stambia
Innovative Solutions

Appendices - Additional exercises

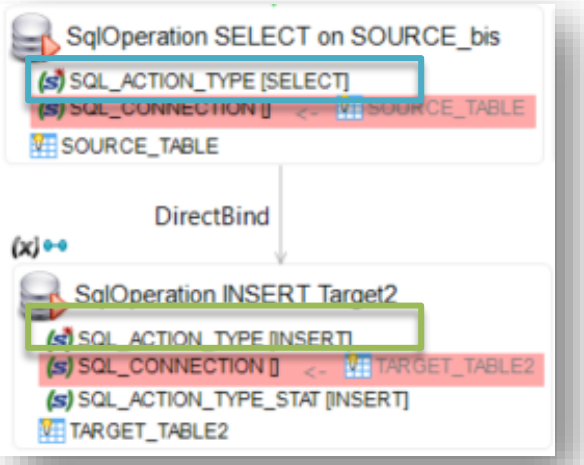
Add11 SQL Operation

Related articles in Stambia.org

- https://stambia.org/doc/104-development-hints-and-tips/actions/sql/sql-operation/163-sql-operation-and-sql-action-type

SQL Operation - 1/6

- The Objective is to see the different SQL Action Types and the performance on a SQL Operation
- Please, read carefully the following article : https://stambia.org/doc/104-development-hints-and-tips/actions/sql/sql-operation/163-sql-operation-and-sql-action-type

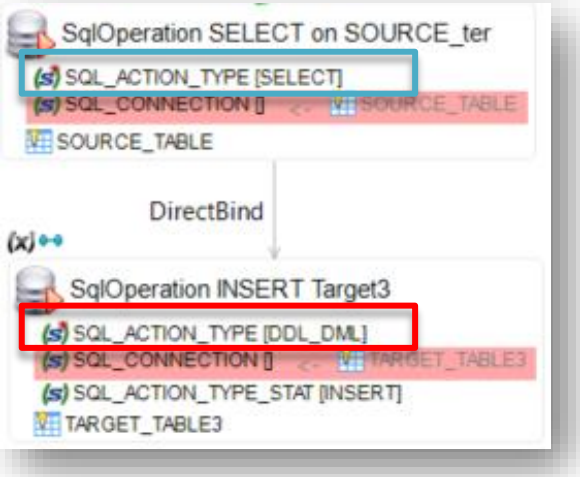


What you must know ?

Source SQL Operation action of a bind link must have "SELECT" as "SQL ACTION TYPE"

Target SQL Operation action will use :

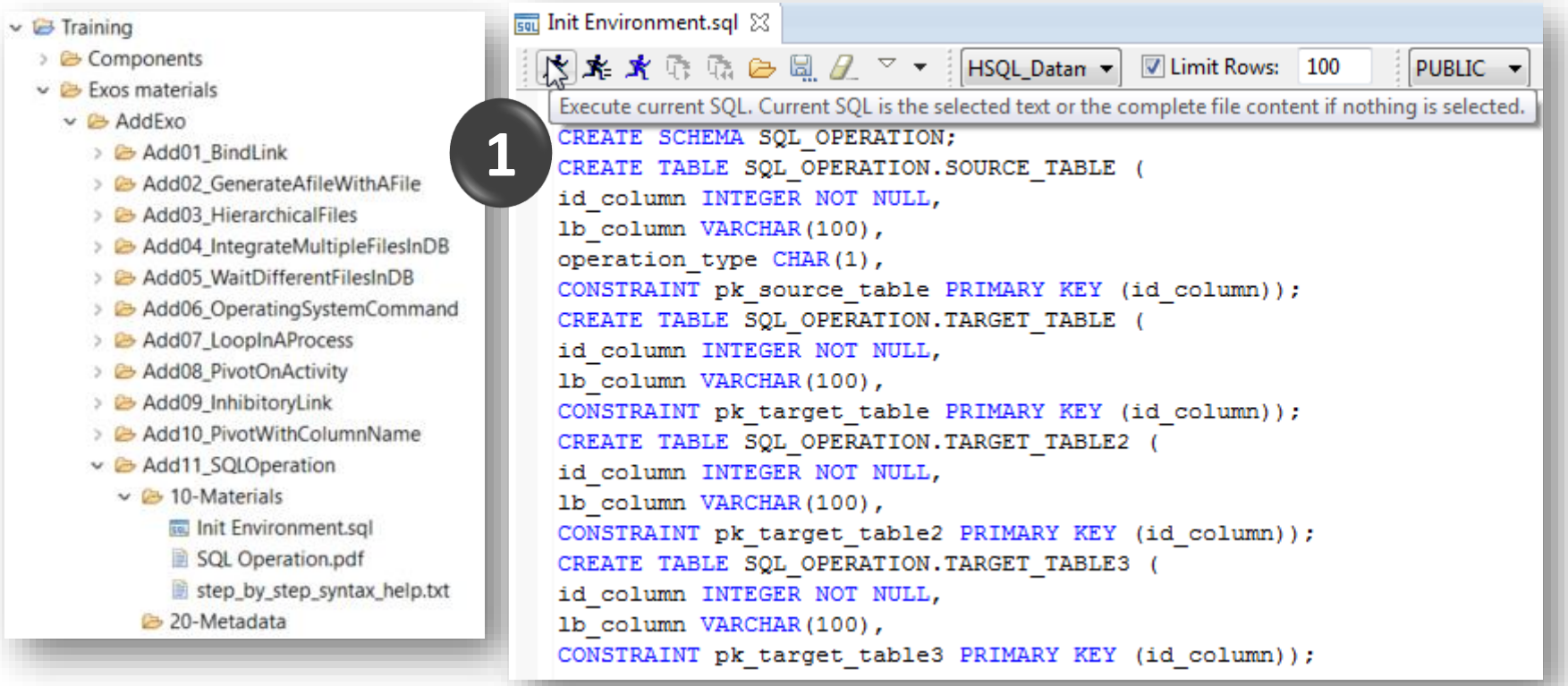
- ✓JDBC mechanism with DELETE, UPDATE or INSERT for "SQL ACTION TYPE"
  Better performance and less datatype conversion issues
- ✓Textual substitution with DDL_DML for "SQL ACTION TYPE"



