

OWB to ODI

- integratie
- migratie
- herdefinitie
- eliminatie

Integratie

■ Wanneer

- Nieuw project gebruikt bestaande functionaliteit
- Tekortkomingen in bestaande scheduling methodiek

■ Hoe

- OdiStartOwbJob()

■ Wat

- process flow
- mapping

The screenshot displays the Oracle Data Integrator (ODI) interface. The main workspace shows a process flow with four steps: 'OdiStartOwbJob MAP_EMP', 'OdiStartOwbJob M...', 'OdiStartOwbJob M...', and 'MAP_STG_EMP'. The 'Properties' panel is open, showing the 'General' tab for the 'OdiStartOwbJob' step. The 'Step name' is 'OdiStartOwbJob MAP_EMP'. Below is a table of parameters:

Parameter	Value
Workspace Name	OWB
Location Name	LOC_SCOTT_STAGING
Object Name	MAP_EMP
Object Type	PLSQL Map
Execution Parameters	
Context Code	Global
Polling Interval	
Log Level	
Synchronous / Asynchronous	
Session Name	
Keywords	[]

Migratie

■ Wanneer

- Development in progress

■ Hoe

- ODI Migration Utility (patch no 17547241)

■ Wat:

EXTERNAL_TABLE **FLAT_FILE_MODULE** **FLAT_FILE**
GENERIC_FOLDER **GENERIC_MODULE** **LOCATION**
MODULE MAPPING **MATERIALIZED_VIEW**
PLUGGABLE_MAPPING **PLUGGABLE_MAPPING_FOLDER** **PROJECT**
SAP_MODULE **SEQUENCE** **TABLE VIEW**

Niet d.m.v. Migration Utility

table (partitions, attribute sets, data rules)

view (attribute sets, data rules)

materialized view (partitions, attribute sets, data rules)

external table (data rules, locations)

sequence (columns)

dimensional modeling metadata Oracle Discoverer metadata and derived Oracle Business Intelligence Suite Enterprise Edition (OBI EE) metadata

custom PL/SQL (procedure, package, and so on)

queues, streams, CDC (Change Data Capture) configurations, user-defined types

process flow

mappings using dimension and cube, cursor-based maps, name and address, match-merge, data rules, data auditors, iterators, expand, construct, Anydata Cast

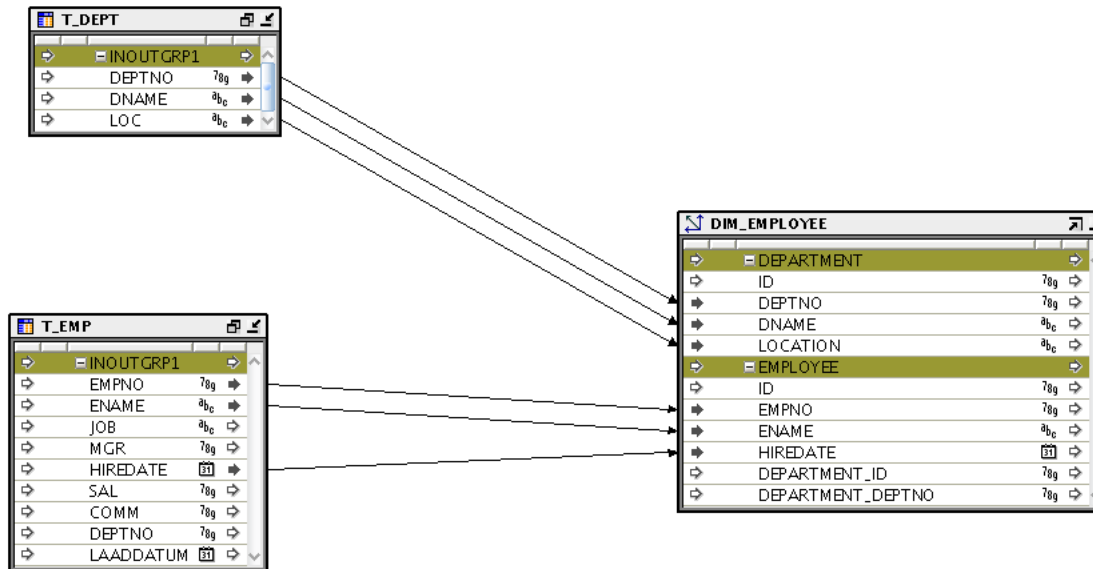
data quality, data profiles, data auditors

configuration details (security, user extensions, transportable modules, schedules/collections, user folders)

