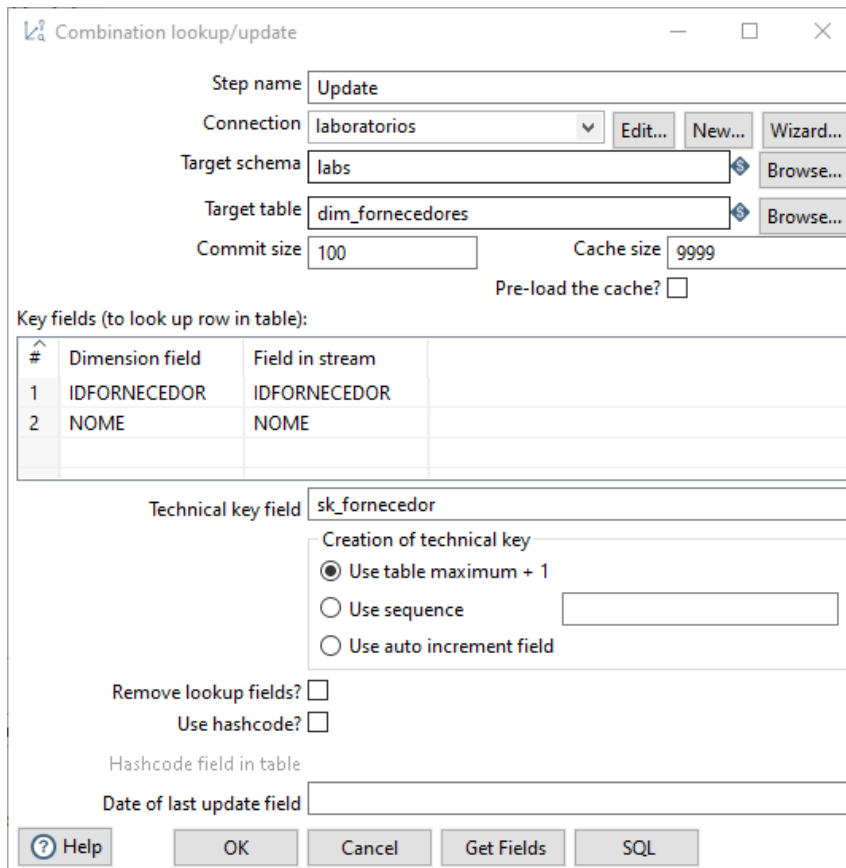


Exercício 13 – Lookup/Update SCD 1

13.1 Cria uma nova transformação, “13 – DW Lookup Update SCD 1” e mapeie o arquivo de entrada “Fornecedor.xls”; em seguida, adicione o step “Combination lookup/update”; neste step, indique no campo “Technical key field”, o nome do campo que servirá com chave substituta, e em seguida, crie a tabela no banco, utilizando o assistente “SQL” do step:



Combination lookup/update

Step name: Update

Connection: laboratorios

Target schema: labs

Target table: dim_fornecedores

Commit size: 100

Cache size: 9999

Pre-load the cache? ☐

Key fields (to look up row in table):

#	Dimension field	Field in stream
1	IDFORNECEDOR	IDFORNECEDOR
2	NOME	NOME

Technical key field: sk_fornecedor

Creation of technical key:

- ☒ Use table maximum + 1
- ☐ Use sequence
- ☐ Use auto increment field

Remove lookup fields? ☐

Use hashcode? ☐

Hashcode field in table:

Date of last update field:

Buttons: Help, OK, Cancel, Get Fields, SQL

13.2 Salve, execute a transformação e verifique o conteúdo criado na tabela:

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

☒ First rows ☐ Last rows ☐ Off

#	IDFORNECEDOR	NOME	sk_fornecedor
1	1	MOTOROLA	1
2	2	NOKIA PLUS	2
3	3	SAMSUNG	3
4	4	LG	4
5	5	DREAMC	5
6	6	GFORCE	6
7	7	APPLE	7
8	8	SONY	8
9	9	WALLITA	9
10	10	ARNO	10

