Data Engineering: Lab 06

Task 01: Data Warehouse Modelling Part I

In this Lab we create two different types of schemas (Star Schema and Snowflake Schema) for a data warehouse.

We create one model by using the Star Schema for European sales and one model by using the Snowflake Schema for Worldwide sales corresponding to the requirements below.

Requirements:

- for each sale we store the corresponding customer, the product, the branch, the time, the amount, and the revenue
- for the time dimension we store the day, the week, the month, the quartal, and the year
- for the product dimension we store the article, the product group, the product family, the product category, the description, and the brand
- for the customer dimension we store the first name, the last name, the gender, the birth date, and the place of birth
- for the branch dimension we store the branch name, the location, the region, and the country

Task 02: Data Warehouse Modelling Part II

Extend both models with your own ideas. Extend at least one dimension with two further attributes. Add at least one further dimension, one hierarchy, and two (calculated) measures.

Task 03: Reading

Take your list of the top12 most important and interesting sections of the ebook "97 Things Every Data Engineer Should Know". Read the next top3 sections of your list and write down the most important points of the section with three bullet points each.