

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: Enclosure

Key: Unique No

Attributes: Habitat, Size, Feature

Entity: Animal

Key: Unique ID

Attributes: Name, DoB, Diet, Description, Start Date, End Date, Note, Date of Note

Entity: Species

Key: Name

Attributes: Description, Habitat Type, Max. amt per enclosure

Entity: Species Compatibility

Keys: speciesA, speciesB

Attributes: Compatibility Rating