Airbnb Data Analysis

Airbnb data contains a lot of value.

A real estate investor is looking forward to using this data in order to take a decision regarding the best option he has in real estate to generate profit on Airbnb from his investment.

He downloaded the latest available data at a specific time about the following cities:

- Malaga
- Mallorca
- Sevilla

He's looking forward to answering the following questions:

Analysis 1: Comparing Cities

Comparing Airbnb listings in the three different cities:

- Find the "average availability over 30 days" of listings per each city.
- This should be calculated from calendar dataset.
- Find the "average revenue of over 30 days" of listings per each city.
- This should be calculated from calendar dataset.
- Compare the distribution of estimated availability for the next 30 days of listings per each city.
- Compare the distribution of estimated revenue for the next 30 days of listings per each city.
- Compare the distribution of estimated revenue for the next 30 days of listings per each city & for each house size (# of bedrooms).
- Compare the distribution of estimated revenue for the next 30 days of listings per each city & for each room type (room_type).

Analysis 2: Deep Dive in one City Analysis

For each city, you can perform a finer grained analysis to answer the following questions:

- What is the proportion of each room type?
- What is the proportion of each house size (# of bedroom)?
- What is the proportion of each neighborhood?
- What is the average availability over the next 30 days for each room type / house size / neighborhood?
- What is the average revenue over the next 30 days for each room type / house size / neighborhood?
- What is the distribution of availability over the next 30 days for each room type / house size / neighborhood?
- What is the distribution of revenue over the next 30 days for each room type / house size / neighborhood?

Average Break even point in number of day calculated for the estimated revenue for each property advertisement

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