

**Appendices -
Advanced exercises**

ADV10 HTML BI Weather

- ❖ Context : the objective is to generate an html BI weather file depending on the result of the different departments of a company
 - Use a tool already developed to drive html actions

Daily BI weather 23/03/2017



❖ 1 - Execute the SQL file (Init Environment.sql) on HOTEL_DATAMART connection

Init Environment.sql

Execute current SQL. Current SQL is the selected text or the complete file content if nothing is selected.

```

CREATE SCHEMA BI_WEATHER;
CREATE TABLE BI_WEATHER.PARAM_DEPT (
ID_DEPT INT NOT NULL,NM_DEPT VARCHAR(50),
THUNDERSTORM_MIN INT,THUNDERSTORM_MAX INT,RAINY_MIN INT,RAINY_MAX INT,
CLOUDY_MIN INT,CLOUDY_MAX INT,THINNING_MIN INT,THINNING_MAX INT,SUNNY_MIN INT,SUNNY_MAX INT,
CONSTRAINT PK_PARAM_DEPT PRIMARY KEY (ID_DEPT));

INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (1,'Compliance',0,5,6,15,16,40,41,65,66,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (2,'Finance',0,8,9,18,19,27,28,55,56,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (3,'Human ressource',0,4,5,12,13,30,31,60,61,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (4,'Industry',0,9,10,25,26,42,43,61,62,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (5,'Information technology',0,7,8,22,23,36,37,55,56,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (6,'Legal',0,11,12,25,26,44,45,62,63,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (7,'Marketing',0,15,16,25,26,46,47,70,71,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (8,'Purchase',0,9,10,21,22,34,35,55,56,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (9,'Sales',0,5,6,15,16,40,41,65,66,100);
INSERT INTO BI_WEATHER.PARAM_DEPT VALUES (10,'Strategy',0,8,9,18,19,27,28,55,56,100);

CREATE TABLE BI_WEATHER.DAILY_DEPT_ACTIVITY (
DT_ACTIVITY DATE NOT NULL,ID_DEPT INT NOT NULL,ACHIEV_PERCENT INT,
CONSTRAINT PK DAILY_DEPT_ACTIVITY PRIMARY KEY (DT_ACTIVITY,ID_DEPT));
INSERT INTO BI_WEATHER.DAILY_DEPT_ACTIVITY
SELECT CURRENT_DATE AS DT_ACTIVITY,ID_DEPT,CAST(RAND()*100 AS INTEGER) ACHIEV_PERCENT
FROM BI_WEATHER.PARAM_DEPT;
    
```

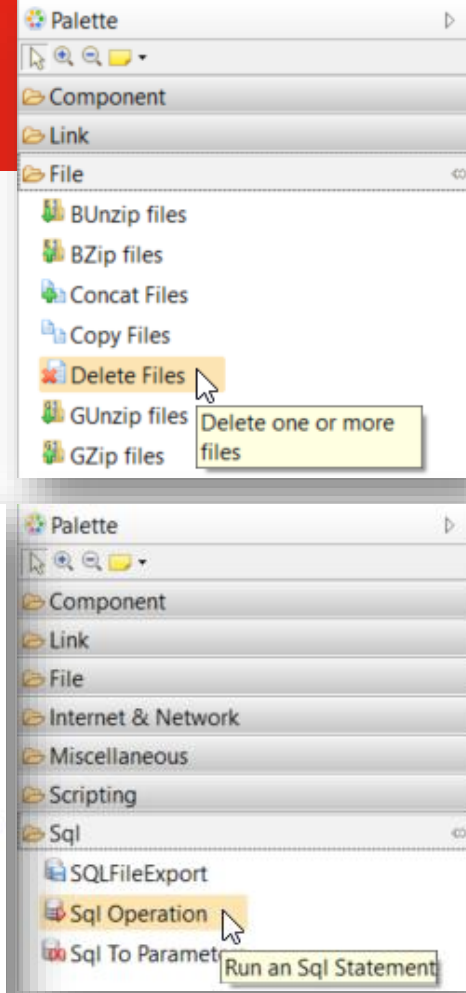
1

❖ 2 - Reverse the schema and the tables

HSQL_Datamart

- BI_WEATHER
 - DAILY_DEPT_ACTIVITY
 - PARAM_DEPT

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❖ 3 – Create a process

- Add a delete file action and drop the “html_folder” on it
- Add a SQL Operation with SELECT set as ACTION_TYPE

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HTML BI WEATHER

FileDelete
DEL_FILE [%x(\$html_folder\tech\path())x%/bi_weather%x(md.formatDate("yyyyMMdd"))x%.html]
html_folder

