I am attaching some feedback for your first deliverable:

- Assumptions:

  1) Good job on listing the assumptions you had made regarding the data set.

- ER feedbacks:

  1) Good job on identifying correctly the main entities: Listings, Host, Country, City, Calendar.

  2) Your ER models are quite hard to understand as you have not followed the course guidelines on ER diagram. It is a step between the ER model and the relational model as you have specified the Foreign keys in it but you have not made clear which boxes are relations and which are entities.

  2) Great job with normalizing the location data (country, city). However, could you also do this the or neighborhood? In that case, you can also join the neighborhood information for the host and property with a single neighborhoods table.

  3) you could model all the categorical variables (i.e. attributes that have a predefined set of values) as separate tables, to which you would have relations from the main table. For example, House details with **bed\_type.** This is useful since in the House detail table you would only store an integer instead of a longer string. This also makes it easier to control what someone can insert in that field (with referential integrity constraint).

  4) Your ER-model can be improved by trying to think of hierarchies, breaking down large entities into multiple small ones and trying to figure out what is the relationship between these new entities. For example, Countries have cities and cities have neighborhoods.

  5) You have included the neighborhood both in the Host and listing table. Can you make neighborhood an entity and connect it with both listings and hosts - in this way you have centralized the neighborhood info: deduplicate the data and make it easier to query for certain neighborhoods without the need to scan whole tables.

- DDL feedbacks:

  1) Good job on mapping the existing ER model to DDL, By improving the ER model and applying the comments your DDL will change and improve.

  2) If you model entities as weak entities, you should also make sure they behave accordingly (e.g. if you delete the main entity, you delete all the dependents)

  3) Make sure that you have all the NOT NULL constraints where you need them for the presented cardinalities in the ER model.

  4) Very nice commented code and assumptions, keep on with good work!

  5) Be careful with translating the relations. You need to translate the relation itself to a table only when there is a many to many relation between the entities.