

# Task 2

For the scenario below identify the entities, their attributes and appropriate keys

## Finsbury Happy Zoo

Finsbury Happy Zoo's concept is to show animals together in their habitats. They have a number of enclosures of different **habitat types** (such as forest or tundra), different **sizes** (square metres), each having a **main feature** (such as a stream or a cave). Animals of different **species** share the same enclosure. Each **enclosure** has a **unique number** and there can be several enclosures with the same habitat but with a different main feature or of a different size. Each animal has a **unique ID**, and their **name**, **date\_of\_birth**, **diet** and **description** are stored. When an animal is put in an enclosure, the start date is recorded, and if they are transferred to another enclosure the end date is recorded. Zoo keepers may need to make a note about a particular animal, for example "not eating well today" and this is recorded along with the date. To make sure the animals don't eat each other a species compatibility table is maintained which has the following information; **speciesA**, **speciesB**, **compatibility\_rating** (5 for happy neighbours to 1 for bitter enemies). Species are identified by their **name**, and a **description** of the species and their **habitat type** are recorded. Species are matched against enclosures by Zoo staff, and if suitable the **maximum number of animals of a particular species for a particular enclosure** is recorded to prevent overcrowding.

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## Entity

- Key (Attribute)
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## Habitat

- id (Primary Key)
- typeId (Foreign Key)
- featureId (Foreign Key)
- size

## HabitatType

- id (Primary Key)

- name

## HabitatFeature

- id (Primary Key)
- name

## Animal

- id (Primary Key)
- species (Foreign Key)
- name
- date\_of\_birth
- diet
- description

## Species

- name (Primary Key)
- description
- habitatType (Foreign Key)

## SpeciesCompatability

- speciesA (Foreign Key *Composite* Primary Key)
- speciesB (Foreign Key, *Composite* Primary Key)
- rating

## SpeciesForEnclosure

- species (Foreign Key, *Composite* Primary Key)
- enclosure (Foreign Key, *Composite* Primary Key)
- maxAnimals