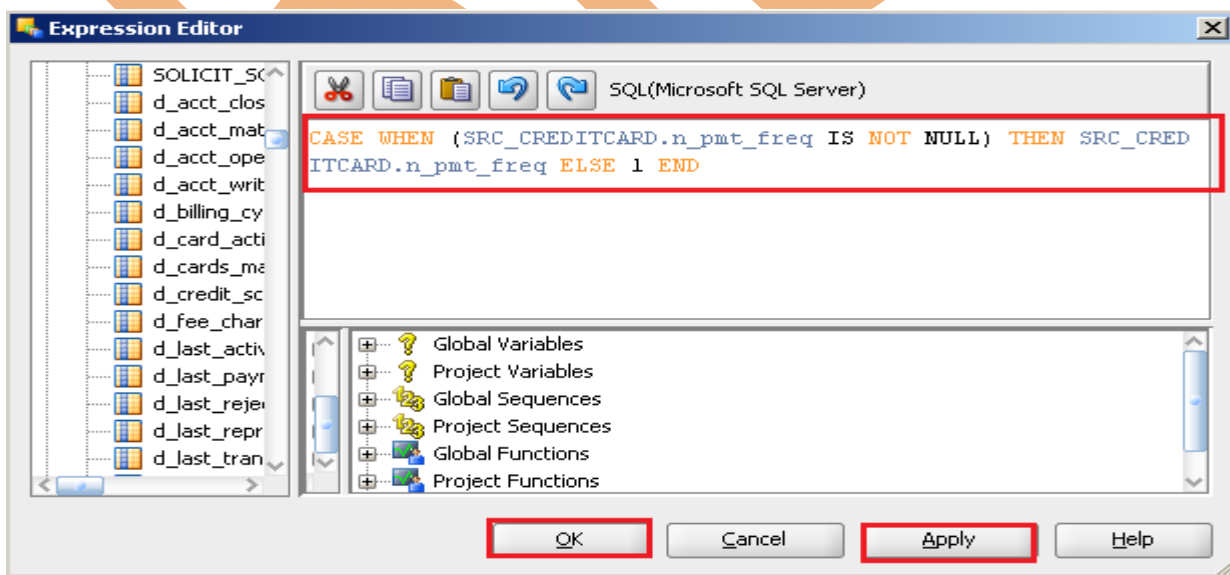
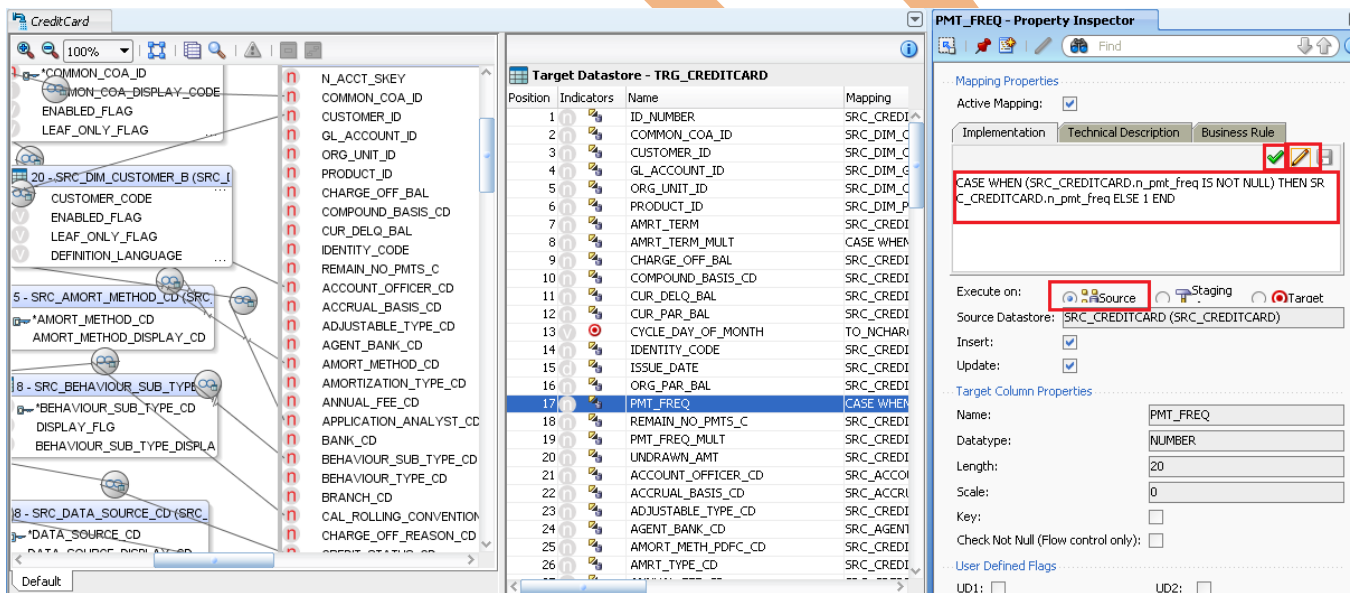
OK

