

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.

Entity

Attribute

Key – **Primary**, **Foreign**

Format below: Entity – Attributes listed (keys)

Animal – Different species, Name, Unique ID, DOB, Diet, Description, Note about particular animal, start date, end date

Habitat – Habitat type, Habitat size (square metres), Main feature

Enclosure – **Enclosure unique number**, habitat type?, enclosure size (square metres)?, enclosure main feature?, start date, end date,

Compatibility table – SpeciesA, speciesB, compatibility_rating

Species – **Name** (key), Description of species, **habitat type**