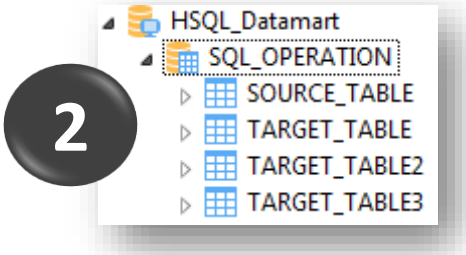
NEED HELP? Training/Exos materials/AddExo/Add11_.../step_by_step_syntax_help.txt

SQL Operation - 2/6

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

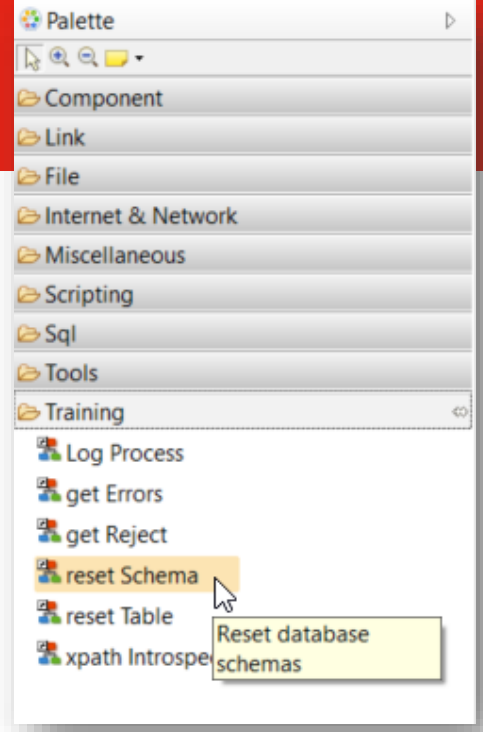


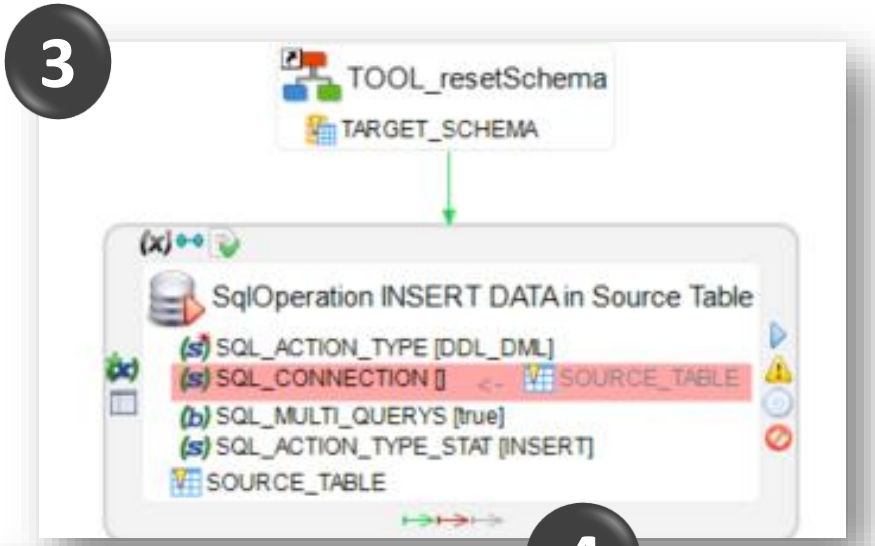
- 2 - Reverse the schema and the tables



SQL Operation - 3/6

- 3 - Add the resetSchema tool to reset “SQL_OPERATION” schema
- 4 - Add a SQL Operation action to insert data in SOURCE_TABLE datastore





