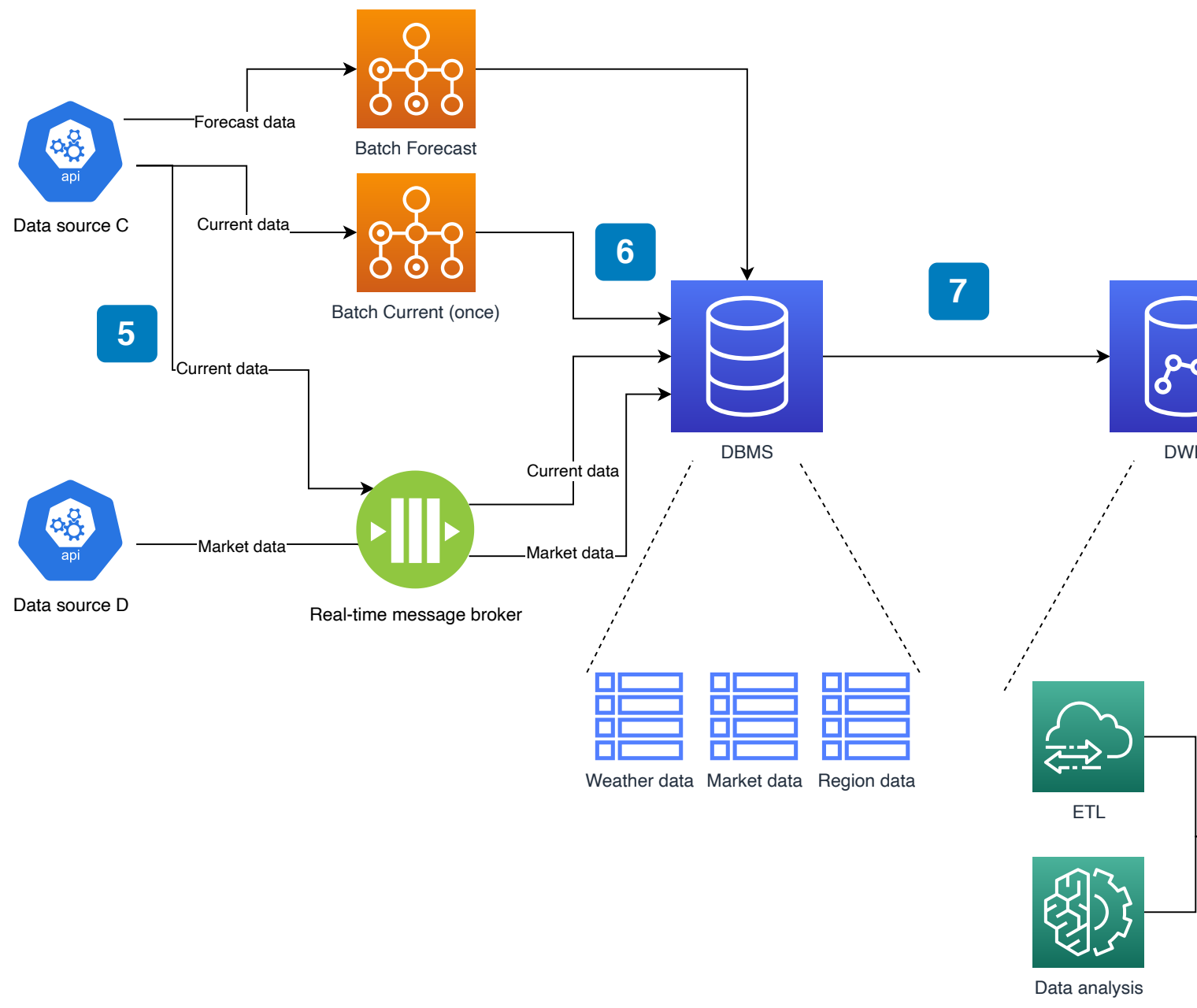
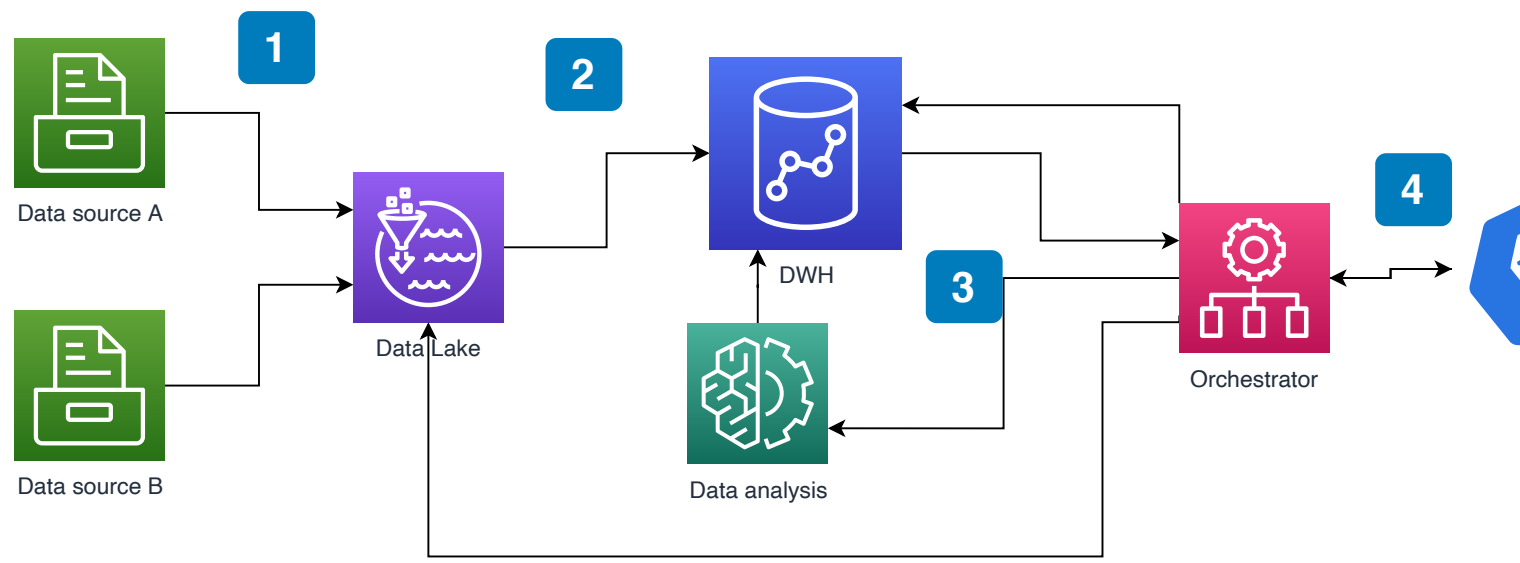
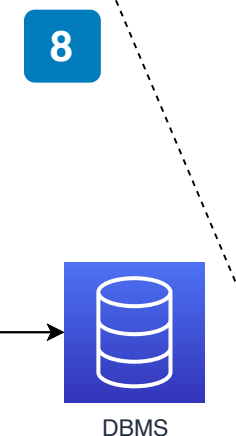
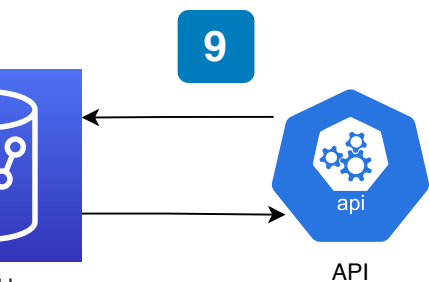


# 3rd part - Design





1

Import data into Data lake

2

Transform data lake item into clean, structured and useful data, putting them into DWH

3

The orchestrator is accountable for:

- uploading customer file into data lake
- starting data analysis based on customer data and data sources data
- preparing output from DWH to API

4

The orchestrator can expose itself an API to the customer or can be a part of a bigger process

5

The data are imported in 3 ways:

- recurring batch for forecast data from data source C
- batch once for the data history of the last 15 years from data source C
- producers importing current data from data sources C and D

6

Data from data sources are transformed into a useful structure and are inserted in a DBMS

7

Link between DWH and an external DBMS

8

The DWH contains:

- ETL procedures for extraction and transformation into a model useful for data analysis and API
- tools and configurations for data analysis
- DBMS for extracted and processed data

9

Integration between DWH and an API exposing service