

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**.

Database title: Finsbury Happy Zoo

Entity 1: Enclosures

- **ID no.** [KEY]
- Habitat Type
- Size (in square meters)
- Main Feature

Entity 2: Animals

- **ID no.** [KEY]
- Name
- Date of Birth
- Diet
- Description
- Start Date (in the enclosure)
- End Date (if transferred out)

Entity 3: Species

- **Name** [KEY]
- Description
- Habitat Type

Entity 4: Compatibility

- **Species A** [KEY]
- **Species B** [KEY]
- Compatibility Rating (1 to 5)

Entity 5: Animal Notes

- **ID no.** [KEY]
- Animal ID [FOREIGN KEY]
- Note (about the animal)
- Date Recorded

Relationships:

Enclosures can contain multiple **Animals** and **Species**, with **Animals** belonging to **Species** and placed in **Enclosures**, **Species Compatibility** describing how well two **species** coexist, and **Notes** being made for **Animals** by zoo staff.