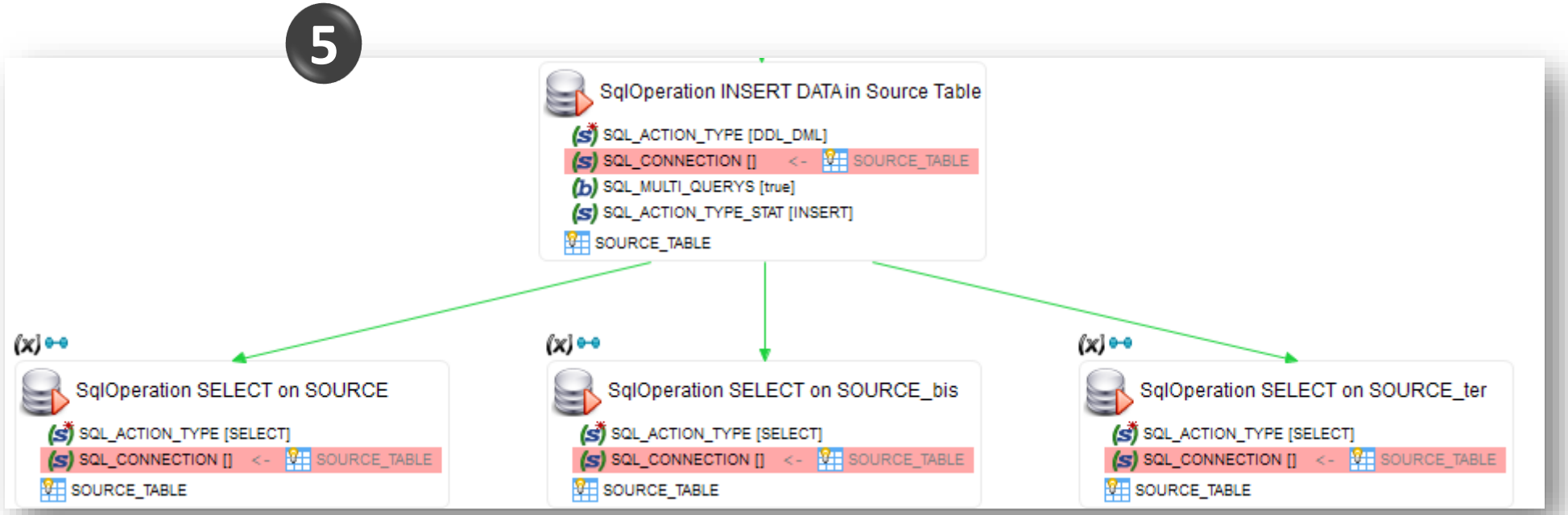
4

Sessions | Session Detail | Expression Editor

```
INSERT INTO SQL_OPERATION.SOURCE_TABLE
SELECT gen_id,
       'Label'+gen_id,
       'I'
FROM   UNNEST(SEQUENCE_ARRAY(1, 100000, 1)) AS generate_series(gen_id)
```

SQL Operation - 4/6

- 5 - Add 3 SQL OPERATION to select records in SOURCE_TABLE



Sessions | Session Detail | Expression Editor

```
SELECT  ID_COLUMN,
        LB_COLUMN,
        OPERATION_TYPE
FROM    SQL_OPERATION.SOURCE_TABLE
```