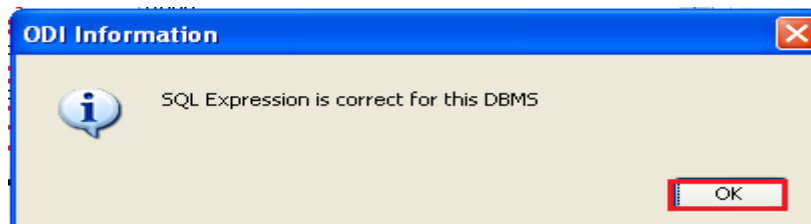
Step: 5 Return to Mapping tab, select column and click on  button then insert SQL Query to select column and select Function and the click APPLY and the click OK. Then check SQL Query is correct or not to click on  button.



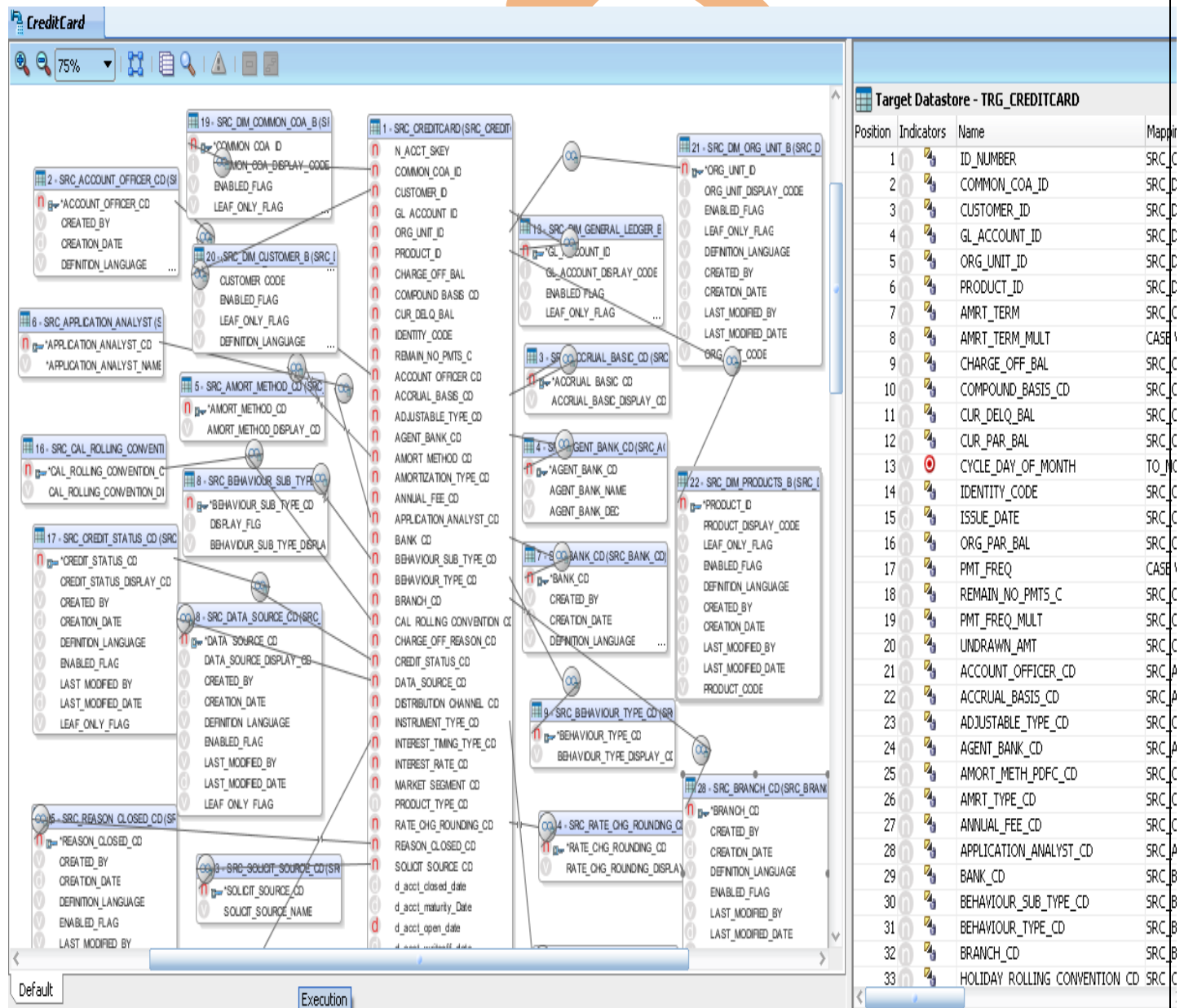


Step: 6 Return to Mapping tab, select column and click on button then insert SQL Query to select column and select Function and the click APPLY and the click OK. Then check SQL Query is correct or not to click on button.





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



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.

The screenshot displays the 'CreditCard' data integration tool interface. The main workspace shows a flow diagram with three components: 'SrcSet0 (src_credit_card)', 'Staging Area (Trg_CreditCard)', and 'Target (Trg_CreditCard)'. The 'SrcSet0' component contains four source tables: 'SRC_INSTRUMENT_TYPE_CD', 'SRC_REASON_CLOSED_CD', 'SRC_RATE_CHG_ROUNDING_CD', and 'SRC_INTEREST_TIMING_TYPE_CD'. The 'Staging Area' component contains a 'Default - Staging Area (Trg_CreditCard)' table, which is connected to the 'Target' component. The 'Target' component contains a 'TRG_CREDITCARD' table. The 'Flow' tab is selected in the bottom navigation bar.

The 'SrcSet0 - Property Inspector' panel on the right shows the 'Source Set Properties' for 'SrcSet0'. The 'LKM Selector' is set to 'LKM MSSQL to Oracle (BCP/SQLLDR)'. The 'Options' section lists various configuration parameters:

Name	Value
FIELD_SEPARATOR	<default>:\b
RECORD_SEPARATOR	<default>:
WORK_TABLE_OPTIONS	<default>:NOLOGGING
DEFAULT_DIRECTORY	<default>:
LOA_DIRECT	<default>:false
TRAILING_NULLCOLS	<default>:true
LOA_ERRORS	<default>:0
DELETE_TEMPORARY_...	<default>:true

The 'DESCRIPTION' field on the right indicates: 'Server to Oracle BCP and SQLLDR - A server and a target server'.

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.

