

## Rick and Morty

We want to analyze data about the “Rick & Morty” television show. For that we are going to use the following API - <https://rickandmortyapi.com/> to collect our data.

1. You are required to create a flow / pipeline that will extract the following data and store it in a database of your choice. (we recommend using **postgres**)
  - a. Extract all characters data (only characters which are alive or dead)
  - b. Extract all locations data
  - c. Extract all episodes data
2. Based on the API documentation and the questions section 3, design a data warehouse module (facts and dimension).  
\*\* Please add a diagram.
3. Answer the following questions:
  - a. Out of all the living characters that are **not** from the Smith family (i.e. every character which is **not** Rick, Morty, Beth, Summer or Jerry) who appears in the highest number of episodes?. If there is more than one character write all the characters
  - b. We would like to be able to identify the first and last episodes **that aired** each season easily.  
Write a SQL that supports this.
  - c. Which location has the highest number of residents
  - d. How many episodes are in each season?
  - e. What is the max amount of time (in days) that passed between 2 episodes being aired?

### **Assumptions & Instructions**

1. Please write the code using Python
2. You can assume that the API supports filtering episodes based on dates, if it helps.
3. Feel free to ask any questions.

**\*\* Your time is valuable, this exercise should not take more than 5 hours to complete.  
If you find yourself spending more time than this you went too far :)**

Good luck.