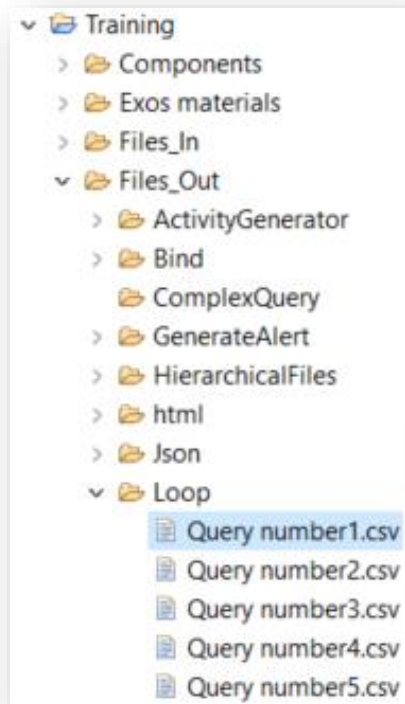


**Appendices -
Additional exercises**

Add07 Loop in a process

- ❖ The objective is to build a process with a loop to scan several times a table and export each time the data in csv files
- ❖ The scan is based on a parametrized SQL query
 - The table is “T_CUSTOMER” in the “HOTEL_MANAGEMENT” schema
 - The process is parametrized with following parameters
 - pre_from_sql_clause
 - post_from_sql_clause
 - scan_time_interval
 - number_of_scan



Query number1.csv

CUS_ID	TIT_CODE	CUS_LAST_NAME	CUS_FIRST_NAME	CUS_COMPANY	CUS_BIRTH_DATE
1	Mr	GIBBS	Jason		1975/02/15 00:00:00.000
2	Mr	O'NEAL	Michael	Springfield Ltd	1967/03/03 00:00:00.000
3	Mr	JIMENEZ	Tony		1958/05/27 00:00:00.000
4	Mr	HAMPTON	Lionel		
5	Mr	SILL	Joel		1984/11/08 00:00:00.000
6	Mr	CARTER	Rick	Buick	1979/12/16 00:00:00.000
7	Mr	BARTZ	Gary		1973/09/22 00:00:00.000
8	Ms	REEVES	Diane		1954/10/02 00:00:00.000

❖ 1 - Create a process and the four below parameters

LOOP IN A PROCESS 1

LOOP IN A PROCESS

- (s) pre_from_sql_clause [SELECT *]
- (s) post_from_sql_clause [ORDER BY cus_id]
- (i) scan_time_interval [10000]
- (i) number_of_scan [5]

(s) Parameter LOOP IN A PROCESS/pre_from_sql_clause

Standard	Name	pre_from_sql_clause
Meta-Inf	Label	
Description	Type	String
Publication	Value	SELECT *
Advanced		

(s) Parameter LOOP IN A PROCESS/post_from_sql_clause

Standard	Name	post_from_sql_clause
Meta-Inf	Label	
Description	Type	String
Publication	Value	ORDER BY cus_id
Advanced		

(i) Parameter LOOP IN A PROCESS/scan_time_interval

Standard	Name	scan_time_interval
Meta-Inf	Label	
Description	Type	Integer
Publication	Value	10000
Advanced		

(i) Parameter LOOP IN A PROCESS/number_of_scan

Standard	Name	number_of_scan
Meta-Inf	Label	
Description	Type	Integer
Publication	Value	5
Advanced		
Core		
Appearance		

