**Python Hackout Case**

Background:

You and your team are assigned to a client (a travel agency) who wants to leverage a dataset of Airbnb listings to provide their customers with quick insights into potential housing for upcoming trips. The client wants your team to dive into the dataset to see if it can be a useful resource for them. Some potential questions have been posed by the client to help guide you through your team’s assessment of the dataset. The dataset contains many different fields and not all of them might be useful in your analysis. Your task is to work as a team to explore the Airbnb dataset and use the questions to guide your analysis. You should provide the client with a general analysis of what you think of the usability of the Airbnb dataset.

Questions:

1. What fields are included in the dataset and intuitively which ones might be useful for the client’s customers?
2. Which fields contain values that are strings (objects)? Would it be useful to convert some of these fields to floats or integers (think about binary integers)?
3. How long has each host been active on Airbnb.com? What’s the average time that each host has been active on Airbnb.com?
4. On average, how many bedrooms are there in listings that accommodate more than 2 people and have a flexible cancellation policy? How many beds are in most of the listings with these criteria?
5. Do most of the listings have good reviews or bad reviews? What’s the lowest review that a listing has and what’s the highest review? Is there a correlation between the number of reviews and the review score? (hint: you could use a graph here!)

Bonus:

1. What is the average rating for the listings by city? (hint: try a for loop if this seems tedious!)
2. What are the percent of missing observations in each column of this dataset?