

Data Warehouse design

Goal

The goal of the task is to design a data warehouse corresponding to the requirements specified in the document: Requirements specification for business process.

Subtasks for implementation

1. design a data warehouse for given business process,

Products

NOTE: All products must be uploaded to Moodle, otherwise they will be treated as not done!

A report containing the Data Warehouse design – file named ProjectReport.pdf, according to the provided pattern *Data Warehouse design for book sale process* available at e-course.

Requirements

- a. you must check if the queries for analytical problems defined in the process specification can be executed, you must check if you have all needed data. All 10 queries must be realizable.
- b. you must check if data sources contain data needed to fill the data warehouse.
- c. your data warehouse must contain a few dimensions, at least one fact table (the number of fact tables and their granularity depends on the queries for analytical problems), date/time dimensions, at least three measures and one calculated measure.
- d. the data warehouse schema has to be correct (star schema, snowflake schema, constellation schema).
- e. be careful while defining attributes, remember which are numerical and which are character.
- f. design at least one SCD dimension (this one for which you have generated appropriate data) and at least one hierarchical dimension.
- g. remember about calculated measure.

Maximum score – 20 points.