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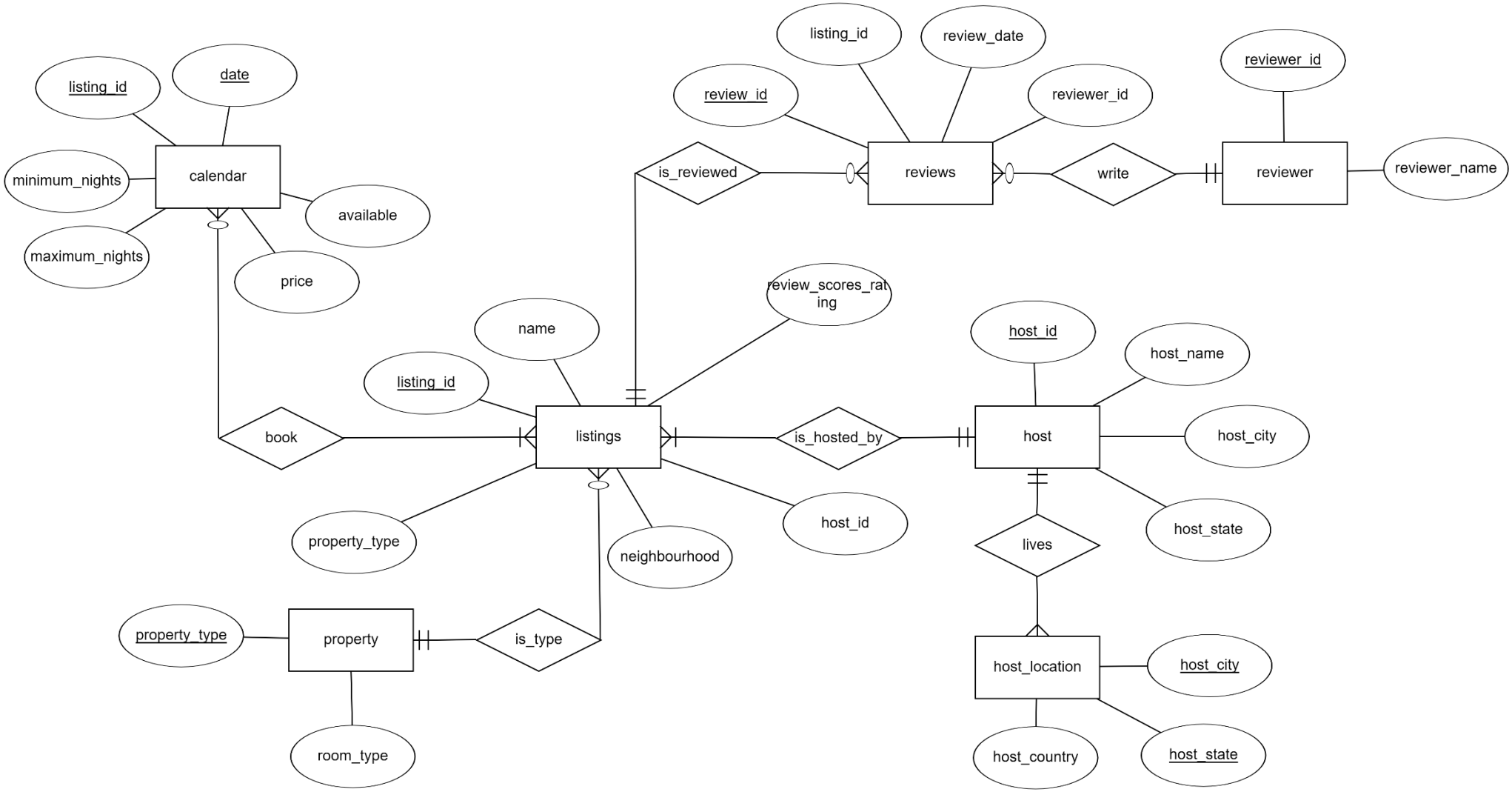
Assignment for JBP051-B-6: Foundations of Databases

Spring semester 2021

Task 1: ER diagram

Database chosen: [Airbnb data](#) for Amsterdam, North Holland, The Netherlands (modified to only useful columns)



Underlined attributes are key attributes.

About the tables:

1. Listing: one property or room (any location type to be rented) that a host has.
   - **1.1.** Neighbourhood is where the listing is located. (Can be different from the host location)
2. Host: registered person on the app that has the intention to rent his (one or more) listings. (Cannot register as a host without a listing)
3. There are 4 room types: Entire home/apt, Hotel room, Private room, and Shared room. Each of them has their own subset of property types.
4. A reviewer can review his stay at any time, so that the review_date is not usually the same as the date from the calendar table.
5. Calendar table
   - **5.1.** Available = 1 means that it was occupied at the certain date and available=0 otherwise.
   - **5.2.** Price, minimum_nights and maximum_nights depend on each listing and date. (It depends if it is a holiday season, for example).
6. It is assumed here that given a city and a state, a country is unequivocally and directly related. (And the same is not possible having the city name alone).
7. The dataset was extracted from Inside Airbnb (http://insideairbnb.com/get-the-data.html).
   - **7.1.** The chosen set was Amsterdam, North Holland, The Netherlands, which was modified to only useful columns. (41 columns deemed irrelevant for this project were excluded).
8. As the database is quite extensive (might cause an out of memory error), it is also provided online at: https://github.com/octokami/intro_to_db