

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

Attributes

- Enclosure_id = primary key
- Habitats
- Size
- Main_features

Entity: Animal

Attributes

- Animal_id = primary key
- Name
- Date_of_birth
- Diet
- Description

Entity: Assign Enclosure

Attributes

- Assign_Enclosure_id = primary key
- Animal_id
- Enclosure_id
- Start_date
- End_date

Entity: Keeper notes

Attributes

- Note information
- Date
- Note_id = primary key

- Animal_id

Entity: Species

Attributes

- Species name = primary key
- Species_description
- Habitat_type

Entity: species Compatibility

Attributes

- SpeciesA
- Speciesb
- Compatibility

Entity: Enclosure matching

Attributes

- Matching_id = primary key
- Species_name
- Enclosure_id
- Max_num_of_animal