

COMP 333 — Week 5 Extract-Transform-Load

Extract-Transform-Load

The lecture will discuss ETL (Extract-Transform-Load) process introduced by the field of Data Warehouses which is the fore-runner of the Data Wrangling process in Data Analytics.

READ Golfarelli and Rizzi Section 1.4

Introduction to Data Warehousing, Chapter 1 of *Data Warehouse Design: Modern Principles and Methodologies*, 2009, by Matteo Golfarelli and Stefano Rizzi.

We will discuss these steps again in the lectures on Data Wrangling.

The sample picture will give you an idea of what the operations do

- ▶ **Extract** is data collection, data cleaning
- ▶ **Transform** is filtering, aggregation, and shaping (structuring)
- ▶ **Load** is load, deploy or publish in the data warehouse and data mart

though there is debate about where Extract ends and Transform starts in the process

FIGURE 1-8
Extraction,
transformation,
and loading

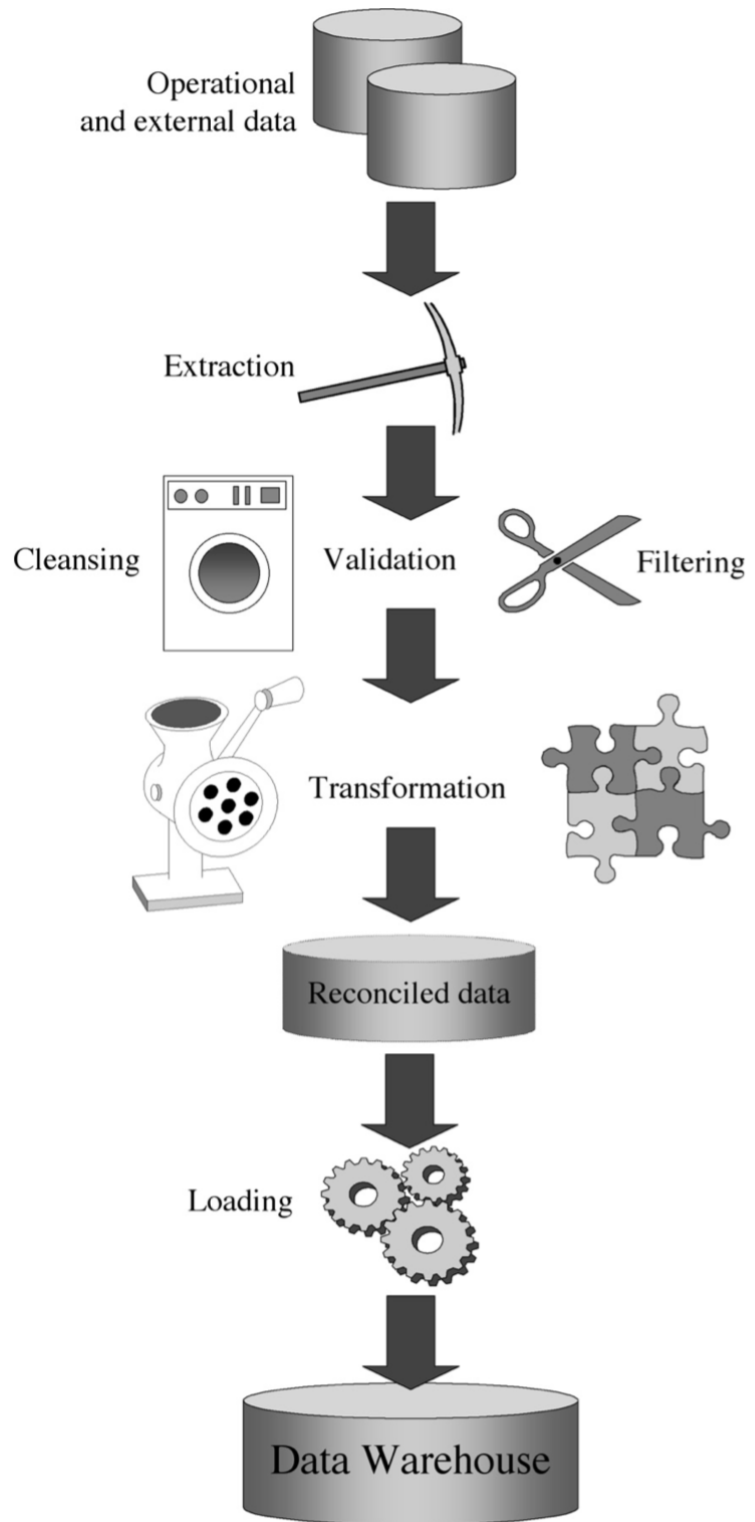


FIGURE 1-9
Example of
cleansing and
transforming
customer data