Sessions | Session Detail | Expression Editor

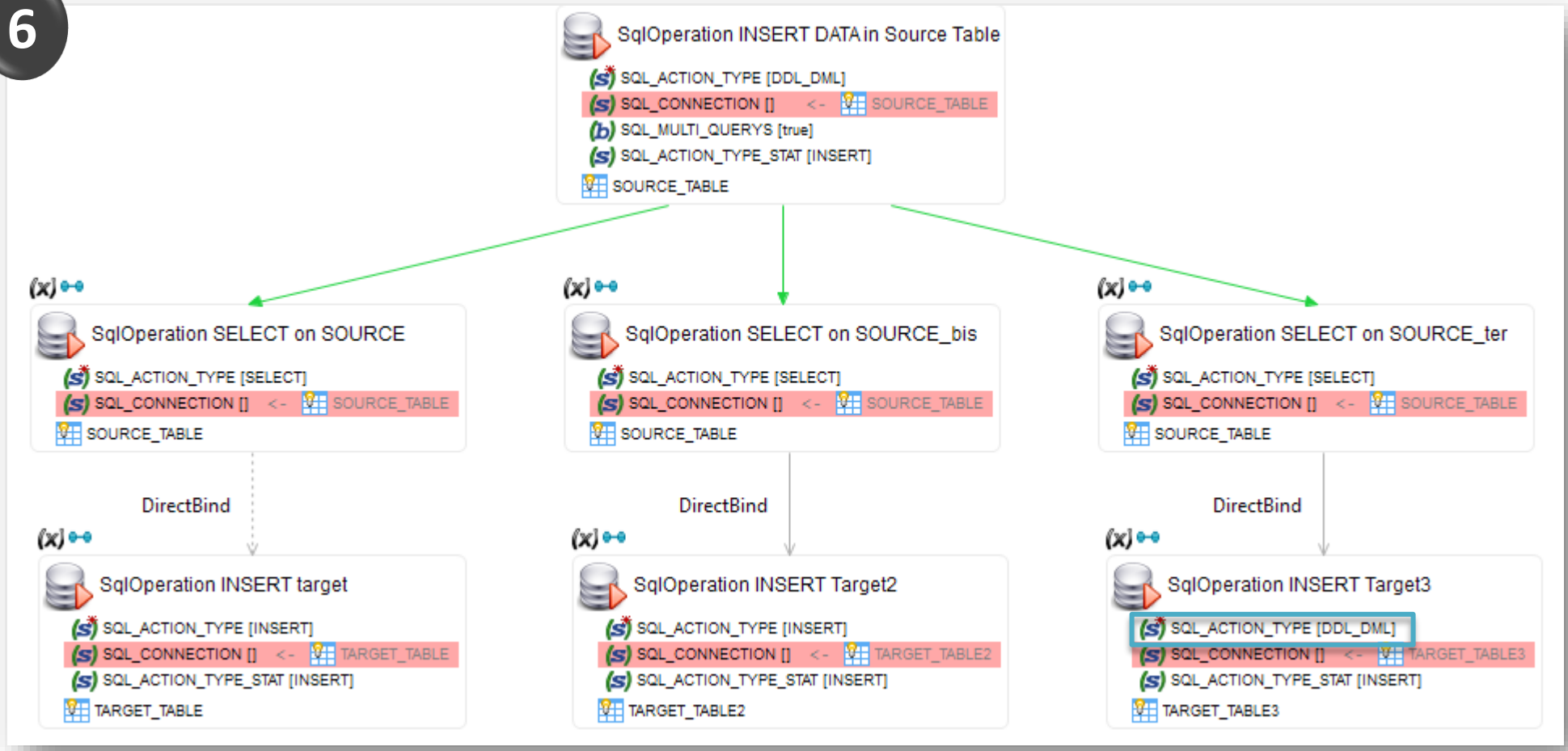
```
SELECT  ID_COLUMN,
        LB_COLUMN
FROM    SQL_OPERATION.SOURCE_TABLE
WHERE   OPERATION_TYPE='I'
```

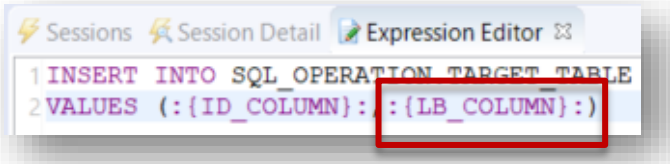
Sessions | Session Detail | Expression Editor

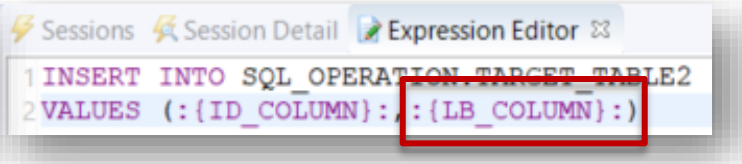
```
SELECT  ID_COLUMN,
        LB_COLUMN
FROM    SQL_OPERATION.SOURCE_TABLE
WHERE   OPERATION_TYPE='I'
```

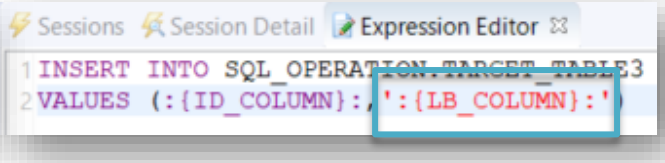
SQL Operation - 5/6

- 6 - Add 3 SQL OPERATION to insert records into TARGET tables
  - Note the quotes used for string in case of DDL_DML SQL_ACTION_TYPE









SQL Operation - 6/6

- 7 - Execute and compare the execution times