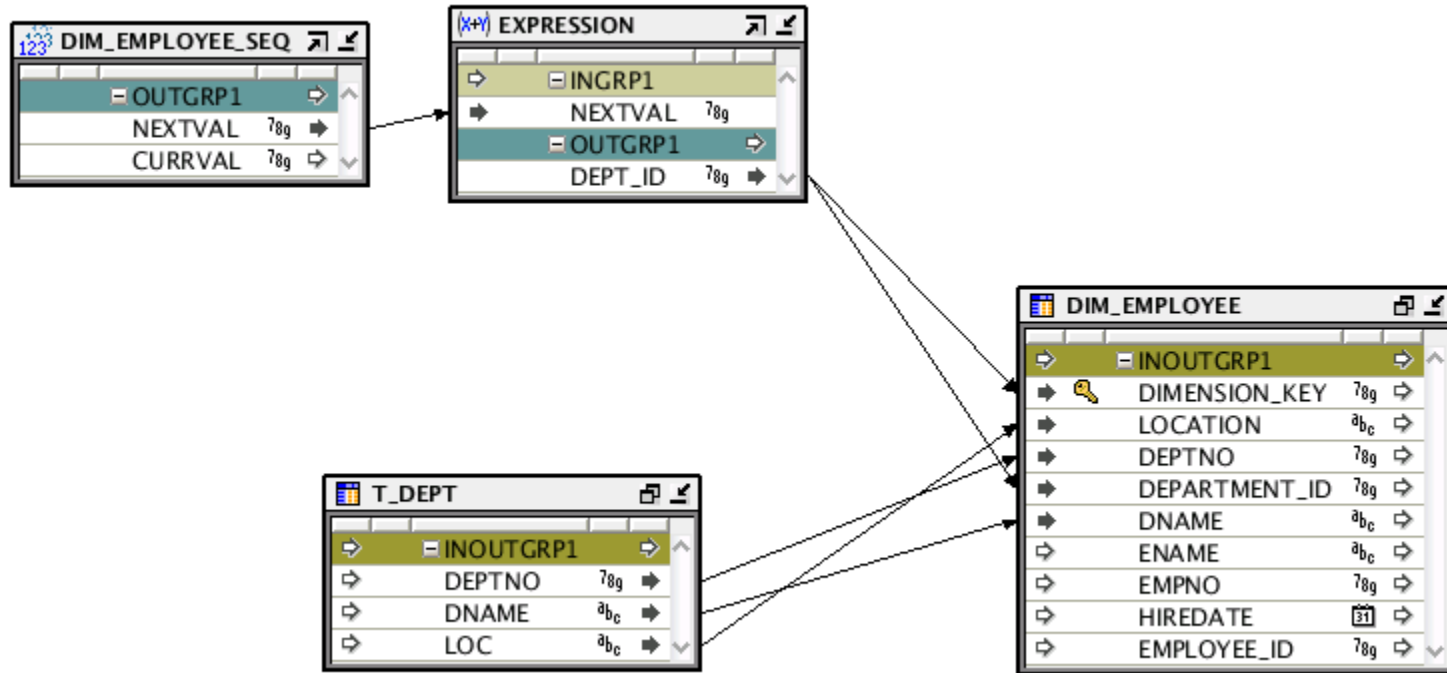
OWB Experts

OMB*Plus scripts

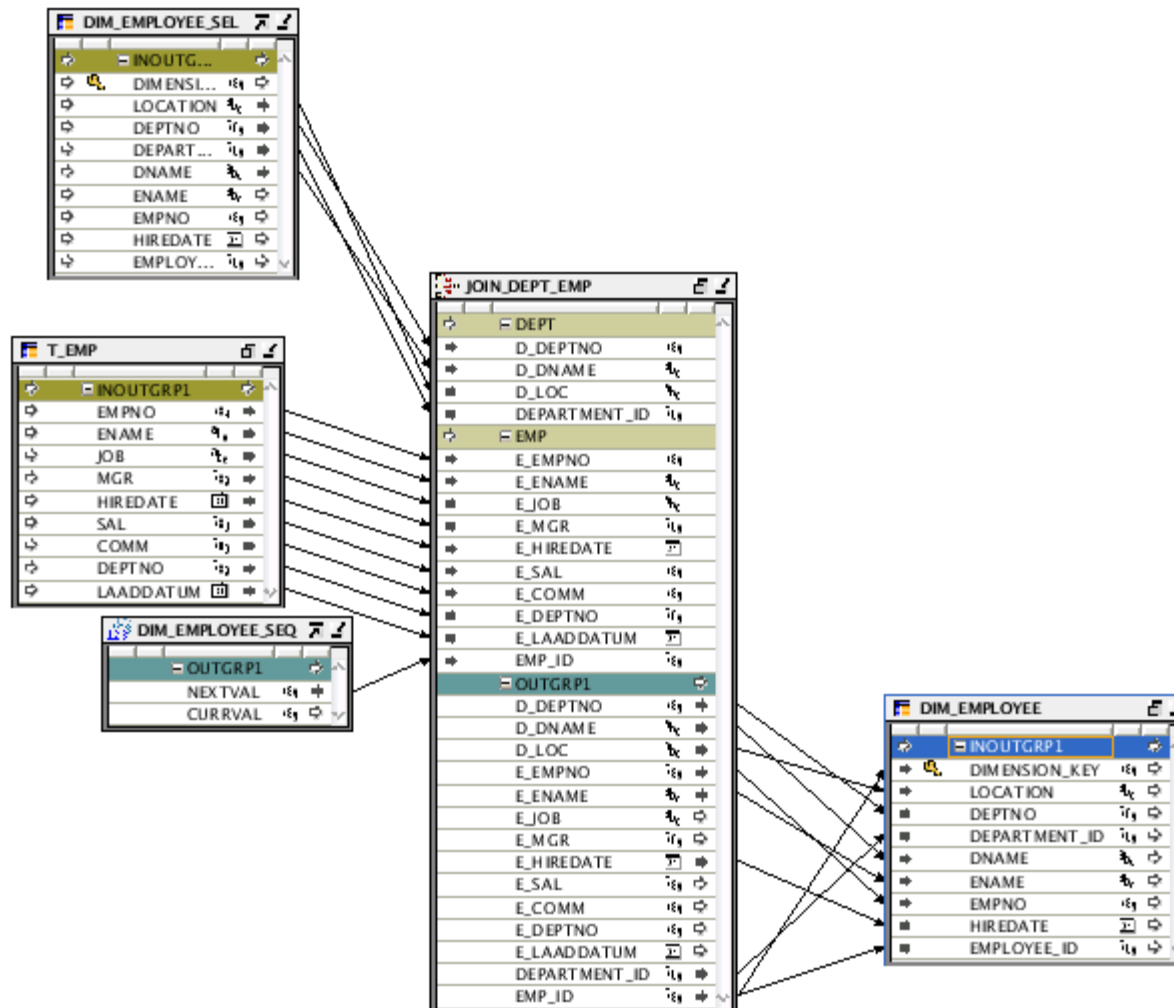