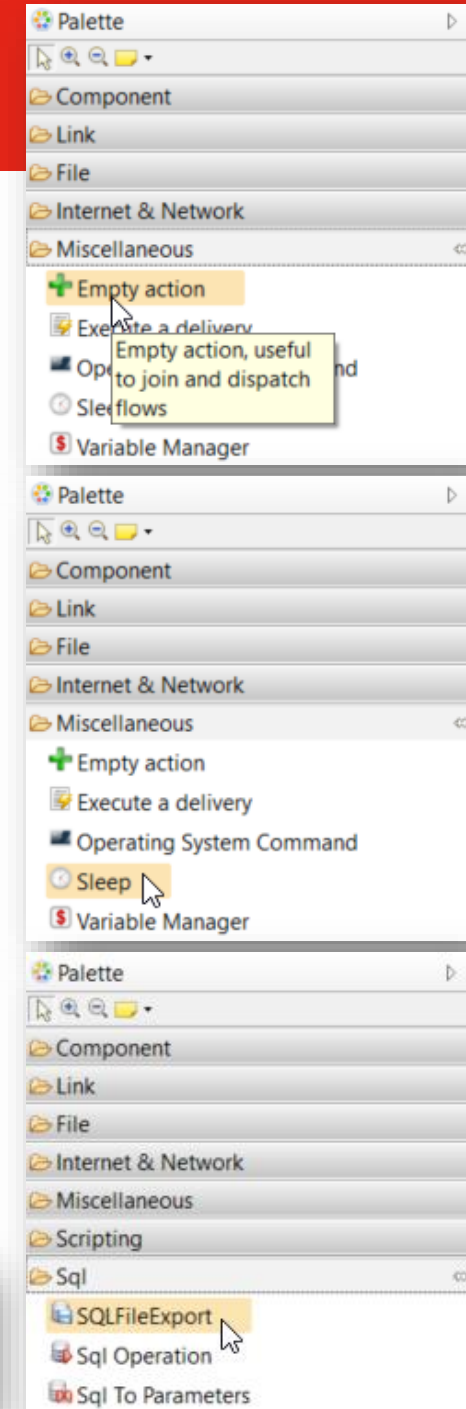