Target Area - Property Inspector

Target Properties

Distinct Rows: ☒

IKM Selector: **IKM SQL Control Append**

Options:

Name	Value
INSERT	<default>:true
COMMIT	<default>:true
FLOW_CONTROL	false
RECYCLE_ERRORS	<default>:false
STATIC_CONTROL	<default>:false
TRUNCATE	<default>:false
DELETE_ALL	true
CREATE_TARG_TABLE	true

COMPONE
COMPONE
AUTHOR:
COMPATI

Description
- Integrat
- Integrat
target tat
- Data car
the Error

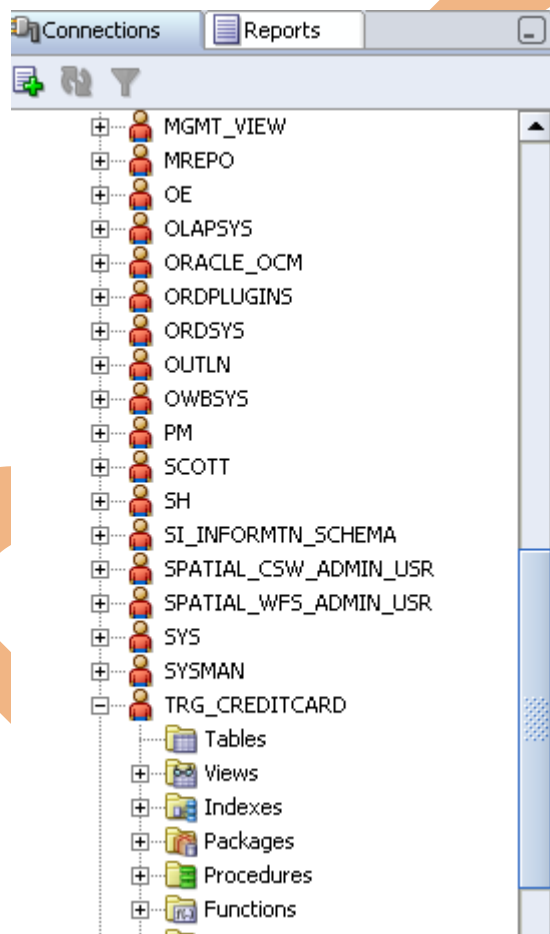
Restriction
- Mibea.u

Overview Mapping Quick-Edit Flow Controls Scenarios Execution

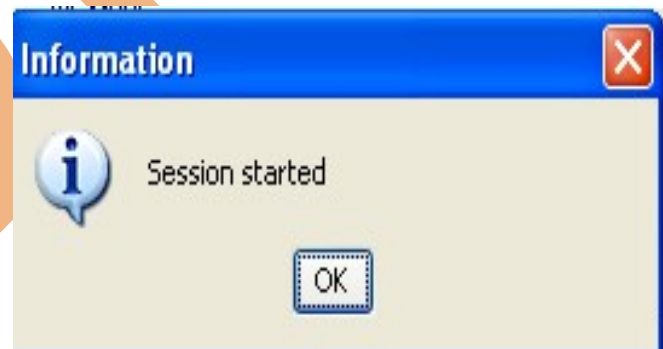
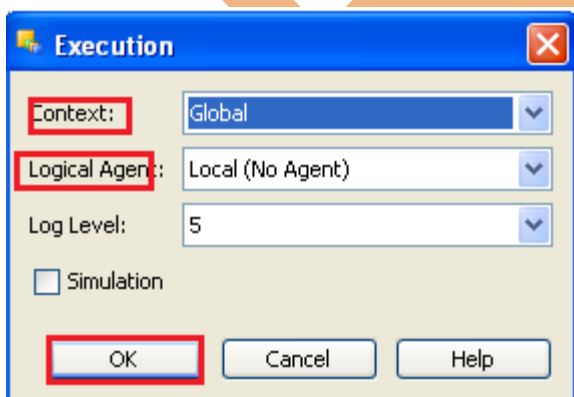
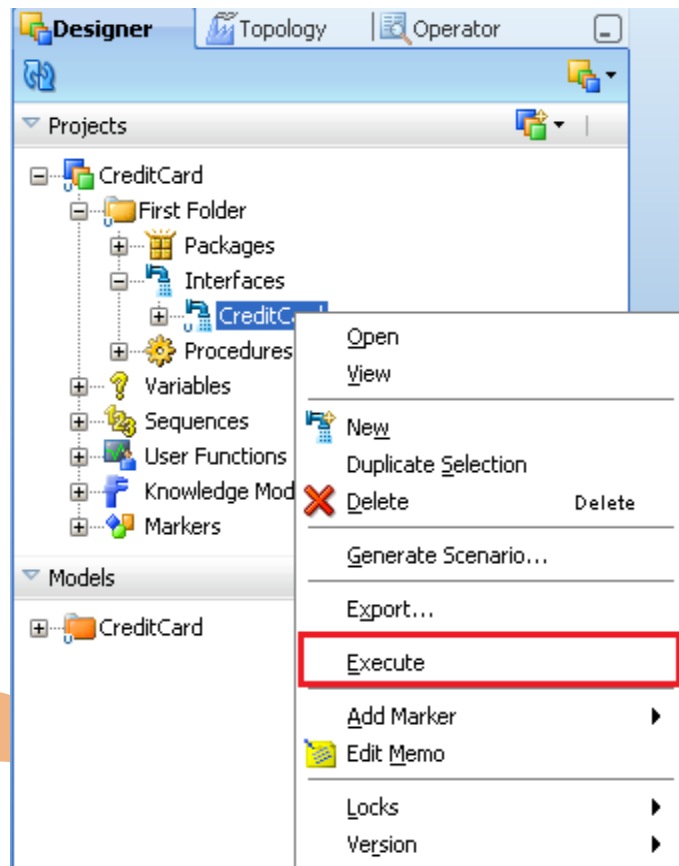
7. Execute Interface.

