

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 – Animal

Attributes – Animal ID, Name, Date of Birth, Diet, Description, (Foreign) Species Name

Entity – Enclosure

Attributes – Habitat Type, Size, Main Feature, Enclosure Number

Entity – Species

Attributes – Species Name, Description, Habitat Type

Entity – Species Compatibility

Attributes – SpeciesA, Species B, Compatibility Rating

Entity – Species Enclosure Matching

Attributes – (Foreign) Enclosure Number, (Foreign) Species Name, Max Animal Number

Event Action Entities:

Entity – Zoo Keeper's Note

Attributes – (Foreign) Animal ID, Date, Note

Entity – Animal In Enclosure

Attributes – (Foreign) Animal ID, (Foreign) Enclosure Number, Start Date, End Date