Airbnb in Berlin

After a successful career, you are ready to retire and enjoy some passive income. You are considering buying a flat to rent for Airbnb in Berlin, but would like to use data to understand:

- 1. How much money can you expect to make?
 - a) On which neighbourhood group should your flat be?
 - b) How many people should you accommodate? Which room type?
- 2. Flat prices listed vary throughout the year. In which time of the year should you rent your place? (higher price).

Estimating revenue

- There is no raw transaction data, so you will try to do an educated guess.
- Monthly Occupancy Rate:
 - AvgStay × (Reviews per Month / ReviewRate).
- For Berlin in 2017, AvgStay = 4.2.
- Yearly income can then be estimated by:

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Monthly Occupancy Rate \times Price \times 12
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• The ReviewRate is unknown. A modest estimate is 50%, and an optimistic estimate (from Airbnb itself) is 72%.

Hints

- You will use calendar_summary, listings, listings_summary.
- You need to set up the right index structure and consider using compression for text columns.