

**Appendices -
Additional exercises**

Add10 Pivot with column name

- ❖ The Objective is to achieve a pivot between
 - a source table containing different columns
 - and a target table containing a record per source record and column name
 - this pivot is drive by a parameter table

Parameter
table

COLUMN_NAME	PIVOT_COL
BIRTHDATE	TRUE
EMAIL	TRUE
FIRSTNAME	FALSE
ID_CUSTOMER	TRUE
LASTNAME	TRUE
MOBILE	TRUE



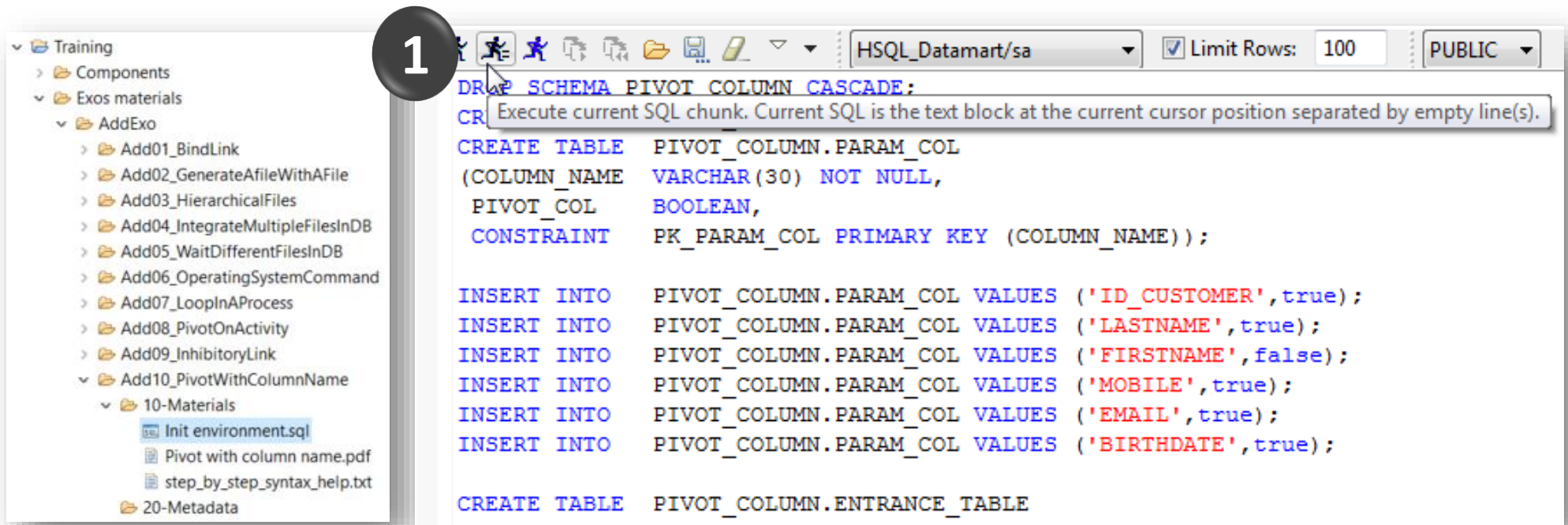
ID_REF	ID_CUSTOMER	LASTNAME	FIRSTNAME	MOBILE	EMAIL	BIRTHDATE
1	1020	Victory	Jeanne	<null>	j.victory@gmail.com	1987-05-05 11:25:52:793
2	2010	Trafalgar	Charles	0102030405	c.trafalgar@gmail.com	1997-05-05 11:25:52:793
3	2320	Waterloo	Baudoin	0504030201	<null>	1967-05-05 11:25:52:793

Source table

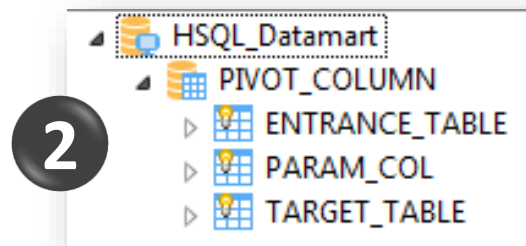
ID_REF	COLUMN_NAME	COLUMN_VALUE
1	BIRTHDATE	1987-05-05 11:25:52.793000
1	EMAIL	j.victory@gmail.com
1	ID_CUSTOMER	1020
1	LASTNAME	Victory
1	MOBILE	<null>
2	BIRTHDATE	1997-05-05 11:25:52.793000
2	EMAIL	c.trafalgar@gmail.com
2	ID_CUSTOMER	2010
2	LASTNAME	Trafalgar
2	MOBILE	0102030405
3	BIRTHDATE	1967-05-05 11:25:52.793000
3	EMAIL	<null>
3	ID_CUSTOMER	2320
3	LASTNAME	Waterloo
3	MOBILE	0504030201

