

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)
- Size (float, primary key)
- Main feature (string)
- Max number of animals (int)

#### Animal (attribute)

- Animal id (primary key)
- Name (string)
- Date\_of\_birth (date)
- Diet (string)
- Description (string)
- Arrival date (date)
- Departure date (date)

#### Zookeepers (attribute)

- Animal note (string, primary key)
- Date (date, primary key)

#### Compatibility (attribute)

- SpeciesA (primary key)
- SpeciesB (primary key)
- Score (int)

#### Species (attribute)

- Name (string, primary key)
- Description (string)
- Habitat type (string)