

Entities

Attributes

Keys

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)

- Enclosure ID – (Key)
- Habitat Type –
- Size –
- Main Feature –

Animal (Entity)

- Animal ID – (Key)
- Name –
- D.O.B –
- Diet –
- Description –
- Start Date –
- End Date –

Zoo Keepers (Entity)

- Animal ID – (Key)
- Note –
- Date –

Species Compatibility (Entity)

- SpeciesA –
- SpeciesB –
- Compatibility Rating –

Species (Entity)

- Name of Species – (Key)
- Description of Species –

Habitat Type –

Overcrowding (Entity)

Enclosure ID – (Key)

Name of Species – (Key)

Max No. of Species –