

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. Zookeepers 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.

Enclosure (Entity)

- Unique id (primary key)
- Habitat type
- Main feature
- Size

Animal (Entity)

- Unique id (primary key)
- Enclosure id (foreign key to enclosure)
- Name
- Date of birth
- Diet
- Description
- Species name (foreign key to species)

Animal history(Event Entity)

- Animal id (Foreign key to Animal)
- Enclosure Id (foreign key to Enclosure)
- Start date
- End date
- Primary key (animal id, enclosure id)

Animal note (Event Entity)

- Animal id (foreign key to animal id)
- Note
- Date
- Primary key (animal id, date)

Species (Entity)

- Name (primary key)
- Description

Habitat type

Species Enclosure (

Species name (foreign key to species)

Enclosure Id (foreign key to enclosure)

Max number of animals

Primary key (species name, enclosure id)

Compatibility (Entity)

Species A (foreign key to species)

Species B (foreign key to species)

Rating