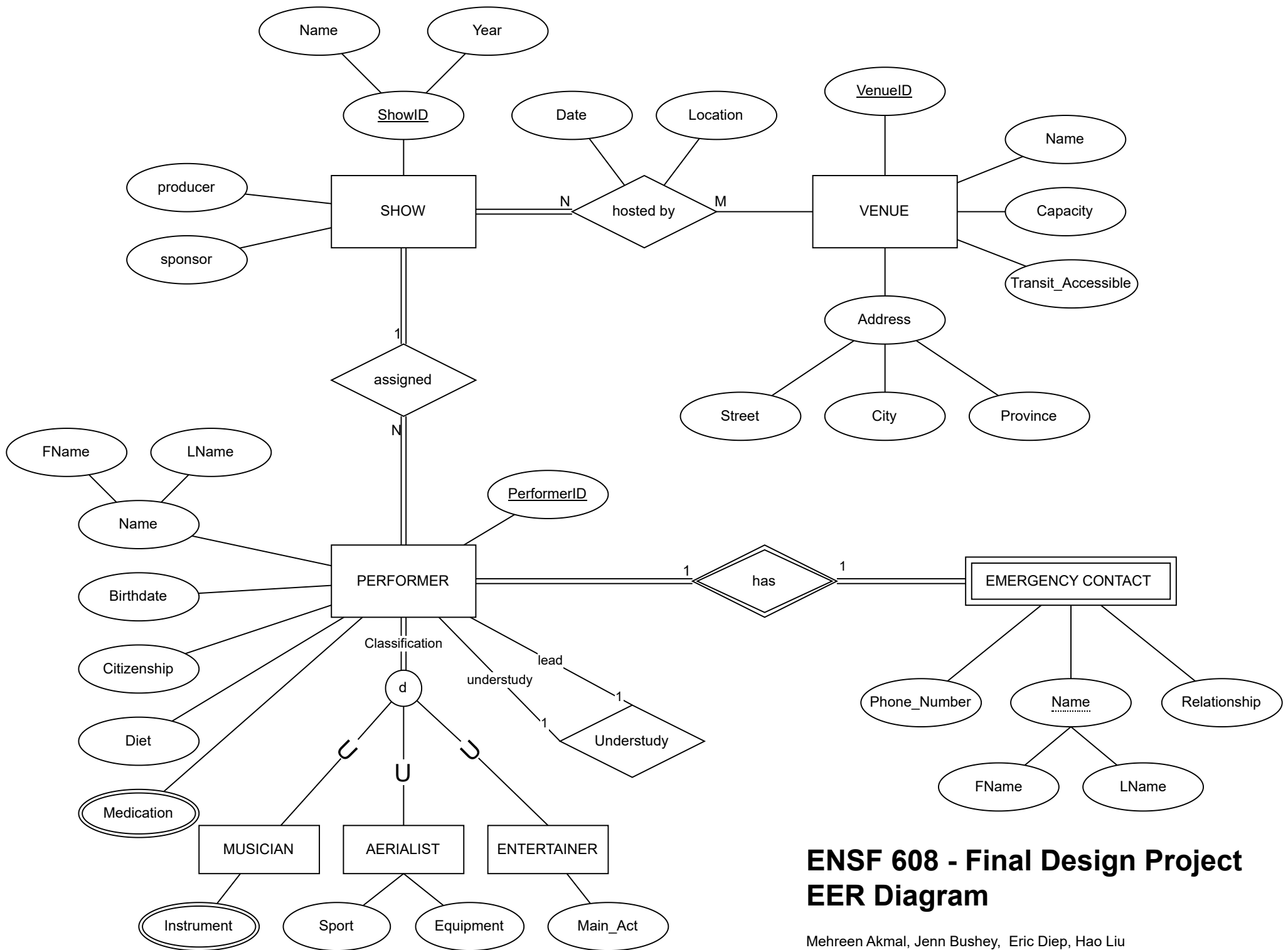# ENSF 608 Final Design
Project
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Design Decisions

- Entities: SHOW, PERFORMER, VENUE, and EMERGENCY CONTACT
- A PERFORMER must be classified as one of the three: Aerialist, Musician, or Entertainer. Therefore, this is total disjoint.
- EMERGENCY CONTACT – weak entity because it has an identifying relationship with PERFORMER and has no unique key attributes (Name or phone-number is not unique).
- EMERGENCY CONTACT to PERFORMER is a total participation relationship because each PERFORMER must have an emergency contact.
- To deal with the many-to-many relationship between SHOW and VENUE, HOSTS becomes a relationship relation with attributes Date and Location.
- The SHOW and PERFORMER relationship is total participation. SHOW cannot exist without any performers and the PERFORMER cannot exist without being assigned a SHOW.
- If an update is performed changing the venue to have a capacity of less than 300, a trigger displays an error message, and the update is not performed.
- When adding a performer, a trigger is set to display a message that a certification is required

Assumptions

- Diet is not multi-valued- each performer only has 0 or 1 diet restriction.
- Location attribute in HOSTED refers to room in venue so it is different than the address listed on the venue.
- A show can only exist when it has at least one performer
- Every PERFORMER has a different EMERGENCY CONTACT. An EMERGENCY CONTACT is only linked to one PERFORMER
- The venue capacity cannot be less than 300 (Corresponds update operation)
- SHOW to VENUE is total participation as a show must be hosted at a venue, while VENUE to SHOW is partial participation since a venue doesn't need to host a show.

ENSF 608 - Final Design Project
EER Diagram

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