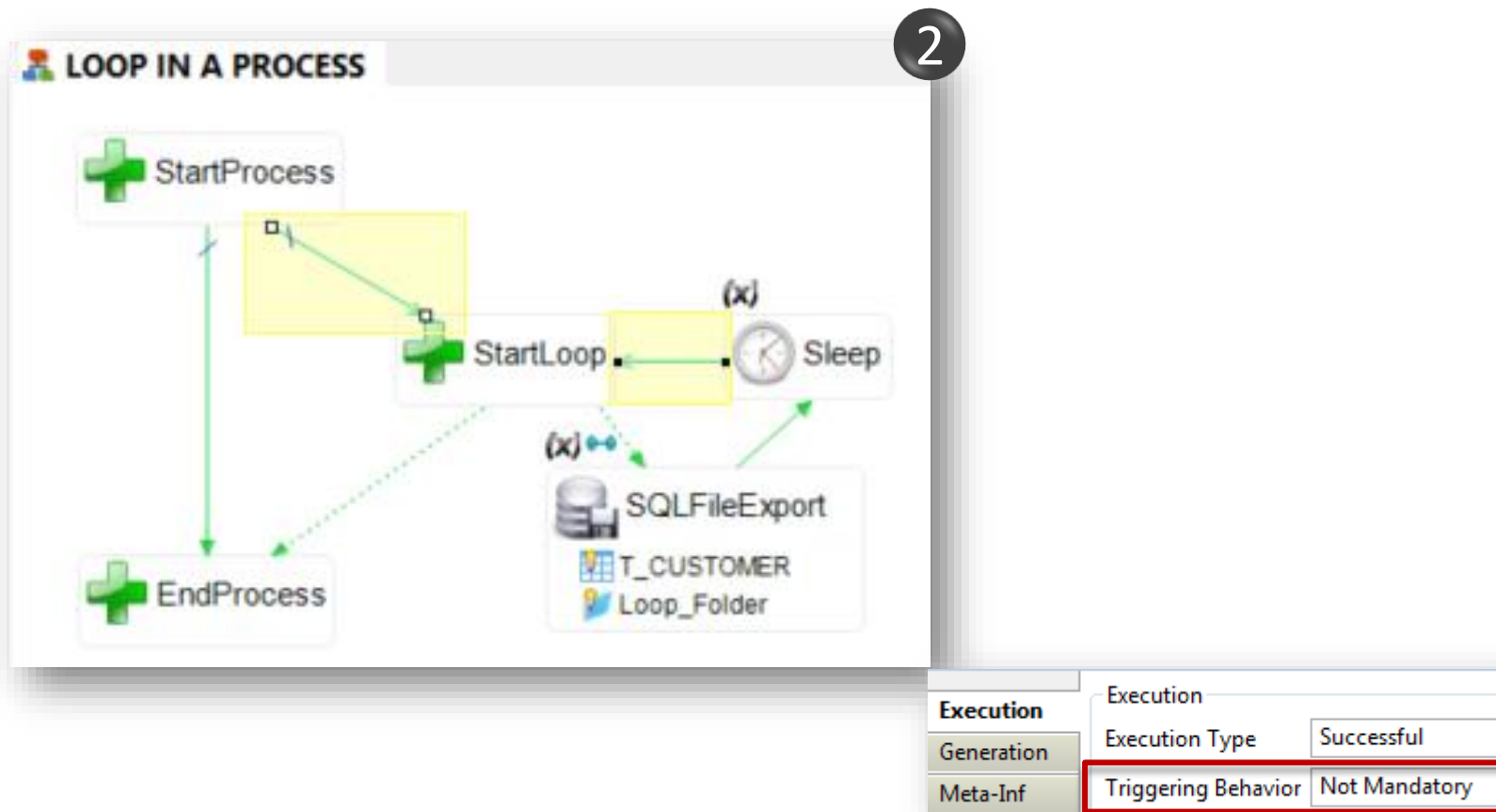
Palette