13.3 Altere o conteúdo do arquivo xls de entrada, execute a transformação e analise o conteúdo da tabela em banco:

	A	B		A	B
1	IDFORNECEDOR	NOME	1	IDFORNECEDOR	NOME
2		1 MOTOROLA	2		1 MOTOROLA
3		2 NOKIA PLUS	3		2 NOKIA PLUS
4		3 SAMSUNG	4		3 SAMSUNG
5		4 LG	5		4 LG
6		5 DREAMC	6		5 DREAMC
7		6 GFORCE	7		6 GFORCE
8		7 APPLE	8		7 APPLE
9		8 SONY	9		8 SONY
10		9 WALLITA	10		9 WALLITA
11		10 ARNO	11		10 DYSON LABS

13.4 Além de analisar o resultado do preview, observe a tabela no banco de dados:

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

☒ First rows ☐ Last rows ☐ Off

#	IDFORNECEDOR	NOME	sk_fornecedor
1	1	MOTOROLA	1
2	2	NOKIA PLUS	2
3	3	SAMSUNG	3
4	4	LG	4
5	5	DREAMC	5
6	6	GFORCE	6
7	7	APPLE	7
8	8	SONY	8
9	9	WALLITA	9
10	10	DYSON LABS	11

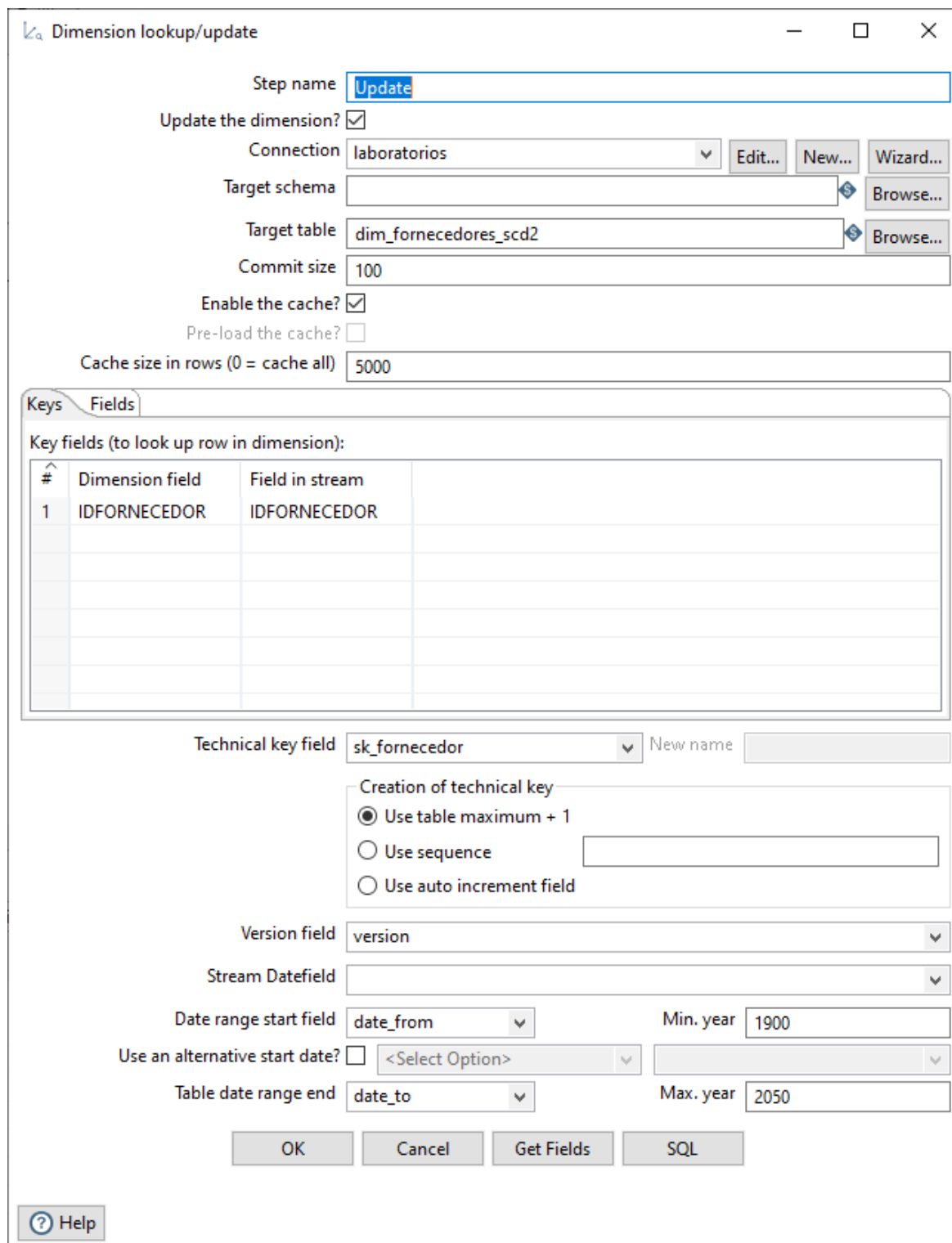
Resultados no preview do PDI

	sk_fornecedor	idfornecedor	nome
	integer	double precision	text
1	1	1	MOTOROLA
2	2	2	NOKIA PLUS
3	3	3	SAMSUNG
4	4	4	LG
5	5	5	DREAMC
6	6	6	GFORCE
7	7	7	APPLE
8	8	8	SONY
9	9	9	WALLITA
10	10	10	ARNO
11	11	10	DYSON LABS

Resultados no bando de dados

Exercício 14 – Lookup/Update SCD 2

14.1 Crie uma nova transformação, “14 – DW Lookup Update SCD 2” e mapeie o arquivo de entrada “Fornecedor.xls”; em seguida, adicione o step “Dimension lookup/update”; neste step, indique no campo “Technical key field”, o nome do campo que servirá com chave substituta, e em seguida, crie a tabela no banco, utilizando o assistente “SQL” do step:



Step name:

Update the dimension? ☒

Connection:

Target schema:

Target table:

Commit size:

Enable the cache? ☒

Pre-load the cache? ☐

Cache size in rows (0 = cache all):

Keys Fields

Key fields (to look up row in dimension):

#	Dimension field	Field in stream
1	IDFORNECEDOR	IDFORNECEDOR

Technical key field:

Creation of technical key:

☒ Use table maximum + 1

☐ Use sequence

☐ Use auto increment field

Version field:

Stream Datefield:

Date range start field: Min. year:

Use an alternative start date? ☐

Table date range end: Max. year:

14.2 No campo “Keys”, a chave a ser utilizada como chave de negócio deverá ser selecionada, enquanto na aba “Fields”, os campos que irão sofrer o update deverão ser marcados; O campo de versionamento deverá ser marcado como data de início mínima 1900 e data fim 2050. Execute a transformação, e avalie o resultado no banco de dados:

Data Output	Explain	Messages	Notifications
sk_fornecedor integer	version integer	date_from timestamp without time zone	date_to timestamp without time zone
1	0	1 [null]	[null]
2	1	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
3	2	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
4	3	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
5	4	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
6	5	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
7	6	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
8	7	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
9	8	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
10	9	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
11	10	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
12	11	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999

14.3 Edite o arquivo de entrada, execute a transformação novamente e compare os resultados:

Data Output	Explain	Messages	Notifications
sk_fornecedor integer	version integer	date_from timestamp without time zone	date_to timestamp without time zone
1	0	1 [null]	[null]
2	1	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
3	2	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
4	3	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
5	5	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
6	6	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
7	7	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
8	8	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
9	9	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
10	10	1 1900-01-01 00:00:00	2050-12-31 23:59:59.999
11	12	2 2020-09-22 23:14:40.778	2050-12-31 23:59:59.999
12	4	1 1900-01-01 00:00:00	2020-09-22 23:14:40.778
13	13	2 2020-09-22 23:14:40.778	2050-12-31 23:59:59.999
14	11	1 1900-01-01 00:00:00	2020-09-22 23:14:40.778

BÔNUS:

Crie uma sequência de banco de dados e a substitua no step de update.