Target table

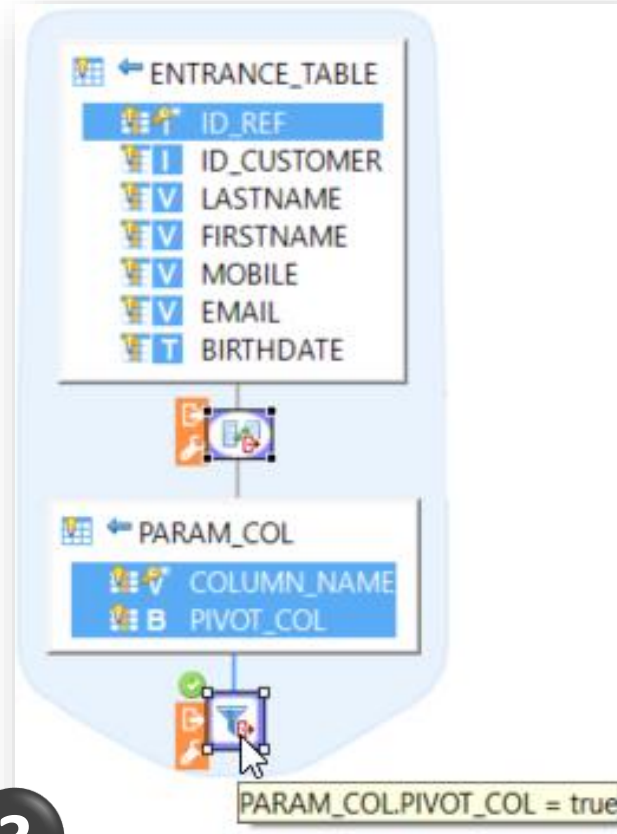
- ❖ 1 - Execute the SQL file (Init environment.sql) on DATAMART connection to create the required schema and tables on a Datamart connection



- ❖ 2 - Reverse the schema and the tables



- ❖ 3 - Create a mapping with the 2 following tables
 - Do a cross join between the entrance_table and the param_col table