Component

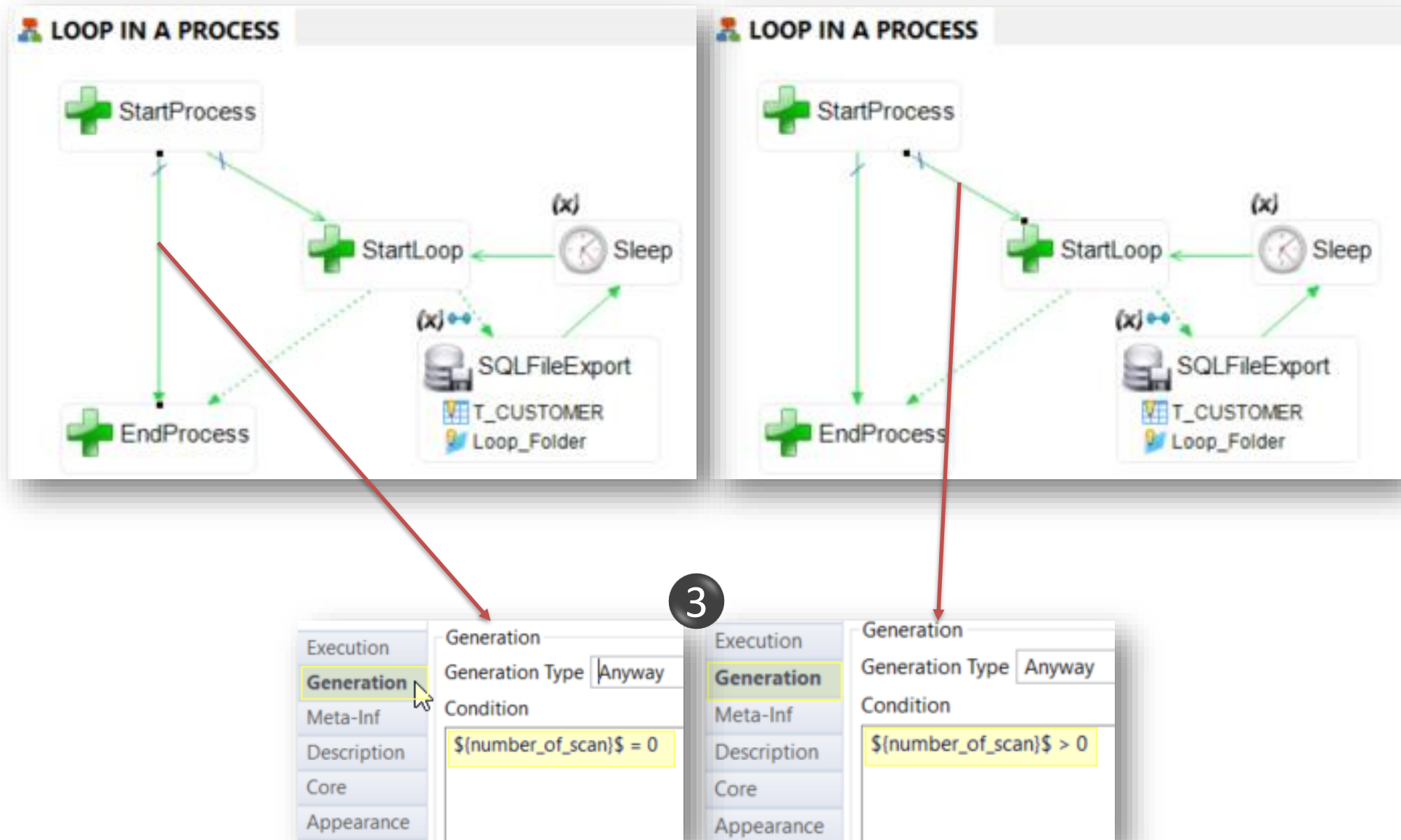
- Process
- Parameter
- Xsl Variable

Create new Parameter

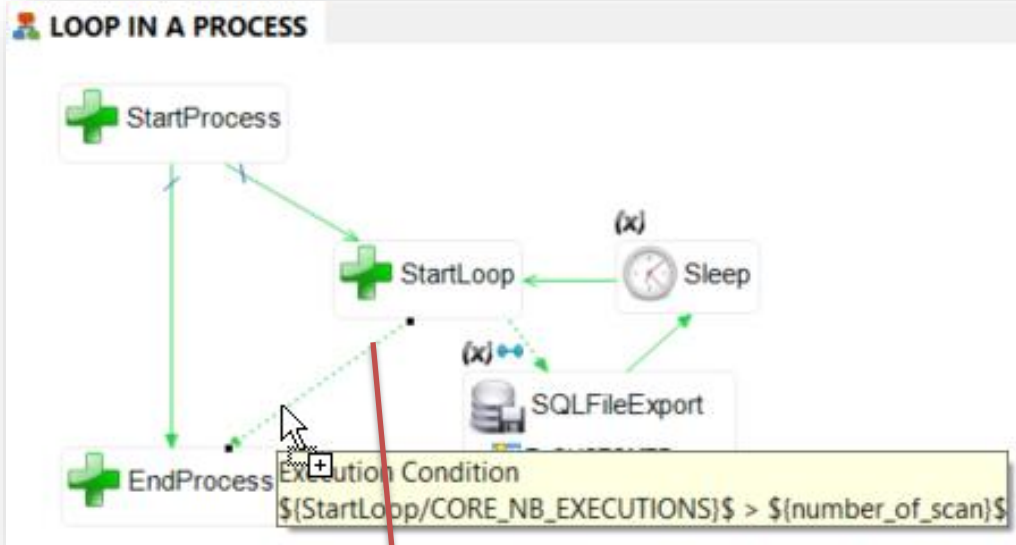
- ❖ 2 - Create 3 empty actions, a SQL File Export, a Sleep action and the links as below
 - The selected links must be set as “**Not mandatory**”