Mapping met Dimension operator



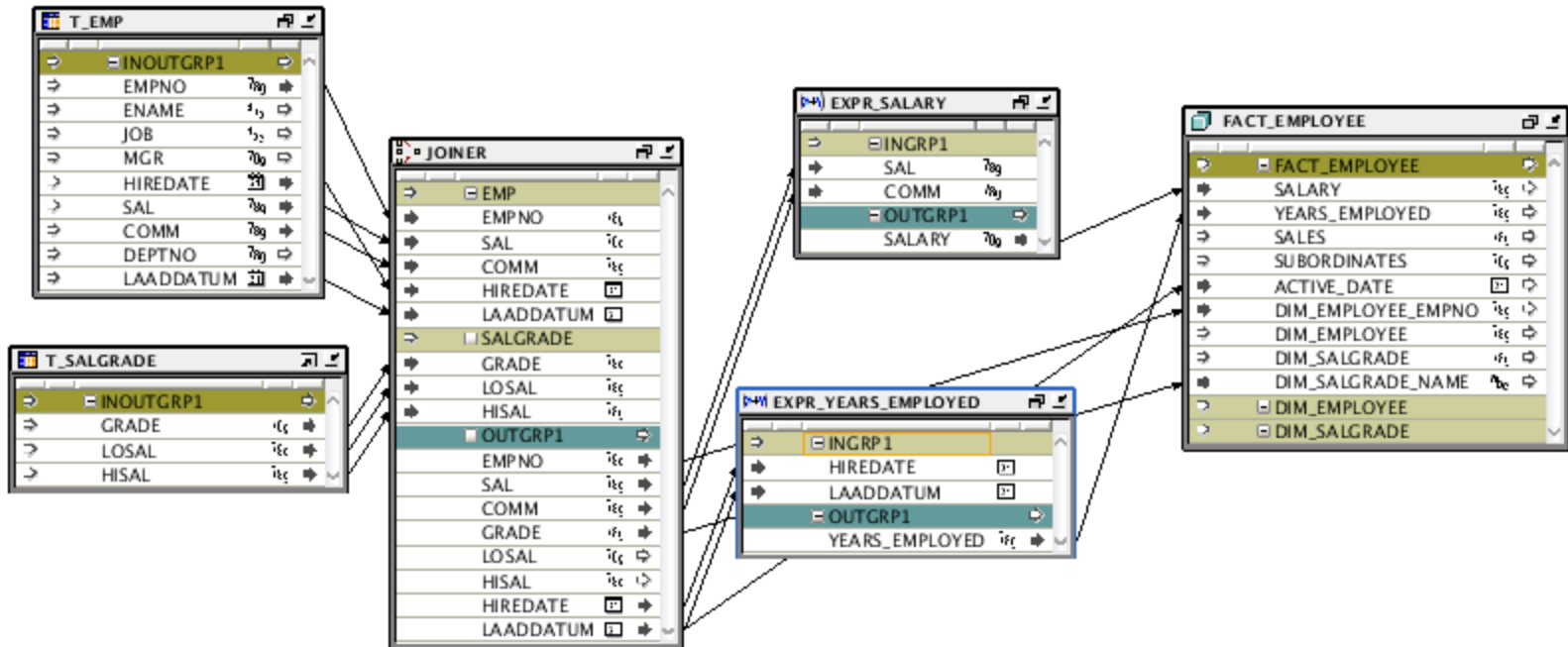
Vervangen door 2 mappings (dept)



