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| EPAM Systems, RD Dep. |
| MTN.BI.08 Advanced PL/SQL |

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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | [Kiryl Bucha](mailto:Kiryl_Bucha@epam.com) | 12-JAN-2012 |  |  |
| 2.0 | Updated in accordance with renewed content | [Elias Nema](mailto:Elias_Nema@epam.com) | 20-JAN-2014 |  |  |
| 3.0 | Report on the task | Hanna Klimovich | 02-DEC-2017 |  |  |

Contents

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[2. Task Results 3](#_Toc383506014)

# Create package to load the Fact Table into the staging (3NF) layer

The Main Task is to create independent package[s] to load your fact table to the ST layer, according to your DWH concept that was developed on Module 6 Introduction to DWH.

# Task Results

Create required objects:

* Create all required fact table objects on ST Layer (T\_...).
* Grant all required privileges to ST\_CL (Cleansing Layer).
* Create packages to load fact data (one package = one fact table) on ST\_CL.
* Prepare document with description of your load and screenshot of data in the Fact Table.
* Test Procedure for Repeatable execution (it should produce same consistent results each time on a same source data).

Script to load fact table:

INSERT INTO bl\_3nf.ce\_flight

SELECT bl\_3nf.flight\_seq.NEXTVAL,

fl.f\_YEAR ,

f\_MONTH ,

DAY\_OF\_MONTH ,

DAY\_OF\_WEEK ,

FL\_DATE ,

UNIQUE\_CARRIER ,

AIRLINE\_ID ,

CARRIER ,

TAIL\_NUM ,

FL\_NUM ,

ORIGIN\_AIRPORT\_ID ,

ORIGIN\_AIRPORT\_SEQ\_ID ,

ORIGIN\_CITY\_MARKET\_ID ,

ORIGIN ,

ORIGIN\_CITY\_NAME ,

ORIGIN\_STATE\_ABR ,

ORIGIN\_STATE\_NM ,

ORIGIN\_WAC ,

DEST\_AIRPORT\_ID ,

DEST\_AIRPORT\_SEQ\_ID ,

DEST\_CITY\_MARKET\_ID ,

DEST ,

DEST\_CITY\_NAME ,

DEST\_STATE\_ABR ,

DEST\_STATE\_NM ,

CRS\_DEP\_TIME ,

DEP\_TIME ,

DEP\_DELAY ,

DEP\_DELAY\_NEW ,

DEP\_DEL15 ,

CRS\_ARR\_TIME ,

ARR\_TIME ,

ARR\_DELAY ,

ARR\_DELAY\_NEW ,

ARR\_DEL15 ,

CRS\_ELAPSED\_TIME ,

ACTUAL\_ELAPSED\_TIME ,

AIR\_TIME ,

FLIGHTS ,

DISTANCE ,

DISTANCE\_GROUP ,

PLANE\_ID ,

PILOT\_ID

FROM

(SELECT DISTINCT f\_YEAR ,

f\_MONTH ,

DAY\_OF\_MONTH ,

DAY\_OF\_WEEK ,

FL\_DATE ,

UNIQUE\_CARRIER ,

AIRLINE\_ID ,

CARRIER ,

TAIL\_NUM ,

FL\_NUM ,

ORIGIN\_AIRPORT\_ID ,

ORIGIN\_AIRPORT\_SEQ\_ID ,

ORIGIN\_CITY\_MARKET\_ID ,

ORIGIN ,

ORIGIN\_CITY\_NAME ,

ORIGIN\_STATE\_ABR ,

ORIGIN\_STATE\_NM ,

ORIGIN\_WAC ,

DEST\_AIRPORT\_ID ,

DEST\_AIRPORT\_SEQ\_ID ,

DEST\_CITY\_MARKET\_ID ,

DEST ,

DEST\_CITY\_NAME ,

DEST\_STATE\_ABR ,

DEST\_STATE\_NM ,

CRS\_DEP\_TIME ,

DEP\_TIME ,

DEP\_DELAY ,

DEP\_DELAY\_NEW ,

DEP\_DEL15 ,

CRS\_ARR\_TIME ,

ARR\_TIME ,

ARR\_DELAY ,

ARR\_DELAY\_NEW ,

ARR\_DEL15 ,

CRS\_ELAPSED\_TIME ,

ACTUAL\_ELAPSED\_TIME ,

AIR\_TIME ,

FLIGHTS ,

DISTANCE ,

DISTANCE\_GROUP ,

PLANE\_ID ,

PILOT\_ID

FROM cl\_flight

) fl

WHERE F\_YEAR IS NOT NULL

AND f\_MONTH IS NOT NULL

AND DAY\_OF\_MONTH IS NOT NULL

AND TAIL\_NUM IS NOT NULL

AND CARRIER IS NOT NULL

AND DEST\_STATE\_NM IS NOT NULL

AND DEP\_TIME IS NOT NULL

AND PLANE\_ID IS NOT NULL

AND PILOT\_ID IS NOT NULL

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COMMIT;