

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.

Enclosures (attribute)

- Habitat_type (string, primary key) – "forrest"
- Size (float, primary key) - 20
- Main_feature (string) – "waterfall"
- Max_number_of_animals (int) - 10

Animal (attribute)

- Animal_id (primary key) - 001
- Name (string) – "panda"
- Date_of_birth (date) – 30/09/2024
- Diet (string) – "bamboo"
- Description (string) – "A panda is a black-and-white bear-like animal from China that eats mostly bamboo and is known for its gentle nature."
- Arrival_date (date) – 30/09/2000
- Departure_date (date) – 30/09/2024

Zookeepers (attribute)

- Animal_note (string, primary key) – "not eating well today"
- Date (date, primary key) – 30/09/2024

Compatibility (attribute)

- SpeciesA (primary key) – "panda"
- SpeciesB (primary key) – "shark"
- Score (int) – 0

Species (attribute)

- Name (string, primary key) – "Panda"
- Description (string) – "A panda is a black-and-white bear-like animal from China that eats mostly bamboo and is known for its gentle nature."
- Habitat_type (string) – Bamboo forrest