SqlOperation
SQL_ACTION_TYPE [SELECT]
SQL_CONNECTION [] <- DAILY_DEPT_ACTIVITY
DAILY_DEPT_ACTIVITY
PARAM_DEPT

```

1 SELECT ACTION_ID, TABLE_ID, TRIM(ACTION_TYPE) ACTION_TYPE, TRIM(HTML_VALUE) HTML_VALUE,
2       TRIM(PICTURE) PICTURE, TRIM(COLOR) COLOR, TRIM(APPEND) APPEND, FONT_SIZE
3 FROM
4 (
5   SELECT 1 AS ACTION_ID, 1 AS TABLE_ID, 'header level1' AS ACTION_TYPE, 'Daily BI weather
6   'sunny' AS PICTURE, 'firebrick' AS COLOR, 'false' AS APPEND, 0 AS FONT_SIZE
7 FROM (VALUES(0))
8 UNION ALL
9 SELECT 1 AS ACTION_ID, 0 AS TABLE_ID, 'logo' AS ACTION_TYPE, 'value' AS HTML_VALUE,
10 'stambia_logo' AS PICTURE, 'firebrick' AS COLOR, 'true' AS APPEND, 0 AS FONT_SIZE
11 FROM (VALUES(0))
12 UNION ALL

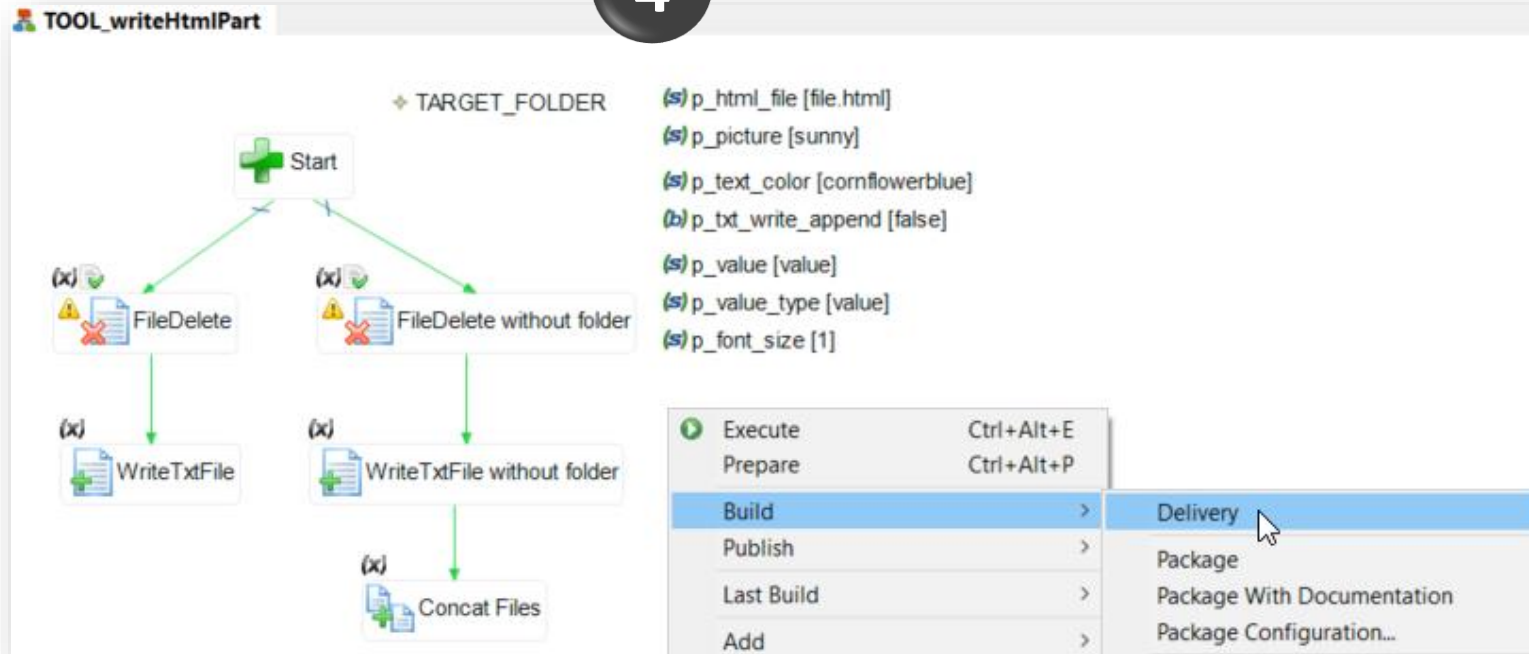
```

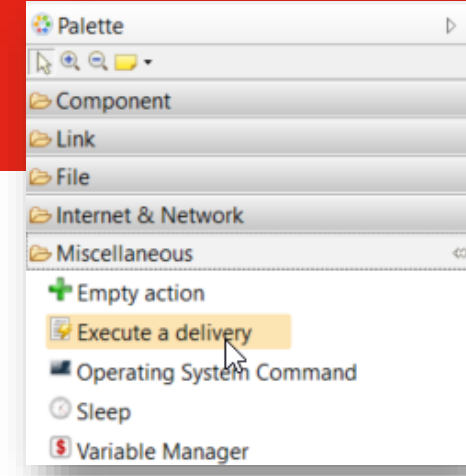
Training

- Components
- Exos materials
 - AddExo
 - AdvExo
 - Adv01_Pivot
 - Adv02_Excel
 - Adv03_NotExists
 - Adv04_ConditionedBindLink
 - Adv05_UpdateAFileWithAFile
 - Adv06_PublishAndGetVariablesInALoop
 - Adv07_GenerateMultipleFiles
 - Adv08_ParametersInDB
 - Adv09_AsynchronousActions
 - Adv10_HtmlBIWeather
 - 10-Materials
 - FILE_Server
 - Server
 - html_folder
 - Init Environment.sql
 - step_by_step_syntax_help.txt
 - 20-Metadata

❖ 4 - Publish the tool to be able to reach it

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- ❖ 5 - Add an executeDelivery action that will launch the tool named TOOL_writeHtmlPart in the process
- Add in this executeDelivery action all the parameters defined on the tool
- Add a bind link between the SqlOperation and this action



❖ 6 - Execute the process and study the result :



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