



Enclosures can house 0 to many animals. Enclosures could be empty when animals are removed from the zoo for different reasons. There could be a number of animals in an enclosure at a time.

Animals can only be in one enclosure at a time and have to be held within an enclosure. Having an animal without an enclosure would be a problem. As far as I know, animals can only belong to one species at a time and have to belong to a species (otherwise it would be in a lab, not a zoo).

Species could have 0 animals as animals are removed from the zoo for different reasons or could have many animals. Animals is an individual instance of a species.

One relationship I do not model is species to enclosures. This could be of interest to outline what species COULD live in an enclosure. Species with prey/predator relationships cannot coexist in a zoo (or not for very long) and enclosures can only accommodate certain environment needs and could exclude species from that enclosure. This would be a many to many relationship with a minimum of 1. It would be a bad business move to have an enclosure that no species can live in.