7.1 Target table Schema before execute Session.

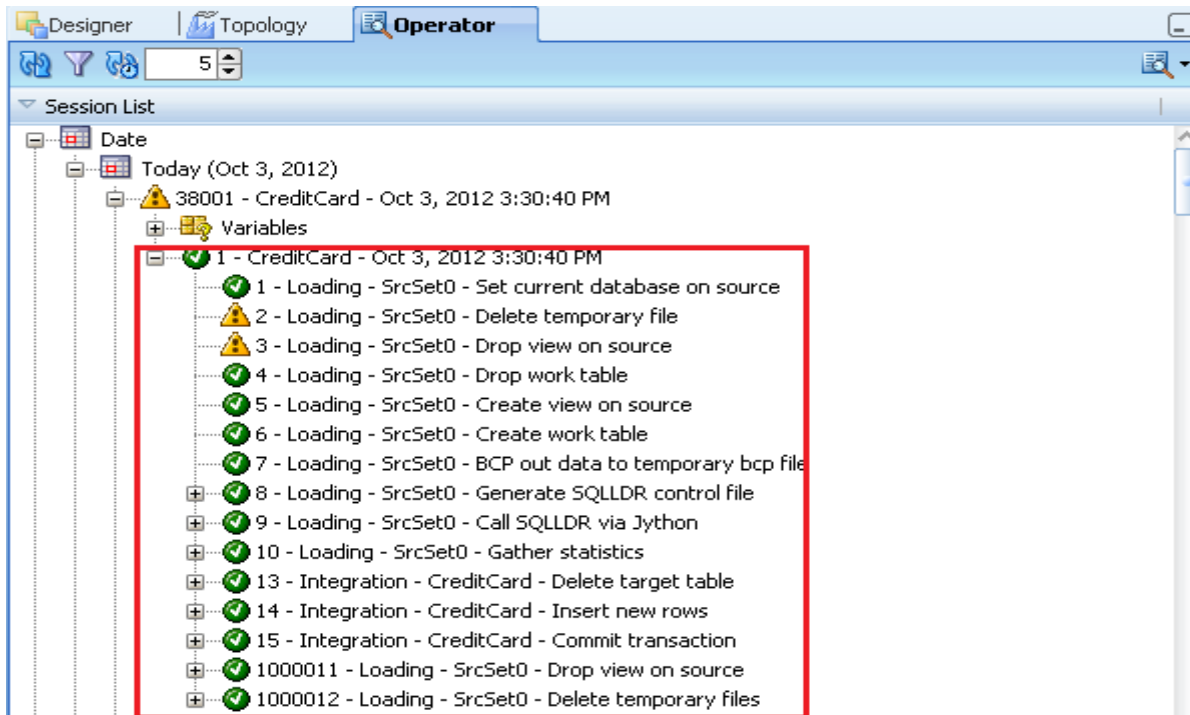
Step: 1 Open Oracle 11g, and Open TRGMORTGAGE, and table is empty.