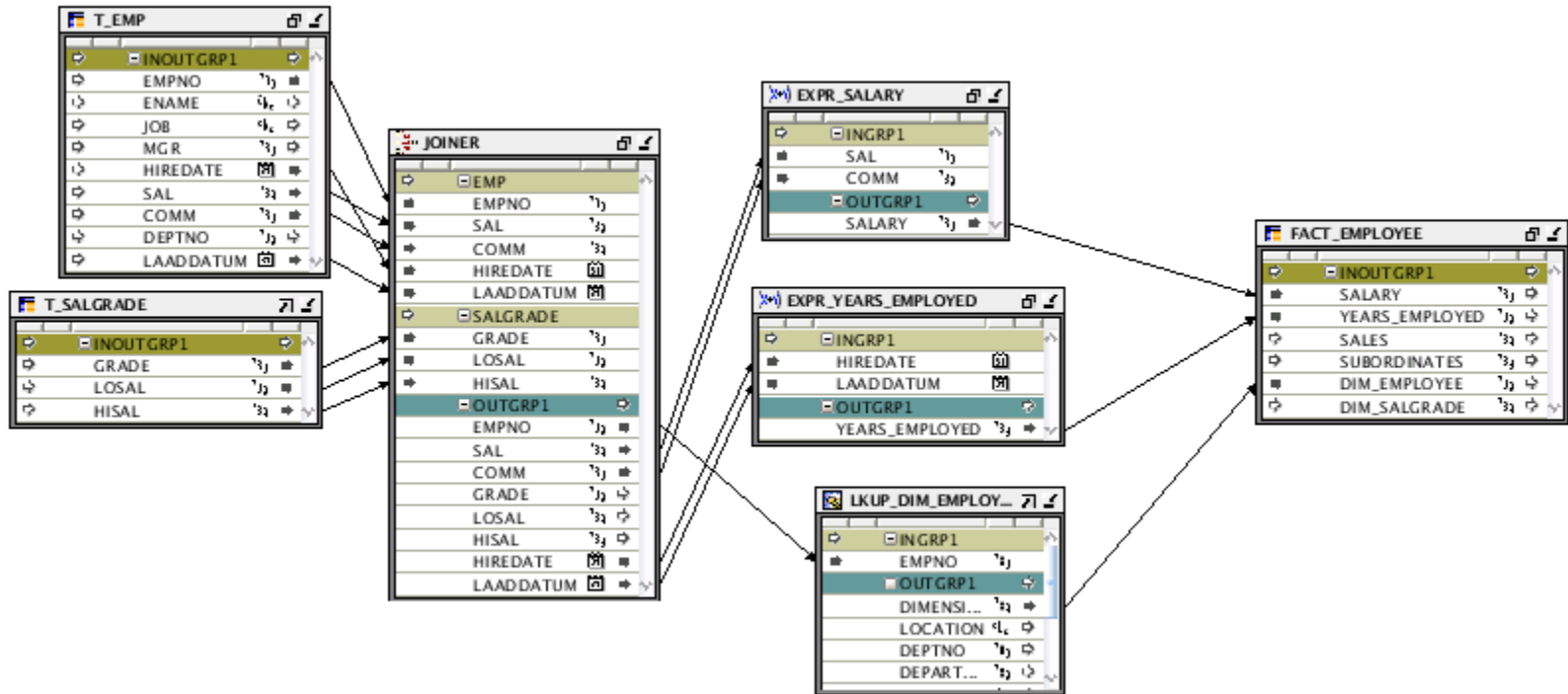
Vervangen door 2 mappings (emp)



Mapping met cube



Vervangen door Lookup



Herdefinitie

■ Wanneer

- Definitie storage objecten in ander tool
- Minimale herbouw
- Herontwerp transformaties vereist

■ Hoe

- Reverse-engineering van datamodel
- Handmatig (intelligent / redesign)
- AI doende leert men
- Stap voor stap (MoSCoW)

■ Wat

- Mappings en process flows

Eliminatie

■ When

- Stabiele applicatie
- Budget gelimiteerd

■ Hoe

- Generated intermediate result in stored procedure
- Execution door external process