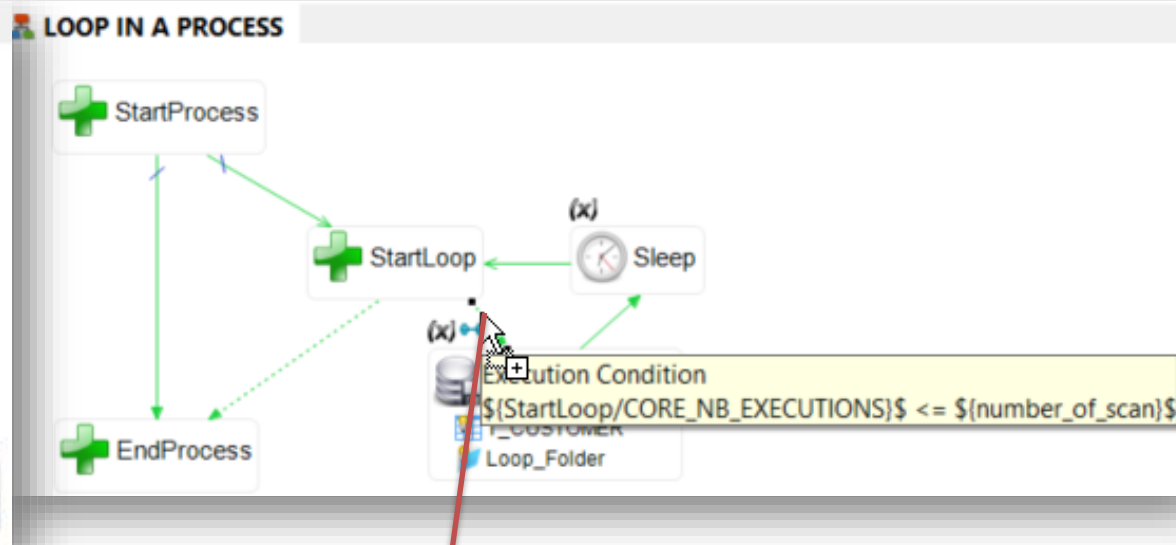
- ❖ 3 - Add the two below generation conditions



❖ 4 - Add the two below execution conditions

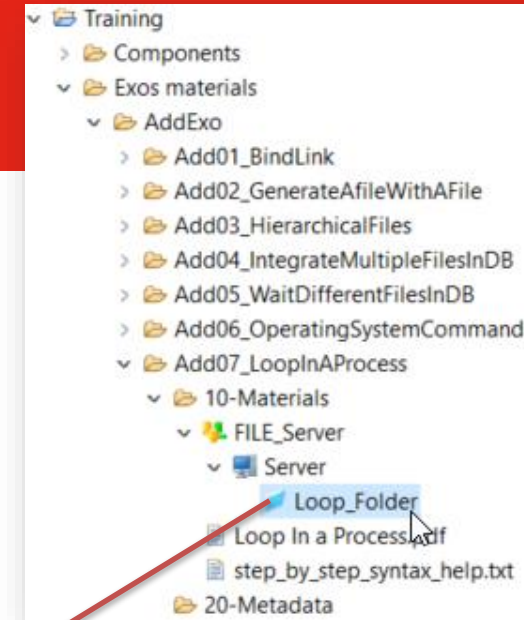


Execution	Execution
Generation	Execution Type Successful
Meta-Inf	Triggering Behavior Mandatory
Description	Condition
Core	<code>\${StartLoop/CORE_NB_EXECUTIONS}\$ > \${number_of_scan}\$</code>
Appearance	



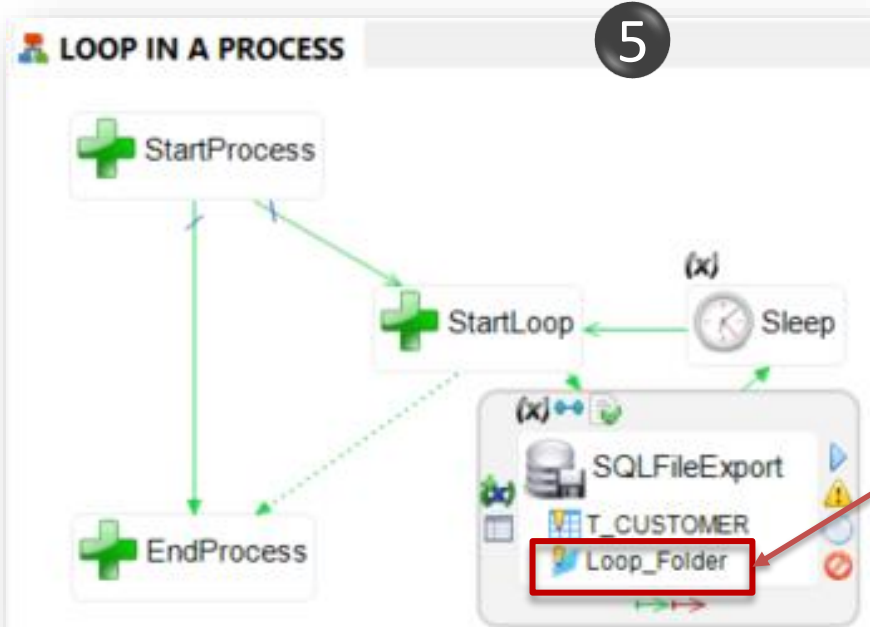
4

Execution	Execution
Generation	Execution Type Successful
Meta-Inf	Triggering Behavior Mandatory
Description	Condition
Core	<code>\${StartLoop/CORE_NB_EXECUTIONS}\$ <= \${number_of_scan}\$</code>
Appearance	



