

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.

Entities:

- Habitat
- Enclosure
- Animal
- Compatibility table
- Species

Attributes:

-Habitat

- Number of enclosures
- Different habitat types
- Different sizes

-Enclosures

- Unique number (primary key)
- Main feature
- Different size
- Animals of different species

-Animal

- Unique ID (primary key)
- Name
- Date of birth
- Diet
- Description
- Date of enclosure
- End date of enclosure
- Zoo keeper note

-Compatibility table

- Species A
- Species B
- Compatibility rating

-Species (Foreign key in compatibility table)

- Name (primary key)
- Description of species
- Habitat type
- Maximum number of animals