■ Wat

- Mappings

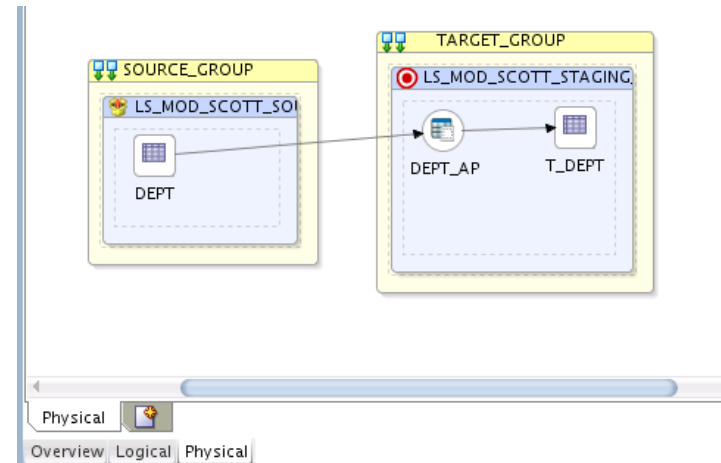
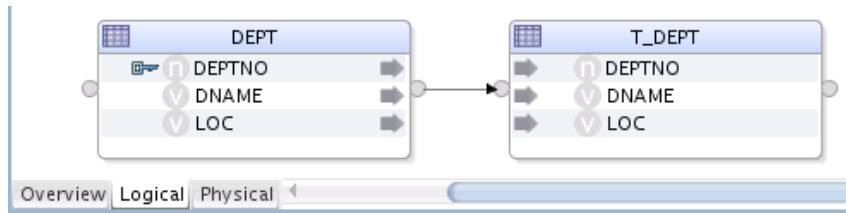
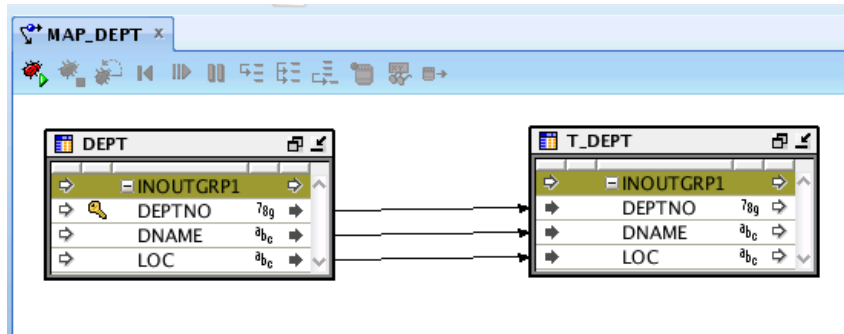
Conclusie

- De tijd is rijp om over migratie na te denken
- Migratiepad is omgeving / mapping afhankelijk
- Bewuste keuze maken om business te kunnen blijven bedienen
- Voordelen van nieuwe functionaliteit ODI moeten bijdragen aan business behoefte

