# Data Analyst Case

In this data analysis case, you are expected to investigate and explore different datasets and explain your findings. ~~The case is quite open so you are free interpret the task as you wish.~~ Datasets have been provided and you are also free to use other datasets you feel appropriate.

We do not expect you to use more than 4-6 hours on this task. The purpose of the case is to use it as a basis for a technical interview, so please be prepared to take the team through how you reached your solution and the results in the interview – it would be ideal if you prepared a presentation or another visual document, so that it’s easy for the team to follow.

## Task

Imagine we are a property company that provides short-term rentals and are looking to expand into the New York market. You have been tasked with evaluating the market in NY to determine which areas/properties are best for us to invest in (by purchasing property to rent out). Your audience to present your findings are both technical and non-technical.

## Datasets

You should find the following documents in the zip file attached to the case email:

1. Airbnb\_data\_New\_York.csv
2. Property\_sales\_data\_New\_York.csv
3. Weather data.xslx

The **Property\_sales\_data\_New\_York** dataset contains a column “BOROUGH”. This column includes a digit code for the borough the property is located. These are: Manhattan (1), Bronx (2), Brooklyn (3), Queens (4), and Staten Island (5).

#### ~~Present some of the key findings of the datasets above.~~

~~Some suggestions for things you can try to find out:~~

* ~~How many properties are sold with zero price?~~
* ~~What is the average price for each neighborhood to rent an Airbnb apartment?~~
* ~~What are the number of sales of properties in each neighborhood in NY?~~
* ~~Are sales of properties in NY impacted by the weather temperatures?~~

~~Feel free to add any other key finding you can glean from the dataset!~~

#### ~~If you were supposed to buy an apartment in New York, what would be your approach to find the best investment if you plan to use it for Airbnb?~~