

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 (entity):

- Unique number (primary key)
- Habitat type
- Size
- Main feature
- Max animals

Animals (entity):

- Unique ID (primary key)
- Name
- Date_of_birth
- Diet
- Description

Enclosure contents (entity):

- Unique number (primary key)
- Unique ID (primary key)
(composite key)
- Start date (in enclosure)
- End date (in enclosure)

Notes (entity):

- Note ID (primary key)
- Unique ID (foreign key)
- Date
- Note

Compatibility table (entity):

- Unique ID (species A) (composite primary key)
- Unique ID (species B) (composite primary key)

- Compatibility_rating

Species (entity):

- Name (primary key)
- Description
- habitat