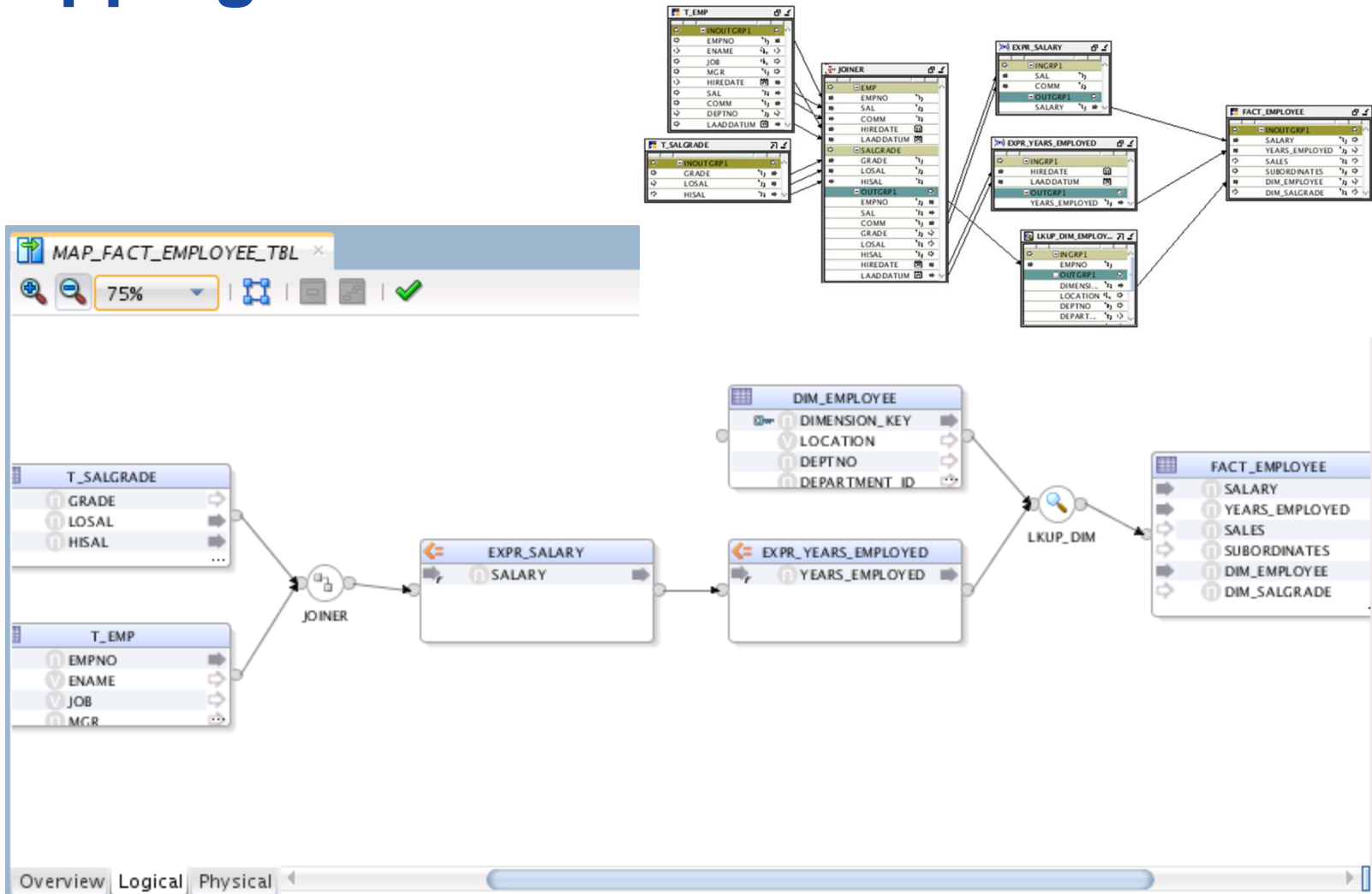
ODI Migration Utility

Demo

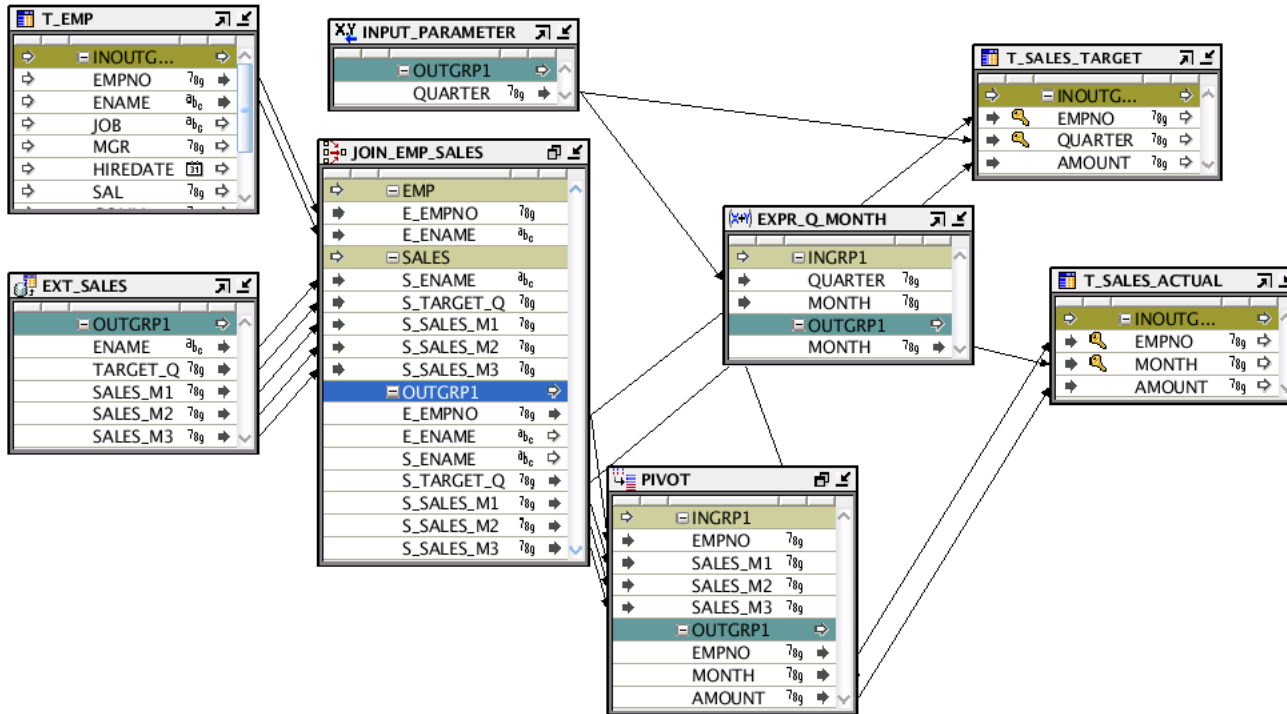