❖ 5 - Define the SQL File Export action

- Drag & drop the “Loop” folder in the SQLFileExport action
- Drag & drop T_CUSTOMER table in the SQLFileExport action
- Define the expression editor of the SQLFileExport action
- Set SQL_EXP_GENERATE_HEADER to true



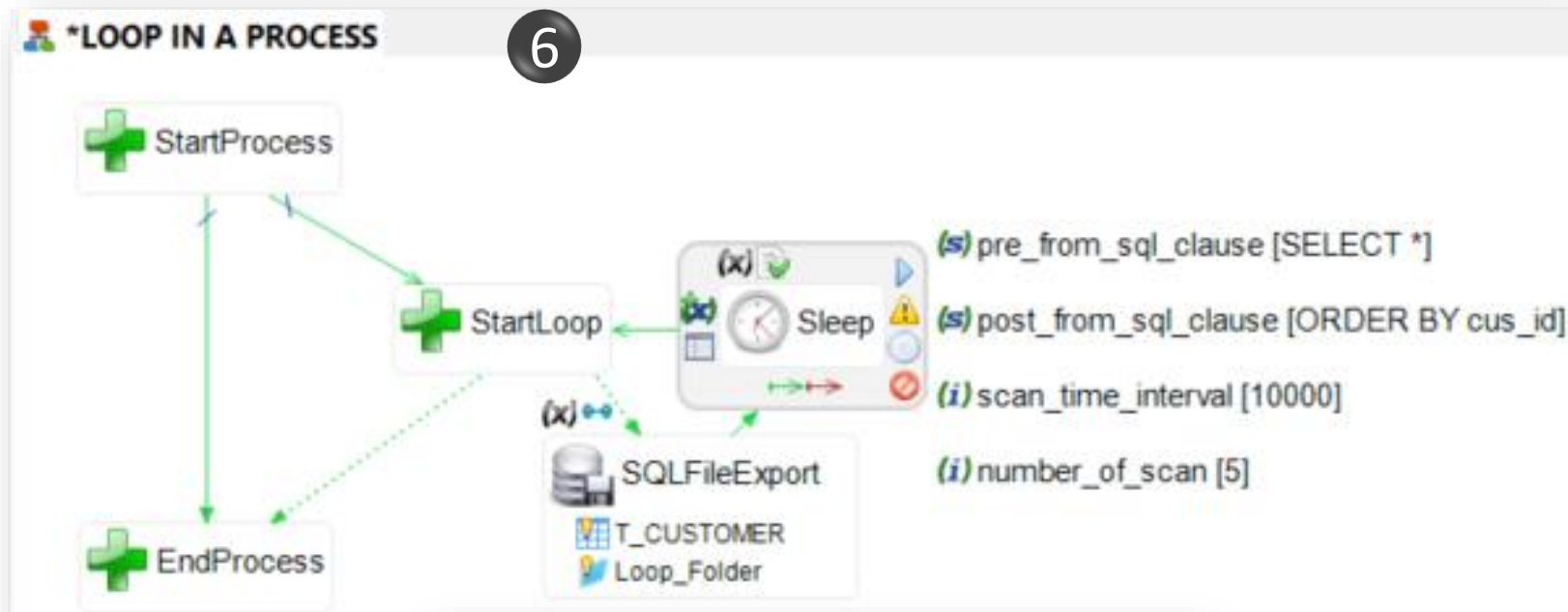
Standard	Name	SQLFileExport
Generation		
Meta-Inf		
Description		
Advanced		
Core		
	<input type="checkbox"/> Sql Exp File Append <input type="checkbox"/> Sql Exp Generate If Empty	
	<input checked="" type="checkbox"/> Sql Exp Generate Header <input type="checkbox"/> Sql Exp Add Record Number	
	<input checked="" type="checkbox"/> Sql Exp Boolean As Numeric <input type="checkbox"/> Sql Exp Absolute Numeric	
	<input type="checkbox"/> Sql Exp Row Sep On Last Row <input type="checkbox"/> Sql Exp Use Numeric Grouping Char	
	<input checked="" type="checkbox"/> Sql Exp Row Sep On First Row When Append <input type="checkbox"/> Sql Exp Enclose All Fields	
	Sql Exp Filename	%x(\$Loop_Folder/tech:path())x%/Query number\${../StartLoop/CORE_NB_EXECUTIONS}\$csv

