Graduate Analyst Programmer Code Test

The Graduate Analyst Programmer role at Halfbrick Studios is a hybrid role combining data analysis and data engineering. As a result, aspects of this role can become quite technical and lean on programming skills which graduate candidates may or may not possess.

The below requirements section is designed as a set of minimal functional requirements for your submission, you should aim to complete all of these before submitting.

In addition to these requirements, you will find a set of extra features that are not required for the submission of this project, they are included as an avenue for you to demonstrate any additional technical knowledge you might possess. Although these are not directly required for the role, they allow you to demonstrate some desirable technical skills.

# Project Requirements

build a solution in Python that acts as a CLI that performs the following functions:

* Input a CSV file and convert it to JSON
* Input a CSV file and present a data summary
* Input a CSV file and generate a SQL insert statement for all rows in the input

The CSV input file supplied with this code test and contains a sample dataset similar to that which you will find in our various data lakes.

For the data summary, you are required to determine what insights and aggregations you can derive from this dataset.

# Desirable Features

In addition to the above the following features are desirable but not required for this submission.

* Run this Python solution in a Docker container
* Unit test this Python Solution
* Distribute this solution as a pip Package

Please remember that the above requirements are optional.

# Submitting your Code

Please commit your code to a git repository on the git server of your choosing.

Once complete please email us the link to your git repository.