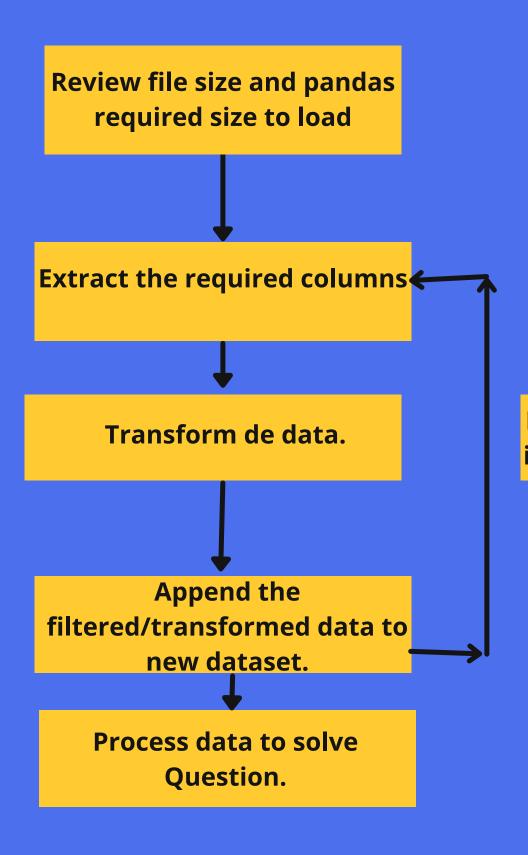
Data Engineering Bootcamp Challenge

Carla Garcia

Report



General Workflow



Repeat until all data in file was processed



Main Tools used

01 Pandas

02 Chunk segmentation

grouping and aggregate

04 Map

Q5 What are the lessons learned from this excersice?

The main problem faced in this task is to identify the valuable information to answer the questions and process the data in an smart segmented way to administrate the hardware resources that are available.



Q6 Can you identify other ways to approach this problem? Explain.

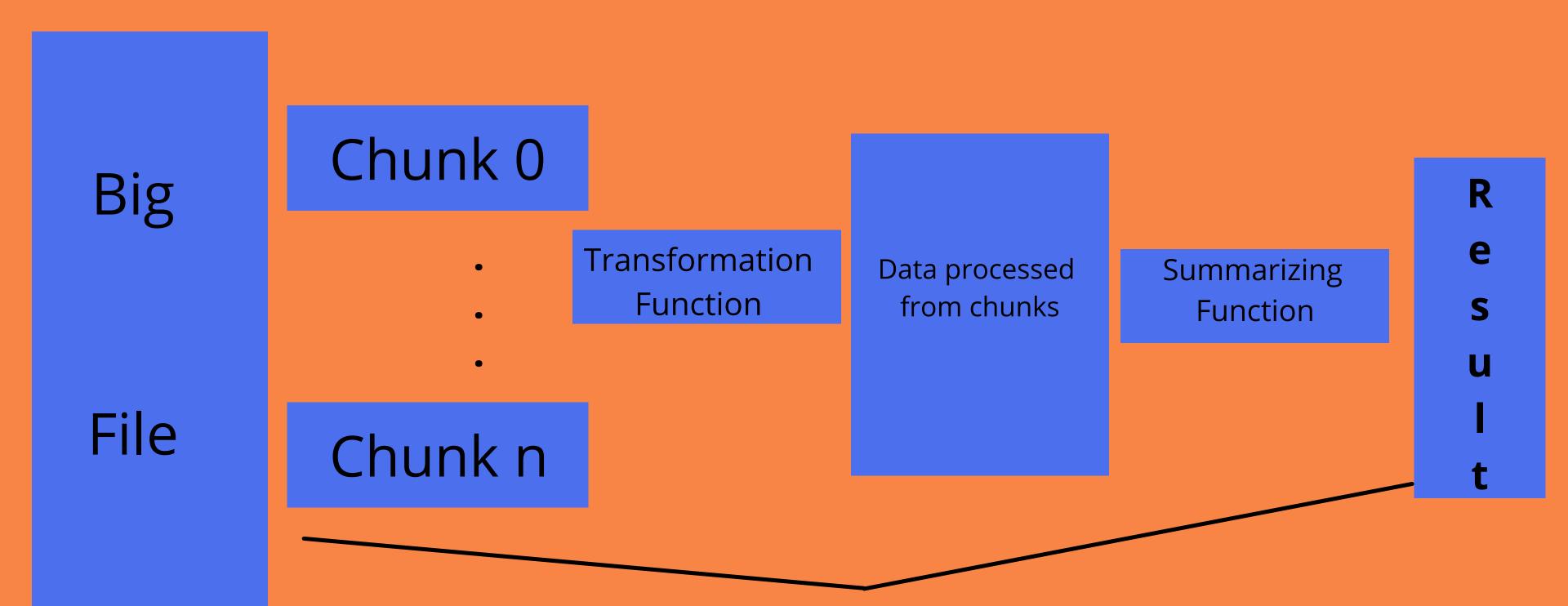
One way I would have wanted to explore to solve this problem is to move the entire file in to a Database.

A Database server is not required SQLlite package can be used in this excersise to maintain all processing locally, but a database will give the flexibility to run queries also it can be run as a batch.

Also exploring parallelism packages like Dask can make more efficient the calculations.

If the core functions get designed in modular and vectorized way thinking. In how to make the extraction of the information of interest and the combination of the data in the chunks to reach a confusion or result. If this step is well done moving to database, paralelism or pipelines in the clouds becomes smoother.





This can be addresed using a DB or making parallel computing.