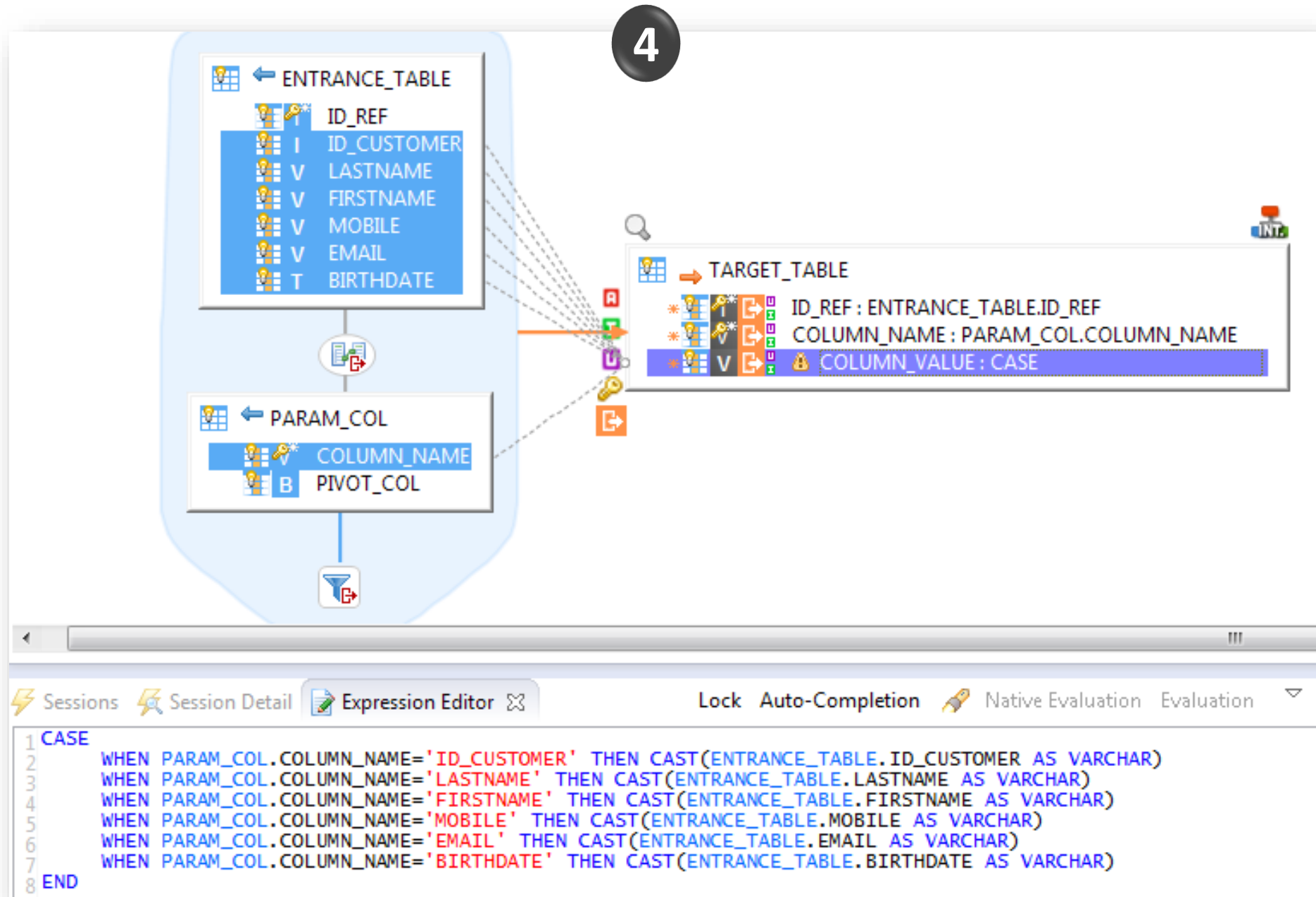


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Join PARAM_COL <-> ENTRANCE_TABLE

Standard Advanced Core Appearance	<input checked="" type="checkbox"/> Enable	Join Type <input type="radio"/> Inner <input checked="" type="radio"/> Cross <input type="radio"/> Full	Execution Location <input checked="" type="radio"/> Source <input type="radio"/> Staging Area
	Left Part PARAM_COL	<input type="radio"/> <input checked="" type="radio"/> <->	Right Part ENTRANCE_TABLE

- ❖ 4 - Add the target_table and produce the following transformations



- ❖ 5 - Execute and have a look on the target_table
 - You can change the boolean value on the pivot_col column and see the changes

Tests with
this
parameter
table

COLUMN_NAME	PIVOT_COL
BIRTHDATE	TRUE
EMAIL	TRUE
FIRSTNAME	FALSE
ID_CUSTOMER	TRUE
LASTNAME	TRUE
MOBILE	TRUE



ID_REF	COLUMN_NAME	COLUMN_VALUE
1	BIRTHDATE	1987-05-05 11:25:52.793000
1	EMAIL	j.victory@gmail.com
1	ID_CUSTOMER	1020
1	LASTNAME	Victory
1	MOBILE	<null>
2	BIRTHDATE	1997-05-05 11:25:52.793000
2	EMAIL	c.trafalgar@gmail.com
2	ID_CUSTOMER	2010
2	LASTNAME	Trafalgar
2	MOBILE	0102030405
3	BIRTHDATE	1967-05-05 11:25:52.793000
3	EMAIL	<null>
3	ID_CUSTOMER	2320
3	LASTNAME	Waterloo
3	MOBILE	0504030201

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COLUMN_NAME	PIVOT_COL
BIRTHDATE	FALSE
EMAIL	TRUE
FIRSTNAME	FALSE
ID_CUSTOMER	FALSE
LASTNAME	TRUE
MOBILE	FALSE



ID_REF	COLUMN_NAME	COLUMN_VALUE
1	EMAIL	j.victory@gmail.com
1	LASTNAME	Victory
2	EMAIL	c.trafalgar@gmail.com
2	LASTNAME	Trafalgar
3	EMAIL	<null>
3	LASTNAME	Waterloo

Tests with
this
parameter
table