Eenvoudige mapping



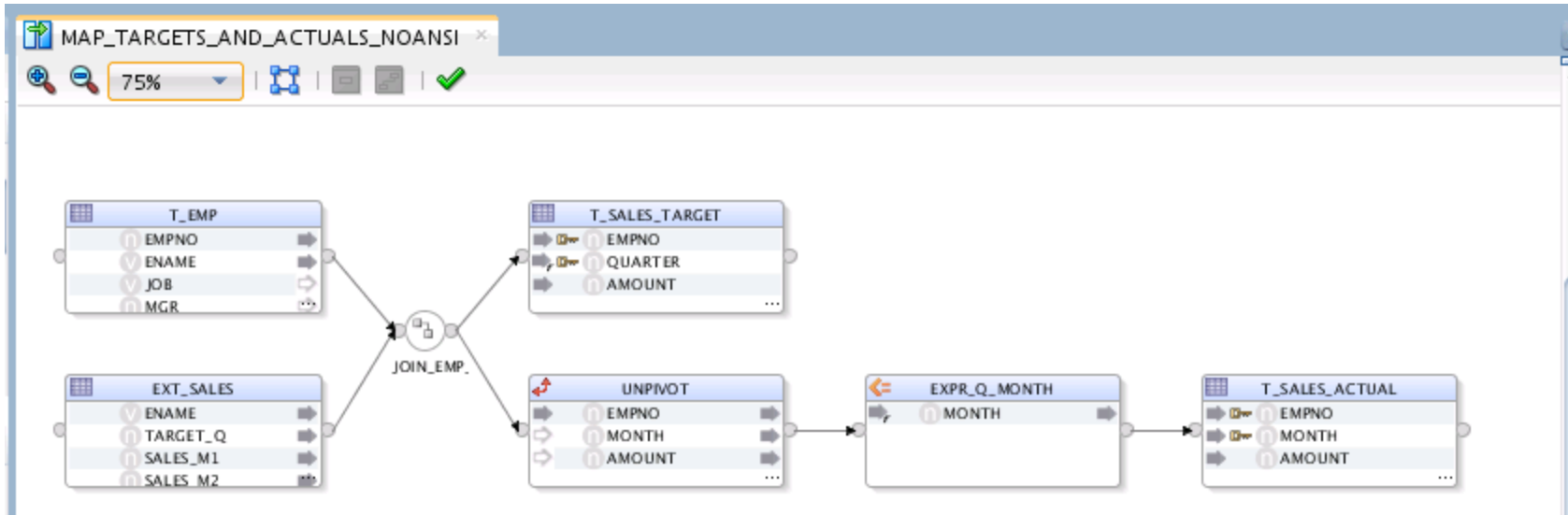
Mapping met Lookup in ODI



Complexere mapping (pivot)



