

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.

Enclosure (Entity)

Attributes:

Enclosure Unique number (key)
Type
Size
Main feature

Animal (Entity)

Attributes:

Unique animal ID (key)
Name
Date of birth
Diet
Description

Start and end date of animals at enclosures (Entity)

Attributes:

Enclosure Unique number (key)
Unique animal ID (key)
Enclosure start date
Enclosure end date

Zoo Keepers (Entity)

Attributes:

Animal ID (key)
Notes about animals
Date of note

Compatibility Table (Entity)

Attributes:

SpeciesA

SpeciesB

Compatibility rating

Species (Entity)

Attributes:

Species Name

Description

Habitat type

Capacity (Entity)

Attributes:

Enclosure unique number (key)

Species name

Maximum number of animals