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.



Step: 3 In Operator Navigator, Check session execution.



Step: 4 Open CreditCard Execution window.

Session Step: CreditCard

Definition

Privileges

Session Step

Step Name: CreditCard

Status: Done

Step Type: Flow (Interface)

Execution Context: Global

Order Number:

No. of Executions: 1

Record Statistics

No. of Inserts: 9

No. of Updates: 0

No. of Deletes: 9

No. of Errors: 1

No. of Rows: 20

Maximum errors allowed: %

Execution Statistics

Start: Oct 3, 2012 3:30:40 PM

End: Oct 3, 2012 3:30:44 PM

Duration (seconds): 4

Return Code: 0

Target Table Details

Message:

Step: 4 Execution for Target Integration.

Session Task: Integration

Definition

Code

Connection

Privileges

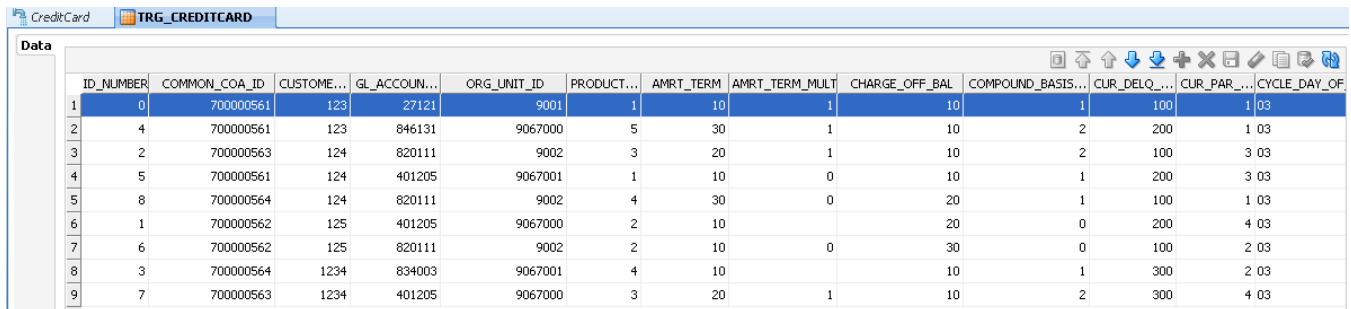
Target Code

Query/Execution Plan

```
insert into TRG_CREDITCARD.TRGCREDIT_CARD
(
    ID_NUMBER,
    COMMON_COA_ID,
    CUSTOMER_ID,
    GL_ACCOUNT_ID,
    ORG_UNIT_ID,
    PRODUCT_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,
    PMT_FREQ,
    REMAIN_NO_PMTS_C,
    ACCOUNT_OFFICER_CD,
    ACCRUAL_BASIS_CD,
    ADJUSTABLE_TYPE_CD,
    AGENT_BANK_CD,
    AMORT_METH_PDFC_CD,
    AMRT_TYPE_CD,
    ANNUAL_FEE_CD,
    APPLICATION_ANALYST_CD,
    BANK_CD
)
```

