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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 |  |  |

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# Business Task – Performance of STAR Scheme

## Prepare Report Layout

The Main Task is to create SQL for Report Layout that was developed in the concepts of your business in the last module (Use STAR schema objects for source of Data).

## Compare Report Layout Performance

The Main Task is to create summarize table with comparison Performance of next Report Layout:

* Advancing Grouping (GROUP BY GROUPING SETs – Lab Work 02)
* 3NF (Staging)
* Star Schema (Lab Work 11)

Task Results:

* Prepare Document with description of results.

# Advanced Loading

Implement Fact Table load with use of EXCHANGE PARTITION clause and logic of load for some rolling window period.

# ETL Structure

Create all scripts for ETL Process and store it on next structure:

* Instance name
* Schema name
* Tables
* T\_.... (Object name)
* -scripts
* T\_.... (Object name)
* -scripts
* Views
* VW\_...

**Script example of select for report:**

SELECT fl.dep\_time,

fl.dep\_delay,

pt.surname,

pt.national\_id AS license,

pt.hours\_in\_air

FROM F\_FLIGHT fl

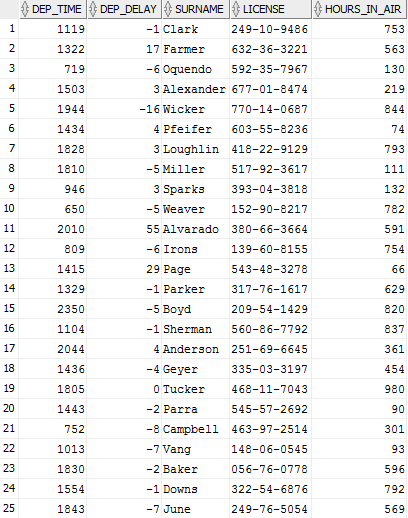
INNER JOIN dm\_airlines air

ON fl.carrier=air.icao

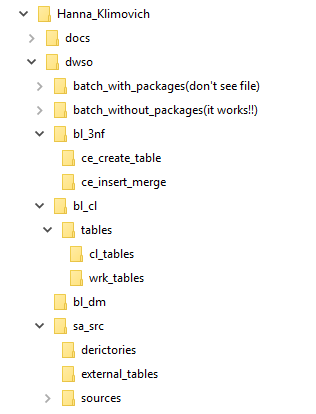
INNER JOIN dm\_pilot pt

ON fl.pilot\_id = pt.pilot\_id\_seq

WHERE air.icao LIKE '%AAL';



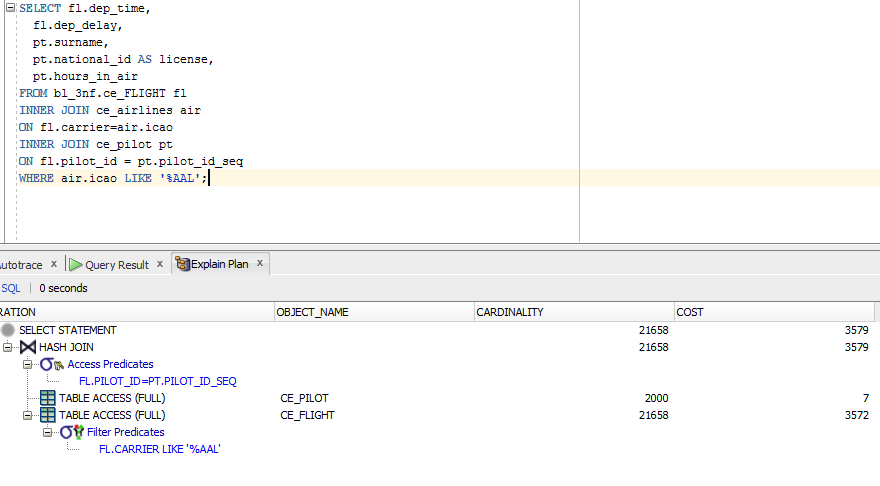
ETL structure:



I didn’t create partitions physically, so it’s hard to exchange partitions tasks.

Report layout perfomance:

3nf layer:



DM layer:

