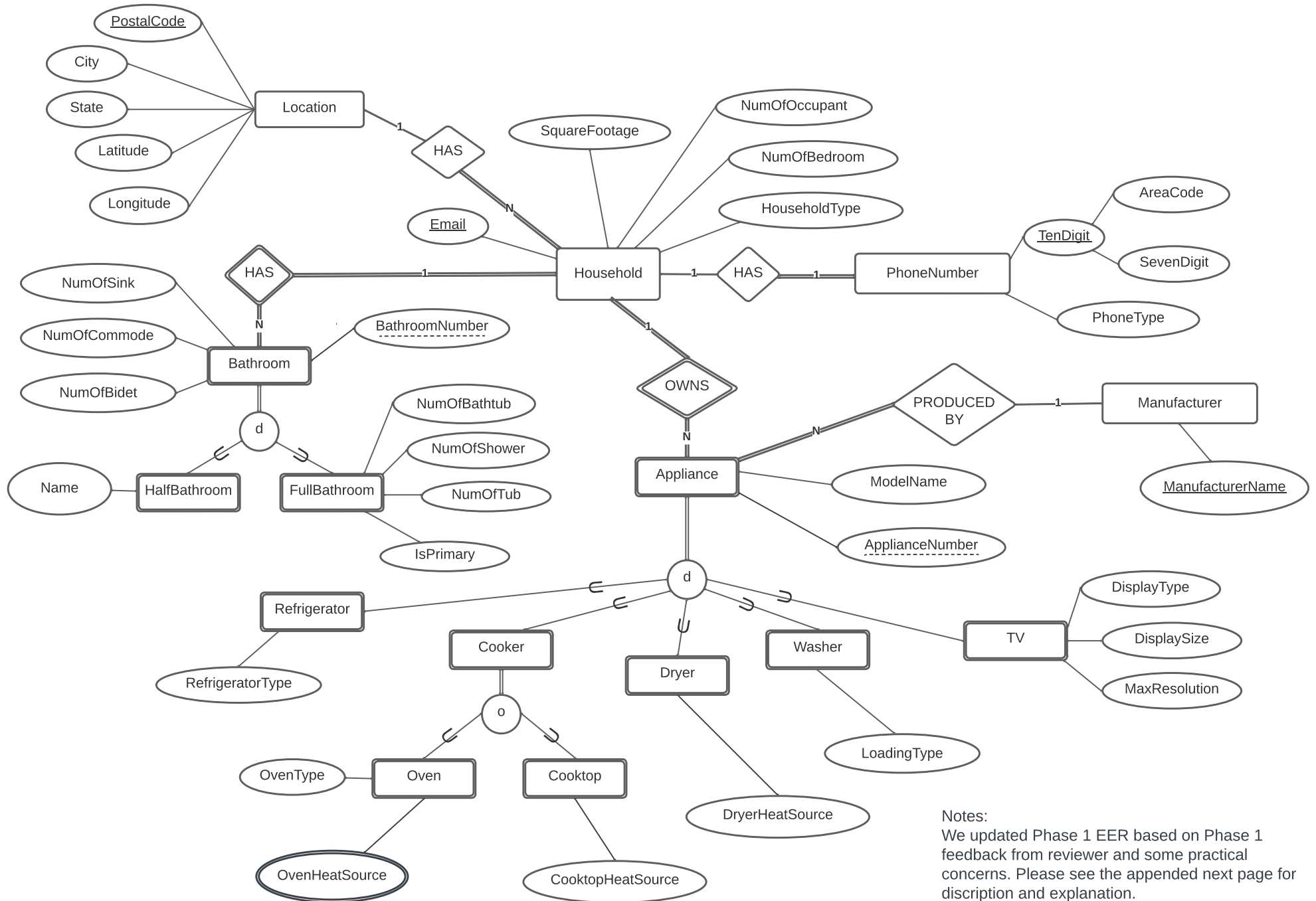


Phase 2 Updated EER Diagram | CS 6400 - Fall 2022 | Team 003



Notes:
We updated Phase 1 EER based on Phase 1 feedback from reviewer and some practical concerns. Please see the appended next page for discription and explanation.

Phase 2 *Updated* EER Diagram | CS 6400 - Fall 2022 | Team 003

Explanation of updates on Phase 1 EER:

- 1. Based on the Phase1 feedback, we added partial identifiers for Bathroom and Appliance entities:** Attributes BathroomNumber and ApplianceNumber. The two attributes are the entry order of the Bathroom and Appliance for a specific household in the system. Even these two attributes are initially assigned by the program, but will be exposed to end users. Therefore, the two attributes are not considered to be surrogates, and we included them in Phase 2 EER.
- 2. Based on the Phase1 feedback, we changed HeatSource entity to distinct attributes of Oven, Cooktop and Dryer:** HeatSource attributes should be unique to each appliance (Oven - OvenHeatSource (multi-value), Cooktop - CooktopHeatSource, Dryer - DryerHeatSource).
- 3. Phase1 feedback indicates the RefirgeratorType is missing for Refrigerator entity, but we do have this RefirgeratorType attribute in our Phase1 EER submission.** So we made no modification here.
- 4. Based on the instructor's reply in Ed discussion @566 and @565, we deleted ApplianceType attribute for Appliance entity:** The type of the Appliance can be determined by its sub-classes' names since the relationship between Appliance and its sub-classes is total disjoint. Having an additional ApplianceType attribute would be redundant and might be a threat to data consistency.