7.2 Target table After execute Session.

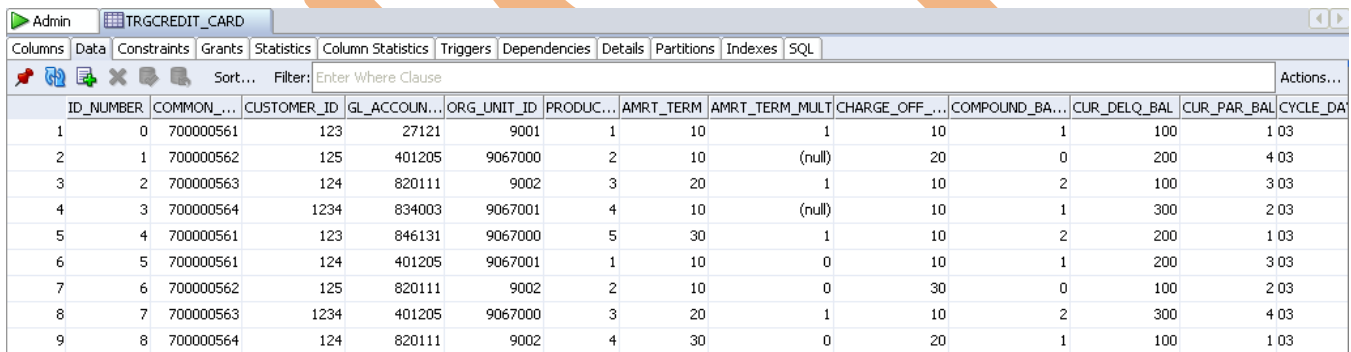
Step: 1 Target Data in ODI, Go to Model tab>TRG_CREDITCARD>Right click on TRG_Mortgage>select view data.



The screenshot shows the ODI Data view for the TRG_CREDITCARD table. The table has 13 columns: ID_NUMBER, COMMON_COA_ID, CUSTOMER_ID, GL_ACCOUNT_ID, ORG_UNIT_ID, PRODUCT_ID, AMRT_TERM, AMRT_TERM_MULT, CHARGE_OFF_BAL, COMPOUND_BASIS, CUR_DELO_BAL, CUR_PAR_BAL, and CYCLE_DAY_OF_YEAR. The data is displayed in a grid with 9 rows.

ID_NUMBER	COMMON_COA_ID	CUSTOMER_ID	GL_ACCOUNT_ID	ORG_UNIT_ID	PRODUCT_ID	AMRT_TERM	AMRT_TERM_MULT	CHARGE_OFF_BAL	COMPOUND_BASIS	CUR_DELO_BAL	CUR_PAR_BAL	CYCLE_DAY_OF_YEAR
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
3	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.



The screenshot shows the Oracle 11g Data view for the TRGCREDIT_CARD table. The table has 13 columns: ID_NUMBER, COMMON_COA_ID, CUSTOMER_ID, GL_ACCOUNT_ID, ORG_UNIT_ID, PRODUCT_ID, AMRT_TERM, AMRT_TERM_MULT, CHARGE_OFF_BAL, COMPOUND_BASIS, CUR_DELO_BAL, CUR_PAR_BAL, and CYCLE_DAY_OF_YEAR. The data is displayed in a grid with 9 rows.

ID_NUMBER	COMMON_COA_ID	CUSTOMER_ID	GL_ACCOUNT_ID	ORG_UNIT_ID	PRODUCT_ID	AMRT_TERM	AMRT_TERM_MULT	CHARGE_OFF_BAL	COMPOUND_BASIS	CUR_DELO_BAL	CUR_PAR_BAL	CYCLE_DAY_OF_YEAR
1	0	700000561	123	27121	9001	1	10	1	10	1	100	1 03
2	1	700000562	125	401205	9067000	2	10	(null)	20	0	200	4 03
3	2	700000563	124	820111	9002	3	20	1	10	2	100	3 03
4	3	700000564	1234	834003	9067001	4	10	(null)	10	1	300	2 03
5	4	700000561	123	846131	9067000	5	30	1	10	2	200	1 03
6	5	700000561	124	401205	9067001	1	10	0	10	1	200	3 03
7	6	700000562	125	820111	9002	2	10	0	30	0	100	2 03
8	7	700000563	1234	401205	9067000	3	20	1	10	2	300	4 03
9	8	700000564	124	820111	9002	4	30	0	20	1	100	1 03