Data Engineer Challenge

Introduction

Great that you've decided to take on the home assignment for the Data Engineer position. We hope you'll enjoy the challenge as much as us creating it.

This exercise will help us to get a better feeling for your problem solving skills, your coding style and your technical capabilities. We address main pillars to measure including python programming and data pipeline architecture.

The evaluation will be based on effectiveness of provided answers and the creative mindset behind it. Therefore, feel free to share what you see important to explain the solution and the logic behind it such as comments on the code, read me file or description on the pipeline stages.

Assignment

Task 1

Write a python script to fetch all exchange rates from 3 months back till now for currencies (USD, GBP, CHF) considering Euro as the base currency. The retrieved data should be stored in BigQuery. Feel free to use service https://exchangeratesapi.io/.

Deliverables

- Executable Python File

- Table Definition

Task 2

Design data architecture and pipeline used to ingest, process and store exchange rates on daily bases.

Deliverables

- Data pipeline design

- Explanation for the stages