Sessions Session Detail Expression Editor

```

1 ${~/pre_from_sql_clause}$
2 FROM %x(${T_CUSTOMER/tech:physicalPath()})x%
3 ${~/post_from_sql_clause}$
    
```

- ❖ 6 - Define the “SLEEP_DELAY” property in the Sleep action



Action Code Sleep

Standard	Name	Sleep
Generation		
Meta-Inf	<u>Sleep Delay</u>	<code>\${~/scan_time_interval}\$</code>
Description		
Advanced		
Core		

- ❖ Once executed, you will find the following files, result of the table content:

The screenshot shows a software interface with two main panels. The left panel, titled 'Project Explorer', displays a hierarchical tree structure of a project. The right panel, titled 'Query number1.csv', displays the results of a query in a CSV format.

Project Explorer Structure:

- Exos
- global
- Metadata
- Training
 - Components
 - Exos materials
 - Files_In
 - Files_Out
 - ActivityGenerator
 - Bind
 - ComplexQuery
 - GenerateAlert
 - HierarchicalFiles
 - html
 - Json
 - Loop
 - Query number1.csv
 - Query number2.csv
 - Query number3.csv
 - Query number4.csv
 - Query number5.csv

Query number1.csv Content:

CUS_ID	TIT_CODE	CUS_LAST_NAME	CUS_FIRST_NAME	CUS_COMPANY	CUS_BIRTH_DATE
1	Mr	GIBBS	Jason		1975/02/15 00:00:00.000
2	Mr	O'NEAL	Michael	Springfield Ltd	1967/03/03 00:00:00.000
3	Mr	JIMENEZ	Tony		1958/05/27 00:00:00.000
4	Mr	HAMPTON	Lionel		
5	Mr	SILL	Joel		1984/11/08 00:00:00.000
6	Mr	CARTER	Rick	Buick	1979/12/16 00:00:00.000
7	Mr	BARTZ	Gary		1973/09/22 00:00:00.000
8	Ms	REEVES	Diane		1954/10/02 00:00:00.000
9	Mrs	JOHNSTON	Joanna		1948/01/09 00:00:00.000
10	Mr	FINNERMAN	Martin	Bardahl Manufacturing Company	1956/08/07 00:00:00.000
11	Mr	SILVESTRI	Alan	Carnival corporation & plc	1962/07/25 00:00:00.000
12	Mr	DUVAL	Steve		1971/11/12 00:00:00.000
13	Mr	NEWIRTH	Charles		1969/12/16 00:00:00.000
14	Mr	SCHMIDT	Arthur		1968/09/17 00:00:00.000
15	Ms	FULLWOOD	Nelly		1967/02/03 00:00:00.000
16	Mr	SILVER	Ashton		1977/03/09 00:00:00.000
17	Mr	ROTH	Sam	Electronic Arts	1972/05/08 00:00:00.000
18	Mr	BARRETT	Oliver		1967/04/18 00:00:00.000
19	Mr	MCCOOK	Tommy		1962/11/13 00:00:00.000
20	Mr	GORDON	Vincent		1975/12/10 00:00:00.000
21	Mr	PALMIERI	Steve		1967/09/20 00:00:00.000
22	Mr	HUTCHERSON	Pat		1958/10/15 00:00:00.000
23	Mr	DAVIS	Horace		1987/01/03 00:00:00.000
24	Mr	AIMES	Dominique	Hudson	1984/08/27 00:00:00.000