Mapping met Pivot in ODI



simulatie

migration.config

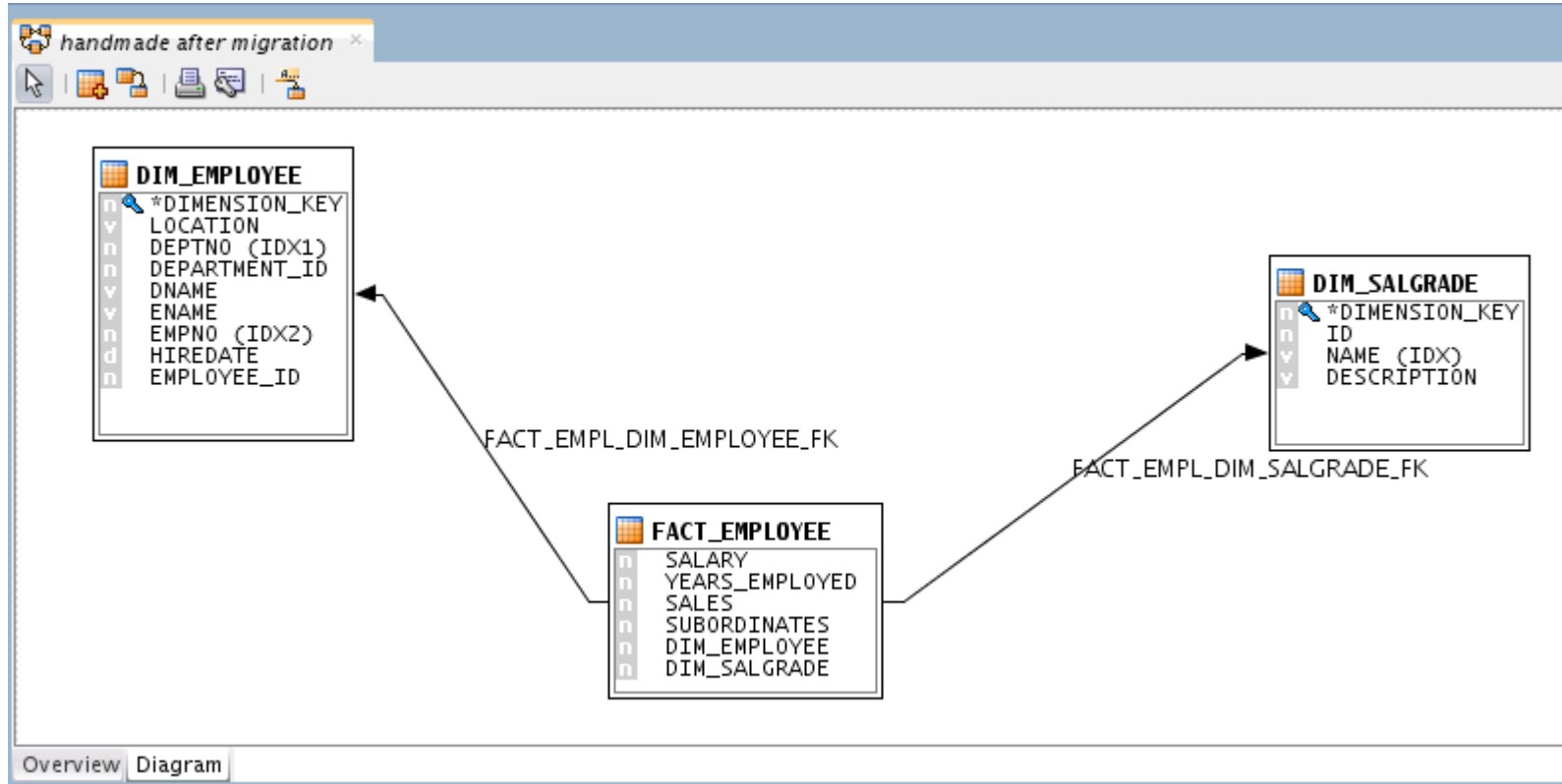
■ Objects

- specify the objects to be migrated

■ Mode

- Fast check: which objects can or cannot be migrated
- Dry Run: with more detailed/accurate reasons
- Run: real migration

Dimensional Model



Topology

LOC_SCOTT_STAGING.OWB_SCOTT_STAGING

Definition Physical Schema [Data Server: LOC_SCOTT_STAGING]

Context

Version Name: LOC_SCOTT_STAGING.OWB_SCOTT_STAGING

Privileges Schema (Schema): OWB_SCOTT_STAGING

Flexfields Schema (Work Schema): OWB_SCOTT_STAGING

Default

REPDB.OWB_SCOTT_STAGING

Definition Physical Schema [Data Server: REPDB]

Context

Version Name: REPDB.OWB_SCOTT_STAGING

Privileges Schema (Schema): OWB_SCOTT_STAGING

Flexfields Schema (Work Schema): ODI_WORK

Default

REPDB.OWB_SCOTT_STAGING

Context

Context	Logical Schema
Migrated	LS_MOD_SCOTT_STAGING_OWBCURSUS

OracleDIAgent

Definition Logical Agent

Privileges Name: OracleDIAgent

Context	Physical Agents
Global	OracleDIAgent
Migrated	OracleDIAgent
Nederland	OracleDIAgent
Portugal	OracleDIAgent

Loadplan

run migrated mappings x

Validate

Definition

Steps

Exceptions

Variables

Privileges

Version

Flexfields

#	Steps Hierarchy	Ena...	Scenario/Variable	Restart	Context	Logical Agent
0	root_step	<input checked="" type="checkbox"/>		Restart from failure		
1	Serial	<input checked="" type="checkbox"/>		Restart from failure		
2	Parallel	<input checked="" type="checkbox"/>		Restart all children		
3	MAP_DEPT	<input checked="" type="checkbox"/>	MAP_DEPT Version 001	Restart from new session		
4	MAP_EMP	<input checked="" type="checkbox"/>	MAP_EMP Version 001	Restart from new session		
5	MAP_SALGRADE	<input checked="" type="checkbox"/>	MAP_SALGRADE Version 001	Restart from new session		
6	MAP_TARGETS_AND_ACTI	<input checked="" type="checkbox"/>	MAP_TARGETS_AND_ACTU...	Restart from new session		

Execution

The screenshot shows a window titled "Session Task Load T_DEPT - IKM Oracle Insert". On the left, a sidebar contains tabs for "Definition", "Code", "Connection", and "Privileges", with "Code" selected. The main area shows "Code Type: Executed Code" and a section for "Target Code" containing the following SQL script:

```
1  
2 INSERT  
3 /*+ APPEND PARALLEL */  
4 INTO OWB_SCOTT_STAGING.T_DEPT  
5 (  
6   DEPTNO ,  
7   DNAME ,  
8   LOC  
9 )  
10 SELECT  
11 DEPT.DEPTNO ,  
12 DEPT.DNAME ,  
13 DEPT.LOC  
14 FROM  
15 SCOTT.DEPT@LOC_SCOTT DEPT
```

At the top of the code editor, there is a button labeled "Edit and use as Pre-execution Code".

Volgende (deel-)migratie

