

Peruvian Mining history.

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i TL;DR

We take the data zipped by the MINEM, structured a database and an API using Go for easy interaction.

Motivation

Everyone who had the chance to consult the Peruvian mining production reported by the Ministerio de Energia y Minas (MINEM onwards), had the challenge to work in a particular schema provided by the zip file given and the MSEXcel(s) file(s) in it. Upon this, we also have to deal with several MSEXcel format changes. This scenario makes an untraceable workflow, forcing us to do a lot of rework. In that sense, @Cesar and I saw the opportunity to produce a database and an API using top-notch technologies available to make this data accessible for all who want to know more about Peruvian mining production.

The journey

This project is outlined in Figure 1. In that picture, there are three things which are important to highlight: the data provided by the [MINEM website](#), the database created and the API designed and implemented. Each actor represented a complex challenge to overcome. This is because the way how the MINEM has been presented the Peruvian Mining production has been evolving over time i.e. passing from .xls to .xlsx files, moving from format to format until what we have for 2022 and also mining companies' changes such as its names and how they name their mining units over time.

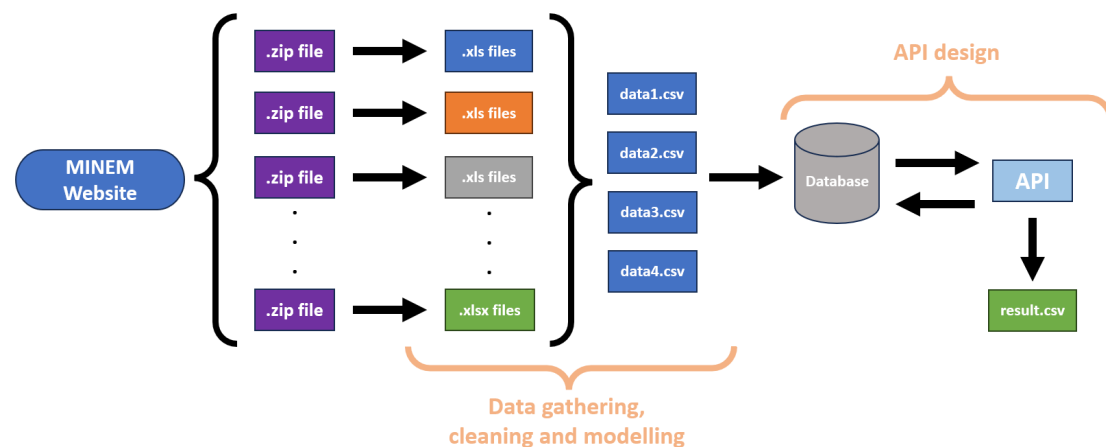


Figure 1: Project outline. Source: Author

This phenomenon can be clearly noted in Figure 2. So, after a good time cleaning data, four CSV files were obtained which are the core of the database designed for this project. There, data modelling principles were applied in order to grant good scalability, and performance, avoiding redundancy. When this database was finally deployed and properly running, we asked ourselves which will be the best way to interact with it? The answer was in front of us all the time: an [API](#)

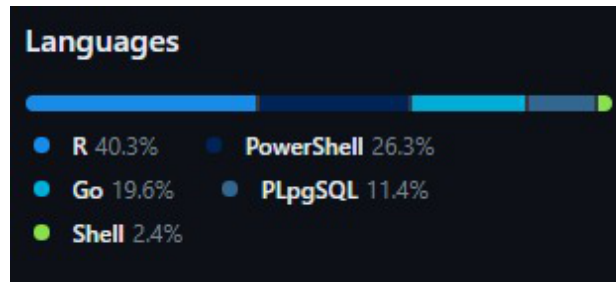


Figure 4: Tools Used. Source: Author

the data is presented (and changed) during the years. With this in mind, @Cesar and I decided to do something with that. Now, we are proud to share with you the version 0.1 of the first API integrally dedicated to the Peruvian mining production. Please, take a look at the following article. We are open to discussing this topic and, with that, achieve that change in the Peruvian Mining Industry that we want to see.